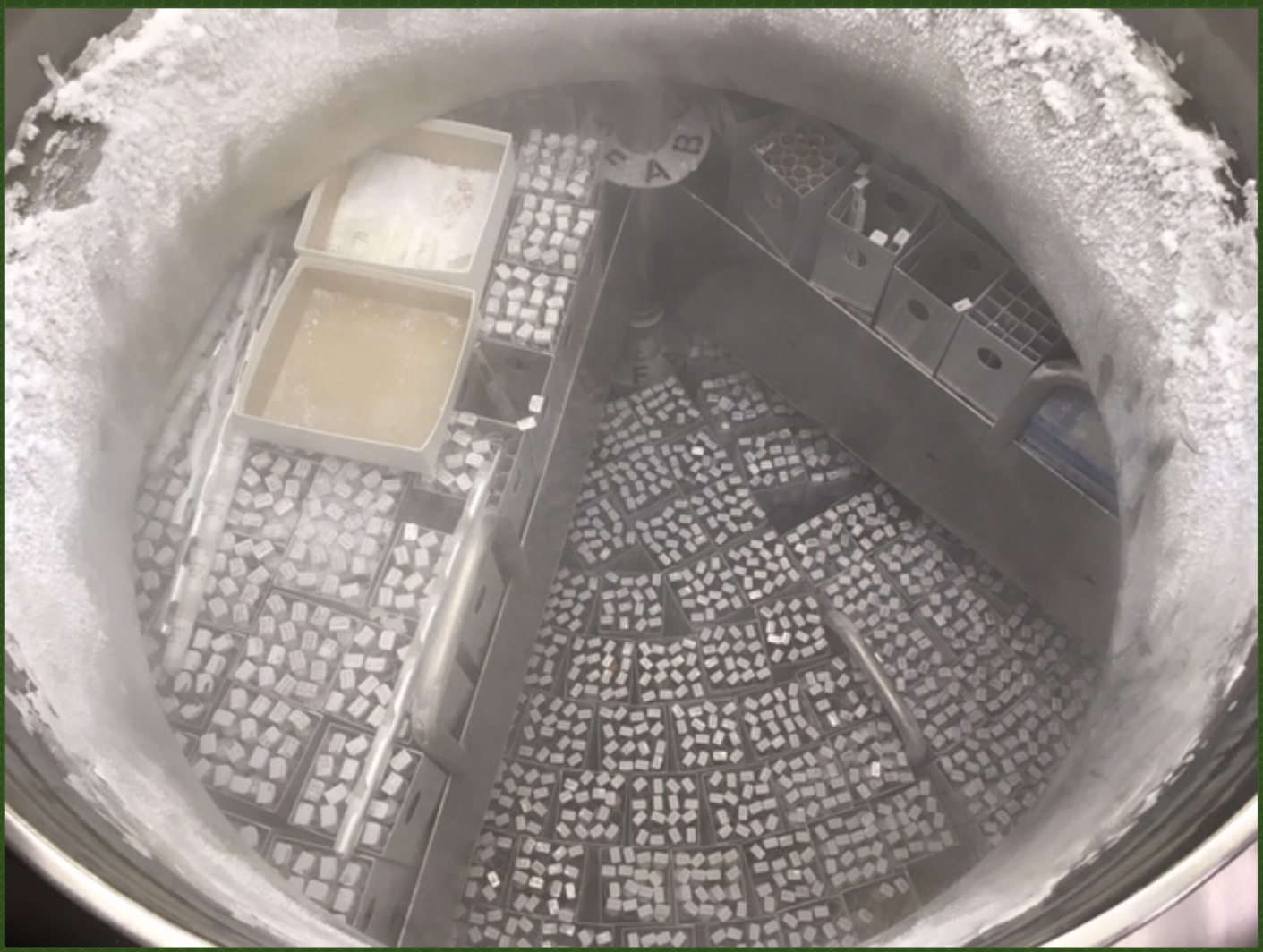
USDA-ARS Collection of Entomopathogenic Fungal Cultures

ARSEF

Metarhizium



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Fully Indexed
Includes 2901 isolates

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New nomenclatural rules bring new challenges, and new taxonomic revisions for entomopathogenic fungi

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February 2014 *(updated June 2020)**

The previous (2007) version of this introductory material for ARSEF catalogs sought to explain some of the phylogenetically-based rationale for major changes to the taxonomy of many key fungal entomopathogens, especially those involving some key conidial and sexual genera of the ascomycete order Hypocreales. Phylogenetic revisions of the taxonomies of entomopathogenic fungi continued to appear, and the results of these revisions are reflected in the ARSEF catalog as quickly and completely as we can do so.

As many of people dealing with entomopathogenic fungi are already aware, there has been one still recent event that has a more far-reaching and pervasive influence whose magnitude still remains to be fully appreciated, but that leaves much of the mycological world (including insect mycology) semi paralyzed by uncertainty and worried about the extent and impacts of changes that still remain unformalized and, hence, a continuing subject for speculation and prediction. At the 2011 International Botanical Congress in Melbourne (Australia), however, a far-reaching nomenclatural revolution was imposed on the fungal world as the result of the abandonment of the existing dual nomenclatural standard that allowed separate, valid names for anamorphic and teleomorphic stages of pleomorphic fungi. This dual nomenclatural system was replaced by a new standard allowing only *one* correct name for any pleomorphic fungus regardless of how many morphs might have been previously and validly recognized for that fungus. The new rule (also known as One Fungus = One Name, or, even more concisely, 1F=1N) has deeply split mycologists into opposed camps greeting the new rules with either cheers or jeers. Whether one supports or opposes this change (for the record, I strongly object to this change), these basic points are indisputable and must be accepted (whether happily or not):

- Dual nomenclature is no longer recognized (now and for the indefinite future).
- 1F=1N is the ***only*** nomenclatural standard applicable for the nomenclature of pleomorphic fungi.
- The main impacts of 1F=1N are apparent at the rank of genera.
- After the competing possible names are evaluated, a ***single*** correct generic name will be chosen by decisions of committees as defined by the International Association for Plant Taxonomy (IAPT) which oversees the ***International Code of Nomenclature for algae, fungi and plants*** (***ICN***; **McNeill et al. 2012** or online at *http://www.iapt-taxon.org/nomen/main.php*).
- The use of the specified correct names, once fully confirmed, is obligatory and ***must*** be followed because all such names will be treated as if they have been conserved against all possible alternative names.
- Other taxonomic changes (especially below the generic level)–e.g., when the chosen correct generic name is of a different gender from that which it

replaces, specific epithets must be changed to reflect the newer generic gender as when *Paecilomyces farinosus* became *Isaria farinosa*.

- Some very familiar, cherished generic names will disappear, and the traditional generic circumscriptions for pleomorphic fungi will expand and be revised to reflect all phylogenetically related morphs for their included taxa.

How correct names will be chosen: The ultimate selection of correct names over all possible competing names will depend on a number of sequential actions by a significant number of persons in a series of committees, and will be subject to all of the difficulties that routinely accompany committee actions. The exact set of actions that will be occurring still remain uncertain in many quarters. For fungi in the Hypocreales (the entomopathogens most affected by the new rule and also raising the greatest concerns for insect pathologists), there is a world-wide group of mycologists with strong taxonomic/systematics expertise who will consider the demonstrated phylogenies of these fungi, assemble lists of generic names that appear to apply to monophyletic groups of taxa, and that will formally propose a set of choices of correct genera (and their synonyms) to the IAPT's Nomenclature Committee for Fungi. Once this committee has cast their votes to accept (or to modify) any of the proposed choices, the lists of accepted and rejected names will be sent forward to the General Committee of the IAPT for ratification, and then to the Nomenclature Session of the next International Botanical Congress (the next such meeting will be in 2017, in Beijing; any reports from the Committee for Fungi that miss the deadlines for this next Congress would be passed on to the following Congress in 2023 (wherever that may be held). No nomenclatural changes or decisions of any type become completely official until they have been accepted by majority votes during the Nomenclature Session at an International Botanical Congress and then ratified by a plenary vote of the Congress participants at that Congress. It is interesting to note that the only constitutive reason for holding any International Botanical Congress is actually for holding these Nomenclatural Sessions (before the main Congress) and the final, obligatory vote on the acceptance of the report from the Nomenclatural Session during the closing plenary session of the Congress.

The selection of which name among competing possibilities will be selected as correct is not entirely arbitrary, but it is also necessary to remember that it will be a matter of consensus opinion among the members of the committees that will consider the proposals coming to them. The criteria that are supposed to be used for ultimately choosing the names that will be used are to be based in the first place on priority of publication (which name is the oldest available name). There is no longer any automatic preference in the Code to choose names as correct that are typified by teleomorphs; names for conidial and sexual states are to be treated on an equal basis for purposes of selecting the correct name.

It is apparent that even now (early in 2014), there is still a great deal of uncertainty among mycologists about exactly how to handle names of pleomorphic fungi during this transitional period from the defunct dual nomenclatural system to the new rule. Hawksworth (2012) provides what may be the most comprehensive opinion about how to proceed from this point, but it is only one opinion about how the mechanics should proceed.

Changes to the International Code of Nomenclature (ICN) for botanical and related taxa are supposed to result in greater stability and predictability for the names of organisms covered by these rules. Whether the newly adopted rules do this remains a source of active and heated controversy. It probably is fair to say that a new stability will be an eventual result of these new rules, and that within another decade many of the fundamental arguments about the value of these changes will have been settled. I will note that the names for the entomopathogenic hypocrealean fungi (which comprise the vast majority of fungi in the ARSEF culture collection) are among the fungi most drastically affected by this dramatic change in the ICN rules. While nomenclatural stability will eventually come, it will still be a number of years before that stabilization process has been completed and before the resulting changes are fully incorporated into the scientific literature. It is probable that all or, at least, the great majority of the basic changes outlined here will be ready for final ratification during the 2017 International Botanical Congress in Beijing.

Just as there is enormous confusion and controversy still about whether the abandonment of dual nomenclature for the 1F=1N rule was a good and necessary change or will prove to be a superfluous and destructive catastrophe, there are many analyses covering a range of opinions from opposed to and troubled by the change (e.g., **Korf 2005** precedes the adoption of the new rules but raises important and pertinent issues; **Gams et al. 2011, 2012**) to those who seem to be cautiously and a bit vigilantly supportive (e.g., **Braun 2012**) to those leading full-throated cheers for these changes (**Hawksworth 2011**; **Hibbett & Taylor 2013**) to even a suggestion that the naming of fungi may cause more problems than it solves (**Money 2013**).

ARSEF responses to taxonomic revisions: The identifications in the ARSEF catalog have always incorporated new taxa and appropriately revised classifications as soon as the collection staff can confirm the correct new identifications for ARSEF holdings. We make every attempt in the catalog to note specifically when those identifications are based on genomic sequence data. For taxa where extensive molecular revisions have occurred, those isolates with genomically confirmed identifications–for example, for isolates of *Beauveria bassiana* and *Metarhizium anisopliae* in their molecularly redefined, phylogenetically narrowed, strict senses (***sensu stricto***)–are listed in the catalog as these species; isolates that have not been molecular confirmed are placed in separate listings for these species in their broad senses (***sensu lato***).

GENERAL AND PHYLOGENETIC RECLASSIFICATIONS OF FUNGI

The results of a global cooperative effort involving dozens of mycologists (including the curator of this collection) to reclassify the fungi according to phylogenetically sound principles based on the DNA sequence data for multiple genes has recently resulted in the publication of two monumentally important publications that completely rework mycological systematics. The earlier publication was a phylogenetic overview of virtually all fungi (**James et al. 2006**). The second publication (**Hibbett et al. 2007**) provided many of the necessary taxonomic readjustments that were indicated by the phylogenetic studies. The ITS locus sequence has been adopted as a supposedly universal biological bar code gene (**Schoch et al. 2012**) because of its wide usefulness for a vast range of fungi; however, reality has consistently indicated that the ITS sequence has very little usefulness for the identification of fungi in some important groups of ascomycete (***especially including*** taxa in the order Hypocreales). As is noted here, however, there have been many later phylogenetic studies that are important for the taxonomy and systematics of entomopathogenic fungi. Some of these major studies involving entomopathogens from the order Hypocreales are listed here by anamorphic or teleomorphic generic name:

Beauveria — **Rehner et al. 2011; Kepler et al. 2017, Khonsanit et al., 2020**
Fusarium — **O'Donnell et al. 2012**
Isaria - **Mongkolsamrit et al., 2018**
Metarhizium — **Bischoff et al. 2009**; **Kepler & Rehner 2013**; **Kepler et al. 2014**
Metacordyceps — **Kepler et al. 2012**
Polycephalomyces — **Kepler et al. 2013**

Table 1. UPDATES for probable outcomes under 1F=1N standards for which genera of entomopathogens in Hypocreales are likely to be treated as 'correct' differing (where underlined) from those suggested in RA Humber's (2012) poster presented at the annual meeting of the Society for Invertebrate Pathology in Buenos Aires, AR.

Family Clavicipitaceae

Humber (2012)	***Metarhizium*** (syn. *Metacordyceps, Nomuraea, Pochonia, Rotiferophthora*, etc.) ***Aschersonia*** (syn. Hypocrella) Other aschersonioid genera; ***Moelleriella, Orbiocrella, Regiocrella, Samuelsia***
Updated (see Kepler et al. 2014)	***Metarhizium*** (syn. Chamaeleomyces, *Metacordyceps, Nomuraea*) ***Pochonia*** ***Metapochonia*** ***Rotiferophthora*** ***Aschersonia*** (syn. Hypocrella) Other aschersonioid genera; ***Moelleriella, Orbiocrella, Regiocrella, Samuelsia***

Family Cordycipitaceae

Humber (2012)	***Cordyceps*** (syn. *Beauveria, Isaria, Lecanicillium, Evlachovaea, Microhilum, Simplicillium*, etc.) ***Torrubiella*** (syn. *Akanthomyces, Gibellula, Granulomanus, Pseudogibellula*) ***Ascopolyporus*** ***Conoidiocrella***
Updated (see Kepler et al. 2017)*	***Cordyceps*** (synonyms *Isaria, Microhilum, Evlachovaea)* ***Beauveria*** ***Gibellula*** (synonym: *Granulomanus*) ***Hevansia*** ***Ascopolyporus*** ***Conoidiocrella*** ***Simplicillium***

Family Ophiocordycipitaceae

Humber (2012)	***Elaphocordyceps*** (synonym *Tolypocladium*) ***Ophiocordyceps*** (synonyms *Hirsutella*[2]*, Hymenostilbe, Paraisaria, Sorosporella, Synglíocladium*)
Updated (see Quandt et al. 2014)*	***Ophiocordyceps*** (synonyms *Hirsutella, Hymenostilbe, Paraisaria, Sorosporella, Synglíocladium*) ***Purpureocillium*** ***Tolypocladium*** *(synonym Elaphocordyceps)*

Table 2. Phylum Entomophthoromycota (Humber 2012)

Class Basidiobolomycetes	
Order Basidiobolales	
Family Basidiolaceae	*Basidiobolus*, *Schizangiella*[1], *Drechslerosporium*[1]
Class Neozygitomycetes	
Order Neozytigales	
Family Neozytigaceae	*Neozygites, Apterivorax, Thaxterosporium*
Class Entomophthoromycetes	
Order Entomophthorales	
Family Ancylistaceae	*Ancylistes, Conidiobolus*[2]*, Macrobiotophthora*
Family Completoriaceae	*Completoria*
Family Entomophthoraceae	
Subfamily Entomophthoroideae	*Entomophthora, Entomophaga, Eryniopsis, Massospora*[4]
Subfamily Erynioideae[3]	*Erynia, Furia, Orthomyces, Pandora, Strongwellsea, Zoophthora*
Family Meristacraceae[5]	*Meristacrum, Tabanomyces*

[1] Genus with phylogenetic support but still awaiting formal description.
[2] Phylogenetic data indicate this genus must be revised and split.
[3] Phylogenetic data support *Zoophthora*, but distinctions among other genera remain uncertain.
[4] Subfamily Massosporoideae proposed by **Keller & Petrini (2005)** is not phylogenetically supported.
[5] Two previously included genera–*Ballocephala* and *Zygnemomyces*–have been excluded from Entomophthoromycota and reclassified in subphylum Kickxellomycotina (see **Humber 2012**).

FLAGELLATE FUNGI AND FUNGAL ALLIES

The removal of the Oomycetes (biflagellate watermolds whose zoospores have one whiplash and one tinsel flagellum) from the true fungi to the class Peronosporomycetes in the kingdom Straminipila (also known as kingdom Chromista) has been widely accepted within mycology for several decades now. There are, however, a small number of watermolds that produce uniflagellate zoospores (with a single posterior whiplash flagellum) that have traditionally been treated in the Chytridiomycota. The massive phylogenetic review of fungi (**James et al. 2006**) known under the All-Fungal Tree of Life (AFTOL) Project resulted indicated that a large group of taxa—including the entomopathogenic genera *Coelomomyces*, *Coelomycidium*, and *Myiophagus*—needed to be removed from the Chytridiomycota; these semi-terrestrial chytrids with golden-brown resistant sporangia and complex life histories were reclassified by **Hibbett et al. (2007)** into the newer kingdom Blastocladiomycota.

ENTOMOPHTHOROMYCOTA: A NEW PHYLUM*

The phylogenetically driven reclassification of all fungi (**Hibbett et al., 2007**) resulted in the abandonment of the phylum Zygomycota (as well as the subphylum Zygomycotina and class Zygomycetes) because these long-recognized taxa were finally proven to be distinctly polyphyletic. A series of subphyla *not assigned to any phylum* were described in **Hibbett et al. (2007)** while placing arbuscular mycorrhizal fungi (Glomales) in a clearly distinct phylum, Glomeromycota. Since that initial formal dispersal of zygomycete fungi, the new (still unassigned) subphylum Mortierellomycotina was described (**Hoffmann et al. 2011**). It was always understood that it was probable that further phylogenetic studies on these unassigned subphyla of zygomycetous fungi could eventually result in raising each of these subphyla to phylum ranking. In the case of the Entomophthoromycotina, these 'missing' phylogenetic studies have been

completed in a sufficiently convincing manner (**Gryganskyi et al. 2012a,b**) to support the description of the phylum Entomophthoromycota (Humber 2012) with a new and phylogenetically revised classification of entomophthoroid fungi into three classes (see Table 2).

* A study by **Spatafora et al. (2016)** utilizing genome-scale data to analyze zygomycete fungi, proposed the creation of a new phylum, **Zoopagomycota,** with subphyla Entomophthoromycotina, Kickxellomycotina, and Zoopagomycotina. The authors rejected use of the name Zygomycota since zygospore formation is not a synapomorphy, but a sympleisiomorphic trait (i.e., trait shared by common ancestors of Zoopagomycota and other phyla). The phylum name Zoopagomycota was selected over other possible names, including Entomophthoromycota, because of its broader and more inclusive meaning. This new proposal retained the three classes in the subphylum Entomophthoromycotina proposed by **Humber (2012).**

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* Updates by LA Castrillo (June 2020)

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ARS Collection of Entomopathogenic Fungal Cultures

History and Purpose of the ARSEF Collection

The goal of the ARS Collection of Entomopathogenic Fungal Cultures (ARSEF) is to provide fundamental support for basic and applied research on the fungal pathogens of invertebrates. Since its establishment in the early 1970s, this collection has served as a general research resource for the isolation, collection, preservation, and distribution of fungal strains from insects, other arthropods, and nematodes. Emphasis has always been placed on acquiring and distributing strains under active study for use as potential biological control agents. Basic research associated with the collection includes fungal systematics, fungal cytology, pathobiology, and methodology for fungal cryopreservation. The culture collection and its associated collection of microscope slides and herbarium specimens provide invaluable support for taxonomic research on and the diagnoses of fungal pathogens of invertebrates. Identification services for specimens and cultures have always been available free of charge to any laboratories requesting them.

We strive to provide users with pure and accurately identified fungal cultures., and the taxonomies applied to the fungi in this collection are continuously updated to reflect their current accepted classifications. The curator of the collection welcomes all correspondence about nomenclatural or taxonomic changes or possible misidentifications involving any ARSEF strains.

The ARSEF collection began as Richard Soper's research collection in the USDA-ARS laboratory at the University of Maine (Orono; UMO) where its cultures were at initially designated by a UMO or RS prefix before adopting ARSEF in 1985. In 1978, the ARS Insect Pathology Research Unit relocated to Ithaca, NY, to work with the Boyce Thompson Institute (BTI) on the Cornell University campus. The Insect Pathology Research Unit became the Plant Protection Research Unit (PPRU) in 1985, and was renamed in 2016 as the Emerging Pests and Pathogens Research Unit (EPPRU). The ARSEF collection moved from BTI in 1990 into the US Plant, Soil & Nutrition Laboratory which was rededicated in 2008 as the Robert W. Holley Center for Agriculture & Health to commemorate Dr. Holley's work there to complete the first sequencing of any nucleic acid; he received the 1968 Nobel Prize for Medicine or Physiology for this work.

EPPRU operates the ARSEF culture collection for the USDA Agricultural Research Service; the collection is not now and has never been owned or controlled by the Boyce Thompson Institute. ARSEF is one of the largest germplasm collections in the ARS, and is widely recognized for its active support of research on fungal pathogens of invertebrates. ARSEF and its associated herbarium are registered under the ARSEF acronym since 1985 with the World Federation of Culture Collections' World Data Center on Microorganisms and the International Association of Plant Taxonomists' *Index Herbariorum*, respectively.

From 1977 through 2008, all strains in the collection were preserved by immersion in liquid nitrogen. A program to lyophilize those isolates that could tolerate such was begun in the 1990's, and has expanded in scope and pace. At the end of 2008 the vast majority of the collection was consolidated in a single large nitrogen dewar in a new facility adjacent to the current building. Requests for cultures are filled with either actively growing cultures on appropriate media or, if available, as freeze-dried units.

Identifying and Acknowledging ARSEF Strains in Publications

We request that all publications using or referring to strains obtained from ARSEF acknowledge the U.S. Department of Agriculture, ARS EPPRU and state the ARSEF accession numbers of these strains. We would greatly appreciate receiving reprints of all past, current, and future publications or even periodic notification about research in progress involving the use of ARSEF strains.

Accession numbers of strains from commercial culture collections such as the American Type Culture Collection (ATCC), Centraalbureau voor Schimmelcultures (CBS), CAB International Mycological Institute (IMI), and other registered general service collections are listed in this catalog to provide complete information about specific isolates. ***Representation of cultures obtained from ARSEF as being from ATCC, CBS, IMI or UAMH or other general service culture collections violates trademark laws, and persons doing so are subject to prosecution. Cultures received from ARSEF should be referred to by their ARSEF numbers only even if they are co-deposited in other culture collections***.

Depositing and Exchanging Cultures

EPPRU and ARSEF encourage deposition of entomopathogenic fungal cultures in the ARSEF collection–particularly strains used in published studies–and of voucher and reference specimens to its herbarium. Depositors may reserve the right to limit redistribution of any culture deposited with ARSEF for specified times upon consultation with the curator. Depositors can receive subcultures of their own depositions at any time; these cultures do not affect any allowances of free cultures. Exchanges of cultures between ARSEF and other research or general collections of fungal cultures are encouraged and are not subject to numerical limits.

Prior to shipping cultures from countries outside the United States contact the Curator to obtain the appropriate needed importation permit from the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, Plant Protection and Quarantine.

When sending cultures and/or specimens to ARSEF, it is very important to include as much of the following information as possible:

1. Scientific name (and taxonomic authority) of the fungus.
2. Common and scientific name (with taxonomic authority) of the host.
3. Order and family of the host. (***This information is required)***
4. Date and site of collection. (*This information is required)*
5. Name of collector.
6. Date and name of isolator.
7. Any collection, accession, or other identifier number(s) applied by the collector or sender.
8. Medium on which a culture is sent.
9. Any special requirements or conditions for growth (such as medium, temperature, pH).

Diagnostic Services for Cultures and Specimens

Specimens and cultures of unidentified fungi from invertebrates can be submitted to ARSEF for diagnosis, after consultation with the curator. This service is an important function of ARSEF and is provided without charge, but is generally limited to initial identification based on morphological characters. *We do not provide free identification requiring multi-locus sequencing*.

Release of ARSEF Cultures from Containment or Quarantine

Neither the curator nor any employee of ARSEF or of the EPPRU is entitled to authorize the release of any culture it provides from laboratory containment or quarantine in the United States or elsewhere. Recipients of ARSEF cultures are responsible for obtaining appropriate and necessary permissions from or for providing official notifications to State and Federal regulatory agencies.

Ordering Information

Please send all requests for isolates directly to the Acting Curator (Louela A. Castrillo):

ARS Collection of Entomopathogenic Fungal Cultures
Robert W. Holley Center for Agriculture & Health
538 Tower Rd.
Ithaca, NY 14853–2901

OR

Telephone: [+1] 607 255-7008
Email: Louela.Castrillo@usda.gov

Academic, Government, and Other Nonprofit Institutions

1–12 isolates [up to 24 per calendar year]
13 or more isolates per order [25 or more per calendar year] ***contact Curator***

Users from nonprofit institutions can receive up to twelve isolates in any 6 month period, and up to 24 cultures in any calendar year.

Commercial and Industrial Institutions

1–12 isolates [per calendar year]

Users from for profit institutions can receive up to twelve isolates in any calendar year.

Terms of Shipment

All recipients of cultures are requested to provide express shipper account numbers to allow shipping costs to be billed directly to recipients, thus assuring significant cost-savings to the ARSEF collection.

We request confirmation of receipt and viability of cultures shipped. Inviable strains will be replaced.

ARSEF reserves the right to refuse to ship isolates

- to recipients who cannot handle them using standard microbiological practices,
- to laboratories that cannot assure laboratory containment of isolates except after obtaining permissions from applicable State and Federal regulatory agencies, or
- if use of routine mailing or shipping procedures cannot assure the receipt of viable cultures.

Neither ARSEF nor EPPRU is liable for damages arising from the misidentification of strains.

Interpretation of Strain Accession Data

The following examples provide a guide to the arrangement and interpretation of collection data included in this catalog.

***Beauveria bassiana* (Balsamo) Vuillemin**

2828 M Feng (MD8903). *Metopolophium dirhodum* [Homoptera: Aphididae] on spring wheat. 21 Jul 89. USA: Parma, Idaho.

2828	ARSEF accession number.
M Feng (MD8903)	Depositor and depositor's reference or accession number.
Metopolohpium dirhodum [Homoptera: Aphididae]	Original host [host's order and family]
On spring wheat	The substrate on which the host was found
21 Jul 89	Date of accession or receipt by ARSEF.
USA: Parma, Idaho	Country of origin followed by the locality and state.

***Conidiobolus thromboides* Drechsler**

73 [CSIRO EM534; FPMI 28] RG Kenneth (3040)←ATCC (24419)←DM MacLeod←G Thoizon. *Rhopalosiphum insertum* [Homoptera: Aphididae]. Rec'd Jan 18 1976. France: Val-de-Marne, La Varenne.

73	ARSEF accession number.
[CSIRO EM534; FPMI 28]	Alternative depositions of this strain in other culture collections.
RG Kenneth (3040)	Depositor and depositor's reference or accession number.
←ATCC (24419)←DM MacLeod←G Thoizon	Culture provenance: RG Kenneth obtained the culture from ATCC, which received it from DM MacLeod, who received it from G Thoizon.
Rhopalosiphum insertum [Acari: Eriophyidae]	Original host [host's order and family]
Rec'd Jan 18 1976	Date of receipt by ARSEF.

***Hirsutella thompsonii* Fisher**

137 [ATCC 24874; CBS 952.73] CW McCoy (Fla. 68). *Phyllocoptruta oleivora* [Acari: Eriophyidae]. Jan 1 1970. USA: Orlando, Florida.

137	ARSEF accession number.
[ATCC 24874; CBS 952.73]	Alternative depositions of this strain in other culture collections.
CW McCoy (Fla. 68)	Depositor and depositor's reference or accession number.
Phyllocoptruta oleivora [Homoptera: Aphididae]	Original host together with the host's order and family.
Jan 1 1970	Date of accession or receipt by ARSEF. Note: January 1 is a default date if an exact date in a year is unknown; the first day of the month is the default if no specific day in a month is known.
USA: Orlando, Florida	Country of origin followed by the locality and state.

Abbreviations

Information about the world's officially registered culture collections, their registered acronyms (e.g., ARSEF), and more is available from the CCINFO database and from other resources available at the website of the World Data Center for Microbiology <***http://wdcm.nig.ac.jp/WDCHomePage_text.html***>

ARSEF	ARS Collection of Entomopathogenic Fungi, USDA-ARS EPPRU Research Unit, Robert W. Holley Center for Agriculture & Health, Tower Rd., Ithaca, New York, 14853-2901, USA
ATCC	American Type Culture Collection, PO Box 1549, Manassas, Virginia 20108, USA
CATIE	Centro Agronómico Tropical de Investigación y Enseñanza, Proyecto UIP, Apdo. Postal 7170, Turrialba, Costa Rica.
CBS	Centraalbureau voor Schimmelcultures, Uppsalalaan 8, 3584 CT Utrecht, The Netherlands
CCF	Culture Collection of Fungi, Department of Botany, Charles University, Prague, Czech Republic
CCFC	Canadian Collection of Fungus Cultures, Centre for Land and Biological Resources Research, Room 1015, K.W. Neatby Bldg., Ottawa, Ontario K1A 0C6, Canada
CDC	Centers for Disease Control and Prevention, Atlanta, Georgia 30333, USA
CENARGEN	Centro Nacional de Pesquisa de Recursos Geéticos e Biotechnologia, S.A.I.N. Parque Rural, C.P. 102372, 70770 Brasília, D.F., Brazil
CIRI	Corn Insects Research Unit, USDA-ARS, R.R. Box 45B, Ankeny, Iowa 50021, USA
CNPAF	National Center for Agricultural Research on Rice and Beans, EMBRAPA, Goiânia, Goiás, Brazil
CNPS	National Center for Agricultural Research on Soybeans, EMBRAPA, Londrina, Paraná, Brazil
CP	Strains isolated during joint US-Brazil program funded by US-AID to study fungal biocontrol of the insect pests of cowpeas
DAOM	National Mycological Herbarium, Centre for Land and Biological Resources Research, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario, K1A 0C6, Canada
DAR	New South Wales Department of Agriculture, Rydalmere, NSW, Australia
EFCC	Korean Entomopathogenic Fungal Collection (JM Sung, Curator), Dept. of Agricultural Biology, Kangwon National University, Chuncheon, Rep. of Korea
FI	CSIRO Entomology Division, Collection of Entomopathogenic Fungi, Black Mountain Laboratories, Canberra, ACT, Australia. This collection, formerly curated by R. Milner, is now orphaned and is being transferred to ARSEF.
FPMI	Great Lakes Forestry Center (formerly Forest Pest Management Institute), 1219 Queen Street East, Sault Ste. Marie, Ontario P6A 5M7, Canada. This collection, formerly led by D MacLeod and D Tyrrell is orphaned and endangered. Its surviving isolates *may* be transferred to DAOM.

GCRI	Horticulture Research International (formerly, Glasshouse Crops Research Institute), Worthing Road, Littlehampton, W. Sussex BN17 6LP, England, UK
HACC	Hindustan Antibiotics Ltd., Pimpri, Poona, India
IMI	(Now incorporated in United Kingdom National Culture Collection [UKNCC]) CABI Bioscience, Bakeham Lane, Egham, Surrey TW20 9TY, UK
INRA	Station de Recherches de lutte Biologique et Biocoenotique, INRA (Institut National de la Recherche Agronomique), La Minière – 78280 Guyancourt, France
IPLB	Unité de Lutte Biologique, Institut Pasteur, 28 Rue de Dr. Roux, 75724 Paris, France
IRRI	International Rice Research Institute, P.O. Box 933, Manila, Philippines
KEFC	(see EFCC)
KSU	Kansas State University, Department of Entomology, Manhattan, Kansas 66506, USA
MAF	Ministry of Agriculture and Fisheries, Canterbury Agriculture and Science Centre, Ellesmere Junction Road, P.O. Box 24, Lincoln, New Zealand
MU	Miami University, Willard Sherman Turrell Herbarium, Department of Botany, 79 Upham Hall, Oxford, Ohio 45056, USA
NCTC	National Collection of Type Cultures, Public Health Laboratory Service, 61 Colindale Ave., London NW9 5HT, England, UK
NRRL	ARS Culture Collection, USDA-ARS National Center for Agricultural Utilization Research, 1815 N. University, Peoria, Illinois 61604, USA
PSU	The Pennsylvania State University, 211 Buckhout Laboratory, University Park, Pennsylvania 16802, USA
QEC	Queen Elizabeth College, University of London, Department of Biology, Campden Hill Road, London W8 7AH, England, UK
QM	U.S. Army Natick Laboratories (formerly, Quartermaster Research and Development Center), Natick Massachusetts. Note: This collection has been transferred to NRRL.
RSA	Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, California 91711, USA
SBI	Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore – 641 007, Tamil Nadu, India
UAF	University of Arkansas, Department of Entomology, 321 Agriculture Building, Fayetteville, Arkansas 72701, USA
UAMH	University of Alberta Microfungus Collection, Devonian Botanic Garden, University of Alberta, Alberta T6G 2H7, Canada

List of isolates by genus: *Metarhizium*

***Metarhizium* sp.**
[Sordariomycetes: Hypocreales]
Clavicipitaceae

1447 Location not specified.

2353 [ARSEF 2382 (never frozen)] MC Rombach (201286-4). [Hemiptera: Cicadellidae]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.

3613 IMI (I91-647). *Hieroglyphus daganensis* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Benin.

3617 IMI (I91-674). *Acrida bicolor* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Tchad.

3643 CENARGEN (CG 349) ← MR Faria. Soil. Dec 1991. Brazil: Colinas do Sul, Goiás.

3767 DW Roberts ← A Bellotti (9241). 21 Apr 1992. Colombia.

3863 LA Lacey (92140). *Popillia japonica* [Coleoptera: Scarabaeidae]. 22 Oct 1992. Portugal: Terceira Island, Azores.

3865 LA Lacey (92143). *Popillia japonica* [Coleoptera: Scarabaeidae]. 22 Oct 1992. Portugal: Terceira Island, Azores.

4165 [DAT 193] AC Rath (F193) ← H Yip (HY168). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.

4368 LA Lacey (94118). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.

4370 LA Lacey (94120). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.

4371 LA Lacey (94121). Soil Galleria. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.

4372 LA Lacey (94122). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.

4373 LA Lacey (94123). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.

4374 LA Lacey (94124). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.

4375 LA Lacey (94125). Soil. 5 May 1994. Japan: Sapporo, Hokkaido.

4997 SR Booth (Waara). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 9 May 1995. USA: Cranberry bog, Grayland, Washington.

4998 SR Booth (Gant). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 1 Jun 1995. USA: Cranberry bog, Bandon, Oregon.

4999 SR Booth (Quinby; MSP). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 9 May 1995. USA: Cranberry bog, Grayland, Washington.

5000 SR Booth (Scherer). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 1 Jun 1995. USA: Cranberry bog, Bandon, Oregon.

5001 SR Booth (Johnson). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 17 Jul 1995. USA: Cranberry bog, Grayland, Washington.

5076 SR Booth (Warnock). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 23 Apr 1995. USA: Cranberry bog, Bandon, Oregon.

5077 SR Booth (McMahon). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 23 Feb 1995. USA: Cranberry bog, Bandon, Oregon.

5079 SR Booth (O'Hagan). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 21 Jul 1994. USA: Cranberry bog, Grayland, Washington.

5139 SR Booth (Dibkey). Soil. 28 Feb 1994. USA: Cranberry bog, Grayland, Washington.

6413 EA Ouna (Kutui-4). Rec'd 22 Dec 1999.

7389 M Liu (ml193). 17 Dec 2003. USA: Toro Negro, Puerto Rico.

7493 [CSIRO FI-1358] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 23 Jul 1999. Laboratory infection.

7495 [CSIRO FI-1395] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 27 Dec 1999. Australia: Condong, New South Wales.

7497 [CSIRO FI-1408] Isolated from soil. 18 Apr 2000. Raspardis.

7643 [SRCAMB VL-271] V Likhovidov. *Agelastica alni* [Coleoptera: Chrysomelidae]. Sep 2001. Russian Federation: Caucasus region, Krasnaya Polyana, Krasnodarsky Krai. Field Collection Number F-231.

7645 [SRCAMB B-415] V Likhovidov ← BA Borisov. Larva, [Hemiptera: Cicadidae]. 27 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-362.

8699 ST Jaronski (GE052). *Calliptamus italicus* [Orthoptera: Catantopidae]. 7 Mar 2006. Republic of Georgia: Sagarejo, Kakheti.

8851 [CSIRO FI-1342] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect A4. Jun 1999. Australia: Condong, New South Wales.

8852 [CSIRO FI-1345] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 71. Jun 1999. Australia: Condong, New South Wales.

8855 [CSIRO FI-1352] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 420. 23 Jul 1999. Australia: Condong, New South Wales.

8856 [CSIRO FI-1353] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 334. 23 Jul 1999. Australia: Condong, New South Wales.

8857 [CSIRO FI-1354] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 349. 23 Jul 1999. Australia: Condong, New South Wales.

9592 [ERL 1056] S Gouli (IMI-33/WFT) and V Gouli. 2006.

9617 DW Roberts (DWR 356). Isolated from soil sample SS 0470. 14 Jun 2006. USA: Flaming Gorge National Recreation Area, Utah. N 40 51.222, W 109 33.964.

9618 DW Roberts (DWR 357). Isolated from soil sample SS 0715. 6 Aug 2007. USA: Grant County, North Dakota. N 46 59.052, W 101 30.944.

9619 DW Roberts (DWR 358). Isolated from soil sample SS 0520. 14 May 2007. USA: Charlottesville, Virginia.

9620 DW Roberts (DWR 364). Isolated from soil sample SS 1070. 2 Aug 2007. USA: Rolette County, North Dakota. N 48.8194, W 100.0704.

9621 DW Roberts (DWR 365). Isolated from soil sample SS 1072. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.6036, W 100.6033.

9622 DW Roberts (DWR 366). Isolated from soil sample SS 1090. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9718, W 100.777.

9623 DW Roberts (DWR 367). Isolated from soil sample SS 1100. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.871, W 100.4677.

9624 DW Roberts (DWR 368). Isolated from soil sample SS 1102. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.001, W 100.7072.

9625 DW Roberts (DWR 369). Isolated from soil sample SS 1104. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.232, W 100.453.

9626 DW Roberts (DWR 379). Isolated from soil sample SS 1082. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.7622, W 101.2995.

9627 DW Roberts (DWR 380). Isolated from soil sample SS 1093. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5478, W 100.6723.

9628 DW Roberts (DWR 381). Isolated from soil sample SS 1106. 6 Aug 2007. USA: Bottineau County, North Dakota. N 48.7698, W 100.4680.

9629 DW Roberts (DWR 382). Isolated from soil sample SS 0644. Summer 2007. USA: Dewey County, South Dakota. N 45.1538, W 100.388646.

9630 DW Roberts (DWR 383). Isolated from soil sample SS 1072. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.6036, W 100.6033.

9631 DW Roberts (DWR 384). Isolated from soil sample SS 1084. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.951, W 101.3027.

9632 DW Roberts (DWR 385). Isolated from soil sample SS 1083. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.8205, W 100.49503.

9633 DW Roberts (DWR 386). Isolated from soil sample SS 1090. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9718, W 100.777.

9634 DW Roberts (DWR 387). Isolated from soil sample SS 1094. 6 Aug 2007. USA: Bottineau County, North Dakota. N 48.683, W 100.494.

9635 DW Roberts (DWR 388). Isolated from soil sample SS 1106. 6 Aug 2007. USA: Bottineau County, North Dakota. N 48.7698, W 100.4680.

9636 DW Roberts (DWR 389). Isolated from soil sample SS 1153. 28 Sep 2007. USA: Gila County, Arizona. N 33.02294, W 110.73784.

9637 DW Roberts (DWR 390). Isolated from soil sample SS 1076. 3 Aug 2007. USA: Lincoln County, Nebraska. N 40.9049, W 100.4918.

9638 DW Roberts (DWR 391). Isolated from soil sample SS 1100. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.871, W 100.4677.

9639 DW Roberts (DWR 392). Isolated from soil sample SS 1093. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5478, W 100.6723.

9640 DW Roberts (DWR 393). Isolated from soil sample SS 1104. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.232, W 100.453.

9641 DW Roberts (DWR 456). Isolated from soil sample SS 1025. 20 Aug 2007. USA: Gila County, Arizona. N 34.30316, W 111.35052.

9642 DW Roberts (DWR 457). Isolated from soil sample SS 1079. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9663, W 100.67.

9643 DW Roberts (DWR 459). Isolated from soil sample SS 1016. 20 Aug 2007. USA: Yavapai County, Arizona. N 34.27512, W 112.26281.

9644 DW Roberts (DWR 460). Isolated from soil sample SS 1105. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.029, W 100.452.

9645 DW Roberts (DWR 461). Isolated from soil sample SS 1098. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5035, W 100.614.

9646 DW Roberts (DWR 462). Isolated from soil sample SS 1103. 6 Aug 2007. USA: McHenry County, North Dakota. N 47.950, W 100.455.

9647 DW Roberts (DWR 463). Isolated from soil sample SS 1112. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.1781, W 100.929.

9648 DW Roberts (DWR 464). Isolated from soil sample SS 1092. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.82966, W 100.59928.

9649 DW Roberts (DWR 465). Isolated from soil sample SS 1086. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.8735, W 101.3013.

9650 DW Roberts (DWR 471). Isolated from soil sample SS 0744. 6 Aug 2007. USA: Morton County, North Dakota. N 46.55247, W 101.27917.

9651 DW Roberts (DWR 472). Isolated from soil sample SS 1154. 28 Sep 2007. USA: Gila County, Arizona. N 33.02332, W 110.73669.

9652 DW Roberts (DWR 473). Isolated from soil sample SS 1180. 28 Sep 2007. USA: Gila County, Arizona. N 33.02321, W 110.7371.

9653 DW Roberts (DWR 478). Isolated from soil sample SS 1274. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.131, W 111 49.369.

9654 DW Roberts (DWR 479). Isolated from soil sample SS 1277. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.126, W 111 49.341.

9655 DW Roberts (DWR 480). Isolated from soil sample SS 1274. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.131, W 111 49.369.

9656 DW Roberts (DWR 484). Isolated from soil sample SS 1065a. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.889, W 100.4711.

9657 DW Roberts (DWR 485). Isolated from soil sample SS 1065b. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.889, W 100.4711.

9658 DW Roberts (DWR 497). Isolated from soil sample SS 1346. 8 Aug 2008. USA: Wheeler County, Nebraska.

9659 DW Roberts (DWR 498). Isolated from soil sample SS 1362. 8 Aug 2008. USA: Garfield County, Nebraska.

9660 DW Roberts (DWR 499). Isolated from soil sample SS 1393. 8 Aug 2008. USA: Blaine County, Nebraska.

9661 DW Roberts (DWR 500). Isolated from soil sample SS 3284. 4 Aug 2008. USA: Knox #1, Knox County, Texas.

9662 DW Roberts (DWR 501). Isolated from soil sample SS 1331. 8 Aug 2008. USA: Garfield County, Nebraska.

9663 DW Roberts (DWR 502). Isolated from soil sample SS 1333. 8 Aug 2008. USA: Garfield County, Nebraska.

9664 DW Roberts (DWR 503). Isolated from soil sample SS 1329. 8 Aug 2008. USA: Garfield County, Nebraska.

9665 DW Roberts (DWR 504). Isolated from soil sample SS 1336. 8 Aug 2008. USA: Garfield County, Nebraska.

9666 DW Roberts (DWR 505). Isolated from soil sample SS 1338. 8 Aug 2008. USA: Wheeler County, Nebraska.

9667 DW Roberts (DWR 507). Isolated from soil sample SS 1342. 8 Aug 2008. USA: Wheeler County, Nebraska.

9668 DW Roberts (DWR 508). Isolated from soil sample SS 1363. 8 Aug 2008. USA: Garfield County, Nebraska.

9669 DW Roberts (DWR 509). Isolated from soil sample SS 1373. 8 Aug 2008. USA: Loup County, Nebraska.

9670 DW Roberts (DWR 510). Isolated from soil sample SS 1374. 8 Aug 2008. USA: Loup County, Nebraska.

9671 DW Roberts (DWR 512). Isolated from soil sample SS 1379. 8 Aug 2008. USA: Loup County, Nebraska.

9672 DW Roberts (DWR 513). Isolated from soil sample SS 1381. 8 Aug 2008. USA: Loup County, Nebraska.

9673 DW Roberts (DWR 514). Isolated from soil sample SS 1385. 8 Aug 2008. USA: Loup County, Nebraska.

9674 DW Roberts (DWR 515). Isolated from soil sample SS 1387. 8 Aug 2008. USA: Loup County, Nebraska.

9675 DW Roberts (DWR 516). Isolated from soil sample SS 1388. 8 Aug 2008. USA: Blaine County, Nebraska.

9676 DW Roberts (DWR 517). Isolated from soil sample SS 1394. 8 Aug 2008. USA: Blaine County, Nebraska.

9677 DW Roberts (DWR 518). Isolated from soil sample SS 1361. 8 Aug 2008. USA: Garfield County, Nebraska.

9678 DW Roberts (DWR 519). Isolated from soil sample SS 1356. 8 Aug 2008. USA: Wheeler County, Nebraska.

9679 DW Roberts (DWR 520). Isolated from soil sample SS 1360. 8 Aug 2008. USA: Garfield County, Nebraska.

9680 DW Roberts (DWR 521). Isolated from soil sample SS 1349. 8 Aug 2008. USA: Wheeler County, Nebraska. .

9681 DW Roberts (DWR 522). Isolated from soil sample SS 1358. 8 Aug 2008. USA: Garfield County, Nebraska.

9682 DW Roberts (DWR 523). Isolated from soil sample SS 1410. 8 Aug 2008. USA: Blaine County, Nebraska.

9683 DW Roberts (DWR 524). Isolated from soil sample SS 1417. 8 Aug 2008. USA: Brown County, Nebraska.

9684 DW Roberts (DWR 525). Isolated from soil sample SS 1420. 8 Aug 2008. USA: Brown County, Nebraska.

9685 DW Roberts (DWR 526). Isolated from soil sample SS 1423. 8 Aug 2008. USA: Brown County, Nebraska.

9686 DW Roberts (DWR 529). Isolated from soil sample SS 3536. 28 May 2008. USA: Kit Carson County, Colorado. N 39.51167, W 102.79814.

9687 DW Roberts (DWR 534). Isolated from soil sample SS 1428. 8 Aug 2008. USA: Brown County, Nebraska.

9688 DW Roberts (DWR 535). Isolated from soil sample SS 4334. 9 Jun 2008. USA: Slope County, North Dakota. N 46.612422, W 103.624825.

9689 DW Roberts (DWR 541). Isolated from soil sample SS 1348. 8 Aug 2008. USA: Wheeler County, Nebraska.

9690 DW Roberts (DWR 542). Isolated from soil sample SS 1344. 8 Aug 2008. USA: Wheeler County, Nebraska.

9691 DW Roberts (DWR 543). Isolated from soil sample SS 1340. 8 Aug 2008. USA: Wheeler County, Nebraska.

9692 DW Roberts (DWR 544). Isolated from soil sample SS 1335. 8 Aug 2008. USA: Garfield County, Nebraska.

9693 DW Roberts (DWR 545). Isolated from soil sample SS 3531. 27 May 2008. USA: Kit Carson County, Colorado. N 39.25426, W 102.59593.

9694 DW Roberts (DWR 546). Isolated from soil sample SS 4264. 20 Aug 2008. USA: Deuel County, Nebraska. N 41.01896, W 102.31688.

9695 DW Roberts (DWR 547). Isolated from soil sample SS 4298. 25 Aug 2008. USA: Kimball County, Nebraska. N 41.03109, W 103.58331.

9696 DW Roberts (DWR 550). Isolated from soil sample SS 5196. 12 Jun 2008. USA: Tripp County, South Dakota. N 43.55949, W 100.1801.

9697 DW Roberts (DWR 572). Isolated from soil sample SS 1591. 13 Aug 2008. USA: Grant County, Nebraska. N 41.962825, W 101.5065883.

9698 DW Roberts (DWR 573). Isolated from soil sample SS 1613. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.874645, W 100.55963.

9699 DW Roberts (DWR 574). Isolated from soil sample SS 4159. 11 Aug 2008. USA: Lake County, Oregon. N 43.065365, W 120.94326.

9700 DW Roberts (DWR 575). Isolated from soil sample SS 3231. 14 Aug 2008. USA: Custer County, Nebraska. N 41.6032, W 99.368.

9701 DW Roberts (DWR 576). Isolated from soil sample SS 4919. 16 Jun 2008. USA: McKenzie County, North Dakota. N 47.45426, W 103.3229816.

9702 DW Roberts (DWR 577). Isolated from soil sample SS 4910. 20 Jun 2008. USA: Cavalier County, North Dakota. N 48.87706, W 98.44704.

9703 DW Roberts (DWR 578). Isolated from soil sample SS 3162. 20 Aug 2008. USA: Ferry County, Washington. N 48.85187, W 118.57246.

9704 DW Roberts (DWR 579). Isolated from soil sample SS 3157. 20 Aug 2008. USA: Ferry County, Washington. N 48.33129, W 118.22768.

9705 DW Roberts (DWR 580). Isolated from soil sample SS 4898. 20 Aug 2008. USA: McHenry County, North Dakota. N 47.96483, W 100.75755.

9706 DW Roberts (DWR 581). Isolated from soil sample SS 5088. 21 May 2008. USA: Dawes County, Nebraska. N 42.53034, W 103.435115.

9707 DW Roberts (DWR 582). Isolated from soil sample SS 4896. 12 Jun 2008. USA: Bottineau County, North Dakota. N 48.82642, W 100.43565.

9708 DW Roberts (DWR 587). Isolated from soil sample SS 1565. 13 Aug 2008. USA: Gosper County, Nebraska. N 40.5833, W 99.7362.

9709 DW Roberts (DWR 588). Isolated from soil sample SS 1588. 13 Aug 2008. USA: Grant County, Nebraska. N 42.00765, W 101.692933.

9710 DW Roberts (DWR 589). Isolated from soil sample SS 1601. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.952882, W 100.825563.

9711 DW Roberts (DWR 590). Isolated from soil sample SS 1596. 13 Aug 2008. USA: Grant County, Nebraska. N 41.865396, W 101.504183.

9712 DW Roberts (DWR 591). Isolated from soil sample SS 1595. 13 Aug 2008. USA: Grant County, Nebraska. N 42.057075, W 101.77683.

9713 DW Roberts (DWR 592). Isolated from soil sample SS 1608. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.821448, W 100.822816.

9714 DW Roberts (DWR 593). Isolated from soil sample SS 1566. 13 Aug 2008. USA: Hooker County, Nebraska. N 42.044426, W 101.117968.

9715 DW Roberts (DWR 594). Isolated from soil sample SS 1593. 13 Aug 2008. USA: Grant County, Nebraska. N 42.065413, W 101.530276.

9716 DW Roberts (DWR 595). Isolated from soil sample SS 1594. 13 Aug 2008. USA: Grant County, Nebraska. N 42.027168, W 101.533728.

9717 DW Roberts (DWR 596). Isolated from soil sample SS 1586. 13 Aug 2008. USA: Grant County, Nebraska. N 41.826025, W 101.760582.

9718 DW Roberts (DWR 597). Isolated from soil sample SS 2182. 12 Aug 2008. USA: Keya Paha County, Nebraska.

9719 DW Roberts (DWR 598). Isolated from soil sample SS 2191. 12 Aug 2008. USA: Cherry County, Nebraska.

9720 DW Roberts (DWR 599A). Isolated from soil sample SS 2186. 12 Aug 2008. USA: Cherry County, Nebraska.

9721 DW Roberts (DWR 599B). Isolated from soil sample SS 2185. 12 Aug 2008. USA: Cherry County, Nebraska.

9722 DW Roberts (DWR 600A). Isolated from soil sample SS 2201. 18 Aug 2008. USA: Lincoln County, Nebraska. N 40.87299, W 100.74817.

9723 DW Roberts (DWR 600B). Isolated from soil sample SS 1573. 13 Aug 2008. USA: Hooker County, Nebraska. N 42.036406, W 101.363095.

9724 DW Roberts (DWR 601). Isolated from soil sample SS 1619. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.821975, W 100.64611.

9725 DW Roberts (DWR 602). Isolated from soil sample SS 1615. 13 Aug 2008. USA: Thomas County, Nebraska. N 41.88955, W 100.620578.

9726 DW Roberts (DWR 603). Isolated from soil sample SS 3164, colony 1. 19 Aug 2008. USA: Pend Oreille County, Washington. N 48.2942, W 117.3212.

9727 DW Roberts (DWR 604). Isolated from soil sample SS 3164, colony 2. 19 Aug 2008. USA: Pend Oreille County, Washington. N 48.2942, W 117.3212.

9728 DW Roberts (DWR 605). Isolated from soil sample SS 3168. 22 Aug 2008. USA: Columbia County, Washington. N 46.5231, W 118.1798.

9729 DW Roberts (DWR 619). Isolated from soil sample SS 4206. 22 May 2008. USA: Gilliam County, Oregon. N 45.720393, W 120.03681.

9730 DW Roberts (DWR 620). Isolated from soil sample SS 4911. 16 Jun 2008. USA: Cavalier County, North Dakota. N 48.7757, W 98.47257.

9731 DW Roberts (DWR 621). Isolated from soil sample SS 1480. Jul 2008. USA: Garfield County, Washington. N 46.60686, W 117.70329.

9733 DW Roberts (DWR 633). Isolated from soil sample SS 5165. 9 Jul 2008. USA: Banner County, Nebraska. N 41.690865, W 103.77482.

9734 DW Roberts (DWR 634). Isolated from soil sample SS 5162. 9 Jul 2008. USA: Banner County, Nebraska. N 41.42244, W 103.7332.

9735 DW Roberts (DWR 635). Isolated from soil sample SS 5161. 9 Jul 2008. USA: Banner County, Nebraska. N 41.422255, W 103.90616.

9736 DW Roberts (DWR 636). Isolated from soil sample SS 5173. 14 Jul 2008. USA: Sioux County, Nebraska. N 42.19941, W 103.65938.

9737 DW Roberts (DWR 637). Isolated from soil sample SS 5126. 8 Jul 2008. USA: Scotts Bluff County, Nebraska. N 41.900395, W 103.96573.

9738 DW Roberts (DWR 638). Isolated from soil sample SS 5125, colony 1. 21 Aug 2008. USA: Morrill County, Nebraska. N 41.94702, W 102.805535.

9739 DW Roberts (DWR 639). Isolated from soil sample SS 5125, colony 2. 21 Aug 2008. USA: Morrill County, Nebraska. N 41.94702, W 102.805535.

9740 DW Roberts (DWR 640). Isolated from soil sample SS 1675. 14 Aug 2008. USA: Howard County, Nebraska. N 41.0758, W 98.4988.

9741 DW Roberts (DWR 641). Isolated from soil sample SS 5260. 12 Jun 2008. USA: Tripp County, South Dakota. N 43.623, W 100.18025.

9742 DW Roberts (DWR 642). Isolated from soil sample SS 1476. 16 Jul 2008. USA: Walla Walla County, Washington. N 46.37046, W 118.61125.

9744 DW Roberts (DWR 655). Isolated from soil sample SS 3193. 13 Aug 2008. USA: Stevens County, Washington. N 48.6667, W 117.9522.

9745 DW Roberts (DWR 656). Isolated from soil sample SS 5131. 7 Jul 2008. USA: Box Butte County, Nebraska. N 42.268725, W 103.3067.

9746 DW Roberts (DWR 657). Isolated from soil sample SS 3274. 13 Aug 2008. USA: Custer County, Nebraska. N 41.5787, W 99.8981.

9747 DW Roberts (DWR 658). Isolated from soil sample SS 1701. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.28473, W 101.56906.

9748 DW Roberts (DWR 659). Isolated from soil sample SS 7854. 10 Jun 2008. USA: Sanders, Montana.

9749 DW Roberts (DWR 660). Isolated from soil sample SS 3200. 13 Aug 2008. USA: Stevens County, Washington. N 48.6906, W 118.0891.

9750 DW Roberts (DWR 669). Isolated from soil sample SS 1700. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.27132, W 101.70121.

9751 DW Roberts (DWR 670). Isolated from soil sample SS 3401. 23 Jul 2008. USA: WB-27, Oregon.

9752 DW Roberts (DWR 692). Isolated from soil sample SS 5360. 25 Jun 2008. USA: Meade County, South Dakota. N 44.645871, W 102.803646.

9753 DW Roberts (DWR 693). Isolated from soil sample SS 5384. 9 Jun 2008. USA: Haakon County, South Dakota. N 44.373687, W 101.318395.

9754 DW Roberts (DWR 694). Isolated from soil sample SS 7869. 25 Jun 2008. USA: Lake County, Montana.

9755 DW Roberts (DWR 695). Laboratory isolate from sector of DWR 604 (=ARSEF 9727). Rec'd 23 Feb 2010.

9756 DW Roberts (DWR 696). Laboratory isolate from sector of DWR 522, ARSEF 9681. Rec'd 23 Feb 2010.

9757 DW Roberts (DWR 697). Isolated from soil sample SS 3727. 24 Jun 2008. USA: El Paso County, Colorado. N 38.93254, W 104.47892.

9758 DW Roberts (DWR 712). Isolated from soil sample SS 5278, colony 1. 11 Jun 2008. USA: Tripp County, South Dakota. N 43.2273, W 100.07745.

9759 DW Roberts (DWR 713). Isolated from soil sample SS 5278, colony 2. 25 Jun 2008. USA: Tripp County, South Dakota. N 43.2273, W 100.07745.

9760 DW Roberts (DWR 714). Isolated from soil sample SS 4408, colony 1. 5 Jun 2008. USA: McKenzie County, North Dakota. N 47.396308, W 103.792566.

9761 DW Roberts (DWR 715). Isolated from soil sample SS 4408, colony 2. 5 Jun 2008. USA: McKenzie County, North Dakota. N 47.396308, W 103.792566.

9762 DW Roberts (DWR 716). Isolated from soil sample SS 4562. 19 Jun 2008. USA: Childress County, Texas. N 34.61709, W 100.22923.

9763 DW Roberts (DWR 741). Isolated from soil sample SS 3906. 3 Jul 2008. USA: Elbert County, Colorado. N 39.56473, W 104.53163.

9764 DW Roberts (DWR 742). Isolated from soil sample SS 3941. 10 Jul 2008. USA: Park County, Colorado. N 38.83554, W 105.634.

9765 DW Roberts (DWR 758). Isolated from soil sample SS 2788. 17 Jul 2008. USA: Pima County, Arizona. N 31.77063, W 110.629443.

9766 DW Roberts (DWR 759). Isolated from soil sample SS 2787. 17 Jul 2008. USA: Pima County, Arizona. N 31.77063, W 110.629443.

9767 DW Roberts (DWR 760). Isolated from soil sample SS 2789. 17 Jul 2008. USA: Pima County, Arizona. N 31.77063, W 110.629443.

9768 DW Roberts (DWR 761). Isolated from soil sample SS 8796. 11 Jun 2008. USA: Pueblo County, Colorado. N 38.393073, W 104.599656.

9769 DW Roberts (DWR 762). Isolated from soil sample SS 8797. 11 Jun 2008. USA: Pueblo County, Colorado. N 38.462466, W 104.589846.

9770 DW Roberts (DWR 763). Isolated from soil sample SS 8794. 10 Jun 2008. USA: Pueblo County, Colorado. N 37.968083, W 104.187966.

9771 DW Roberts (DWR 764). Isolated from soil sample SS 8793. 10 Jun 2008. USA: Pueblo County, Colorado. N 37.925448, W 104.132711.

9772 DW Roberts (DWR 765). Isolated from soil sample SS 8786. 10 Jun 2008. USA: Otero County, Colorado. N 37.823345, W 103.771361.

9773 DW Roberts (DWR 766). Isolated from soil sample SS 8784. 10 Jun 2008. USA: Otero County, Colorado. N 37.822876, W 103.620225.

9774 DW Roberts (DWR 767). Isolated from soil sample SS 8791. 10 Jun 2008. USA: Otero County, Colorado. N 37.900196, W 103.876408.

9775 DW Roberts (DWR 768). Isolated from soil sample SS 8795. 11 Jun 2008. USA: Pueblo County, Colorado. N 38.330548, W 104.60265.

9776 DW Roberts (DWR 793). Isolated from soil sample SS 2018. 13 Aug 2008. USA: Gosper County, Nebraska. N 40.4877, W 99.9251.

9777 DW Roberts (DWR 794). Isolated from soil sample SS 2000. 11 Jun 2008. USA: Lincoln County, Nebraska. N 41.29323, W 100.84752.

9778 DW Roberts (DWR 795). Isolated from soil sample SS 1914. 28 Jul 2008. USA: Frontier County, Nebraska. N 40.57032, W 100.51155.

9779 DW Roberts (DWR 796). Isolated from soil sample SS 4639. 3 Jun 2008. USA: Schleicher County, Texas. N 31.04374, W 100.80695.

9780 DW Roberts (DWR 797). Isolated from soil sample SS 2083. 13 Aug 2008. USA: Brown County, Nebraska.

9781 DW Roberts (DWR 798). Isolated from soil sample SS 2097. 13 Aug 2008. USA: Brown County, Nebraska.

9782 DW Roberts (DWR 799). Isolated from soil sample SS 2002. 7 Aug 2008. USA: Lincoln County, Nebraska. N 41.38876, W 100.87933.

9783 DW Roberts (DWR 800). Isolated from soil sample SS 2001. 7 Aug 2008. USA: Lincoln County, Nebraska. N 41.27452, W 100.81027.

9784 DW Roberts (DWR 801). Isolated from soil sample SS 2147. 12 Aug 2008. USA: Cherry County, Nebraska.

9785 DW Roberts (DWR 802). Isolated from soil sample SS 2160. 12 Aug 2008. USA: Cherry County, Nebraska.

9786 DW Roberts (DWR 803). Isolated from soil sample SS 2166. 12 Aug 2008. USA: Cherry County, Nebraska.

9787 DW Roberts (DWR 804). Isolated from soil sample SS 1993. 6 Aug 2008. USA: Lincoln County, Nebraska. N 40.84353, W 100.84871.

9788 DW Roberts (DWR 805). Isolated from soil sample SS 1881. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.23282, W 101.56141.

9789 DW Roberts (DWR 806). Isolated from soil sample SS 2010. 13 Aug 2008. USA: Hamilton County, Nebraska. N 40.9935, W 98.0458.

9790 DW Roberts (DWR 807). Isolated from soil sample SS 2108. 13 Aug 2008. USA: Rock County, Nebraska.

9791 DW Roberts (DWR 818). Isolated from soil sample SS 1829. 28 Jul 2008. USA: Garden County, Nebraska. N 41.88721, W 102.083568.

9792 DW Roberts (DWR 819). Isolated from soil sample SS 1848. 4 Aug 2008. USA: Cherry County, Nebraska.

9793 DW Roberts (DWR 820). Isolated from soil sample SS 1818. 4 Aug 2008. USA: Cherry County, Nebraska.

9794 DW Roberts (DWR 821). Isolated from soil sample SS 1762. 8 Jul 2008. USA: Logan County, Nebraska. N 41.618643, W 100.255386.

9795 DW Roberts (DWR 822). Isolated from soil sample SS 1784. 8 Jul 2008. USA: Logan County, Nebraska. N 41.656796, W 100.482788.

9796 DW Roberts (DWR 823). Isolated from soil sample SS 1757. 8 Jul 2008. USA: Logan County, Nebraska. N 41.625518, W 100.560606.

9797 DW Roberts (DWR 824). Isolated from soil sample SS 1822. 4 Aug 2008. USA: Cherry County, Nebraska.

9798 DW Roberts (DWR 825). Isolated from soil sample SS 1976. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.29233, W 100.56179.

9799 DW Roberts (DWR 826). Isolated from soil sample SS 1961. 30 Jul 2008. USA: Lincoln County, Nebraska. N 40.72197, W 101.04701.

9800 DW Roberts (DWR 827). Isolated from soil sample SS 1978. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.14745, W 100.34356.

9801 DW Roberts (DWR 828). Isolated from soil sample SS 1980. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.27886, W 100.25481.

9802 DW Roberts (DWR 829). Isolated from soil sample SS 1971. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.1617, W 100.52449.

9803 DW Roberts (DWR 830). Isolated from soil sample SS 1979. 4 Aug 2008. USA: Lincoln County, Nebraska. N 41.20653, W 100.63889.

9804 DW Roberts (DWR 831). Isolated from soil sample SS 1817. 4 Aug 2008. USA: Cherry County, Nebraska.

9805 DW Roberts (DWR 832). Isolated from soil sample SS 1849. 4 Aug 2008. USA: Cherry County, Nebraska.

9806 DW Roberts (DWR 833). Isolated from soil sample SS 1821. 4 Aug 2008. USA: Cherry County, Nebraska.

9807 DW Roberts (DWR 834). Isolated from soil sample SS 1824. 4 Aug 2008. USA: Cherry County, Nebraska.

9808 DW Roberts (DWR 835). Isolated from soil sample SS 1837. 28 Jul 2008. USA: Garden County, Nebraska. N 41.745232, W 102.09816.

9809 DW Roberts (DWR 836). Isolated from soil sample SS 1761. 8 Jul 2008. USA: Logan County, Nebraska. N 41.663922, W 100.58301.

9810 DW Roberts (DWR 837). Isolated from soil sample SS 1768. 9 Jul 2008. USA: Logan County, Nebraska. N 41.509798, W 100.50321.

9811 DW Roberts (DWR 838). Isolated from soil sample SS 1767. 9 Jul 2008. USA: Logan County, Nebraska. N 41.499958, W 100.65601.

9812 DW Roberts (DWR 839). Isolated from soil sample SS 1861. 4 Aug 2008. USA: Cherry County, Nebraska.

9813 DW Roberts (DWR 840). Isolated from soil sample SS 1764. 9 Jul 2008. USA: Logan County, Nebraska. N 41.60121, W 100.48712.

9814 DW Roberts (DWR 841). Isolated from soil sample SS 1796. 10 Jul 2008. USA: Garden County, Nebraska. N 41.496972, W 102.16906.

9815 DW Roberts (DWR 842). Isolated from soil sample SS 1794. Jul 2008. USA: Garden County, Nebraska. N 41.45043, W 102.53968.

9816 DW Roberts (DWR 843). Isolated from soil sample SS 1807. 10 Jul 2008. USA: Garden County, Nebraska. N 41.57408, W 101.98632.

9817 DW Roberts (DWR 844). Isolated from soil sample SS 5017. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.9084, W 100.9028.

9818 DW Roberts (DWR 845). Isolated from soil sample SS 1770, colony 1. 9 Jul 2008. USA: Logan County, Nebraska. N 41.401728, W 100.71314.

9819 DW Roberts (DWR 846). Isolated from soil sample SS 1770, colony 2. 9 Jul 2008. USA: Logan County, Nebraska. N 41.401728, W 100.71314.

9820 DW Roberts (DWR 847). Isolated from soil sample SS 2156. 12 Aug 2008. USA: Cherry County, Nebraska.

9821 DW Roberts (DWR 848). Isolated from soil sample SS 2158. 12 Aug 2008. USA: Cherry County, Nebraska.

9822 DW Roberts (DWR 849). Isolated from soil sample SS 2127. 13 Aug 2008. USA: Rock County, Nebraska.

9823 DW Roberts (DWR 850). Isolated from soil sample SS 1880. 14 Jul 2008. USA: Dundy County, Nebraska. N 40.06474, W 101.92653.

9824 DW Roberts (DWR 851). Isolated from soil sample SS 1891. 17 Jul 2008. USA: Keith County, Nebraska. N 41.1096, W 101.42634.

9825 DW Roberts (DWR 852). Isolated from soil sample SS 2124. 13 Aug 2008. USA: Rock County, Nebraska.

9826 DW Roberts (DWR 853). Isolated from soil sample SS 2178. 12 Aug 2008. USA: Cherry County, Nebraska.

9827 DW Roberts (DWR 866). Isolated from soil sample SS 4709. 9 Jul 2008. USA: Sherman County, Texas. N 36.36449, W 101.82351.

9828 DW Roberts (DWR 867). Isolated from soil sample SS 5007, colony 1. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.7629, W 101.05992.

9829 DW Roberts (DWR 868). Isolated from soil sample SS 5007, colony 2. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.7629, W 101.05992.

9830 DW Roberts (DWR 869). Isolated from soil sample SS 4735. 9 Jun 2008. USA: Scurry County, Texas. N 32.58142, W 100.7636.

9831 DW Roberts (DWR 870). Isolated from soil sample SS 5009. 20 Jun 2008. USA: Rolette County, North Dakota. N 48.89218, W 99.61078.

9832 DW Roberts (DWR 871). Isolated from soil sample SS 5013. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.82803, W 100.53342.

9833 DW Roberts (DWR 872). Isolated from soil sample SS 5002. 20 Jun 2008. USA: McHenry County, North Dakota. N 47.94912, W 100.5646.

9834 DW Roberts (DWR 873). Isolated from soil sample SS 5011. 20 Jun 2008. USA: McHenry County, North Dakota. N 48.4176, W 100.5044.

9835 DW Roberts (DWR 880). Isolated from soil sample SS 6887. 5 Jun 2008. USA: Box Elder County, Utah. N 41.5381, W 112.2945.

9836 DW Roberts (DWR 881). Isolated from soil sample SS 5434. 16 Jun 2008. USA: Ziebach County, South Dakota. N 44.856118, W 101.62287.

9837 DW Roberts (DWR 882). Isolated from soil sample SS 7545. 5 Aug 2008. USA: Kane County, Utah. N 37.3035, W 112.5307.

9838 DW Roberts (DWR 900). Isolated from soil sample SS 5001. 20 Jun 2008. USA: Bottineau County, North Dakota. N 48.6322, W 100.49775.

9839 DW Roberts (DWR 911). Isolated from soil sample SS 6096. Jul 2008. USA: Dale Widhalm, Nebraska. N 42.498915, W 103.06709.

9840 DW Roberts (DWR 912). Isolated from soil sample SS 5754. 9 Jun 2008. USA: Shannon County, South Dakota. N 43.329085, W 102.18772.

9841 DW Roberts (DWR 913). Isolated from soil sample SS 5709. 17 Jun 2008. USA: Bennett County, South Dakota. N 43.1035, W 101.4565.

9842 DW Roberts (DWR 914). Isolated from soil sample SS 4840, colony 1. 11 Aug 2008. USA: Cheyenne, Wyoming. N 41.591662, W 104.82588.

9843 DW Roberts (DWR 915). Isolated from soil sample SS 4840, colony 2. 11 Aug 2008. USA: Cheyenne, Wyoming. N 41.591662, W 104.82588.

9844 DW Roberts (DWR 916). Isolated from soil sample SS 4998. 19 Jun 2008. USA: Bottineau County, North Dakota. N 48.8768, W 100.5499.

9845 DW Roberts (DWR 917). Isolated from soil sample SS 5033. 16 Jun 2008. USA: KM007, North Dakota.

9846 DW Roberts (DWR 918). Isolated from soil sample SS 5810. 12 Jun 2008. USA: Tripp County, South Dakota. N 43.4999, W 100.15615.

9847 DW Roberts (DWR 919). Isolated from soil sample SS 5823. 10 Jun 2008. USA: Tripp County, South Dakota. N 43.11112, W 99.63258.

9848 DW Roberts (DWR 920). Isolated from soil sample SS 5797. 25 Jun 2008. USA: Todd County, South Dakota. N 43.031315, W 100.82642.

9849 DW Roberts (DWR 940). Isolated from soil sample SS 6157, colony 1. 19 Aug 2008. USA: Dale Widhalm, Nebraska. N 42.91601, W 102.23549.

9850 DW Roberts (DWR 941). Isolated from soil sample SS 6157, colony 2. 19 Aug 2008. USA: Dale Widhalm, Nebraska. N 42.91601, W 102.23549.

9851 DW Roberts (DWR 942). Isolated from soil sample SS 6025. 21 Aug 2008. USA: Morrill County, Nebraska. N 41.769015, W 102.77199.

9852 DW Roberts (DWR 1145). Isolated from soil sample SS 8234. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.947793, W 101.15769.

9853 DW Roberts (DWR 1146). Isolated from soil sample SS 8235. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.938688, W 101.16618.

9854 DW Roberts (DWR 1147). Isolated from soil sample SS 8139. 18 Aug 2008. USA: McPherson County, Nebraska. N 41.554742, W 101.13753.

9855 DW Roberts (DWR 1148). Isolated from soil sample SS 8178. 2 Sep 2008. USA: Cherry County, Nebraska. N 42.392913, W 102.02336.

9856 DW Roberts (DWR 1149). Isolated from soil sample SS 8241. 11 Aug 2008. USA: Hooker County, Nebraska. N 42.065106, W 101.22523.

9857 DW Roberts (DWR 1150). Isolated from soil sample SS 8244. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.43899, W 101.29071.

9858 DW Roberts (DWR 1151). Isolated from soil sample SS 8246. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.50433, W 101.30459.

9859 DW Roberts (DWR 1152). Isolated from soil sample SS 8247. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.712238, W 101.04815.

9860 DW Roberts (DWR 1153). Isolated from soil sample SS 8251. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.622606, W 101.01916.

9861 DW Roberts (DWR 1154). Isolated from soil sample SS 8254. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.40625, W 100.88149.

9862 DW Roberts (DWR 1155). Isolated from soil sample SS 8258. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.590482, W 100.76789.

9863 DW Roberts (DWR 1156). Isolated from soil sample SS 8264. Aug 2008. USA: Arthur County, Nebraska. N 41.546803, W 101.71407.

9864 DW Roberts (DWR 1157). Isolated from soil sample SS 8266. Aug 2008. USA: Arthur County, Nebraska. N 41.46896, W 101.71834.

9865 DW Roberts (DWR 1158). Isolated from soil sample SS 8267. Aug 2008. USA: Arthur County, Nebraska. N 41.51462, W 101.6547.

9866 DW Roberts (DWR 1159). Isolated from soil sample SS 8269. 18 Aug 2008. USA: McPherson County, Nebraska. N 41.49292, W 100.96312.

9867 DW Roberts (DWR 1160). Isolated from soil sample SS 8271. 18 Aug 2008. USA: McPherson County, Nebraska. N 41.6699, W 101.26817.

9868 DW Roberts (DWR 1161). Isolated from soil sample SS 8253, colony 1. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.

9869 DW Roberts (DWR 1162). Isolated from soil sample SS 8253, colony 2. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.

9870 DW Roberts (DWR 1163). Isolated from soil sample SS 8253, colony 3. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.

9871 DW Roberts (DWR 1164). Isolated from soil sample SS 8253, colony 4. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.

9872 DW Roberts (DWR 1165). Isolated from soil sample SS 8253, colony 5. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.

9873 DW Roberts (DWR 1166). Isolated from soil sample SS 8253, colony 6. 14 Aug 2008. USA: McPherson County, Nebraska. N 41.451978, W 100.94959.

9874 DW Roberts (DWR 1180). Isolated from soil sample SS 8218. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.960753, W 100.91898.

9875 DW Roberts (DWR 1181). Isolated from soil sample SS 8222. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.865045, W 100.95781.

9876 DW Roberts (DWR 1182). Isolated from soil sample SS 8225. 7 Aug 2008. USA: Grant County, Nebraska. N 41.742956, W 101.85894.

9877 DW Roberts (DWR 1183). Isolated from soil sample SS 8228. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.996628, W 101.15073.

9878 DW Roberts (DWR 1184). Isolated from soil sample SS 8236. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.757416, W 101.37261.

9879 DW Roberts (DWR 1239). Isolated from soil sample SS 7552. 6 Aug 2008. USA: Garfield County, Utah. N 38.0259, W 111.5806.

9880 DW Roberts (DWR 1240). Isolated from soil sample SS 8103. 24 Jul 2008. USA: McCone County, Montana. N 47.49494, W 106.16025.

9881 DW Roberts (DWR 1241). Laboratory isolate from sector of DWR 850 (=ARSEF 9823). Rec'd 23 Feb 2010.

9882 DW Roberts (DWR 1242). Laboratory isolate from sector of DWR 852 (=ARSEF 9825). Rec'd 23 Feb 2010.

9883 DW Roberts (DWR 1243). Laboratory isolate from sector of DWR 882 (=ARSEF 9837). Rec'd 23 Feb 2010.

9884 DW Roberts (DWR 1244). Laboratory isolate from sector of DWR 900 (=ARSEF 9838). Rec'd 23 Feb 2010.

9885 DW Roberts (DWR 1245). Isolated from soil sample SS 9210. 5 Sep 2008. USA: Rio Blanco County, Colorado. N 40.054117, W 107.52914.

9886 DW Roberts (DWR 1246). Isolated from soil sample SS 9162. 10 Jun 2008. USA: Garfield County, Colorado. N 39.5094, W 108.5523.

9946 DW Roberts (DWR 1247). Isolated from soil sample SS 11293. 5 May 2009. USA: Owyhee County, Idaho. N 42.77266, W 116.22753.

9947 DW Roberts (DWR 1248). Isolated from soil sample SS 7425. 17 Jun 2008. USA: Kane County, Utah. N 37.2331, W 111.5058.

9948 DW Roberts (DWR 1249). Isolated from soil sample SS 11283. 22 Apr 2009. USA: Ada County, Idaho. N 43.591977, W 116.29609.

9949 DW Roberts (DWR 1250). Isolated from soil sample SS 11282. 22 Apr 2009. USA: Ada County, Idaho. N 43.606707, W 116.29985.

9950 DW Roberts (DWR 1251). Isolated from soil sample SS 8873. 9 Jul 2008. USA: Kit Carson County, Colorado. N 39.533371, W 102.3518.

9951 DW Roberts (DWR 1252). Isolated from soil sample SS 8830. 7 Jul 2008. USA: Custer County, Colorado. N 38.242365, W 105.60512.

9952 DW Roberts (DWR 1253). Isolated from soil sample SS 8871, colony 1. 9 Jul 2008. USA: Yuma County, Colorado. N 39.657776, W 102.34647.

9953 DW Roberts (DWR 1254). Isolated from soil sample SS 8871, colony 2. 9 Jul 2008. USA: Yuma County, Colorado. N 39.657776, W 102.34647.

9954 DW Roberts (DWR 1255). Isolated from soil sample SS 8829, colony 1. 6 Jul 2008. USA: Custer County, Colorado. N 38.186258, W 105.48395.

9955 DW Roberts (DWR 1256). Isolated from soil sample SS 8829, colony 2. 6 Jul 2008. USA: Custer County, Colorado. N 38.186258, W 105.48395.

9956 DW Roberts (DWR 1280). Isolated from soil sample SS 11295. May 2009. USA: Ada County, Idaho. N 43.673185, W 116.09569.

9957 DW Roberts (DWR 1281). Isolated from soil sample SS 9008. 30 Jun 2008. USA: Yuma County, Colorado. N 40.322455, W 102.47124.

9958 DW Roberts (DWR 1282). Isolated from soil sample SS 9012. 23 Jun 2008. USA: Kiowa County, Colorado. N 38.498728, W 102.62044.

9959 DW Roberts (DWR 1283). Isolated from soil sample SS 9015. 23 Jun 2008. USA: Kiowa County, Colorado. N 38.577521, W 102.43525.

9960 DW Roberts (DWR 1284). Isolated from soil sample SS 9219. 14 Sep 2008. USA: Moffat County, Colorado. N 40.75813, W 108.13102.

9961 DW Roberts (DWR 1285). Isolated from soil sample SS 9240. 16 Jun 2008. USA: Routt County, Colorado. N 40.757398, W 106.96398.

9962 DW Roberts (DWR 1286). Isolated from soil sample SS 9312. Jul 2008. USA: Routt County, Colorado. N 40.526025, W 107.42595.

9963 DW Roberts (DWR 1287). Isolated from soil sample SS 9371. 10 Jul 2008. USA: Rio Blanco County, Colorado. N 39.9191, W 108.1981.

9964 DW Roberts (DWR 1288). Isolated from soil sample SS 9509. 10 Jul 2008. USA: Montezuma County, Colorado. N 37.302205, W 108.64121.

9965 DW Roberts (DWR 1289). Isolated from soil sample SS 11268. 24 Apr 2009. USA: San Carlos, Arizona. N 33.19364, W 109.87296.

9966 DW Roberts (DWR 1290). Isolated from soil sample SS 11352. 21 May 2009. USA: Dawson County, Texas. N 32.75586, W 101.81042.

9967 DW Roberts (DWR 1291). Isolated from soil sample SS 11354. 21 May 2009. USA: Dawson County, Texas. N 32.84218, W 102.10146.

9968 DW Roberts (DWR 1292). Isolated from soil sample SS 11364. 18 May 2009. USA: Lamb County, Texas. N 34.15683, W 102.51517.

9969 DW Roberts (DWR 1293). Isolated from soil sample SS 9092, colony 1. 19 Jun 2008. USA: San Miguel County, Colorado. N 38.11362, W 108.39393.

9970 DW Roberts (DWR 1294). Isolated from soil sample SS 9092, colony 2. 19 Jun 2008. USA: San Miguel County, Colorado. N 38.11362, W 108.39393.

9971 DW Roberts (DWR 1295). Isolated from soil sample SS 9438. 27 Jun 2008. USA: El Paso County, Colorado. N 38.974117, W 104.83964.

9972 DW Roberts (DWR 1296). Isolated from soil sample SS 9367. 3 Jul 2008. USA: Gunnison County, Colorado. N 38.45035, W 107.33075.

9973 DW Roberts (DWR 1297). Isolated from soil sample SS 9425. 25 Jun 2008. USA: Fremont County, Colorado. N 38.371452, W 104.95982.

9974 DW Roberts (DWR 1310). Isolated from soil sample SS 9490. 27 May 2008. USA: Montezuma County, Colorado. N 37.4159, W 108.41041.

9975 DW Roberts (DWR 1324). Isolated from soil sample SS 11418. 28 May 2009. USA: Hall County, Texas. N 34.49323, W 100.77875.

9976 DW Roberts (DWR 1325). Isolated from soil sample SS 11454. 9 Jun 2009. USA: Logan, Utah.

9977 DW Roberts (DWR 1326). Isolated from soil sample SS 11457. 9 Jun 2009. USA: Logan, Utah.

9978 DW Roberts (DWR 1327). Isolated from soil sample SS 9443. 27 May 2008. USA: Montezuma County, Colorado. N 37.36007, W 108.53522.

9979 DW Roberts (DWR 1337). Isolated from soil sample SS 9659. 27 Aug 2008. USA: Routt County, Colorado. N 40.53094, W 106.78185.

9980 DW Roberts (DWR 1338). Isolated from soil sample SS 11642. 20 May 2009. USA: Elko County, Nevada. N 41.619382, W 116.12888.

9981 DW Roberts (DWR 1344). Isolated from soil sample SS 9768. 19 May 2008. USA: Flathead County, Montana.

9982 DW Roberts (DWR 1345). Isolated from soil sample SS 9788. 2 Jun 2008. USA: Lake County, Montana.

9983 DW Roberts (DWR 1346). Isolated from soil sample SS 9791. 5 Jun 2008. USA: Lake County, Montana.

9984 DW Roberts (DWR 1347). Isolated from soil sample SS 8494. 8 Jun 2008. USA: Lincoln County, Colorado. N 38.806141, W 103.27433.

9985 DW Roberts (DWR 1361). Isolated from soil sample SS 11974. 8 Jun 2009. USA: Piute County, Utah. N 38.4064, W 112.2541.

9986 DW Roberts (DWR 1362). Isolated from soil sample SS 8307. 21 Aug 2008. USA: Arthur County, Nebraska. N 41.496172, W 101.92478.

9987 DW Roberts (DWR 1374). Isolated from soil sample SS 8510. 2 Jun 2008. USA: Otero County, Colorado. N 37.878558, W 103.52731.

9988 DW Roberts (DWR 1375). Isolated from soil sample SS 8491. 8 Jun 2008. USA: Lincoln County, Colorado. N 38.878685, W 103.4237.

9989 DW Roberts (DWR 1376). Isolated from soil sample SS 8786. 10 Jun 2008. USA: Otero County, Colorado. N 37.823345, W 103.77136.

9990 DW Roberts (DWR 1377). Isolated from soil sample SS 8428. 4 Jun 2008. USA: Baca County, Colorado. N 37.549681, W 102.40117.

9991 DW Roberts (DWR 1378). Isolated from soil sample SS 8446. 17 Jun 2008. USA: Kiowa County, Colorado. N 38.281875, W 102.61859.

9992 DW Roberts (DWR 1379). Isolated from soil sample SS 8445. 17 Jun 2008. USA: Kiowa County, Colorado. N 38.354065, W 102.61896.

9993 DW Roberts (DWR 1380). Isolated from soil sample SS 8707. 7 Jul 2008. USA: Yuma County, Colorado. N 39.946951, W 102.46771.

9994 DW Roberts (DWR 1381). Isolated from soil sample SS 8426. 4 Jun 2008. USA: Prowers County, Colorado. N 37.672625, W 102.52934.

9995 DW Roberts (DWR 1382). Isolated from soil sample SS 8424. 4 Jun 2008. USA: Prowers County, Colorado. N 37.767233, W 102.54751.

9996 DW Roberts (DWR 1387). Isolated from soil sample SS 8538. 7 Jul 2008. USA: Kiowa County, Colorado. N 38.463823, W 102.19764.

9997 DW Roberts (DWR 1395). Isolated from soil sample SS 8539. 7 Jul 2008. USA: Kiowa County, Colorado. N 38.499155, W 102.32726.

9998 DW Roberts (DWR 1399). Isolated from soil sample SS 11485. 6 May 2009. USA: Duchesne County, Utah. N 40.2356, W 110.2345.

9999 DW Roberts (DWR 1408). Isolated from soil sample SS 9823. 3 Jun 2008. USA: Montana.

10001 DW Roberts (DWR 1409). Isolated from soil sample SS 9888. 14 Oct 2008. USA: Keya Paha County, Nebraska.

10002 DW Roberts (DWR 1410). Isolated from soil sample SS 9878. 14 Oct 2008. USA: Cherry County, Nebraska.

10003 DW Roberts (DWR 1411). Isolated from soil sample SS 9853. 14 Oct 2008. USA: Holt County, Nebraska.

10004 DW Roberts (DWR 1412). Isolated from soil sample SS 8762. 14 Jul 2008. USA: Las Animas County, Colorado. N 37.191093, W 104.81278.

10005 DW Roberts (DWR 1413). Isolated from soil sample SS 9875. 14 Oct 2008. USA: Cherry County, Nebraska.

10006 DW Roberts (DWR 1414). Isolated from soil sample SS 9872. 14 Oct 2008. USA: Cherry County, Nebraska.

10007 DW Roberts (DWR 1415). Isolated from soil sample SS 9832. 14 Oct 2008. USA: Holt County, Nebraska.

10008 DW Roberts (DWR 1416). Isolated from soil sample SS 9857. 14 Oct 2008. USA: Holt County, Nebraska.

10009 DW Roberts (DWR 1417). Isolated from soil sample SS 11932. 6 May 2009. USA: Elko County, Nevada. N 41.956545, W 116.07283.

10010 DW Roberts (DWR 1418). Isolated from soil sample SS 9837. 14 Oct 2008. USA: Holt County, Nebraska.

10011 DW Roberts (DWR 1419). Isolated from soil sample SS 9830. 14 Oct 2008. USA: Holt County, Nebraska.

10012 DW Roberts (DWR 1420). Isolated from soil sample SS 10612. 17 Jun 2008. USA: Elko County, Nevada. N 40.808943, W 115.3402.

10013 DW Roberts (DWR 1421). Isolated from soil sample SS 10241. 29 Aug 2008. USA: Ford County, Kansas. N 37.482133, W 99.729295.

10014 DW Roberts (DWR 1422). Isolated from soil sample SS 10291. 4 Aug 2008. USA: Cheyenne County, Kansas. N 39.68884, W 101.99388.

10015 DW Roberts (DWR 1446). Isolated from soil sample SS 10706. 3 Sep 2008. USA: Humboldt County, Nevada. N 40.927495, W 118.3082.

10016 DW Roberts (DWR 1447). Isolated from soil sample SS 10809. 6 Aug 2008. USA: Elko County, Nevada. N 41.46017, W 114.7825.

10017 DW Roberts (DWR 1448). Isolated from soil sample SS 11936. 28 May 2009. USA: Valley County, Idaho. N 44.805338, W 115.90302.

10018 DW Roberts (DWR 1449). Isolated from soil sample SS 10119. 22 Jul 2008. USA: Clark County, Kansas. N 37.191885, W 99.785528.

10019 DW Roberts (DWR 1450). Isolated from soil sample SS 10437. 2 May 2008. USA: Elko County, Nevada. N 41.535187, W 115.82186.

10020 DW Roberts (DWR 1451). Isolated from soil sample SS 10284. 23 Jul 2008. USA: Comanche County, Kansas. N 37.266482, W 99.26767.

10021 DW Roberts (DWR 1468). Isolated from soil sample SS 12110. 10 Jun 2009. USA: Carson County, Texas. N 35.57465, W 101.40082.

10022 DW Roberts (DWR 1469). Isolated from soil sample SS 11259. 17 Jun 2009. USA: Millard County, Utah. N 39.1157, W 114.0025.

10023 DW Roberts (DWR 1470). Isolated from soil sample SS 12131. 16 Jun 2009. USA: Moore County, Texas. N 35.69076, W 102.05242.

10024 DW Roberts (DWR 1471). Isolated from soil sample SS 11004, colony 1. 11 Jun 2008. USA: Lander County, Nevada. N 39.495452, W 117.1604.

10025 DW Roberts (DWR 1472). Isolated from soil sample SS 11004, colony 2. 11 Jun 2008. USA: Lander County, Nevada. N 39.495452, W 117.1604.

10026 DW Roberts (DWR 1473). Isolated from soil sample SS 11004, colony 3. 11 Jun 2008. USA: Lander County, Nevada. N 39.495452, W 117.1604.

10027 DW Roberts (DWR 1489). Isolated from soil sample SS 12736. 10 Jun 2009. USA: Adams County, Washington. N 47.13699, W 118.1721.

10028 DW Roberts (DWR 1490). Isolated from soil sample SS 13846. 24 Jun 2009. USA: Weld County, Colorado. N 40.192916, W 104.6822.

10029 DW Roberts (DWR 1491). Isolated from soil sample SS 13860. 24 Jun 2009. USA: Weld County, Colorado. N 40.144745, W 104.768.

10030 DW Roberts (DWR 1506). Isolated from soil sample SS 13934. 4 Jun 2009. USA: Morgan County, Colorado. N 40.07361, W 104.0186.

10031 DW Roberts (DWR 1507). Isolated from soil sample SS 12754. 17 Jun 2009. USA: Douglas County, Washington. N 47.90269, W 119.797.

10032 DW Roberts (DWR 1516). Isolated from soil sample SS 13583. 21 Jul 2009. USA: Fremont County, Idaho. N 44.11919, W 111.34764.

10033 DW Roberts (DWR 1517). Isolated from soil sample SS 13762. 27 May 2009. USA: Yuma County, Colorado. N 39.795876, W 102.5602.

10034 DW Roberts (DWR 1518). Isolated from soil sample SS 13776, colony 1. 28 May 2009. USA: Yuma County, Colorado. N 39.858866, W 102.801.

10035 DW Roberts (DWR 1519). Isolated from soil sample SS 13776, colony 2. 28 May 2009. USA: Yuma County, Colorado. N 39.858866, W 102.801.

10036 DW Roberts (DWR 1520). Isolated from soil sample SS 13185. 16 Jun 2009. USA: Elbert County, Colorado. N 39.228926, W 103.879.

10037 DW Roberts (DWR 1527). Isolated from soil sample SS 13102. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.11295, W 105.0368.

10038 DW Roberts (DWR 1528). Isolated from soil sample SS 13749. 27 May 2009. USA: Washington County, Colorado. N 39.624913, W 103.1231.

10039 DW Roberts (DWR 1540). Isolated from soil sample SS 13174. 22 Jun 2009. USA: Arapahoe County, Colorado. N 39.653608, W 104.1537.

10040 DW Roberts (DWR 1541). Isolated from soil sample SS 14492. 7 Jul 2009. USA: Bent County, Colorado. N 37.91052, W 102.8581.

10041 DW Roberts (DWR 1542). Isolated from soil sample SS 12606. 23 Jun 2009. USA: Ochiltree County, Texas. N 36.421, W 101.364.

10042 DW Roberts (DWR 1543). Isolated from soil sample SS 12638. 24 Jun 2009. USA: Hansford County, Texas. N 36.19773, W 101.22712.

10043 DW Roberts (DWR 1544). Isolated from soil sample SS 12640. 25 Jun 2009. USA: Hutchinson County, Texas. N 35.95214, W 101.22674.

10044 DW Roberts (DWR 1545). Isolated from soil sample SS 14964. 5 Jun 2009. USA: Routt County, Colorado. N 40.499741, W 107.2291.

10045 DW Roberts (DWR 1546). Isolated from soil sample SS 14981. 22 Jun 2009. USA: Routt County, Colorado. N 40.365231, W 106.7475.

10046 DW Roberts (DWR 1547). Isolated from soil sample SS 15007. 24 Jun 2009. USA: Baca County, Colorado. N 37.264538, W 102.7783.

10047 DW Roberts (DWR 1548). Isolated from soil sample SS 15025. 27 Jun 2009. USA: Routt County, Colorado. N 40.735816, W 107.1246.

10048 DW Roberts (DWR 1553). Isolated from soil sample SS 16368. 11 Aug 2009. USA: Okanogan County, Washington. N 48.24863, W 118.89864.

10049 DW Roberts (DWR 1554). Isolated from soil sample SS 17125. 16 Jul 2009. USA: Goshen County, Wyoming. N 42.184521, W 104.45296.

10050 DW Roberts (DWR 1555). Isolated from soil sample SS 16143. 5 Aug 2009. USA: Judith Basin County, Montana. N 47.16631, W 110.7234.

10051 DW Roberts (DWR 1556). Isolated from soil sample SS 16299. 27 Jul 2009. USA: Ravalli County, Montana.

10052 DW Roberts (DWR 1557). Isolated from soil sample SS 17105. 6 Jul 2009. USA: Goshen County, Wyoming. N 42.047107, W 104.3445.

10053 DW Roberts (DWR 1580). Isolated from soil sample SS 14593. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.280046, W 103.2653.

10054 DW Roberts (DWR 1581). Isolated from soil sample SS 16330. 11 Aug 2009. USA: Sanders, Montana. N 48.08786, W 116.0055.

10055 DW Roberts (DWR 1582). Isolated from soil sample SS 14058. 5 Jun 2009. USA: Morgan County, Colorado. N 40.146715, W 103.5101.

10056 DW Roberts (DWR 1583). Isolated from soil sample SS 14218. 4 Aug 2009. USA: Iron County, Utah. N 37.3221, W 113.0306.

10057 DW Roberts (DWR 1584). Isolated from soil sample SS 14595. 8 Jul 2009. USA: Baca County, Colorado. N 37.557158, W 102.9408.

10058 DW Roberts (DWR 1591). Isolated from soil sample SS 15781. 2 Jun 2009. USA: Tripp County, South Dakota. N 43.162, W 99.8701.

10059 DW Roberts (DWR 1592). Isolated from soil sample SS 15770. 16 Jun 2009. USA: Lyman County, South Dakota. N 43.9051, W 99.7065.

10060 DW Roberts (DWR 1601). Isolated from soil sample SS 15269. 8 Jun 2009. USA: Shannon County, South Dakota. N 43.4775, W 102.9187.

10061 DW Roberts (DWR 1602). Isolated from soil sample SS 17132. 21 Jul 2009. USA: Goshen County, Wyoming. N 42.392979, W 104.35598.

10062 DW Roberts (DWR 1610). Isolated from soil sample SS 15087. Jul 2009. USA: Fremont County, Colorado. N 38.696808, W 105.4887.

10063 DW Roberts (DWR 1611). Isolated from soil sample SS 17311, colony 1. 28 Jul 2009. USA: Lincoln County, Nevada. N 38.055803, W 114.16724.

10064 DW Roberts (DWR 1612). Isolated from soil sample SS 17311, colony 2. 28 Jul 2009. USA: Lincoln County, Nevada. N 38.055803, W 114.16724.

10065 DW Roberts (DWR 1613). Isolated from soil sample SS 17311, colony 3. 28 Jul 2009. USA: Lincoln County, Nevada. N 38.055803, W 114.16724.

10066 DW Roberts (DWR 1614). Isolated from soil sample SS 16348. 10 Aug 2009. USA: Ferry County, Washington. N 48.334457, W 118.22365.

10067 DW Roberts (DWR 1615). Isolated from soil sample SS 14683. 8 Jul 2009. USA: Baca County, Colorado. N 37.599526, W 103.0024.

10068 DW Roberts (DWR 1652). Isolated from soil sample SS 15462. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0389, W 99.076.

10069 DW Roberts (DWR 1653). Isolated from soil sample SS 14725, colony 1. 3 Jun 2009. USA: Montrose County, Colorado. N 38.449135, W 109.0525.

10070 DW Roberts (DWR 1654). Isolated from soil sample SS 14725, colony 2. 3 Jun 2009. USA: Montrose County, Colorado. N 38.449135, W 109.0525.

10071 DW Roberts (DWR 1655). Isolated from soil sample SS 14729. 5 Jun 2009. USA: Montezuma County, Colorado. N 37.469161, W 108.1988.

10072 DW Roberts (DWR 1656). Isolated from soil sample SS 14202. 28 Jul 2009. USA: Elko County, Nevada. N 41.870107, W 115.4253.

10073 DW Roberts (DWR 1657). Isolated from soil sample SS 14169. 14 Jul 2009. USA: Elko County, Nevada. N 41.800432, W 115.50082.

10074 DW Roberts (DWR 1658). Isolated from soil sample SS 14158, colony 1. 4 Jun 2009. USA: Idaho County, Idaho.

10075 DW Roberts (DWR 1659). Isolated from soil sample SS 14158, colony 2. 4 Jun 2009. USA: Idaho County, Idaho.

10076 DW Roberts (DWR 1660). Isolated from soil sample SS 14424. 27 Jul 2009. USA: Eureka County, Nevada. N 39.943369, W 116.074.

10077 DW Roberts (DWR 1683). Isolated from soil sample SS 17491. 16 Jun 2009. USA: Prowers County, Colorado. N 37.838933, W 102.2264.

10078 DW Roberts (DWR 1684). Isolated from soil sample SS 17987. 6 Aug 2009. USA: Umatilla County, Oregon.

10079 DW Roberts (DWR 1685). Isolated from soil sample SS 15585. 12 Jun 2009. USA: Tripp County, South Dakota. N 43.6229, W 100.18.

10080 DW Roberts (DWR 1686). Isolated from soil sample SS 17658. 4 Jul 2009. USA: Bent County, Colorado. N 38.012501, W 102.9669.

10081 DW Roberts (DWR 1687). Isolated from soil sample SS 17909. 11 Aug 2009. USA: Gilliam County, Oregon.

10082 DW Roberts (DWR 1688). Isolated from soil sample SS 17940. 11 Aug 2009. USA: Morrow County, Oregon.

10083 DW Roberts (DWR 1689). Isolated from soil sample SS 17763. 9 Jul 2009. USA: Yuma County, Colorado. N 40.075706, W 102.4637.

10084 DW Roberts (DWR 1690). Isolated from soil sample SS 17744. 7 Jul 2009. USA: Kit Carson County, Colorado. N 39.289653, W 102.372.

10085 DW Roberts (DWR 1699). Isolated from soil sample SS 15643. 11 Jun 2009. USA: Perkins County, South Dakota. N 45.776343, W 102.7977.

10086 DW Roberts (DWR 1700). Isolated from soil sample SS 16653. 21 Jul 2009. USA: Show Low, Arizona. N 34.31598, W 110.33913.

10087 DW Roberts (DWR 1701). Isolated from soil sample SS 17701. 5 Jul 2009. USA: Yuma County, Colorado.

10088 DW Roberts (DWR 1702). Isolated from soil sample SS 17707. 5 Jul 2009. USA: Yuma County, Colorado.

10089 DW Roberts (DWR 1703). Isolated from soil sample SS 14264, colony 1. 20 Jul 2009. USA: Bannock County, Idaho. N 42.8864, W 112.4898.

10090 DW Roberts (DWR 1704). Isolated from soil sample SS 14277, colony 1. 27 Jul 2009. USA: Bonneville County, Idaho. N 43.6059, W 111.5146.

10091 DW Roberts (DWR 1705). Isolated from soil sample SS 14277, colony 2. 27 Jul 2009. USA: Bonneville County, Idaho. N 43.6059, W 111.5146.

10092 DW Roberts (DWR 1706). Isolated from soil sample SS 14306. 6 Aug 2009. USA: Minidoka County, Idaho. N 42.579567, W 113.92838.

10093 DW Roberts (DWR 1707). Isolated from soil sample SS 15101. Jul 2009. USA: Fremont County, Colorado. N 38.539323, W 105.7244.

10094 DW Roberts (DWR 1708). Isolated from soil sample SS 15122. 24 Jun 2009. USA: Baca County, Colorado. N 37.290136, W 103.0498.

10095 DW Roberts (DWR 1709). Isolated from soil sample SS 15922, colony 1. 12 Aug 2009. USA: Okanogan County, Washington. N 48.546579, W 118.97652.

10096 DW Roberts (DWR 1710). Isolated from soil sample SS 15922, colony 2. 12 Aug 2009. USA: Okanogan County, Washington. N 48.546579, W 118.97652.

10097 DW Roberts (DWR 1714). Isolated from soil sample SS 14264, colony 2. 20 Jul 2009. USA: Bannock County, Idaho. N 42.8864, W 112.4898.

10098 DW Roberts (DWR 1715). Isolated from soil sample SS 14264, colony 3. 20 Jul 2009. USA: Bannock County, Idaho. N 42.8864, W 112.4898.

10099 DW Roberts (DWR 1716). Isolated from soil sample SS 17770, colony 1. 9 Jul 2009. USA: Kit Carson County, Colorado. N 39.562111, W 102.4253.

10100 DW Roberts (DWR 1717). Isolated from soil sample SS 17770, colony 2. 9 Jul 2009. USA: Kit Carson County, Colorado. N 39.562111, W 102.4253.

10101 DW Roberts (DWR 1718). Isolated from soil sample SS 15554, colony 1. 10 Jun 2009. USA: Bennett County, South Dakota. N 43.1476, W 101.7323.

10102 DW Roberts (DWR 1719). Isolated from soil sample SS 15554, colony 2. 10 Jun 2009. USA: Bennett County, South Dakota. N 43.1476, W 101.7323.

10103 DW Roberts (DWR 1720). Isolated from soil sample SS 16081. 22 Jul 2009. USA: Musselshell County, Montana. N 46.2225, W 108.504.

10104 DW Roberts (DWR 1721). Isolated from soil sample SS 17821. 14 Aug 2009. USA: Oregon.

10105 DW Roberts (DWR 1722). Isolated from soil sample SS 17991. 10 Aug 2009. USA: Umatilla County, Oregon.

10106 DW Roberts (DWR 1723). Isolated from soil sample SS 13501. 10 Jun 2009. USA: Elbert County, Colorado. N 39.14357, W 104.2922.

10107 DW Roberts (DWR 1740). Isolated from soil sample SS 16903. 20 Aug 2009. USA: Graham County, Arizona. N 32.831492, W 110.14019.

10108 DW Roberts (DWR 1741). Isolated from soil sample SS 15618. 1 Jun 2009. USA: Lake County, South Dakota. N 43.88016, W 96.978852.

10109 DW Roberts (DWR 1742). Isolated from soil sample SS 15513. 2 Jun 2009. USA: Minnehaha County, South Dakota. N 43.630077, W 96.618407.

10110 DW Roberts (DWR 1743). Isolated from soil sample SS 15344. 1 Jul 2009. USA: Corson County, South Dakota. N 45.6247, W 101.1415.

10111 DW Roberts (DWR 1744). Isolated from soil sample SS 15136. 25 Jun 2009. USA: Huerfano County, Colorado. N 37.805756, W 104.6537.

10112 DW Roberts (DWR 1763). Isolated from soil sample SS 17568. 22 Jun 2009. USA: Kiowa County, Colorado. N 38.322571, W 102.6186.

10113 DW Roberts (DWR 1764). Isolated from soil sample SS 17569. 22 Jun 2009. USA: Kiowa County, Colorado. N 38.40456, W 102.6193.

10114 DW Roberts (DWR 1765). Isolated from soil sample SS 17559. 22 Jun 2009. USA: Prowers County, Colorado. N 38.165975, W 102.2108.

10115 DW Roberts (DWR 1766). Isolated from soil sample SS 17562. 22 Jun 2009. USA: Prowers County, Colorado. N 38.113836, W 102.4122.

10116 DW Roberts (DWR 1767). Isolated from soil sample SS 16935. 4 Aug 2009. USA: Coconino County, Arizona. N 34.464008, W 110.97636.

10117 DW Roberts (DWR 1771). Isolated from soil sample SS 17536. 21 Jun 2009. USA: Baca County, Colorado. N 37.251095, W 102.4412.

10118 DW Roberts (DWR 1808). Isolated from soil sample SS 13232. 8 Jul 2009. USA: Moffat County, Colorado. N 40.429511, W 108.1482.

10119 DW Roberts (DWR 1809). Isolated from soil sample SS 16509. 23 Jul 2009. USA: Coconino County, Arizona. N 35.228356, W 111.98011.

10120 DW Roberts (DWR 1810). Isolated from soil sample SS 16814. 29 Jul 2009. USA: Coconino County, Arizona. N 35.191634, W 112.27041.

10121 DW Roberts (DWR 1811). Isolated from soil sample SS 16860. 29 Jul 2009. USA: Coconino County, Arizona. N 35.164075, W 112.15773.

10122 DW Roberts (DWR 1812). Isolated from soil sample SS 18039, colony 1. 4 Nov 2009. USA: Canyon County, Idaho. N 43.33.154, W 116.33.965.

10123 DW Roberts (DWR 1813). Isolated from soil sample SS 18039, colony 2. 4 Nov 2009. USA: Canyon County, Idaho. N 43.33.154, W 116.33.965.

10124 DW Roberts (DWR 1814). Isolated from soil sample SS 18044. 5 Nov 2009. USA: Canyon County, Idaho. N 43.32.895, W 116.33.093.

10125 DW Roberts (DWR 1815). Isolated from soil sample SS 18056. 5 Nov 2009. USA: Owyhee County, Idaho. N 43.32.755, W 116.53.541.

10126 DW Roberts (DWR 1844). Isolated from soil sample SS 17853. 5 Aug 2009. USA: Harney County, Oregon. N 42.664078, W 118.4723.

10314 DW Roberts (DWR 1845). Isolated from soil sample SS 17873. 13 Aug 2009. USA: Wallowa County, Oregon. N 45.66882, W 116.9404.

10315 DW Roberts (DWR 1855). Isolated from soil sample SS 15529. 3 Jun 2009. USA: Tripp County, South Dakota. N 43.2035, W 100.1666.

10316 DW Roberts (DWR 1856). Isolated from soil sample SS 15146. 16 Jul 2009. USA: Custer County, Colorado. N 38.088653, W 105.5118.

10317 DW Roberts (DWR 1857). Isolated from soil sample SS 18079. Sep 2009. USA: Elko County, Nevada. N 40.775453, W 115.3309.

10318 DW Roberts (DWR 1858). Isolated from soil sample SS 15904. 6 Aug 2009. USA: Stevens County, Washington. N 48.713105, W 118.05228.

10319 DW Roberts (DWR 1859). Isolated from soil sample SS 14930, colony 1. 4 Jun 2009. USA: Pueblo County, Colorado. N 38.174323, W 104.59353.

10320 DW Roberts (DWR 1860). Isolated from soil sample SS 14930, colony 2. 4 Jun 2009. USA: Pueblo County, Colorado. N 38.174323, W 104.59353.

10321 DW Roberts (DWR 1908). Isolated from soil sample SS 15883. 12 May 2009. USA: Kootenai County, Idaho. N 47.775148, W 116.96062.

10322 DW Roberts (DWR 1909). Isolated from soil sample SS 12891. 8 Jul 2009. USA: Antelope Flats, Point of Pines, Arizona. N 33.357648, W 109.73008.

10323 DW Roberts (DWR 1938). Isolated from soil sample SS 15228. Jun 2009. USA: Todd County, South Dakota. N 43.645, W 100.57.

10324 DW Roberts (DWR 1942). Isolated from soil sample SS 18100. 17 Nov 2009. USA: North Ocean Springs, Mississippi. N 30.28566, W 88.51151.

10325 DW Roberts (DWR 1949). Isolated from soil sample SS 18336. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.820671, W 100.77505.

10326 DW Roberts (DWR 1950). Isolated from soil sample SS 18335. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.820708, W 100.59431.

10327 DW Roberts (DWR 1951). Isolated from soil sample SS 18332. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.82045, W 100.39461.

10328 DW Roberts (DWR 1954). Isolated from soil sample SS 5123. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.98988, W 102.21945.

10329 DW Roberts (DWR 1955). Isolated from soil sample SS 18341, colony 1. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.574825, W 101.23943.

10330 DW Roberts (DWR 1956). Isolated from soil sample SS 18341, colony 2. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.574825, W 101.23943.

10331 DW Roberts (DWR 1957). Isolated from soil sample SS 18341, colony 3. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.574825, W 101.23943.

10332 DW Roberts (DWR 1958). Isolated from soil sample SS 1591. 13 Aug 2008. USA: Grant County, Nebraska. N 41.962825, W 101.50659.

10333 DW Roberts (DWR 1971). Isolated from soil sample SS 5120. 18 Aug 2008. USA: Morrill County, Nebraska. N 41.8132, W 103.14888.

10334 DW Roberts (DWR 1996). Isolated from soil sample SS 1488. 16 Jul 2008. USA: Franklin County, Washington. N 46.66756, W 118.25021.

10335 DW Roberts (DWR 1998). Isolated from soil sample SS 18339. 11 Jun 2008. USA: Bottineau County, North Dakota. N 48.774625, W 101.14656.

10336 DW Roberts (DWR 1999). Isolated from soil sample SS 18340. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.654198, W 101.14718.

10337 DW Roberts (DWR 2003). Isolated from soil sample SS 1675, colony 2. 14 Aug 2008. USA: Howard County, Nebraska. N 41.0758, W 98.4988.

10338 DW Roberts (DWR 2004). Isolated from soil sample SS 6130, colony 1. 12 Aug 2008. USA: Dale Widhalm, Nebraska. N 41.65222, W 102.85937.

10339 DW Roberts (DWR 2005). Isolated from soil sample SS 6130, colony 2. 12 Aug 2008. USA: Dale Widhalm, Nebraska. N 41.65222, W 102.85937.

10340 DW Roberts (DWR 2006). Isolated from soil sample SS 4907. 20 Jun 2008. USA: Towner County, North Dakota. N 48.805, W 99.329.

10341 DW Roberts (DWR 2007). Isolated from soil sample SS 4908. 20 Jun 2008. USA: Cavalier County, North Dakota. N 48.8197, W 98.6278.

10342 DW Roberts (DWR 2008). Isolated from soil sample SS 4904. 12 Jun 2008. USA: Ward County, North Dakota. N 48.05092, W 100.0582.

10343 DW Roberts (DWR 2009). Isolated from soil sample SS 5244. 20 Jun 2008. USA: Brule County, South Dakota. N 43.6147, W 98.99251.

10344 DW Roberts (DWR 2010). Isolated from soil sample SS 4901, colony 1. 20 Jun 2008. USA: McLean County, North Dakota. N 47.8331, W 100.888.

10345 DW Roberts (DWR 2011). Isolated from soil sample SS 4901, colony 2. 20 Jun 2008. USA: McLean County, North Dakota. N 47.8331, W 100.888.

10346 DW Roberts (DWR 2025). Isolated from soil sample SS 4446. May 2008. USA: Hardeman County, Texas. N 34.14822, W 99.7336.

11685 Z Demirbag (As18) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

11686 Z Demirbag (As19) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

11839 [ERL 2020] S Gouli (THR-11-12) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.

11849 [ERL 2030] S Gouli (THR-11-20) and V Gouli. [Coleoptera: Chrysomelidae]. 2011. USA: Underhill, Vermont.

12452 T Reall (MHF) or (MH6). *Galleria mellonella* [Lepidoptera: Pyralidae]. Sep 2011. USA: Monterey Hills forest, Columbia, Missouri. N 38.98253, W 92.38603.

12453 T Reall (MHU) or (P1). *Galleria mellonella* [Lepidoptera: Pyralidae]. 11 Sep 2012. USA: Parkade neighborhood, Columbia, Missouri. N 38.97482, W 92.35132.

12454 T Reall (MLF) or (Gu9). *Galleria mellonella* [Lepidoptera: Pyralidae]. 29 Sep 2011. USA: Guilford forest, Columbia, Missouri. N 39.04678, W 92.40152.

12455 T Reall (P5) or (MLU). *Galleria mellonella* [Lepidoptera: Pyralidae]. 24 Aug 2012. USA: Parkade neighborhood, Columbia, Missouri. N 38.97484, W 92.34701.

12511 ST Jaronski (13WS64). *Cephus cinctus* [Hymenoptera: Cephidae]. 23 Sep 2013. USA: East Knee, Chouteau County, Montana.

12516 ST Jaronski (13WS21). *Cephus cinctus* [Hymenoptera: Cephidae]. 29 Aug 2013. USA: East Knee, Chouteau County, Montana.

12539 A Altinok (71). Isolated from soil sample. Rec'd 19 May 2014. Turkey: Kayseri Province.

12563 O Nishi (Fkk63-13t) and S Shimizu. *Reticulitermes speratus* [Isoptera: Rhinotermitidae] as bait from soil. Sep 2010. Japan: Fukuoka Prefecture.

12567 O Nishi (YT2) and S Shimizu. Adult, *Teleogryllus emma* [Orthoptera: Gryllidae]. Oct 2012. Japan: Fukuoka Prefecture.

12570 O Nishi (Fkk70-17t) and S Shimizu. *Reticulitermes speratus* [Isoptera: Rhinotermitidae] as bait from soil. Sep 2010. Japan: Fukuoka Prefecture.

12571 O Nishi (Ngs5-2) and S Shimizu. Isolated from soil sample. May 2008. Japan: Nagasaki Prefecture.

12635 DW Roberts (DWR 2043). Isolated from soil sample SS 239. 28 May 2006. USA: South of Jacob Lake, Highway 89, Jacob Lake, Arizona. N 36.43.555, W 112.07.522.

12636 DW Roberts (DWR 2062). Isolated from soil sample SS 328. 31 May 2006. USA: Bisbee, Arizona. N 31.27.155, W 109.56.214.

12637 DW Roberts (DWR 2063). Isolated from soil sample SS 55. 17 May 2005. USA: Colorado City, Arizona. N 36.55.241, W 112.55.179.

12638 DW Roberts (DWR 2064). Isolated from soil sample SS 20929. 14 Jul 2010. USA: Arizona. N 33.57795, W 112.37415.

12639 DW Roberts (DWR 2065). Isolated from soil sample SS 20048. 8 May 2010. USA: Walla Walla County, Washington. N 46.38811, W 118.61058.

12640 DW Roberts (DWR 2066). Isolated from soil sample SS 20084. 8 Jun 2010. USA: Columbia County, Washington. N 46.5124, W 117.97235.

12641 DW Roberts (DWR 2067). Isolated from soil sample SS 20088. 8 Jun 2010. USA: Columbia County, Washington. N 46.52308, W 118.17977.

12642 DW Roberts (DWR 2068). Isolated from soil sample SS 20090. 23 Jun 2010. USA: Okanogan County, Washington. N 48.19967, W 120.11118.

12643 DW Roberts (DWR 2070). Isolated from soil sample SS 20131. 16 Mar 2010. USA: Jackson County, Oregon. N 42.33071, W 122.93755.

12644 DW Roberts (DWR 2072). Isolated from soil sample SS 20467, colony 2. 8 Jul 2010. USA: Arizona. N 33.23065, W 111.68604.

12645 DW Roberts (DWR 2073). Isolated from soil sample SS 20512. 30 Jun 2010. USA: Arizona. N 33.56883, W 112.36325.

12646 DW Roberts (DWR 2074). Isolated from soil sample SS 20648. 29 Jun 2010. USA: Arizona. N 33.46194, W 111.73806.

12647 DW Roberts (DWR 2075). Isolated from soil sample SS 21002. 16 Jul 2010. USA: Arizona. N 33.21923, W 111.68604.

12648 DW Roberts (DWR 2076). Isolated from soil sample SS 21076. 6 Jul 2010. USA: Arizona. N 33.668?3, W FM006.

12649 DW Roberts (DWR 2099). Isolated from soil sample SS 20904. 12 Jul 2010. USA: Arizona. N 33.21922, W 111.68607.

12650 DW Roberts (DWR 2100). Isolated from soil sample SS 20878. 25 Jul 2010. USA: Sevier County, Utah. N 38.54399, W 111.56553.

12651 DW Roberts (DWR 2101). Isolated from soil sample SS 20086. 8 Jun 2010. USA: Walla Walla County, Washington. N 46.57032, W 118.40263.

12652 DW Roberts (DWR 2102). Isolated from soil sample SS 20047. 8 May 2010. USA: Walla Walla County, Washington. N 46.22469, W 118.57391.

12653 DW Roberts (DWR 2104). Isolated from soil sample SS 20052. 13 May 2010. USA: Grant County, Washington. N 46.80819, W 119.80977.

12654 DW Roberts (DWR 2105). Isolated from soil sample SS 20951. 14 Jul 2010. USA: Arizona. N 33.57676, W 112.37534.

12655 DW Roberts (DWR 2107). Isolated from soil sample SS 19490. 10 Jun 2010. USA: Nevada. N 39.590597, W 115.997968.

12656 DW Roberts (DWR 2120). Isolated from soil sample SS 21341. 6 Jul 2010. USA: Arizona. N 33.67146, W 111.68788.

12657 DW Roberts (DWR 2121). Isolated from soil sample SS 19303. 17 Jun 2010. USA: Tooele County, Utah. N 40.2907, W 112.1054.

12658 DW Roberts (DWR 2122). Isolated from soil sample SS 20106. 1 Jul 2010. USA: Douglas County, Washington. N 47.38835, W 119.93537.

12659 DW Roberts (DWR 2123). Isolated from soil sample SS 20900. 12 Jul 2010. USA: Arizona. N 33.21926, W 111.68604.

12660 DW Roberts (DWR 2124). Isolated from soil sample SS 21462. 29 Jul 2010. USA: Garfield County, Utah. N 38.0547, W 112.2011.

12661 DW Roberts (DWR 2125). Isolated from soil sample SS 21771. 28 Jun 2010. USA: Nevada. N 39.291815, W 117.851438.

12662 DW Roberts (DWR 2142). Isolated from soil sample SS 20110. 6 Jul 2010. USA: Yakima County, Washington. N 46.44774, W 120.77084.

12663 DW Roberts (DWR 2143). Isolated from soil sample SS 22042. 29 Jul 2010. USA: Nebraska. N 41.450414, W 103.62064.

12664 DW Roberts (DWR 2144). Isolated from soil sample SS 22218. 26 Jul 2010. USA: Nebraska. N 41.497296, W 103.294434.

12665 DW Roberts (DWR 2145). Isolated from soil sample SS 22229. 26 Jul 2010. USA: Nebraska. N 41.7144, W 103.196487.

12666 DW Roberts (DWR 2146). Isolated from soil sample SS 22248, colony 1. 27 Jul 2010. USA: Nebraska. N 41.858552, W 102.78511.

12667 DW Roberts (DWR 2147). Isolated from soil sample SS 22248, colony 2. 27 Jul 2010. USA: Nebraska. N 41.858552, W 102.78511.

12668 DW Roberts (DWR 2148). Isolated from soil sample SS 22251, colony 1. 27 Jul 2010. USA: Nebraska. N 41.946989, W 102.805499.

12669 DW Roberts (DWR 2149). Isolated from soil sample SS 22251, colony 2. 27 Jul 2010. USA: Nebraska. N 41.946989, W 102.805499.

12670 DW Roberts (DWR 2151). Isolated from soil sample SS 22408. 28 Jul 2010. USA: Nebraska. N 41.18819, W 98.344795.

12671 DW Roberts (DWR 2152). Isolated from soil sample SS 22429. 30 Jul 2010. USA: Nebraska. N 41.624255, W 103.98627.

12672 DW Roberts (DWR 2153). Isolated from soil sample SS 22432. 30 Jul 2010. USA: Nebraska. N 41.690773, W 103.77478.

12673 DW Roberts (DWR 2154). Isolated from soil sample SS 22464. 3 Aug 2010. USA: Nebraska. N 41.163671, W 103.491334.

12674 DW Roberts (DWR 2155). Isolated from soil sample SS 22211. 30 Jul 2010. USA: Lincoln County, New Mexico. N 33.7189, W 105.36029.

12675 DW Roberts (DWR 2156). Isolated from soil sample SS 22045. 29 Jul 2010. USA: Nebraska. N 41.4800237, W 103.773709.

12676 DW Roberts (DWR 2157). Isolated from soil sample SS 22054. 28 Jul 2010. USA: Nebraska. N 41.692081, W 102.983177.

12677 DW Roberts (DWR 2158). Isolated from soil sample SS 22067. 28 Jul 2010. USA: Nebraska. N 41.652213, W 102.859357.

12678 DW Roberts (DWR 2159). Isolated from soil sample SS 22069. 28 Jul 2010. USA: Nebraska. N 41.845047, W 103.2775.

12679 DW Roberts (DWR 2160). Isolated from soil sample SS 22243. 27 Jul 2010. USA: Nebraska. N 41.929605, W 102.731321.

12680 DW Roberts (DWR 2161). Isolated from soil sample SS 22268. 26 Jul 2010. USA: Nebraska. N 40.64849, W 101.10714.

12681 DW Roberts (DWR 2162). Isolated from soil sample SS 22459. 3 Aug 2010. USA: Nebraska. N 41.178377, W 103.328544.

12682 DW Roberts (DWR 2192). Isolated from soil sample SS 21985. 7 Jul 2010. USA: Elko County, Nevada. N 41.474507, W 116.101377.

12683 DW Roberts (DWR 2193). Isolated from soil sample SS 22064. 28 Jul 2010. USA: Morrill County, Nebraska. N 41.55449, W 102.901323.

12684 DW Roberts (DWR 2194). Isolated from soil sample SS 22296. 29 Jul 2010. USA: Keith County, Nebraska. N 41.1487, W 101.88333.

12685 DW Roberts (DWR 2195). Isolated from soil sample SS 22070. 28 Jul 2010. USA: Morrill County, Nebraska. N 41.517032, W 102.734296.

12686 DW Roberts (DWR 2197). Isolated from soil sample SS 22041. 29 Jul 2010. USA: Banner County, Nebraska. N 41.422439, W 103.733264.

12687 DW Roberts (DWR 2198). Isolated from soil sample SS 20387. 29 Jun 2010. USA: Maricopa County, Arizona. N 33.45411, W 111.74036.

12688 DW Roberts (DWR 2199). Isolated from soil sample SS 20394, colony 1. 29 Jun 2010. USA: Maricopa County, Arizona. N 33.4627, W 111.74017.

12689 DW Roberts (DWR 2200). Isolated from soil sample SS 20394, colony 2. 29 Jun 2010. USA: Maricopa County, Arizona. N 33.4627, W 111.74017.

12690 DW Roberts (DWR 2201). Isolated from soil sample SS 20402. 29 Jun 2010. USA: Maricopa County, Arizona. N 33.45846, W 111.74179.

12691 DW Roberts (DWR 2218). Isolated from soil sample SS 25630. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.411414, W 101.650143.

12692 DW Roberts (DWR 2220). Isolated from soil sample SS 25639, colony 1. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.873913, W 100.555994.

12693 DW Roberts (DWR 2221). Isolated from soil sample SS 25639, colony 2. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.873913, W 100.555994.

12694 DW Roberts (DWR 2222). Isolated from soil sample SS 25074. 13 Sep 2010. USA: Custer County, Nebraska. N 41.568444, W 99.982962.

12695 DW Roberts (DWR 2223). Isolated from soil sample SS 25069. 13 Sep 2010. USA: Custer County, Nebraska. N 41.668393, W 100.156238.

12696 DW Roberts (DWR 2226). Isolated from soil sample SS 25446. 14 Sep 2010. USA: Arthur County, Nebraska. N 41.56499, W 101.942818.

12697 DW Roberts (DWR 2227). Isolated from soil sample SS 20293. 30 Jun 2010. USA: Maricopa County, Arizona. N 33.45108, W 111.74242.

12698 DW Roberts (DWR 2077a). Isolated from soil sample SS 21125. 6 Jul 2010. USA: Arizona. N 33.06476, W 111.86357.

12699 DW Roberts (DWR 2077b). Isolated from soil sample SS 21125. 6 Jul 2010. USA: Arizona. N 33.06476, W 111.86357.

12700 DW Roberts (DWR 2228). Isolated from soil sample SS 24800. 10 Aug 2010. USA: Maricopa County, Arizona. N 33.45787, W 111.75723.

12701 DW Roberts (DWR 2229). Isolated from soil sample SS 24922. 20 Aug 2010. USA: Maricopa County, Arizona. N 33.21973, W 111.68955.

12702 DW Roberts (DWR 2233). Isolated from soil sample SS 25060. 13 Sep 2010. USA: Custer County, Nebraska. N 41.687726, W 99.942833.

12703 DW Roberts (DWR 2234). Isolated from soil sample SS 25155. 13 Sep 2010. USA: Holt County, Nebraska. N 42.16942, W 99.01904.

12704 DW Roberts (DWR 2235). Isolated from soil sample SS 25656. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.879468, W 101.952129.

12705 DW Roberts (DWR 2236). Isolated from soil sample SS 25158. 13 Sep 2010. USA: Holt County, Nebraska. N 42.320151, W 99.018228.

12706 DW Roberts (DWR 2237). Isolated from soil sample SS 25153. 13 Sep 2010. USA: Holt County, Nebraska. N 42.113828, W 99.013681.

12707 DW Roberts (DWR 2239). Isolated from soil sample SS 25066. 13 Sep 2010. USA: Blaine County, Nebraska. N 41.808056, W 100.014743.

12708 DW Roberts (DWR 2240). Isolated from soil sample SS 25148. 13 Sep 2010. USA: Holt County, Nebraska. N 42.277325, W 98.808132.

12709 DW Roberts (DWR 2241). Isolated from soil sample SS 24119. 11 Aug 2010. USA: Minidoka County, Idaho. N 42.679608, W 113.853252.

12710 DW Roberts (DWR 2242). Isolated from soil sample SS 24703. 16 Aug 2010. USA: Maricopa County, Arizona. N 33.45099, W 111.75014.

12711 DW Roberts (DWR 2243). Isolated from soil sample SS 25172. 13 Sep 2010. USA: Rock County, Nebraska. N 42.594219, W 99.265005.

12712 DW Roberts (DWR 2244). Isolated from soil sample SS 25260. 13 Sep 2010. USA: Loup County, Nebraska. N 42.029612, W 99.46943.

12713 DW Roberts (DWR 2245). Isolated from soil sample SS 25264. 13 Sep 2010. USA: Loup County, Nebraska. N 41.770317, W 99.436756.

12714 DW Roberts (DWR 2246). Isolated from soil sample SS 25047. 13 Sep 2010. USA: Wheeler County, Nebraska. N 42.05889, W 98.7005.

12715 DW Roberts (DWR 2247). Isolated from soil sample SS 25419. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.371047, W 101.717451.

12716 DW Roberts (DWR 2248). Isolated from soil sample SS 25437. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.956178, W 100.439972.

12717 DW Roberts (DWR 2249). Isolated from soil sample SS 25420. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.551872, W 100.804756.

12718 DW Roberts (DWR 2250). Isolated from soil sample SS 25451. 14 Sep 2010. USA: Arthur County, Nebraska. N 41.490493, W 101.86037.

12719 DW Roberts (DWR 2251). Isolated from soil sample SS 25627. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.371957, W 101.455504.

12720 DW Roberts (DWR 2252). Isolated from soil sample SS 26152. 10 Aug 2010. USA: Mineral County, Montana. N 47.043903, W 114.734097.

12721 DW Roberts (DWR 2253). Isolated from soil sample SS 25423. 14 Sep 2010. USA: Arthur County, Nebraska. N 41.741278, W 101.772594.

12722 DW Roberts (DWR 2255). Isolated from soil sample SS 25591. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.750822, W 100.422163.

12723 DW Roberts (DWR 2256). Isolated from soil sample SS 25555. 3 Aug 2010. USA: Nebraska.

12724 DW Roberts (DWR 2257). Isolated from soil sample SS 25584. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.488703, W 100.312863.

12725 DW Roberts (DWR 2259). Isolated from soil sample SS 25522. 2 Aug 2010. USA: Nebraska.

12726 DW Roberts (DWR 2260). Isolated from soil sample SS 25520. 2 Aug 2010. USA: Nebraska.

12727 DW Roberts (DWR 2261). Isolated from soil sample SS 25211. 13 Sep 2010. USA: Garden County, Nebraska. N 41.496968, W 102.169292.

12728 DW Roberts (DWR 2264). Isolated from soil sample SS 25816. 9 Aug 2010. USA: Dawes County, Nebraska. N 42.439624, W 103.402579.

12729 DW Roberts (DWR 2266). Isolated from soil sample SS 25813. 9 Aug 2010. USA: Box Butte County, Nebraska. N 42.22087, W 103.404069.

12730 DW Roberts (DWR 2271). Isolated from soil sample SS 25202. 13 Sep 2010. USA: Garden County, Nebraska. N 41.671039, W 102.191667.

12731 DW Roberts (DWR 2273). Isolated from soil sample SS 25400. 13 Sep 2010. USA: Grant County, Nebraska. N 42.065435, W 101.53029.

12732 DW Roberts (DWR 2275). Isolated from soil sample SS 25528. 3 Aug 2010. USA: Nebraska.

12733 DW Roberts (DWR 2276). Isolated from soil sample SS 25200. 13 Sep 2010. USA: Garden County, Nebraska. N 41.745247, W 102.098152.

12734 DW Roberts (DWR 2277). Isolated from soil sample SS 25208. 13 Sep 2010. USA: Garden County, Nebraska. N 41.317989, W 102.177985.

12735 DW Roberts (DWR 2278). Isolated from soil sample SS 25401. 13 Sep 2010. USA: Grant County, Nebraska. N 42.068857, W 101.44444.

12736 DW Roberts (DWR 2279). Isolated from soil sample SS 25692. 29 Jul 2010. USA: Nebraska.

12737 DW Roberts (DWR 2280). Isolated from soil sample SS 25582. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.392752, W 100.219968.

12738 DW Roberts (DWR 2283). Isolated from soil sample SS 25665. 27 Jul 2010. USA: Nebraska.

12739 DW Roberts (DWR 2286). Isolated from soil sample SS 25552. 4 Aug 2010. USA: Nebraska.

12740 DW Roberts (DWR 2289). Isolated from soil sample SS 25583. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.461975, W 100.206925.

12741 DW Roberts (DWR 2293). Isolated from soil sample SS 25638. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.794524, W 100.53779.

12742 DW Roberts (DWR 2294). Isolated from soil sample SS 23659. 20 Jul 2010. USA: Roosevelt County, New Mexico. N 34.24404, W 103.1311.

12743 DW Roberts (DWR 2295). Isolated from soil sample SS 25880. 24 Aug 2010. USA: Sheridan County, Nebraska. N 42.430806, W 102.135596.

12744 DW Roberts (DWR 2298). Isolated from soil sample SS 25300. 13 Sep 2010. USA: Garfield County, Nebraska. N 41.871764, W 98.771073.

12745 DW Roberts (DWR 2299). Isolated from soil sample SS 25300. 13 Sep 2010. USA: Garfield County, Nebraska. N 41.871764, W 98.771073.

12746 DW Roberts (DWR 2300). Isolated from soil sample SS 25644. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.797899, W 100.403178.

12747 DW Roberts (DWR 2301). Isolated from soil sample SS 25835. 10 Aug 2010. USA: Box Butte County, Nebraska. N 42.348894, W 103.170384.

12748 DW Roberts (DWR 2302). Isolated from soil sample SS 25293. 13 Sep 2010. USA: Knox County, Nebraska. N 42.710671, W 98.217095.

12749 DW Roberts (DWR 2304). Isolated from soil sample SS 26053. 2 Aug 2010. USA: Rosebud County, Montana. N 46.621916, W 107.818637.

12750 DW Roberts (DWR 2305). Isolated from soil sample SS 25831. 10 Aug 2010. USA: Box Butte County, Nebraska. N 42.161448, W 103.32826.

12751 DW Roberts (DWR 2306). Isolated from soil sample SS 25332. 13 Sep 2010. USA: Custer County, Nebraska. N 41.176133, W 99.63446.

12752 DW Roberts (DWR 2307). Isolated from soil sample SS 25618. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.528667, W 100.982476.

12753 DW Roberts (DWR 2310). Isolated from soil sample SS 25397. 13 Sep 2010. USA: Grant County, Nebraska. N 41.914007, W 101.926447.

12754 DW Roberts (DWR 2311). Isolated from soil sample SS 25044. 13 Sep 2010. USA: Wheeler County, Nebraska. N 41.832847, W 98.509051.

12755 DW Roberts (DWR 2312). Isolated from soil sample SS 25044. 13 Sep 2010. USA: Wheeler County, Nebraska. N 41.832847, W 98.509051.

12756 DW Roberts (DWR 2313). Isolated from soil sample SS 25760. 17 Aug 2010. USA: Sioux County, Nebraska. N 42.737234, W 103.91522.

12757 DW Roberts (DWR 2314). Isolated from soil sample SS 25564. 30 Aug 2010. USA: Sheridan County, Nebraska. N 42.701752, W 102.477467.

12758 DW Roberts (DWR 2315). Isolated from soil sample SS 26237. 26 Aug 2010. USA: Lincoln County, Montana. N 48.16426, W 115.44574.

12759 DW Roberts (DWR 2316). Isolated from soil sample SS 24127. 11 Aug 2010. USA: Blaine County, Idaho. N 42.736505, W 113.414895.

12760 DW Roberts (DWR 2317). Isolated from soil sample SS 25897. 24 Aug 2010. USA: Sheridan County, Nebraska. N 42.370608, W 102.258675.

12761 DW Roberts (DWR 2318). Isolated from soil sample SS 25515. 2 Aug 2010. USA: Nebraska.

12762 DW Roberts (DWR 2319). Isolated from soil sample SS 24029. 29 Jun 2010. USA: Bennett County, South Dakota. N 43.21505, W 101.33595.

12763 DW Roberts (DWR 2339). Isolated from soil sample SS 27411. 19 Apr 2011. USA: Maricopa County, Arizona. N 33.67038, W 111.68867.

12764 DW Roberts (DWR 2360). Isolated from soil sample SS 25933. 16 Aug 2010. USA: Sioux County, Nebraska. N 42.282922, W 103.660023.

12765 DW Roberts (DWR 2363). Isolated from soil sample SS 25567. 30 Aug 2010. USA: Sheridan County, Nebraska. N 42.307685, W 102.433876.

12766 DW Roberts (DWR 2364). Isolated from soil sample SS 25642. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.924147, W 100.550173.

12767 DW Roberts (DWR 2365). Isolated from soil sample SS 23893. 27 Jul 2010. USA: Stevens County, Washington. N 48.69042, W 118.088846.

12768 DW Roberts (DWR 2366). Isolated from soil sample SS 25405. 13 Sep 2010. USA: Grant County, Nebraska. N 41.887472, W 101.501853.

12769 DW Roberts (DWR 2367). Isolated from soil sample SS 25775. 18 Aug 2010. USA: Sioux County, Nebraska. N 42.346068, W 103.913771.

12770 DW Roberts (DWR 2375). Isolated from soil sample SS 26385. 8 Sep 2010. USA: Nebraska.

12771 DW Roberts (DWR 2386). Isolated from soil sample SS 25698. 27 Jul 2010. USA: Nebraska.

12772 DW Roberts (DWR 2387). Isolated from soil sample SS 25488. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.308502, W 100.43707.

12773 DW Roberts (DWR 2388). Isolated from soil sample SS 25488. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.308502, W 100.43707.

12774 DW Roberts (DWR 2389). Isolated from soil sample SS 25447. 9 Sep 2010. USA: Brown County, Nebraska. N 42.175198, W 100.025127.

12775 DW Roberts (DWR 2390). Isolated from soil sample SS 25338. 13 Sep 2010. USA: Custer County, Nebraska. N 41.198119, W 99.300164.

12776 DW Roberts (DWR 2391). Isolated from soil sample SS 26449. 7 Sep 2010. USA: Rock County, Nebraska. N 42.264482, W 99.468483.

12777 DW Roberts (DWR 2398). Isolated from soil sample SS 26365. 13 Sep 2010. USA: Nebraska.

12778 DW Roberts (DWR 2399). Isolated from soil sample SS 25449. 14 Sep 2010. USA: Arthur County, Nebraska. N 41.496285, W 101.925075.

12779 DW Roberts (DWR 2401). Isolated from soil sample SS 26736. 27 Jul 2010. USA: Hood River County, Oregon. N 45.68984, W 121.594956.

12780 DW Roberts (DWR 2402). Isolated from soil sample SS 26413. 8 Sep 2010. USA: Nebraska.

12781 DW Roberts (DWR 2403). Isolated from soil sample SS 25197. 13 Sep 2010. USA: Grant County, Nebraska. N 41.752291, W 102.05473.

12782 DW Roberts (DWR 2417). Isolated from soil sample SS 25662. 27 Jul 2010. USA: Nebraska.

12783 DW Roberts (DWR 2418). Isolated from soil sample SS 25501. 29 Jul 2010. USA: Nebraska.

12784 DW Roberts (DWR 2419). Isolated from soil sample SS 26418. 8 Sep 2010. USA: Nebraska.

12785 DW Roberts (DWR 2421). Isolated from soil sample SS 25517. 2 Aug 2010. USA: Nebraska.

12786 DW Roberts (DWR 2422). Isolated from soil sample SS 25557. 2 Aug 2010. USA: Nebraska.

12787 DW Roberts (DWR 2423). Isolated from soil sample SS 26376. 14 Sep 2010. USA: Nebraska.

12788 DW Roberts (DWR 2424). Isolated from soil sample SS 26443. 9 Sep 2010. USA: Brown County, Nebraska. N 42.288682, W 100.068483.

12789 DW Roberts (DWR 2425). Isolated from soil sample SS 26443. 9 Sep 2010. USA: Brown County, Nebraska. N 42.288682, W 100.068483.

12790 DW Roberts (DWR 2426). Isolated from soil sample SS 25551. 4 Aug 2010. USA: Nebraska.

12791 DW Roberts (DWR 2428). Isolated from soil sample SS 26364. 13 Sep 2010. USA: Nebraska.

12792 DW Roberts (DWR 2431). Isolated from soil sample SS 26364. 13 Sep 2010. USA: Nebraska.

12796 [OKSTATE Sd] EJ Rebek and JA Rodriguez-Contreras ← SR Sánchez Peña. Larva, *Phyllophaga* sp. [Coleoptera: Scarabaeidae]. Summer 2014. USA: Cimarron Valley Research Station, Oklahoma State University, Stillwater, Oklahoma.

12850 [IP 414] Phylum Arthropoda, Class Insecta From infected insect . 4 Feb 2015. Brazil: Bacupari, Rio Grande do Sul. S 13° 48' 16.85", W 47° 25' 38.43". **RESTRICTED ACCESS:** *contact Curator*.

12854 [IP 418] Isolated from soil sample using *Rhodnius prolixus* Stål [Hemiptera:Reduviidae] as bait. 11 May 2014. RPPN SB, riverine woodland. **RESTRICTED ACCESS:** *contact Curator*.

12858 [IP 422] Larva, 28 Jun 2014. RPPN SB, near Ecotourism. **RESTRICTED ACCESS:** *contact Curator*.

12859 [IP 423] Larva, 28 Jun 2014. RPPN SB, near Ecotourism. **RESTRICTED ACCESS:** *contact Curator*.

12863 [IP 427] Isolated from soil sample using *Aedes aegypti* L. [Diptera: Culicidae] as bait. 6 Sep 2014. Lago Nery. **RESTRICTED ACCESS:** *contact Curator*.

13031 DW Roberts (DWR 2103). Isolated from soil sample SS 20140. 29 Jun 2010. USA: Arizona. N 33.45196, W 111.75133.

13032 DW Roberts (DWR 2232). Isolated from soil sample SS 25641. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.82204, W 100.646133.

13033 DW Roberts (DWR 2238). Isolated from soil sample SS 25061. 13 Sep 2010. USA: Blaine County, Nebraska. N 41.743485, W 100.017245.

13034 DW Roberts (DWR 2254). Isolated from soil sample SS 25668. 27 Jul 2010. USA: Nebraska.

13035 DW Roberts (DWR 2265). Isolated from soil sample SS 25195. 13 Sep 2010. USA: McPherson County, Nebraska. N 41.492808, W 100.963118.

13036 DW Roberts (DWR 2267). Isolated from soil sample SS 25512. 2 Aug 2010. USA: Nebraska.

13037 DW Roberts (DWR 2268). Isolated from soil sample SS 25811. 9 Aug 2010. USA: Sioux County, Nebraska. N 42.125907, W 103.48895.

13038 DW Roberts (DWR 2269). Isolated from soil sample SS 25666. 27 Jul 2010. USA: Nebraska.

13039 DW Roberts (DWR 2270). Isolated from soil sample SS 25828. 10 Aug 2010. USA: Box Butte County, Nebraska. N 42.003301, W 103.382471.

13040 DW Roberts (DWR 2272). Isolated from soil sample SS 25389. 13 Sep 2010. USA: Grant County, Nebraska. N 41.91449, W 102.059523.

13041 DW Roberts (DWR 2274). Isolated from soil sample SS 25529. 3 Aug 2010. USA: Nebraska.

13042 DW Roberts (DWR 2281). Isolated from soil sample SS 25196. 13 Sep 2010. USA: Garden County, Nebraska. N 41.694737, W 101.997668.

13043 DW Roberts (DWR 2282). Isolated from soil sample SS 25196. 13 Sep 2010. USA: Garden County, Nebraska. N 41.694737, W 101.997668.

13044 DW Roberts (DWR 2285). Isolated from soil sample SS 25524. 2 Aug 2010. USA: Nebraska.

13045 DW Roberts (DWR 2287). Isolated from soil sample SS 25545. 4 Aug 2010. USA: Nebraska.

13088 SP Wraight (HI-897). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-897. **RESTRICTED ACCESS:** *contact Curator*.

13095 DW Roberts (DWR 2150). Isolated from soil on dodine medium Isolated from soil sample SS 22253. 27 Jul 2010. USA: Nebraska. N 41.973512, W -103.341325.

13096 DW Roberts (DWR 2284). Isolated from soil on dodine medium Isolated from soil sample SS 25191. 13 Sep 2010. USA: Garfield County, Nebraska. N 14.99588, W -99.1450771.

13097 DW Roberts (DWR 2288). Isolated from soil on dodine medium Isolated from soil sample SS 25561. 4 Aug 2010. USA: Nebraska.

13098 DW Roberts (DWR 2296). Isolated from soil on dodine medium Isolated from soil sample SS 25871. 24 Aug 2010. USA: Sheridan County, Nebraska. N 42.245053 W -102.23587.

13099 DW Roberts (DWR 2297). Isolated from soil on dodine medium Isolated from soil sample SS 25878. 24 Aug 2010. USA: Sheridan County, Nebraska. N 42.382901 W -102.156276.

13100 DW Roberts (DWR 2309). Isolated from soil on dodine medium Isolated from soil sample SS 25438. 14 Sep 2010. USA: Thomas County, Nebraska. N 41.977797 W -100.455613.

13101 DW Roberts (DWR 2400). Isolated from soil on dodine medium Isolated from soil sample SS 25617. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.457652 W -100.898911.

13102 DW Roberts (DWR 2416). Isolated from soil on dodine medium Isolated from soil sample SS 25186. 13 Sep 2010. USA: Rock County, Nebraska. N 42.724343 W -99.474842.

13103 DW Roberts (DWR 2420). Isolated from soil on dodine medium Isolated from soil sample SS 26410. 8 Sep 2010. USA: Brown County, Nebraska. N 42.360825 W -99.878914.

13104 DW Roberts (DWR 2436). Isolated from soil on dodine medium Isolated from soil sample SS 27760. 21 Apr 2011. N 33.44966 W -111.74258.

13105 DW Roberts (DWR 2438). Isolated from soil on dodine medium Isolated from soil sample SS 26962. 11 May 2011. N 33.29037 W -122.78827.

13106 DW Roberts (DWR 2439). Isolated from soil on dodine medium Isolated from soil sample SS 27008. 13 May 2011. N 33.23119 W -112.77611.

13144 7 Mar 2015.

13149 4 Feb 2015.

13188 DW Roberts (DWR 2432). Isolated from soil on dodine medium Isolated from soil sample SS 27633. . 11 Apr 2011. USA: Maricopa County, Arizona. N 33.66926, W -111.69448.

13189 DW Roberts (DWR 2442). Isolated from soil on dodine medium Isolated from soil sample SS 27026. . 10 May 2011. USA: Maricopa County, Arizona. N 33.31562, W -112.76539.

13190 DW Roberts (DWR 2443). Isolated from soil on dodine medium Isolated from soil sample SS 26881. . 13 May 2011. USA: Maricopa County, Arizona. N 33.29668, W -112.78084.

13191 DW Roberts (DWR 2444). Isolated from soil on dodine medium Isolated from soil sample SS 26869. . 13 May 2011. USA: Maricopa County, Arizona. N 33.29500, W -112.77738.

13192 DW Roberts (DWR 2445). Isolated from soil on dodine medium Isolated from soil sample SS 26854. . 13 May 2011. USA: Maricopa County, Arizona. N 33.25224, W -112.78055.

13193 DW Roberts (DWR 2448). Isolated from soil on dodine medium Isolated from soil sample SS 26946. . 11 May 2011. USA: Maricopa County, Arizona. N 33.29039, W -112.78733.

13194 DW Roberts (DWR 2454). Isolated from soil on dodine medium Isolated from soil sample SS 31016 . 4 Aug 2011. USA: Butte County, Idaho. N 44.2294, W -113.36488.

13195 DW Roberts (DWR 2455). Isolated from soil on dodine medium Isolated from soil sample SS 29976. 21 Jun 2011. USA: Twin Falls county, Idaho. N 45.50442, W -114.30???4.

13196 DW Roberts (DWR 2458). Isolated from soil on dodine medium Isolated from soil sample SS 29972. 6 Jun 2011. USA: Twin Falls county, Idaho.

13197 DW Roberts (DWR 2458). Isolated from soil on dodine medium Isolated from soil sample SS 30001. . 10 Jun 2011. USA: Grant County, North Dakota. N 46.21859, W -101.38003.

13198 DW Roberts (DWR 2460). Isolated from soil on dodine medium Isolated from soil sample SS 28836. 20 Jun 2011. USA: Maricopa County, Arizona. N 34.00026, W -112.71619.

13199 DW Roberts (DWR 2461). Isolated from soil on dodine medium Isolated from soil sample SS 30263. 24 Jun 2011. USA: Sevier County, Utah. N 38.5844, W -112.25.

13200 DW Roberts (DWR 2462). Isolated from soil on dodine medium Isolated from soil sample SS 30178. 29 Jun 2011. USA: Pershing County, Nevada. N 40.92671, W -119.3097.

13201 DW Roberts (DWR 2463). Isolated from soil on dodine medium Isolated from soil sample SS 29443. Summer 2011. USA: Gila County, Arizona. N 33.82818, W -110.97913.

13202 DW Roberts (DWR 2465). Isolated from soil on dodine medium Isolated from soil sample SS 29887. 11 Jun 2011. USA: Jerome county, Idaho. N 42.75307, W -114.52105.

13203 DW Roberts (DWR 2467). Isolated from soil on dodine medium Isolated from soil sample SS 29854. Summer 2011. USA: Cameron county , Texas. N 26.03289, W -97.44227.

13204 DW Roberts (DWR 2468). Isolated from soil on dodine medium Isolated from soil sample SS 30852. 29 Jul 2011. USA: Piute County, Utah. N 38.1626, W -112.3312.

13205 DW Roberts (DWR 2487). Isolated from soil on dodine medium Isolated from soil sample SS 31163. 24 Aug 2011. USA: Ferry County, Washington. N 48.46867, W -118.27071.

13206 DW Roberts (DWR 2488). Isolated from soil on dodine medium Isolated from soil sample SS 31159. 23 Aug 2011. USA: Ferry County, Washington. N 48.87583, W -118.5886.

13207 DW Roberts (DWR 2500). Isolated from soil on dodine medium Isolated from soil sample SS 31886. 1 Oct 2011. USA: Union County, Oregon. N 45.34780, W -117.82940.

13208 DW Roberts (DWR 2501). Isolated from soil on dodine medium Isolated from soil sample SS 31895. 2 Jun 2011. USA: Morrow County, Oregon. N 45.57873, W -119.67625.

13209 DW Roberts (DWR 2502). Isolated from soil on dodine medium Isolated from soil sample SS 32047. 17 Aug 2011. USA: Umatilla County, Oregon. N 45.93661, W -118.69458.

13210 DW Roberts (DWR 2505). Isolated from soil on dodine medium Isolated from soil sample SS 31717. 9 Aug 2011. USA: Harney County, Oregon. N 43.51261, W -119.05978.

13211 DW Roberts (DWR 2507). Isolated from soil on dodine medium Isolated from soil sample SS 29973. 7 Jun 2011. USA: Twin Falls county, Idaho. N 42.56763, W -114.50284.

13212 DW Roberts (DWR 2508). Isolated from soil on dodine medium Isolated from soil sample SS 31942. 1 Jun 2011. USA: Harney County, Oregon. N 43.78597, W -118.32275.

13213 DW Roberts (DWR 2511). Isolated from soil on dodine medium Isolated from soil sample SS 29972. 6 Jun 2011. USA: Twin Falls county, Idaho.

13214 DW Roberts (DWR 2512). Isolated from soil on dodine medium Isolated from soil sample SS 29976. 22 Jun 2011. USA: Twin Falls county, Idaho. N 42.50442, W not recorded.

13215 DW Roberts (DWR 2515). Isolated from soil on dodine medium Isolated from soil sample SS 31879. 1 Oct 2011. USA: Union County, Oregon. N 45.30320, W -117.81280.

13216 DW Roberts (DWR 2541). Isolated from soil on dodine medium Isolated from soil sample SS 32491. 27 Mar 2012. USA: San Juan County, Utah. N 37.31022, W -109.39487.

13217 DW Roberts (DWR 2547). Isolated from soil on dodine medium Isolated from soil sample SS 32224. 25 Aug 2011. USA: Roosevelt county, Montana. N 48.22749, W -104.18851.

13264 [AS Lestari G1LA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13265 [AS Lestari 1 slpA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13266 [AS Lestari GR12LA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13267 [AS Lestari G2LB] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13268 [AS Lestari W11LA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13269 [AS Lestari 2 slpA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13270 [AS Lestari G3LA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13271 [AS Lestari Ge1slpC] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13275 [AS Lestari GR1LB] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13276 [AS Lestari 2 LC] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.

13292 Larva, [Diptera: Culicidae]. 9 Apr 2016. Brazil: RPPN Santa Branca Ecoturism. 16?25'16.14" S 49?06'20.23" W .

13472 [DW Roberts DWR 2547] Isolated from soil sample SS 3222425 Aug 2011. USA: Roosevelt county, Montana. 48.22749, -104.18851.

13473 [DW Roberts DWR 2570] Isolated from soil sample SS 3283624 May 2012. USA: Garden County, Nebraska. 41.49696, -102.16893.

13474 [DW Roberts DWR 2572] Isolated from soil sample SS 3285429 May 2012. USA: McPherson County, Nebraska. 41.40625, -100.88148.

13475 [DW Roberts DWR 2573] Isolated from soil sample SS 3276330 May 2012. USA: Lincoln County, Nebraska. 41.36740, -100.88120.

13476 [DW Roberts DWR 2574] Isolated from soil sample SS 32911 B5 Jun 2012. USA: Hooker County, Nebraska. 42.00554, -101.00255.

13477 [DW Roberts DWR 2575] Isolated from soil sample SS 328885 Jun 2012. USA: Hooker County, Nebraska. 41.79907, -100.99565.

13478 [DW Roberts DWR 2576] Isolated from soil sample SS 3282923 May 2012. USA: Logan County, Nebraska. 41.65682, -100.48302.

13479 [DW Roberts DWR 2577] Isolated from soil sample SS 3282323 May 2012. USA: Thomas County, Nebraska. 41.92413, -100.55022.

13480 [DW Roberts DWR 2578] Isolated from soil sample SS 32844 A24 May 2012. USA: Garden County, Nebraska. 41.57414, -101.98663.

13481 [DW Roberts DWR 2579] Isolated from soil sample SS 3281823 May 2012. USA: Logan County, Nebraska. 41.70354, -100.30963.

13482 [DW Roberts DWR 2580] Isolated from soil sample SS 326685 Jun 2012. USA: Union County, Oregon. 45.39860, -117.99400.

13483 [DW Roberts DWR 2581] Isolated from soil sample SS 329085 Jun 2012. USA: Hooker County, Nebraska. 41.86356, -100.95786.

13484 [DW Roberts DWR 2582] Isolated from soil sample SS 328994 Jun 2012. USA: Thomas County, Nebraska. 41.82192, -100.64603.

13485 [DW Roberts DWR 2583] Isolated from soil sample SS 3285529 May 2012. USA: McPherson County, Nebraska. 41.59300, -100.85734.

13486 [DW Roberts DWR 2584] Isolated from soil sample SS 3276430 May 2012. USA: Lincoln County, Nebraska. 41.28768, -100.77269.

13487 [DW Roberts DWR 2585] Isolated from soil sample SS 32844 B24 May 2012. USA: Garden County, Nebraska. 41.57414, -101.98663.

13488 [DW Roberts DWR 2586] Isolated from soil sample SS 3287830 May 2012. USA: McPherson County, Nebraska. 41.41016, -101.17580.

13489 [DW Roberts DWR 2587] Isolated from soil sample SS 3271430 May 2012. USA: Garfield County, Utah. 41.87740, -98.93767.

13490 [DW Roberts DWR 2589] Isolated from soil sample SS 329135 Jun 2012. USA: Hooker County, Nebraska. 42.03641, -101.36310.

13491 [DW Roberts DWR 2589] Isolated from soil sample SS 3280017 May 2012. USA: Chase County, Nebraska. 40.57515, -101.59027.

13492 [DW Roberts DWR 2591] Isolated from soil sample SS 3390831 May 2012. USA: Banner County, Nebraska. 41.48029, -103.77370.

13493 [DW Roberts DWR 2592] Isolated from soil sample SS 339164 Jun 2012. USA: Sheridan County, Nebraska. 42.33674, -102.08189.

13494 [DW Roberts DWR 2593] Isolated from soil sample SS 3420923 May 2012. USA: Morrill County, Nebraska. 41.65219, -102.85937.

13495 [DW Roberts DWR 2594] Isolated from soil sample SS 3421729 May 2012. USA: Morrill County, Nebraska. 41.87190, -102.90713.

13496 [DW Roberts DWR 2595] Isolated from soil sample SS 3284424 May 2012. USA: Garden County, Nebraska. 41.57414, -101.98663.

13497 [DW Roberts DWR 2596] Isolated from soil sample SS 3422029 May 2012. USA: Morrill County, Nebraska. 41.92961, -102.72812.

13498 [DW Roberts DWR 2597] Isolated from soil sample SS 3427319 May 2012. USA: Sioux County, Nebraska. 42.39998, -103.81581.

13499 [DW Roberts DWR 2598] Isolated from soil sample SS 3425029 May 2012. USA: Box Butte County, Nebraska. 42.08616, -103.09253.

13500 [DW Roberts DWR 2599] Isolated from soil sample SS 3404819 Jun 2012. USA: Sioux County, Nebraska. 42.59569, -103.89396.

13501 [DW Roberts DWR 2600] Isolated from soil sample SS 3422112 Jun 2012. USA: Dawes County, Nebraska. 42.49895, -103.06712.

13502 [DW Roberts DWR 2602] Isolated from soil sample SS 338975 Jul 2012. USA: Box Butte County, Nebraska. 42.00329, -103.38252.

13503 [DW Roberts DWR 2604] Isolated from soil sample SS 3424522 May 2012. USA: Morrill County, Nebraska. 41.49739, -103.29428.

13504 [DW Roberts DWR 2605] Isolated from soil sample SS 3424322 May 2012. USA: Cheyenne County, Nebraska. 41.11711, -103.31914.

13505 [DW Roberts DWR 2608] Isolated from soil sample SS 34249 A29 May 2012. USA: Morrill County, Nebraska. 41.94701, -102.80552.

13607 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13623 Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13629 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13684 [M Burjanadze MB-023] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13685 [M Burjanadze MB-024] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13701 [M Burjanadze MB-041] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13702 [M Burjanadze MB-043] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in

the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13709 [M Burjanadze MB-050] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13716 [M Burjanadze MB-060] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13728 [M Burjanadze MB-072] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13730 [M Burjanadze MB-074] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13731 [M Burjanadze MB-075] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13760 [ST Jaronski PDF 1701] *Oropsylla hirusta* [Siphonaptera: Ceratophyllidae] Cynomys lucovicanus (black tailed prairie dog). Rec'd 17 Sep 2018. USA: Wall, Pennington County, South Dakota. Collected August 2017.

13761 [ST Jaronski PDF 1702] *Oropsylla hirusta* [Siphonaptera: Ceratophyllidae] Cynomys lucovicanus (black tailed prairie dog). Rec'd 17 Sep 2018. USA: Wall, Pennington County, South Dakota. Collected August 2017.

13762 [ST Jaronski PDF 1703] *Oropsylla hirusta* [Siphonaptera: Ceratophyllidae] Cynomys lucovicanus (black tailed prairie dog). Rec'd 17 Sep 2018. USA: Wall, Pennington County, South Dakota. Collected August 2017.

13763 [ST Jaronski PDF 1704] *Oropsylla hirusta* [Siphonaptera: Ceratophyllidae] Cynomys lucovicanus (black tailed prairie dog). Rec'd 17 Sep 2018. USA: Wall, Pennington County, South Dakota. Collected August 2017.

13764 [ST Jaronski PDF 1705] *Oropsylla hirusta* [Siphonaptera: Ceratophyllidae] Cynomys lucovicanus (black tailed prairie dog). Rec'd 17 Sep 2018. USA: Wall, Pennington County, South Dakota. Collected August 2017.

13979 DW Roberts (DWR 2068). Isolated from soil sample using selective media Isolated from soil sample SS 20090. 23 Jun 2010. USA: Okanogan County, Washington. also frozen as ARSEF 12642 N 48.19967 W -120.11118.

13980 DW Roberts (DWR 2150). Isolated from soil sample using selective media Isolated from soil sample 22253. 27 Jul 2010. USA: Morrill County, Nebraska. also ARSEF 13095. N 41.973512 W -103.341325.

13981 DW Roberts (DWR 2292). Isolated from soil sample using selective media Isolated from soil sample 25936. 16 Aug 2010. USA: Sioux County, Nebraska. N 42.331099 W -103.45405.

13982 DW Roberts (DWR 2308). Isolated from soil sample using selective media Isolated from soil sample 25471. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.217718 W -101.21248.

13983 DW Roberts (DWR 2434). Isolated from soil sample using selective media Isolated from soil sample 27635. 19 Apr 2011. USA: Maricopa County, Arizona. N 33.67102 W -111.68841.

13984 DW Roberts (DWR 2435). Isolated from soil sample using selective media Isolated from soil sample 26867. 13 May 2011. USA: Maricopa County, Arizona. N 33.27172 W -112.80194.

13985 DW Roberts (DWR 2437). Isolated from soil sample using selective media Isolated from soil sample 26877. 13 May 2011. USA: Maricopa County, Arizona. N 33.29042 W -112.78077.

13986 DW Roberts (DWR 2440). Isolated from soil sample using selective media Isolated from soil sample 27647. 19 Apr 2011. USA: Maricopa County, Arizona. N 33.66811 W -111.69469.

13987 DW Roberts (DWR 2441). Isolated from soil sample using selective media Isolated from soil sample 26961. 11 May 2011. USA: Maricopa County, Arizona. N 33.29033 W -112.78144.

13988 DW Roberts (DWR 2446). Isolated from soil sample using selective media Isolated from soil sample 26852. 13 May 2011. USA: Maricopa County, Arizona. N 33.25314 W -112.78165.

13989 DW Roberts (DWR 2447). Isolated from soil sample using selective media Isolated from soil sample 26875. 13 May 2011. USA: Maricopa County, Arizona. N 33.29036 W -112.78023.

13990 DW Roberts (DWR 2449). Isolated from soil sample using selective media Isolated from soil sample 27636. 19 Apr 2011. USA: Maricopa County, Arizona. N 33.66985 W -111.69421.

13991 DW Roberts (DWR 2450). Isolated from soil sample using selective media Isolated from soil sample 27588. 22 Apr 2011. USA: Yuma County, Arizona. N 32.72185 W -114.56441.

13992 DW Roberts (DWR 2451). Isolated from soil sample using selective media Isolated from soil sample 27410. 19 Apr 2011. USA: Maricopa County, Arizona. N 33.67029 W -111.69328.

13993 DW Roberts (DWR 2453). Isolated from soil sample using selective media Isolated from soil sample 26842. 13 May 2011. USA: Maricopa County, Arizona. N 33.25818 W -112.78474.

13994 DW Roberts (DWR 2514). Isolated from soil sample using selective media Isolated from soil sample 29864. 3 Aug 2011. USA: Cameron county , Texas. N 26.16229 W -97.35158.

13995 DW Roberts (DWR 2571). Isolated from soil sample using selective media Isolated from soil sample 32741. 22 May 2012. USA: Lincoln County, Nebraska. N 40.78694 W -100.94393.

13996 DW Roberts (DWR 2590). Isolated from soil sample using selective media Isolated from soil sample 32911 A. 5 Jun 2012. USA: Hooker County, Nebraska. N 42.00554 W -101.00255.

13997 DW Roberts (DWR 2601). Isolated from soil sample using selective media Isolated from soil sample 34263. 11 Jun 2012. USA: Scotts Bluff County, Nebraska. N 41.77731 W -103.80069.

13998 DW Roberts (DWR 2603). Isolated from soil sample using selective media Isolated from soil sample 34032. 18 Jun 2012. USA: Sioux County, Nebraska. N 42.35431 W -103.62071.

13999 DW Roberts (DWR 2606). Isolated from soil sample using selective media Isolated from soil sample 34249 B. 29 May 2012. USA: Morrill County, Nebraska. N 41.94701 W -102.80552.

14000 DW Roberts (DWR 2607). Isolated from soil sample using selective media Isolated from soil sample 34893. 21 Aug 2012. USA: Columbia County, Washington. N 46.51230 W -117.97169.

Metarhizium acridum (Driver & Milner) JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *Metarhizium anisopliae* var. *acridum*. Isolates are all genomically confirmed (Bischoff et al. 2009).

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324 [CSIRO FI48] RS Soper ← R Teakle (M-100). *Austracris guttulosa* [Orthoptera: Acrididae]. Feb 1979. Australia: Queensland.

3341 [IMI 330189] C Prior. *Ornithacris cavroisi* [Orthoptera: Acrididae]. Rec'd 17 Jun 1991. Niger: ICRISAT, nr. Niamey. Single spore isolate.

3391 [FI 1028; IIBC I88-377; IIBC 188-377 ; IMI 324673] *Zonocerus elegans* [Orthoptera: Pyrgomorphidae]. Rec'd 17 Sep 1991. Tanzania.

3609 IMI (I91-614). *Patanga succincta* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Thailand.

3612 IMI (I91-646). *Kraussaria angulifera* [Orthoptera: Acrididae: Cyrtacanthacridinae]. Rec'd 26 Feb 1992. Benin.

3615 IMI (I91-672). *Zonocerus variegatus* [Orthoptera: Pyrgomorphidae]. Rec'd 26 Feb 1992. Guinea-Bissau.

3616 IMI (I91-673). *Diabolocatantops axillaris* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Tchad.

3618 IMI (I91-675). *Zonocerus variegatus* [Orthoptera: Pyrgomorphidae]. Rec'd 26 Feb 1992. Mali.

4605 [DAT 505] AC Rath (F505). *Austracris guttulosa* [Orthoptera: Acrididae]. 29 Sep 1993. Australia: Queensland.

5735 ST Jaronski (SP5). [Orthoptera: Acrididae]. Rec'd 12 Jun 1998. Madagascar.

5736 ST Jaronski (SP9). *Locusta migratoria capito* [Orthoptera: Acrididae]. 1993. Madagascar.

5747 MCHCA Bernal (MaPL14). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.

5748 MCHCA Bernal (MaPL32). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.

5750 MCHCA Bernal (MaPL39). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1995. Mexico: Isla Socorro, Colima.

6421 A Niassy (DPV-1, Khelkom KAN). *Kraussaria angulifera* [Orthoptera: Acrididae: Cyrtacanthacridinae]. Rec'd 7 Dec 1999. Senegal: Khelcom, District of Kaffrine, Region of Kaolack.

6592 [IITA 188] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: Koda, Tchaourou, Borgou.

6597 [IITA 193] A Cherry. From soil. Rec'd 18 Sep 2000. Benin: Itadjebou, Ouémé.

6598 [IITA 194] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: Zinvié, Atlantique.

6600 [IITA 196] A Cherry. Rec'd 18 Sep 2000. Benin: Diho, Save, Zou.

6851 GUL Braga and DW Roberts (DWR 158). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 3341 following UV-B exposure.

6852 GUL Braga and DW Roberts (DWR 159). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6853 GUL Braga and DW Roberts (DWR 160). 6 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 3341 following UV-B exposure.

6854 GUL Braga and DW Roberts (DWR 161). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6855 GUL Braga and DW Roberts (DWR 162). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6856 GUL Braga and DW Roberts (DWR 163). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6857 GUL Braga and DW Roberts (DWR 164). 14 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6858 GUL Braga and DW Roberts (DWR 165). 8 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

6859 GUL Braga and DW Roberts (DWR 166). 7 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 3341 following UV-B exposure.

7486 [CSIRO FI-0987] IMI (330189). *Ornithacris cavroisi* [Orthoptera: Acrididae]. 29 Aug 1992. Niger. CULTURE EX TYPE used by Driver et al. (2000) to describe *M. anisopliae* var. *acridum*.

8609 [CSIRO FI-0897] Adult, [Orthoptera: Acrididae]. 20 Mar 1992. Australia: Honeysuckle Creek, Tharwa, Australian Capital Territory.

Metarhizium album Petch
[Sordariomycetes: Hypocreales]
Clavicipitaceae

1840 MC Rombach. *Nephotettix virescens* [Hemiptera: Cicadellidae]. Acc'd 29 Jan 1985. Philippines: IRRI, Los Baños, Manila. Genomically verified by at least 5'-TEF sequence data.

1941 MC Rombach (MPAL) ← DJ Im. *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. Jul 1985. Philippines: Roxas, Palawan. Genomically verified by at least 5'-TEF sequence data.

1942 MC Rombach (MLAG). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. Nov 1984. Philippines: Laguna. Genomically verified by at least 5'-TEF sequence data.

1943 MC Rombach (MLAGwhite). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. Nov 1984. Philippines: Laguna. Genomically verified by at least 5'-TEF sequence data.

1944 MC Rombach (MPALwhite) ← DJ Im. *Nephotettix virescens* [Hemiptera: Cicadellidae]. Jul 1985. Philippines: Roxas, Palawan.

2081 MC Rombach ← HC Evans (I85-87) ← MJ Coch. [Hemiptera: Cicadellidae] on mango. Dec 1985. Philippines: Tuguegarao, Cagayan.

2082 [IMI 300150] MC Rombach ← HC Evans (I85-12). *Cofana spectra* [Hemiptera: Cicadellidae] on rice. Mar 1985. Indonesia: Kotamobagu, Sulawesi Utara, Celebes. Genomically verified by at least 5'-TEF sequence data.

2176 MC Rombach (130586-17). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte. Genomically verified by at least 5'-TEF sequence data.

2178 MC Rombach (130586-19). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte. Genomically verified by at least 5'-TEF sequence data.

2179 MC Rombach (130586-20). *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte. Genomically verified by at least 5'-TEF sequence data.

2222 MC Rombach (070786-17). *Nephotettix virescens* [Hemiptera: Cicadellidae]. 7 Jul 1986. Philippines: Misamis Oriental.

2229 MC Rombach (070786-1). *Nephotettix virescens* [Hemiptera: Cicadellidae]. 29 Jul 1986. Location not specified.

Metarhizium alvesii R.B. Lopes, M. Faria, C. Montalva & R.A. Humber
[Sordariomycetes: Hypocreales]

13308 [MR Faria CG1123] Rec'd 1 Mar 2017.

Metarhizium anisopliae (Metschnikoff) Sorokin
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Strains included here have not been reconfirmed geonomically to belong to *Metarhizium anisopliae* in the classification of Bischoff et al. (2009).

9354 [ERL 1053] M Brownbridge (CA-171) and S Gouli. Isolated from soil sample. 2002. USA: California.

9487 [SRCAMB VL-1757] V Likhovidov. [Diptera]. 27 Aug 2005. Ukraine: Autonomous Republic of Crimea. Field Collection Number F-737.

9488 [SRCAMB AS-464] V Likhovidov. Isolated from soil sample. 19 May 2004. Ukraine: Askania-Nova Reserve, Kherson Oblast. Field Collection Number F-748.

12857 [IP 421] Larva, 28 Jun 2014. RPPN SB, near Ecotourism. **RESTRICTED ACCESS:** *contact Curator*.

***Metarhizium anisopliae* sensu lato** (Metschnikoff) Sorokin
[Sordariomycetes: Sordariomycetes]
Clavicipitaceae. These isolates were identified morphologically and have not yet been reidentified under the genomic classification of Bischoff et al. (2009).

347 *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Australia: Adelaide, South Australia.

435 [CSIRO FI53] SJ Gagen (1). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Warnambool, Victoria.

438 [CSIRO FI54] SJ Gagen (4). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia.

440 SJ Gagen (6). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Warnambool, Victoria.

441 SJ Gagen (7). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Warnambool, Victoria.

442 SJ Gagen (8). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Hawkesdale, Victoria.

445 SJ Gagen (11). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Carapook, Victoria.

457 [QEC 412.0] RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

485 [QEC 413.0] RS Soper (NT-21). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

486 [QEC 414.0] RS Soper (NT-25). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

487 [QEC 415.0] RS Soper (NT-20). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

488 [QEC 416.0] RS Soper (NT-24). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

489 [QEC 417.0] RS Soper (NT-22). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

543 DW Roberts (81280). *Recilia dorsalis* [Hemiptera: Cicadellidae]. 12 Aug 1980. Philippines: greenhouse, IRRI, Los Baños, Manila.

549 [QEC 418.0] DW Roberts. Metabiol. Nov 1980. Brazil.

550 [QEC 419.0] DW Roberts. Metabiol. Nov 1980. Brazil.

551 [QEC 420.0] DW Roberts. Metabiol. Nov 1980. Brazil.

586 [QEC 430.0] JM Lenné (C2). Soil. Rec'd 13 Apr 1981. Colombia: Carimagua.

589 [QEC 432.0] JM Lenné (P1). Soil. Rec'd 13 Apr 1981. Colombia: Popayán, Cauca.

725 [CNPAF 82-1-6-02; CP 8] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.

726 [CNPAF 82-1-6-05; CP 11] RA Daoust. [Coleoptera: Bruchidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.

728 [CNPAF 82-2-3-02; CP 22] RA Daoust. [Orthoptera]. 3 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

729 [CNPAF 82-2-15-02; CP 24] RA Daoust. *Deois flavopicta* [Hemiptera: Cercopidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

759 [CNPAF 82-4-1-01; CP 37] RA Daoust. *Deois flavopicta* [Hemiptera: Cercopidae]. 1 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.

760 [CNPAF 82-2-15-03; CP 31] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

761 [CNPAF 82-2-15-06; CP 30] RA Daoust. *Piezodorus guildini* [Hemiptera: Pentatomidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

782 [CNPAF 82-5-4-01; CP 52] RA Daoust ← SM dos Santos. *Deois flavopicta* [Hemiptera: Cercopidae]. 4 May 1982. Brazil: CNPAF, Goiânia, Goiás.

808 [CNPAF 82-7-23-01; CP 62] RA Daoust ← SM dos Santos. *Coleomegilla maculata* [Coleoptera: Coccinellidae]. 23 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.

818 GG Soares (19). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.

844 DW Roberts ← B Schaerffenberg (Ma16). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

845 DW Roberts ← B Schaerffenberg (Ma13). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

846 DW Roberts ← B Schaerffenberg (Ma18). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

847 DW Roberts ← B Schaerffenberg (Ma1). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

848 DW Roberts ← B Schaerffenberg (Ma17). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

849 DW Roberts ← B Schaerffenberg (Ma8). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

850 DW Roberts ← B Schaerffenberg (Ma15). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

851 DW Roberts ← B Schaerffenberg (Ma10). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

852 DW Roberts ← B Schaerffenberg (Ma6). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

853 DW Roberts ← B Schaerffenberg (Ma11). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

854 DW Roberts ← B Schaerffenberg (Ma14). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

855 DW Roberts ← B Schaerffenberg (Ma5). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

856 DW Roberts ← B Schaerffenberg (Ma12). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

857 DW Roberts ← B Schaerffenberg (Ma9). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

858 DW Roberts ← B Schaerffenberg (Ma19). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

859 DW Roberts ← B Schaerffenberg (Ma4). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

860 DW Roberts ← B Schaerffenberg (Ma7). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

861 DW Roberts ← B Schaerffenberg (Ma20). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

862 DW Roberts ← B Schaerffenberg (Ma2). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

863 DW Roberts ← B Schaerffenberg (Ma3). Single spore isolation. Rec'd Spring 1983. Laboratory manipulation.

864 DW Roberts (Ma Teetor S2 SS#19) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

865 DW Roberts (Ma Teetor S2 SS#20) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

866 DW Roberts (Ma Teetor S2 SS#22) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

867 DW Roberts (Ma Teetor S2 SS#18) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

868 DW Roberts (Ma Teetor S2 SS#16) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

869 DW Roberts (Ma Teetor S2 SS#17) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

870 DW Roberts (Ma Teetor S2 SS#15) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

871 DW Roberts (Ma Teetor S2 SS#21) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Rec'd May 1983. Laboratory manipulation.

872 [ARSEF 888 (deaccessioned); QEC 408.0] DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.

873 DW Roberts (Ma Teetor S2 SS#4) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.

874 DW Roberts (Ma Teetor S2 SS#2) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.

875 DW Roberts (Ma Teetor S2 SS#1) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 7 Jun 1983. Laboratory manipulation.

888 [ARSEF 872; QEC 408.0] DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd 22 Jul 1983. Laboratory manipulation.

889 DW Roberts (Ma Teetor S2 SS#9) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

890 DW Roberts (Ma Teetor S2 SS#8) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

891 DW Roberts (Ma Teetor S2 SS#7) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

892 DW Roberts (Ma Teetor S2 SS#6) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

893 DW Roberts (Ma Teetor S2 SS#3) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

894 DW Roberts (Ma Teetor S2 SS#14) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

895 DW Roberts (Ma Teetor S2 SS#13) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

896 DW Roberts (Ma Teetor S2 SS#12) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

897 DW Roberts (Ma Teetor S2 SS#11) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

898 DW Roberts (Ma Teetor S2 SS#10) ← G Teetor-Barsch. Single spore reisolate of ARSEF 23 passed through an insect. Acc'd Jun 1983. Laboratory manipulation.

901 DW Roberts (VSS#6). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.

902 DW Roberts (VSS#5). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.

903 DW Roberts (VSS#4). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.

904 DW Roberts (VSS#3). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.

905 DW Roberts (VSS#2). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.

906 DW Roberts (VSS#1). Single spore isolation. Acc'd 24 Jun 1983. Laboratory manipulation.

907 [QEC 421.0] K Al-Aidroos (DIII 3B Bes 48 (recombinant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 25 Jun 1983. Laboratory manipulation.

908 K Al-Aidroos (S7N5 (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.

909 [QEC 408.1] K Al-Aidroos (5.173 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.

910 [QEC 423.0] K Al-Aidroos (D95A Bes 140 (recombinant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.

911 [QEC 424.0] K Al-Aidroos (19-1a5 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 8 Jul 1983. Laboratory manipulation.

912 [QEC 425.0] K Al-Aidroos (D198A) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.

913 [QEC 426.0] K Al-Aidroos (D95A (diploid, recombinant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.

921 [QEC 422.1] K Al-Aidroos (42.2a9 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.

922 K Al-Aidroos (5.281 (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 22 Jul 1983. Laboratory manipulation.

925 [ATCC 60335; EPABA E-9(ESMC); QEC 409.0] DW Roberts ← J Ventura. *Deois flavopicta* [Hemiptera: Cercopidae]. 22 Aug 1978. Brazil: Espírito Santo.

929 [CNPAF 82-12-15-01; CP 67] RA Daoust ← SM dos Santos. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.

932 [CNPAF 82-12-20-02; CP 70] RA Daoust. [Coleoptera: Bruchidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.

939 [CNPAF 83-3-3-03; CP 78] RA Daoust ← SM dos Santos. [Coleoptera: Carabidae]. 3 Mar 1983. Brazil: CNPAF, Goiânia, Goiás.

940 [CNPAF 83-03-16A; CP 79] RA Daoust and BP Magalhães. [Dictyoptera: Blattidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.

954 [CNPAF 83-03-16L; CP 99] RA Daoust and BP Magalhães. [Coleoptera: Bruchidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.

955 [CNPAF 83-4-27; CP 100] RA Daoust ← SM dos Santos. *Deois flavopicta* [Hemiptera: Cercopidae]. 27 Apr 1983. Brazil: CNPAF, Goiânia, Goiás.

960 K Al-Aidroos (DIII 3B (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 26 Aug 1983. Laboratory manipulation.

965 K Al-Aidroos (5.378 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.

966 K Al-Aidroos (19.1 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.

967 K Al-Aidroos (5.287 (EMS mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.

968 K Al-Aidroos (DIII 3A (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 17 Oct 1983. Laboratory manipulation.

1022 K Al-Aidroos (5.304 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.

1023 K Al-Aidroos (JX1.23C (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.

1024 K Al-Aidroos (JX1.23A (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.

1025 K Al-Aidroos (42.2 (EMS mutant of 5.42)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 12 Dec 1983. Laboratory manipulation.

1055 [CNPS 19] F Moscardi. *Nezara viridula* [Hemiptera: Pentatomidae]. 1983. Brazil: Londrina, Paraná.

1056 [CNPS 25] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.

1059 [CNPS 39C] F Moscardi. Larva, *Chlosyne lacinia saundersii* [Lepidoptera: Nymphalidae]. 1983. Brazil: Londrina, Paraná.

1078 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae]. Western Samoa: Upolu Island.

1083 K Al-Aidroos (5A.11 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1084 K Al-Aidroos (5A.7 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1085 K Al-Aidroos (5A.1 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1086 K Al-Aidroos (5A.10 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1087 K Al-Aidroos (5A (UV irradiated mutant of 5)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1088 K Al-Aidroos (5A.12 (EMS mutant of 5A)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1089 K Al-Aidroos (JXIV.245 (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1090 K Al-Aidroos (KIIVA (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1091 K Al-Aidroos (JIIXIV (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1094 DW Roberts ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). [Lepidoptera]. Acc'd 16 Feb 1984. Laboratory manipulation.

1097 K Al-Aidroos (JIVD (mutant)) ← DW Roberts (Ma Teetor S2 SS#5) ← G Teetor-Barsch (F84-1-1) ← ARSEF (23). Single spore isolation. Acc'd 16 Feb 1984. Laboratory manipulation.

1280 DW Roberts (MaT3JB-C) or (single spore isolate #1). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.

1281 DW Roberts. Chemical mutant of Roberts # F84←ARSEF 23. Acc'd 3 May 1984. Laboratory manipulation.

1282 K El-kadi (CEPLAC-ICI). [Hemiptera: Cercopidae]. Acc'd 3 May 1984. Brazil: Bahia.

1284 [QEC 434.0] DW Roberts (BPH-12). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1285 [QEC 435.0] DW Roberts (BPH-13). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1286 [QEC 436.0] DW Roberts (BPH-4). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1290 [QEC 437.0] DW Roberts (BPH-11). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1299 [ARSEF 1045; EPABA A-24] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Aug 1978. Brazil: Bahia.

1300 [QEC 438.0] DW Roberts (VIII). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.

1304 [QEC 439.0] DW Roberts (D). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1373 S Keller (44). Acc'd 21 Jun 1984. Switzerland.

1374 S Keller (45). Acc'd 21 Jun 1984. Switzerland.

1375 S Keller (46). Acc'd 21 Jun 1984. Switzerland.

1376 S Keller (47). Acc'd 21 Jun 1984. Switzerland.

1377 [ARSEF ?396] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.

1378 Acc'd 26 Jun 1984. Location not specified.

1379 [EPABA A-12] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. 22 Aug 1978. Brazil: Bahia.

1380 Acc'd 26 Jun 1984. Location not specified.

1381 [EPABA A-22] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Location not specified.

1382 [EPABA A-10] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. 22 Aug 1978. Brazil: Bahia.

1386 Acc'd 5 Jul 1984. Location not specified.

1387 Acc'd 5 Jul 1984. Location not specified.

1388 Acc'd 5 Jul 1984. Location not specified.

1432 MC Rombach (B). *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 14 Apr 1984. Philippines: Maasin, Palawan.

1449 [CNPAF 84-1-26; CP 123] BP Magalhães. *Deois incompleta* [Hemiptera: Cercopidae]. 26 Jan 1984. Brazil: Altamira, Pará.

1452 [ARSEF 1989; CNPAF 53; CP 126] F Moscardi. *Sternechus subsignatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Soybean Center, Londrina, Paraná.

1490 [INRA Ma-127] GG Soares ← P Ferron ← DW Roberts. Acc'd 21 Aug 1984. Location not specified.

1548 MC Rombach (Ma Pal.I). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. May 1984. Philippines: nr. PNAC Station, Arbor Lan, Palawan.

1745 DW Roberts (291016) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1882 [CP 171] DW Roberts ← C Czepak. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 3 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.

1885 [CP 174] DW Roberts ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 23 Apr 1985. Brazil: CNPAF, Goiânia, Goiás.

1890 DW Roberts ← RA Daoust (ZcG3). [Hemiptera: Cercopidae]. Jan 1980. Brazil: Pará.

1891 DW Roberts ← MA Naves (460(88)). [Hemiptera: Cercopidae]. Jan 1980. Brazil: Pará.

1892 DW Roberts ← RA Daoust (Eq-ESMC-CsI). *Deois flavopicta* [Homoptera: Cercopidae] isolate (Daoust # E-9) passed through *Culex quinquefasciatus* [Diptera: Culicidae]. Acc'd 6 Jun 1985. Laboratory manipulation.

1895 DW Roberts ← RA Daoust (ZcG1). [Hemiptera: Cercopidae]. Jan 1980. Brazil: Pará.

1896 [EPABA A-8(BAMC)] DW Roberts ← E Matta. *Mahanarva posticata* [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.

1899 [EPABA A-23] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil.

1901 DW Roberts ← MA Naves (CG-6). [Coleoptera: Carabidae]. Jan 1980. Brazil: Pará.

1902 DW Roberts ← RA Daoust (ZcG4). [Hemiptera: Cercopidae]. Jan 1980. Brazil.

1903 DW Roberts (103a). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA.

1911 [EPABA A-2] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil.

1958 [CNPAF 85-7-24-1; CP 184] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.

1970 [CNPAF 82-12-01; CP 170] C Czepak. *Deois flavopicta* [Hemiptera: Cercopidae]. 1 Dec 1984. Brazil: CNPAF, Goiânia, Goiás.

1989 [ARSEF 1452 (deaccessioned); CNPAF 53; CP 126] F Moscardi. *Sternechus subsignatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Soybean Center, Londrina, Paraná.

2076 [CP 194] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.

2077 [CP 195] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.

2105 DG Holdom (130286-3). *?Hydrellia* sp. [Diptera: Ephydridae]. 13 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.

2135 T Searle (F). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.

2136 T Searle (K). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada.

2137 T Searle (Q). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.

2138 T Searle (W). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.

2139 T Searle (Z). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Aug 1985. Canada: Southern Québec.

2156 BN Muthappa (PNG 12711). Adult, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2163 BN Muthappa (PNG 12722). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2165 BN Muthappa (PNG 12724). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2166 BN Muthappa (PNG 12726). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2167 BN Muthappa (PNG 12727). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2211 [CNPAF 86-06-02-3; CP 207] DW Roberts ← JFS Martins. Soil. 2 Jun 1986. Brazil: Campinas, São Paulo.

2212 [CNPAF 86-06-05-9; CP 208] DW Roberts ← PMOJ Neves. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

2213 [CNPAF 86-06-05-8; CP 209] DW Roberts ← O Sales. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

2214 [CNPAF 86-06-05-7; CP 210] DW Roberts ← JFS Martins. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

2230 MC Rombach (220786-1). 22 Jul 1986. Location not specified.

2331 PI Espinosa Camarena. *Rhynchophorus palmarum* [Coleoptera: Curculionidae]. 1986. Mexico: Zapotlanejo, Jalisco.

2341 [ARSEF 2381 (never frozen), 2383 (never frozen)] MC Rombach (120286-2). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

2342 [ARSEF 2384 (never frozen)] MC Rombach (120286-3). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

2343 [ARSEF 2385 (never frozen)] MC Rombach (120286-4). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

2382 [ARSEF 2353] MC Rombach (201286-4). [Hemiptera: Cicadellidae]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.

2383 [ARSEF 2341, 2381 (never frozen)] MC Rombach (120286-2). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

2384 [ARSEF 2342] MC Rombach (120286-3). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

2385 [ARSEF 2343] MC Rombach (120286-4). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

2424 DG Holdom (080287-1). Larva, [Lepidoptera]. 8 Feb 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.

2432 F Agudelo-Silva (20S87). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae] on cranberries. 1987. USA: Oregon.

2510 [CP 218] SM dos Santos. *Atta* sp. [Hymenoptera: Formicidae]. 29 Apr 1987. Brazil: CNPAF, Goiânia, Goiás.

2513 [CP 236A] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.

2521 [CP 225] F Moscardi. *Deois* sp. [Hemiptera: Cercopidae]. 1983. Brazil: CNPS, Londrina, Paraná.

2548 SV Krueger ← FL Consolie and MG Villani. *Popillia japonica* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Sleepy Hollow, New York.

2574 Acc'd 11 Jul 1988. Location not specified.

2628 [CNPAF Pl-88; CP 243] DW Roberts ← Planalsucar. 23 May 1988. Brazil: Carpina, Pernambuco.

2634 [CNPAF D4; CP 251] DW Roberts ← Dep. Genetica da ESALQ. Mutant of E9 ESMC parent. Rec'd 23 Nov 1988. Brazil: Piracicaba, São Paulo.

2635 [CNPAF 88-5-6B; CP 253] DW Roberts ← E Dias Quintela. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.

2805 GW Riethmacher (B13m). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 11 Apr 1989. Philippines: Atok, Benguet.

2806 GW Riethmacher (B14m). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 4 May 1989. Philippines: Atok, Benguet.

2941 [CP 272] SP Wraight ← DR Sosa-Gómez. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.

2949 [CP 277] SP Wraight ← CA da Silva, EC de Moura, GS de Sá and SM dos Santos. [Isoptera]. 19 Jan 1989. Brazil: CNPAF, Goiânia, Goiás.

2951 [CP 285] SP Wraight ← C Czepak. [Isoptera]. 9 Nov 1989. Brazil: CNPAF, Goiânia, Goiás.

3057 [MAF F12] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.

3127 [IMI 168777ii] C Prior ← M Tulloch. *Schistocerca gregaria* [Orthoptera: Acrididae]. 1974. Laboratory manipulation.

3146 INRA (Ma-70). *Anagyrus* sp. [Hymenoptera: Encyrtidae]. Aug 1972. Mexico.

3147 INRA (Ma-152) ← G Riba. [Hemiptera: Cercopidae]. Dec 1981. Brazil.

3148 INRA (Ma-181) ← A Caudal. *Haphochelus marginalis* [Coleoptera]. May 1983. France: Réunion.

3190 GW Riethmacher (B44a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 17 May 1990. Philippines: La Trinidad, Benguet.

3194 GW Riethmacher (B47a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 6 Jun 1990. Philippines: Villiasis, Pangasinan.

3196 GW Riethmacher (B48). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 13 Jun 1990. Philippines: Baguin City, Benguet.

3290 J Gutierrez Samperio (6) ← ERD Reyes. *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. 1988. Mexico: Colima.

3291 J Gutierrez Samperio (7) ← ERD Reyes. *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. 1987. Mexico: Colima.

3292 J Gutierrez Samperio (8) ← ERD Reyes. *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. 1987. Mexico: Colima.

3293 J Gutierrez Samperio (9) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1988. Mexico: Colima.

3305 J Gutierrez Samperio (21) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.

3306 J Gutierrez Samperio (22) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.

3307 J Gutierrez Samperio (23) ← ERD Reyes. [Hemiptera: Cercopidae] on sugar cane. 1990. Mexico: Colima.

3308 J Gutierrez Samperio (24) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.

3329 DW Roberts ← AS Martins (A-1). 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Spring 1988. Portugal: Terceira Island, Azores.

3330 SV Krueger (MaJB1). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3331 SV Krueger (MaJB2). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3332 SV Krueger (MaJB3). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3333 SV Krueger (MaJB6). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3334 SV Krueger (MaJB7). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3335 SV Krueger (MaJB8). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3336 SV Krueger (MaJB9). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3337 SV Krueger (MaJB10). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3338 SV Krueger (MaJB11). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3339 SV Krueger (MaJB12). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3340 SV Krueger (MaJB13). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3389 I Majchrowicz (T-11-4). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on apple. 16 Jul 1991. USA: Seto Farm, Granger, Washington.

3479 CENARGEN (CG 339). [Coleoptera: Scarabaeidae]. 1991. Brazil: Brasília, Distrito Federal.

3541 M Brownbridge (B-5). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 27 Nov 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.

3542 M Brownbridge (B-18). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 27 Nov 1991. USA: Ralph's sugar maple stand, Warren, Vermont.

3544 M Brownbridge (B-35). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 19 Nov 1991. USA: Ralph's sugar maple stand, Warren, Vermont.

3565 M Brownbridge (B-36). Rec'd 10 Jan 1992. Location not specified.

3619 IMI (I91-676). *Oxya multidentata* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Pakistan.

3713 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.

3720 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 20 May 1991. USA: Windsor, Connecticut.

3822 [ARSEF 2153] N Underwood (ARSEF2153). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 8 Jan 1993. Laboratory manipulation.

3827 CF Andrade (IF#1). Larva, *Ochlerotatus triseriatus* [Diptera: Culicidae]. 11 May 1992. USA: Stair Park, Vestal, New York.

3918 DR Sosa-Gómez (CNPSo-MA2). Soil. 10 Nov 1989. Brazil: Mauá, Paraná.

3919 DR Sosa-Gómez (CNPSo-Ma3). Soil. 10 Nov 1989. Brazil: Mauá, Paraná.

3920 DR Sosa-Gómez (CNPSo-Ma4). Soil. 10 Nov 1989. Brazil: Mauá, Paraná.

3930 DR Sosa-Gómez (CNPSo-Bb49). Host not specified. Rec'd Jun 1993. Location not specified. Reisolate of either ARSEF 944 or 933: not specified.

4095 LA Lacey (94005). [Hemiptera: Cicadidae]. Rec'd 28 Mar 1994. Brazil.

4132 [DAT 11] AC Rath (F011). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Eyre Pennisular, South Australia.

4133 [DAT 12] AC Rath (F012). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Aldgate, South Australia.

4134 [DAT 14] AC Rath (F014). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 8 May 1986. Australia: Laboratory, Newtown, Tasmania.

4137 [DAT 19] AC Rath (F019). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1986. Australia: Laboratory, Newtown, Tasmania.

4138 [DAT 20] AC Rath (F020). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Dec 1986. Australia: NW Coast, Tasmania.

4139 [DAT 24] AC Rath (F024). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1 Dec 1986. Australia: South Australia.

4141 [DAT 29] AC Rath (F029). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Australia: Woodbury, Tasmania.

4142 [DAT 36] AC Rath (F036). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Laboratory.

4151 [DAT 146; H Yip HY215] AC Rath (F146). Soil. 26 Oct 1988. Australia: Mt Morriston, Ross, Tasmania.

4155 [DAT 153] AC Rath (F153) ← H Yip (HY208). Soil. 26 Oct 1988. Australia: Westbury, Tasmania.

4156 [DAT 156] AC Rath (F156) ← H Yip (HY205). Soil. 26 Oct 1988. Australia: Westbury, Tasmania.

4157 [DAT 163] AC Rath (F163) ← H Yip (HY198). Soil. 13 Oct 1988. Australia: Huonville, Tasmania.

4159 [DAT 169] AC Rath (F169) ← H Yip (HY192). Soil. 13 Oct 1988. Australia: Melton Mowbray, Tasmania.

4160 [DAT 170] AC Rath (F170) ← H Yip (HY191). Soil. 13 Oct 1988. Australia: Colebrook, Tasmania.

4161 [DAT 171] AC Rath (F171) ← H Yip (HY190). Soil. 13 Oct 1988. Australia: Conmurra, Tasmania.

4162 [DAT 188] AC Rath (F188) ← H Yip (HY173). Soil. 26 Sep 1988. Australia: Bridport, Tasmania.

4163 [DAT 190] AC Rath (F190) ← H Yip (HY171). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.

4166 [DAT 194] AC Rath (F194) ← H Yip (HY167). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.

4167 [DAT 195] AC Rath (F195) ← H Yip (HY166). Soil. 20 Sep 1988. Australia: Exeter, Tasmania.

4169 [DAT 197] AC Rath (F197) ← H Yip (HY164). Soil. 20 Sep 1994. Australia: Frankford, Tasmania.

4170 [DAT 198] AC Rath (F198) ← H Yip (HY163). Soil. 20 Sep 1994. Australia: Exeter, Tasmania.

4171 [DAT 200] AC Rath (F200) ← H Yip (HY161). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.

4172 [DAT 201] AC Rath (F201) ← H Yip (HY160). Soil. 9 Sep 1988. Australia: Beaconsfield, Tasmania.

4173 [DAT 202] AC Rath (F202) ← H Yip (HY159). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.

4174 [DAT 203] AC Rath (F203) ← H Yip (HY158). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.

4175 [DAT 204] AC Rath (F204) ← H Yip (HY156). Soil. 9 Sep 1988. Australia: Bridport, Tasmania.

4177 [DAT 206] AC Rath (F206) ← H Yip (HY155). Soil. 9 Sep 1988. Australia: Effingham, Beechford, Tasmania.

4178 [DAT 207] AC Rath (F207) ← H Yip (HY154). Soil. 9 Sep 1988. Australia: Effingham, Beechford, Tasmania.

4180 [DAT 209] AC Rath (F209) ← H Yip (HY152). Soil. 23 Aug 1988. Australia: Montumana, Tasmania.

4181 [DAT 215] AC Rath (F215) ← H Yip (HY146). Soil. 23 Aug 1988. Australia: Stanley, Tasmania.

4183 [DAT 227] AC Rath (F227) ← H Yip (HY134). Soil. 23 Aug 1988. Australia: Leighlands, Perth, Tasmania.

4184 [DAT 228] AC Rath (F228) ← H Yip (HY133). Soil. 23 Aug 1988. Australia: Leighlands, Perth, Tasmania.

4185 [DAT 245] AC Rath (F245) ← H Yip (HY116). Soil. 8 Jul 1988. Australia: Ulverstone, Tasmania.

4186 [DAT 246] AC Rath (F246) ← H Yip (HY115). Soil. 8 Jul 1988. Australia: Forth, Tasmania.

4187 [DAT 248] AC Rath (F248) ← H Yip (HY113). Soil. 8 Jul 1988. Australia: Forcett, Tasmania.

4188 [DAT 249] AC Rath (F249) ← H Yip (HY112). Soil. 8 Jul 1988. Australia: Forcett, Tasmania.

4189 [DAT 252] AC Rath (F252) ← H Yip (HY108). Soil. Rec'd 9 May 1994. Australia: Forcett, Tasmania.

4190 [DAT 253] AC Rath (F253) ← H Yip (HY207). Soil. 8 Jun 1988. Australia: Copping, Tasmania.

4191 [DAT 254] AC Rath (F254) ← H Yip (HY106). Soil. 8 Jun 1988. Australia: Copping, Tasmania.

4192 [DAT 331] AC Rath (F331) ← H Yip (HY027). Soil. 6 Jan 1988. Australia: Launceston, Tasmania.

4220 [DAT 177] AC Rath (F177) ← H Yip (HY184). Soil. 5 Oct 1988. Australia: Snug, Tasmania.

4224 [DAT 180] AC Rath (F180) ← H Yip (HY181). Soil. 26 Sep 1988. Australia: Branxholm, Tasmania.

4225 [DAT 185] AC Rath (F185) ← H Yip (HY176). Soil. 26 Sep 1988. Australia: Bridport, Tasmania.

4226 [DAT 221] AC Rath (F221) ← H Yip (HY140). Soil. 23 Aug 1988. Australia: Burnie, Tasmania.

4229 [DAT 179] AC Rath (F179) ← H Yip (HY182). Soil. 26 Sep 1988. Australia: Bridport, Tasmania.

4230 [DAT 212] AC Rath (F212) ← H Yip (HY149). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.

4232 [DAT 106] AC Rath (F106). Soil. 14 Jan 1988. Australia: Lockfaine, Benham Estate, Avoca, Tasmania.

4234 [DAT 119] AC Rath (F119). Larva, *Oncopera intrucata* [Lepidoptera: Hepialidae]. 2 Jan 1988. Australia: Richmond, Tasmania.

4235 [DAT 214] AC Rath (F214) ← H Yip (HY147). Soil. 23 Aug 1988. Australia: Edith Creek, Tasmania.

4236 [DAT 13] AC Rath (F013). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 5 Aug 1986. Australia: Laboratory, Newtown, Tasmania.

4239 [DAT 34] AC Rath (F034). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Laboratory.

4242 [DAT 45] AC Rath (F045) ← RJ Milner (Fl121). Host not specified. 20 Oct 1987. Australia: New South Wales.

4244 [DAT 187] AC Rath (F187) ← H Yip (HY174). Soil. 26 Sep 1988. Australia: Branxholm, Tasmania.

4246 [DAT 114] AC Rath (F114). Soil. 14 Jan 1988. Australia: Avoca, Tasmania.

4247 [DAT 182] AC Rath (F182) ← H Yip (HY179). Soil. 26 Sep 1988. Australia: St Mary's, Tasmania.

4248 [DAT 183] AC Rath (F183) ← H Yip (HY178). Soil. 26 Sep 1988. Australia: St Helens, Tasmania.

4249 [DAT 77] AC Rath (F077) ← H Yip. Soil. 1 Dec 1987. Australia: Lavender Rarm Rd., Bridport, Tasmania.

4250 [DAT 217] AC Rath (F217) ← H Yip (HY144). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.

4252 [DAT 111] AC Rath (F111). Soil. 13 Feb 1988. Australia: Lockfaine, Benham Estate, Avoca, Tasmania.

4253 [DAT 73] AC Rath (F073). Soil. 4 Jan 1988. Australia: Fairfield, Epping Forest, Tasmania.

4255 [DAT 107] AC Rath (F107) ← Pearn. Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.

4256 [DAT 103] AC Rath (F103) ← Pearn. Soil. 14 Jan 1988. Australia: Lockfaine,Benham Estate, Avoca, Tasmania.

4257 [DAT 113] AC Rath (F113). Soil. 1988. Australia: Benham Estate, Avoca, Tasmania.

4259 [DAT 178] AC Rath (F178) ← H Yip (HY183). Soil. 26 Sep 1988. Australia: Welborough, Tasmania.

4262 [DAT 236] AC Rath (F236) ← H Yip (HY125). Soil. 8 Jul 1988. Australia: Sprent, Tasmania.

4264 [DAT 337] AC Rath (F337) ← H Yip (HY22). Soil. 6 Jan 1988. Australia: The Braes, Woodbury, Tasmania.

4265 [DAT 216] AC Rath (F216) ← H Yip (HY145). Soil. 23 Aug 1988. Australia: Irishtown, Tasmania.

4266 [DAT 100] AC Rath (F100) ← Pearn. Soil. 13 Jan 1988. Australia: Avoca, Tasmania.

4267 [DAT 244] AC Rath (F244) ← H Yip (HY117). Soil. 8 Jul 1988. Australia: Sprent, Tasmania.

4268 [DAT 96] AC Rath (F096). Soil. 7 Jan 1988. Australia: Mt. Wellington, Hobart, Tasmania.

4269 [DAT 174] AC Rath (F174) ← H Yip (HY187). Soil. 5 Oct 1988. Australia: Snug, Tasmania.

4270 [DAT 172] AC Rath (F172) ← H Yip (HY189). Soil. 13 Oct 1988. Australia: Colebrook, Tasmania.

4275 [DAT 230] AC Rath (F230) ← H Yip (HY131). Soil. 18 Jul 1988. Australia: Elverton, Blessington, Tasmania.

4278 [DAT 94] AC Rath (F094). Soil. 20 Jan 1988. Australia: Fairfield, Epping Forest, Tasmania.

4279 [DAT 218] AC Rath (G218) ← H Yip (HY143). Soil. 23 Aug 1988. Australia: Smithton, Tasmania.

4280 [DAT 154] AC Rath (F154) ← H Yip (HY207). Soil. 26 Oct 1988. Australia: Tasmania.

4281 [DAT 155] AC Rath (F155) ← H Yip (HY206). Soil. 26 Oct 1988. Australia: Cressy, Tasmania.

4282 [DAT 229] AC Rath (F229) ← H Yip (HY132). Soil. 18 Jul 1988. Australia: Leighlands, Perth, Tasmania.

4283 [DAT 89] AC Rath (F089). Soil. 5 Dec 1987. Australia: Fairfield, Epping Forest, Tasmania.

4284 [DAT 306] AC Rath (F306) ← H Yip (HY53). Soil. 19 Feb 1988. Australia: Benham, Avoca, Tasmania.

4286 [DAT 167] AC Rath (F167) ← H Yip (HY194). Soil. 13 Oct 1988. Australia: Huonville, Tasmania.

4287 [DAT 186] AC Rath (F186) ← H Yip (HY175). Soil. 26 Sep 1988. Australia: St Mary's, Tasmania.

4288 [DAT 275] AC Rath (F275) ← H Yip (HY85). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.

4291 [DAT 386] AC Rath (F386) ← H Yip (HY246). Soil. Rec'd 6 Jun 1994. Australia: Epping Forest, Tasmania.

4292 [DAT 379] AC Rath (F379) ← H Yip (HY239). Soil. Rec'd 6 Jun 1994. Australia: Smithton, Tasmania.

4293 [DAT 326] AC Rath (F326) ← H Yip (HY33). Soil. Rec'd 6 Jun 1994. Australia: Epping Forest, Tasmania.

4295 [DAT 448] AC Rath (F448) ← H Yip (HY280). Soil. Rec'd 6 Jun 1994. Australia: Bruny Island, Tasmania.

4296 [DAT 165] AC Rath (F165) ← H Yip (HY196). Soil. Rec'd 6 Jun 1994. Australia: Dover, Tasmania.

4298 [DAT 160] AC Rath (F160) ← H Yip (HY201). Soil. Rec'd 6 Jun 1994. Australia: Bracknell, Tasmania.

4299 [DAT 97] AC Rath (F097). Soil. Rec'd 6 Jun 1994. Australia: Benham Estate, Benham, Avoca.

4306 [DAT 274] AC Rath (F274) ← H Yip (HY86). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.

4307 [DAT 293] AC Rath (F293) ← H Yip (HY67). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.

4308 [DAT 321] AC Rath (F321) ← H Yip (HY38). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4309 [DAT 364] AC Rath (F364) ← H Yip (HY217). Soil. Rec'd 6 Jun 1994. Australia: Buckland, Tasmania.

4310 [DAT 320] AC Rath (F320) ← H Yip (HY39). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4311 [DAT 325] AC Rath (F325) ← H Yip (HY34). Soil. Rec'd 6 Jun 1994. Australia: Fairfield, Epping Forest, Tasmania.

4312 [DAT 322] AC Rath (F322) ← H Yip (HY37). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4313 [DAT 315] AC Rath (F315) ← H Yip (HY44). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4314 [DAT 324] AC Rath (F324) ← H Yip (HY35). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4315 [DAT 314] AC Rath (F314) ← H Yip (HY45). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4316 [DAT 319] AC Rath (F319) ← H Yip (HY40). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4317 [DAT 317] AC Rath (F317) ← H Yip (HY42). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4318 [DAT 318] AC Rath (F318) ← H Yip (HY41). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4319 [DAT 316] AC Rath (F316) ← H Yip (HY43). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4322 [DAT 397] AC Rath (F397) ← H Yip (HY257). Soil. Rec'd 6 Jun 1994. Australia: Colebrook, Tasmania.

4323 [DAT 285] AC Rath (F285) ← H Yip (HY75). Soil. Rec'd 6 Jun 1994. Australia: Interlaken, Tasmania.

4324 [DAT 282] AC Rath (F282) ← H Yip (HY78). Soil. Rec'd 6 Jun 1994. Australia: View Point, Campbelltown, Tasmania.

4325 [DAT 279] AC Rath (F279) ← H Yip (HY81). Soil. Rec'd 6 Jun 1994. Australia: View Point, Campbelltown, Tasmania.

4327 [DAT 291] AC Rath (F291) ← H Yip (HY69). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.

4328 [DAT 273] AC Rath (F273) ← H Yip (HY87). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.

4329 [DAT 287] AC Rath (F287) ← H Yip (HY73). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.

4330 [DAT 283] AC Rath (F283) ← H Yip (HY77). Soil. Rec'd 6 Jun 1994. Australia: Fairfield, Epping Forest, Tasmania.

4331 [DAT 286] AC Rath (F286) ← H Yip (HY74). Soil. Rec'd 6 Jun 1994. Australia: Interlaken, Interlaken, Tasmania.

4332 [DAT 289] AC Rath (F289) ← H Yip (HY71). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.

4333 [DAT 483] AC Rath (F483) ← W Theunis (SOL IS 6). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4334 [DAT 492] AC Rath (F492) ← W Theunis (SOL IS 16). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4335 [DAT 484] AC Rath (F484) ← W Theunis (SOL IS 7). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4336 [DAT 488] AC Rath (F488) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4337 [DAT 490] AC Rath (F490) ← W Theunis (SOL IS 14). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4338 [DAT 486] AC Rath (F486) ← W Theunis (SOL IS 11). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4339 [DAT 485] AC Rath (F485) ← W Theunis (SOL IS 10). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4341 [DAT 487] AC Rath (F487) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4343 [DAT 496] AC Rath (F496). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.

4344 [DAT 497] AC Rath (F497). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.

4345 [DAT 498] AC Rath (F498). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.

4346 [DAT 33] AC Rath (F033). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Rec'd 6 Jun 1994. Australia: Woodbury, Tasmania.

4347 [DAT 323] AC Rath (F323) ← H Yip (HY36). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4348 [DAT 284] AC Rath (F284) ← H Yip (HY76). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca, Tasmania.

4349 [DAT 290] AC Rath (F290) ← H Yip (HY70). Soil. Rec'd 6 Jun 1994. Australia: Interlaken, Interlaken, Tasmania.

4350 [DAT 382] AC Rath (F382) ← H Yip (HY242). Soil. Rec'd 6 Jun 1994. Australia: Evandale, Tasmania.

4351 [DAT 383] AC Rath (F383) ← H Yip (HY241). Soil. Rec'd 6 Jun 1994. Australia: Campbelltown, Tasmania.

4352 [DAT 384] AC Rath (F384) ← H Yip (HY244). Soil. Rec'd 6 Jun 1994. Australia: Beaconsfield, Tasmania.

4354 [DAT 365] AC Rath (F365) ← H Yip (HY216). Soil. Rec'd 6 Jun 1994. Australia: Mt. Morriston, Ross, Tasmania.

4355 [DAT 157] AC Rath (F157) ← H Yip (HY204). Soil. Rec'd 6 Jun 1994. Australia: Westbury, Tasmania.

4357 [DAT 446] AC Rath (F446) ← H Yip (HY278). Soil. Rec'd 6 Jun 1994. Australia: Bothwell, Tasmania.

4521 JD Vandenberg (DBM11a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.

4522 JD Vandenberg (DBM11C). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.

4558 Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.

4560 [DAT 408] AC Rath (F408) ← H Yip (HY268). Host not specified. 23 Nov 1988. Australia: Spreyton, Tasmania.

4562 Soil. 10 Jan 1989. Australia: Bruny Island, Tasmania.

4563 [DAT 373] AC Rath (F373) ← H Yip (HY233). Soil. 30 Sep 1988. Australia: Deddington, Tasmania.

4565 [DAT 263] AC Rath (F263) ← H Yip (HY97). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4567 [DAT 122] AC Rath (F122). Soil. 1 Mar 1988. Australia: Glen Morey, Woodbury, Tasmania.

4568 [DAT 510] AC Rath (F510). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.

4569 [DAT 495] AC Rath (F495). Soil. 22 Jun 1993. Australia: Macquarie Island.

4570 [DAT 494] AC Rath (F494). Soil. 22 Jun 1993. Australia: Macquarie Island.

4572 [DAT 479] AC Rath (F479) ← W Theunis (SOL IS 2). 3rd instar larva, [Coleoptera]. 22 Jun 1993. Solomon Islands.

4573 [DAT 361] AC Rath (F361) ← H Yip (HY220). Soil. 6 Oct 1988. Australia: Cethana, Tasmania.

4574 [DAT 516] AC Rath (F516). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.

4576 [DAT 399] AC Rath (F399) ← H Yip (HY259). Soil. 28 Sep 1988. Australia: Cressy, Tasmania.

4577 [DAT 415] AC Rath (F415) ← H Yip (HY275). Soil. 3 Nov 1988. Australia: Whitefoord, Tasmania.

4578 [DAT 257] AC Rath (F257) ← H Yip (HY224). Soil. 1 Dec 1988. Australia: Bruny Island, Tasmania.

4579 [DAT 101] AC Rath (F101). Soil. 13 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.

4581 [DAT 235] AC Rath (F235) ← H Yip (HY126). Soil. 11 Aug 1988. Australia: Interlaken, Interlaken, Tasmania.

4582 [DAT 478] AC Rath (F478) ← W Theunis (SOL IS1). 3rd instar larva, [Coleoptera]. 22 Jun 1993. Solomon Islands.

4584 [DAT 391] AC Rath (F391) ← H Yip (HY251). Soil. 22 Jun 1988. Australia: Beaconsfield, Tasmania.

4585 [DAT 398] AC Rath (F398) ← H Yip (HY258). Soil. 19 Sep 1988. Australia: Snug, Tasmania.

4586 [DAT 311] AC Rath (F311) and H Yip (HY48). Soil. 18 Feb 1988. Australia: Benham, Avoca, Tasmania.

4590 [DAT 414] AC Rath (F414) ← H Yip (HY274). Soil. 11 Mar 1988. Australia: Whitefoord, Tasmania.

4591 [DAT 300] AC Rath (F300) ← H Yip (HY59). Soil. 29 Feb 1988. Australia: Jericho, Tasmania.

4592 [DAT 35] AC Rath (F035). Soil. 1987. Australia: Woodbury, Tasmania.

4593 [DAT 265] AC Rath (F265) ← H Yip (HY95). Soil. 6 Mar 1988. Australia: Leighlands, Perth, Tasmania.

4594 [DAT 338] AC Rath (F338) ← H Yip (HY21). Soil. Spring 1988. Australia: Glen Morey, Woodbury, Tasmania.

4595 [DAT 296] AC Rath (F296) ← H Yip (HY63). Soil. 22 Mar 1988. Australia: Interlaken, Interlaken, Tasmania.

4596 [DAT 380] AC Rath (F380) ← H Yip (HY240). Soil. 16 Jun 1988. Australia: Smithton, Tasmania.

4597 [DAT 387] AC Rath (F387) ← H Yip (HY247). Soil. 22 Jun 1988. Australia: Exeter, Tasmania.

4599 [DAT 231] AC Rath (F231) ← H Yip (HY130). Soil. 18 Jul 1988. Australia: Leighlands, Perth, Tasmania.

4600 [DAT 470] AC Rath (F470). Larva, *Boreoides tasmaniensis* [Diptera: Stratiomyidae]. 13 Oct 1991. Australia: Huonville, Tasmania.

4602 [DAT 239] AC Rath (F239) ← H Yip (HY122). Soil. 8 Jul 1988. Australia: Preston, Tasmania.

4603 [DAT 359] AC Rath (F359) ← H Yip (HY222). Soil. 26 Oct 1988. Australia: Ormley, Tasmania.

4606 [DAT 339] AC Rath (F339) ← H Yip (HY20). Soil. 5 Jan 1988. Australia: Glen Morey, Woodbury, Tasmania.

4608 [DAT 117] AC Rath (F117). Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.

4609 [DAT 271] AC Rath (F271) ← H Yip (HY89). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.

4613 [DAT 371] AC Rath (F371) ← H Yip (HY231). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.

4614 [DAT 79] AC Rath (F079). Soil. 24 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.

4617 [DAT 292] AC Rath (F292) ← H Yip (HY68). Soil. 22 Mar 1988. Australia: York Plains, Tasmania.

4618 [DAT 402] AC Rath (F402) ← H Yip (HY262). Soil. 28 Sep 1988. Australia: Ross, Tasmania.

4619 [DAT 255] AC Rath (F255) ← H Yip (HY105). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.

4620 [DAT 469] AC Rath (F469). Larva, *Boreoides tasmaniensis* [Diptera: Stratiomyidae]. 31 Oct 1991. Australia: Franklin, Tasmania.

4623 [DAT 71] AC Rath (F071). Soil. 23 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.

4624 [DAT 260] AC Rath (F260) ← H Yip (HY100). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4625 [DAT 93] AC Rath (F093). Soil. 20 Jan 1988. Australia: Glen Morey, Woodbury, Tasmania.

4626 [DAT 394] AC Rath (F394) ← H Yip (HY254). Soil. 22 Jun 1988. Australia: Bridport, Tasmania. Very small spores, looking much like *M. flavoviride*. .

4627 [DAT 110] AC Rath (F110). Soil. 14 Jan 1988. Australia: Glengor Benham, Avoca, Tasmania.

4629 [DAT 164] AC Rath (F164) ← H Yip (HY197). Soil. 13 Oct 1988. Australia: Cambridge, Tasmania.

4630 [DAT 474] AC Rath (F474) ← W Theunis (PNG 2A). *Papuana* or cicada. 22 Jun 1993. Papau New Guinea: Lae, Morobe Province.

4631 [DAT 301] AC Rath (F301) ← H Yip (HY58). *Papuana* or cicada. 29 Feb 1988. Australia: Rosehill, Jericho, Tasmania.

4632 [DAT 313] AC Rath (F313) ← H Yip (HY46). Soil. 18 Feb 1988. Australia: Benham, Avoca, Tasmania.

4633 [DAT 269] AC Rath (F269) ← H Yip (HY91). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4634 [DAT 340] AC Rath (F340) ← H Yip (HY19). Soil. 4 Jan 1988. Australia: Glen Morey, Woodbury, Tasmania.

4635 [DAT 233] AC Rath (F233) ← H Yip (HY128). Soil. 11 Aug 1988. Australia: Interlaken, Interlaken, Tasmania.

4636 [DAT 158] AC Rath (F258) ← H Yip (HY203). Soil. 26 Oct 1988. Australia: Railton, Tasmania.

4637 [DAT 262] AC Rath (F262) ← H Yip (HY95). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.

4638 [DAT 295] AC Rath (F29d) ← H Yip (HY65). Soil. 2 Mar 1988. Australia: Interlaken, Interlaken, Tasmania. With short, nearly ovoid, conidia.

4639 [DAT 272] AC Rath (F272) ← H Yip (HY88). Soil. 25 May 1988. Australia: Connerville, Poatina, Tasmania.

4640 [DAT 392] AC Rath (F392) ← H Yip (HY252). Soil. 16 Jun 1988. Australia: Edith Creek, Tasmania.

4641 [DAT 303] AC Rath (F303) ← H Yip (HY56). Soil. 29 Feb 1988. Australia: Avoca, Tasmania.

4643 [DAT 222] AC Rath (F222) ← H Yip (HY139). Soil. 23 Aug 1988. Australia: Burnie, Tasmania.

4645 [DAT 341] AC Rath (F341) ← H Yip (HY18). Soil. 2 Jan 1988. Australia: Lavender Farm, Lilydale, Tasmania.

4646 [DAT 108] AC Rath (F108). Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.

4647 [DAT 270] AC Rath (F270) ← H Yip (HY90). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4648 [DAT 450] AC Rath (F450) ← H Yip (HY282). Soil. 10 Jan 1989. Australia: Waddamana, Tasmania.

4649 [DAT 80] AC Rath (F080). Soil. 24 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.

4650 [DAT 264] AC Rath (F264) ← H Yip (HY96). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4651 [DAT 240] AC Rath (F240) ← H Yip (HY121). Soil. 8 Jul 1988. Australia: Carrick, Tasmania.

4652 [DAT 458] AC Rath (F458). Host not specified. Rec'd 1 Sep 1994. Australia: Tasmania.

4653 [DAT 116] AC Rath (F116). Soil. Rec'd 1 Sep 1994. Australia: Benham Estate, Avoca, Tasmania.

4654 [DAT 403] AC Rath (F103) ← H Yip (HY263). Soil. 29 Sep 1988. Australia: Avoca, Tasmania.

4655 [DAT 356] AC Rath (F356) ← H Yip (HY225). Soil. 12 Jan 1988. Australia: Bruny Island, Tasmania.

4656 [DAT 150] AC Rath (F150) ← H Yip (HY211). Soil. 26 Oct 1988. Australia: Cressy, Tasmania.

4657 [DAT 266] AC Rath (F266) ← H Yip (HY94). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.

4659 [DAT 82] AC Rath (F082). Soil. 6 Jan 1988. Australia: Elephant Pass, St Mary's, Tasmania.

4662 [DAT 241] AC Rath (F241) ← H Yip (HY120). Soil. 8 Jul 1988. Australia: Preston, Tasmania.

4663 [DAT 396] AC Rath (F396) ← H Yip (HY256). Soil. 22 Jun 1988. Australia: Tonganah, Tasmania.

4664 [DAT 389] AC Rath (F389) ← H Yip (HY249). Soil. 16 Jun 1988. Australia: Wynyard, Tasmania.

4665 [DAT 242] AC Rath (F242) ← H Yip (HY119). Soil. 8 Jul 1988. Australia: Latrobe, Tasmania.

4668 [DAT 378] AC Rath (F378) ← H Yip (HY238). Soil. 22 Jun 1988. Australia: Bridport, Tasmania.

4669 [DAT 372] AC Rath (F372) ← H Yip (HY232). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.

4671 [DAT 447] AC Rath (F447) ← H Yip (HY279). Soil. 10 Jan 1989. Australia: Bothwell, Tasmania.

4673 [DAT 401] AC Rath (F401) ← H Yip (HY261). Soil. 28 Sep 1988. Australia: Cressy, Tasmania.

4676 [DAT 390] AC Rath (F390) ← H Yip (HY250). Soil. 23 Jun 1988. Australia: St Helens, Tasmania.

4677 [DAT 433] AC Rath (F433). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Summer 1990. Australia: Dairy Research Unit, Elliott, Tasmania.

4678 [DAT 98] AC Rath (F098). Soil. 6 Jan 1988. Australia: The Braes, Woodbury, Tasmania.

4682 [DAT 411] AC Rath (F411) ← H Yip (HY271). Soil. 3 Nov 1988. Australia: Whitefoord, Tasmania.

4683 [DAT 237] AC Rath (F237) ← H Yip (HY124). Soil. 8 Jul 1988. Australia: Sprent, Tasmania.

4684 [DAT 258] AC Rath (F258) ← H Yip (HY102). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.

4687 [DAT 395] AC Rath (F395) ← H Yip (HY255). Soil. 17 Jun 1988. Australia: Burnie, Tasmania.

4716 [DAT 28] AC Rath (F028). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Australia: Woodbury, Tasmania.

4717 [DAT 74] AC Rath (F074). Soil. 23 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.

4718 [DAT 123] AC Rath (F123). Soil. 1 Mar 1988. Australia: Glen Morey, Woodbury, Tasmania.

4722 [DAT 141] AC Rath (F141). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Spring 1989. Australia: Wilmot, Tasmania.

4723 [DAT 159] AC Rath (F159) ← H Yip (HY202). Soil. 26 Oct 1988. Australia: Bracknell, Tasmania.

4724 [DAT 161] AC Rath (F161) ← H Yip (HY200). Soil. 26 Oct 1988. Australia: Campbelltown, Tasmania.

4725 [DAT 162] AC Rath (F162) ← H Yip (HY162). Soil. 13 Oct 1988. Australia: Franklin, Tasmania.

4726 [DAT 181] AC Rath (F181) ← H Yip (HY180). Soil. 26 Sep 1988. Australia: St Mary's, Tasmania.

4731 [DAT 257] AC Rath (F257) ← H Yip (HY103). Soil. 8 Jun 1988. Australia: Sorell, Tasmania.

4732 [DAT 262] AC Rath (F262) ← H Yip (HY99). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4733 [DAT 263] AC Rath (F263) ← H Yip (HY97). Soil. 3 Jun 1988. Australia: Leighlands, Perth, Tasmania.

4734 [DAT 267] AC Rath (F267) ← H Yip (HY93). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.

4735 [DAT 268] AC Rath (F268) ← H Yip (HY92). Soil. 3 Jun 1988. Australia: Elverton, Blessington, Tasmania.

4736 [DAT 277] AC Rath (F277) ← H Yip (HY83). Soil. 19 Apr 1988. Australia: Campbelltown, Tasmania.

4737 [DAT 294] AC Rath (F294) ← H Yip (HY66). Soil. 22 Mar 1988. Australia: Interlaken, Interlaken, Tasmania.

4738 [DAT 297] AC Rath (F297) ← H Yip (HY62). Soil. 22 Mar 1988. Australia: Tervue, York Plains, Tasmania.

4740 [DAT 302] AC Rath (F302) ← H Yip (HY57). Soil. 29 Feb 1988. Australia: Rosehill, Jericho, Tasmania.

4743 [DAT 344] AC Rath (F344) ← H Yip (HY15). Soil. 31 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.

4746 [DAT 349] AC Rath (F349) ← H Yip (HY9). Soil. 28 Dec 1987. Australia: The Braes, Woodbury, Tasmania.

4747 [DAT 350] AC Rath (F350) ← H Yip (HY8). Soil. 24 Dec 1987. Australia: The Braes, Woodbury, Tasmania.

4748 [DAT 351] AC Rath (F351) ← H Yip (HY7). Soil. 24 Dec 1987. Australia: The Braes, Woodbury, Tasmania.

4749 [DAT 352] AC Rath (F352) ← H Yip (HY6). Soil. 23 Dec 1987. Australia: The Braes, Woodbury, Tasmania.

4752 [DAT 355] AC Rath (F355) ← H Yip (HY226). Soil. 12 Jun 1988. Australia: Bruny Island, Tasmania.

4753 [DAT 362] AC Rath (F362) ← H Yip (HY219). Soil. 26 Oct 1988. Australia: Sheffield, Tasmania.

4754 [DAT 363] AC Rath (F363) ← H Yip (HY218). Soil. 26 Oct 1988. Australia: Sheffield, Tasmania.

4756 [DAT 370] AC Rath (F370) ← H Yip (HY230). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.

4757 [DAT 374] AC Rath (F374) ← H Yip (HY234). Soil. 30 Sep 1988. Australia: Ben Lomond, Tasmania.

4758 [DAT 377] AC Rath (F377) ← H Yip (HY237). Soil. 22 Jun 1988. Australia: Beaconsfield, Tasmania.

4759 [DAT 388] AC Rath (F388) ← H Yip (HY248). Soil. 23 Jun 1988. Australia: St Mary's, Tasmania.

4760 [DAT 400] AC Rath (F400) ← H Yip (HY260). Soil. 19 Sep 1988. Australia: Cygnet, Tasmania.

4761 [DAT 404] AC Rath (F404) ← H Yip (HY264). Soil. 19 Sep 1988. Australia: Woodbridge, Tasmania.

4762 [DAT 405] AC Rath (F405) ← H Yip (HY265). Soil. 1 Sep 1988. Australia: Colebrook, Tasmania.

4763 [DAT 406] AC Rath (F406) ← H Yip (HY266). Soil. Rec'd 23 Sep 1994. Australia: Interlaken, Tasmania.

4764 [DAT 409] AC Rath (F409) ← H Yip (HY269). Soil. 23 Nov 1988. Australia: Campbelltown, Tasmania.

4766 [DAT 413] AC Rath (F413) ← H Yip (HY273). Soil. 3 Nov 1988. Australia: Whitefoord, Tasmania.

4773 [DAT 477] AC Rath (F477) ← W Theunis (PNG 2B). *Papuana* or cicada. 22 Jun 1993. Papua New Guinea.

4774 [DAT 499] AC Rath (F499). Soil. 22 Jun 1993. Australia: Macquarie Island, Tasmania.

4777 [DAT 507] AC Rath (F507). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 25 Oct 1993. Australia: Glen Innes, New England, New South Wales.

4778 [DAT 511] AC Rath (F511). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.

4779 [DAT 512] AC Rath (F512). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 24 Feb 1994. Australia: Glen Innes, New England, New South Wales.

4780 [DAT 513] AC Rath (F513). Larva, *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.

4819 JD Vandenberg (63). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

4820 JD Vandenberg (18). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

4821 JD Vandenberg (29). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

4822 JD Vandenberg (JP1). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

4823 JD Vandenberg (21). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

4824 JD Vandenberg (29-2). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

4862 BL Parker (AVRDC-0440B). Soil Eggplant. 6 Oct 1994. Republic of China: Chi-Nan, Taiwan.

4865 BL Parker (AVRDC-0492B). Soil Eggplant. 10 Nov 1994. Republic of China: Chi-Nan, Taiwan.

4901 LA Lacey (95003). [Hemiptera]. Rec'd 27 Apr 1995. Location not specified.

4902 LA Lacey (95004). [Hemiptera]. Rec'd 27 Apr 1995. Location not specified.

4904 LA Lacey (95006). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.

4905 LA Lacey (95007). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.

4906 LA Lacey (95008). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.

4907 LA Lacey (95009). *Popillia japonica* [Coleoptera: Scarabaeidae]. Dec 1994. Portugal: Terceira Island, Azores.

4908 LA Lacey (95010). *Popillia japonica* [Coleoptera: Scarabaeidae]. Dec 1994. Portugal: Terceira Island, Azores.

4925 LA Lacey (95027). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

4926 LA Lacey (95028). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

4927 LA Lacey (95029). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

4928 LA Lacey (95030). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

4929 LA Lacey (95031). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

4930 LA Lacey (95032). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

5161 DR Sosa-Gómez (CNPSo-Ma12). Soil. 5 Jan 1990. Brazil: Mauá, Paraná.

5369 I Klingen (NCRI 1-96 (01)). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] Soil sample (marine calcareous soil). 16 Sep 1996. Norway: Potato land (63.57° N), Åfjord, Sør Trøndelag.

5469 TJ Poprawski (TJP934). Larva, *Eoreuma loftini* [Lepidoptera: Pyralidae]. Rec'd 9 May 1997. USA: sugarcane field, Weslaco, Texas.

5513 I Klingen (PVF 10.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland. **RESTRICTED ACCESS:** *contact Curator*.

5514 I Klingen (PVF 10.2). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.

5515 I Klingen (PVF 4.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.

5516 I Klingen (PVF 6). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.

5517 I Klingen (PVF 9.2). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Sep 1996. Norway: Bodø, Nordland.

5518 I Klingen (TØF 22.4). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.

5519 I Klingen (TØF 22.5). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.

5520 I Klingen (TØF 22.1). Larva, *Delia floralis* [Diptera: Anthomyiidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.

5521 I Klingen (TØF 25.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Sep 1996. Norway: Steinkjer, Nord Trøndelag.

5554 I Klingen (F1C.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Jun 1997. Norway: Finnøy, Rogaland.

5555 I Klingen (F2C.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Jun 1997. Norway: Finnøy, Rogaland.

5556 I Klingen (F3D.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 26 Jun 1997. Norway: Finnøy, Rogaland.

5624 I Vänninen (SF85-60). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 18 Jul 1985. Finland: Lapinjärvi, Uudenmaan Lääni.

5628 ST Jaronski (ER1). *Schistocerca gregaria* [Orthoptera: Acrididae]. 1996. Ethiopia: Eastern lowlands of coastal Eritrea, Shelsela.

5715 JM Sung (KEFC-356). Rec'd 11 May 1998.

5716 JM Sung (KEFC-642). Rec'd 11 May 1998.

5717 JM Sung (KEFC-835). Rec'd 11 May 1998.

5746 MCHCA Bernal (MaPL6). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.

5749 MCHCA Bernal (MaPL35). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1992. Mexico: Cerro de Ortega, Colima.

5752 MCHCA Bernal (MaPL41). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1996. Mexico: Parral, Chiapas.

5837 T Steenberg (SSL 14). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from larva of *Agrotis segetum* [Lepidoptera: Noctuidae].

5841 T Steenberg (SSL 32). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from *Anotylus*sp. [Coleoptera: Staphylinidae].

5842 T Steenberg (SSL 50). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.

5848 T Steenberg (SSL 75). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from larvae of an unidentified beetle [Coleoptera].

5850 T Steenberg (SSL 84). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from an unidentified beetle [Coleoptera].

6167 M Filotas. *Malacosoma disstria* [Lepidoptera: Lasiocampidae]. Apr 1998. USA: Tug Hill Plateau, Richland, New York. Host infected in laboratory upon exposure to field collected soil.

6236 [RCEF 0386] [Phasmatodea: Phasmatidae]. 20 Sep 1997. PR China: Anhui.

6237 [RCEF 0389] [Orthoptera]. Rec'd 24 Aug 1999. PR China: Anhui.

6319 Adult, male, *Aeneolamia varia* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.

6321 Adult, male, *Mahanarva sp.* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.

6322 Adult, male, *Mahanarva sp.* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.

6323 Adult, female, *Zulia pubescens* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.

6324 Nymph, 16 Feb 1997. Colombia: Farm of C.I. Macagual, Florencia, Caquetá.

6326 5th instar larva, 23 Jan 1997. Colombia: Farm of C.I. Macagual, Florencia, Caquetá.

6342 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 12 Feb 1999. Colombia: CIAT Farm, Palmira, Valle.

6343 Nymph, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.

6345 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.

6346 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.

6356 4th instar larva, *Zulia colombiana* [Hemiptera: Cercopidae]. 22 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

6360 Adult, *Tagosodes orizicolus*. Jun 1998. Colombia: CIAT Farm, Palmira, Valle.

6388 TL Dubois (FS 3 # 1 (3)) ← SM Smith ← V D'Amico. Larva, late instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on twig. 19 Mar 1999. USA: Laboratory colony, USDA Forest Service, Hamden, Connecticut. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.

6389 TL Dubois (SS 1 # 2 (1)) ← SM Smith. Larva, early instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from wood of *Acer* sp. 23 Mar 1999. USA: USDA APHIS ANG Base, Otis, Massachusetts. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.

6414 EA Ouna (Kutui-10). Rec'd 22 Dec 1999.

6415 EA Ouna (Sudan P1 (a)). Rec'd 22 Dec 1999.

6417 EA Ouna (Sudan 4 (a)). Rec'd 22 Dec 1999.

6457 [CIAT 042] D Peck. Adult, *Zulia carbonaria* [Hemiptera: Cercopidae]. 13 Jul 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

6468 [CIAT 053] D Peck. Adult, female, *Zulia carbonaria* [Hemiptera: Cercopidae]. 2 Jun 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

6475 I Klingen (HVI.99). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Fall 1999. Norway: Hvittingfoss, Buskerud.

6549 D Chandler (HRI 189.83). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.

6551 D Chandler (HRI 335.92). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 13 Jul 2000. United Kingdom.

6558 D Chandler (HRI 378.93). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from woodland soil. Rec'd 13 Jul 2000. United Kingdom.

6570 D Chandler (HRI 391.93). *Pemphigus trehernei* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom: coastal salt marshes, Norfolk, England.

6670 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Harae, Northern Shoa.

6671 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Shewa Robin, Northern Shoa.

6672 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Kewot, Northern Shoa.

6673 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Dedeaa, Northern Shoa.

6674 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Rufe Kure, Northern Shoa.

6675 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Rober, Northern Shoa.

6677 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Dedeaa, Northern Shoa.

6678 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Gobenaytu, Northern Shoa.

6679 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Sefi Beret, Northern Shoa.

6680 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Shewa Robin, Northern Shoa.

6682 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Rufe Kure, Northern Shoa.

6683 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Awaketu, Northern Shoa.

6684 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Awaketu, Northern Shoa.

6685 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Kewot, Northern Shoa.

6694 Phylum Arthropoda, Class Crustacea. Rec'd 17 Jan 2001. Ethiopia: Alamata, Welo.

6698 From soil. Rec'd 17 Jan 2001. Ethiopia: Arba Minch.

6700 Rec'd 17 Jan 2001. Kenya.

6756 GUL Braga and DW Roberts (DWR 86). 24 Feb 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1545 following UV-B exposure.

6757 GUL Braga and DW Roberts (DWR 88). 24 Feb 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.

6758 GUL Braga and DW Roberts (DWR 90). 24 Feb 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.

6759 GUL Braga and DW Roberts (DWR 91). 14 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1545 following UV-B exposure.

6760 GUL Braga and DW Roberts (DWR 92). 14 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.

6761 GUL Braga and DW Roberts (DWR 137). 30 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1545 following UV-B exposure.

6762 GUL Braga and DW Roberts (DWR 138). 30 Apr 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 1545 following UV-B exposure.

6763 GUL Braga and DW Roberts (DWR 146). 7 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6829 GUL Braga and DW Roberts (DWR 45). 24 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from UNICAMP 38 following UV-B exposure.

6830 GUL Braga and DW Roberts (DWR 46). 22 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from UNICAMP 38 following UV-B exposure.

6831 GUL Braga and DW Roberts (DWR 47). 9 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from UNICAMP CLII following UV-B exposure.

6832 GUL Braga and DW Roberts (DWR 48). 12 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 925 following UV-B exposure.

6833 GUL Braga and DW Roberts (DWR 49). 12 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 925 following UV-B exposure.

6834 GUL Braga and DW Roberts (DWR 50). 12 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 925 following UV-B exposure.

6835 GUL Braga and DW Roberts (DWR 51). 1 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Spontaneous color mutant (violet) obtained from ARSEF 1095.

6836 GUL Braga and DW Roberts (DWR 52). 24 Feb 1999. USA: Utah State University, Department of Biology, Logan, Utah. Spontaneous color mutant (violet) obtained from ARSEF 1095.

6837 GUL Braga and DW Roberts (DWR 53). 18 May 1999. USA: Utah State University, Department of Biology , Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.

6838 GUL Braga and DW Roberts (DWR 54). 23 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.

6839 GUL Braga and DW Roberts (DWR 55). 23 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.

6840 GUL Braga and DW Roberts (DWR 58). 5 Jan 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 1095 following UV-B exposure.

6849 GUL Braga and DW Roberts (DWR 67). 11 Apr 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.

6850 GUL Braga and DW Roberts (DWR 71). 23 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6860 GUL Braga and DW Roberts (DWR 167). 20 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6861 GUL Braga and DW Roberts (DWR 168). 16 Mar 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellowish green) obtained from ARSEF 23 following UV-B exposure.

6862 GUL Braga and DW Roberts (DWR 170). 19 Feb 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6863 GUL Braga and DW Roberts (DWR 171). 29 Dec 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6901 I Klingen (NCRI 1/01/Ma). Larva, *Phyllopertha horticola* [Coleoptera: Scarabaeidae] in lawn. 23 May 2001. Norway: Moss, Østfold. **RESTRICTED ACCESS:** *consult Curator*.

6909 JR Fuxa (G-6170). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jun 1999. USA: New Orleans, Louisiana.

6910 JR Fuxa (G-6292). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jun 1999. USA: Baton Rouge, Louisiana.

6911 JR Fuxa (G-7192). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jul 1999. USA: Lake Charles, Louisiana.

6930 ST Jaronski (TM10). Soil plated on oatmeal dodine agar. 2000. USA: D. Danielson Farm, sugarbeet field, Richland County, Montana.

6958 ST Jaronski (MA1200). Rec'd 11 Jan 2002.

6959 ST Jaronski (MA51A). Rec'd 11 Jan 2002.

6960 ST Jaronski (MA71A). Rec'd 11 Jan 2002.

6989 GUL Braga and DW Roberts (DWR 142). 11 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6990 GUL Braga and DW Roberts (DWR 144). 16 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6991 GUL Braga and DW Roberts (DWR 145). 11 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.

6992 GUL Braga and DW Roberts (DWR 147). 1 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.

6993 GUL Braga and DW Roberts (DWR 148). 7 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 23 following UV-B exposure.

6994 GUL Braga and DW Roberts (DWR 069). 26 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Spontaneous color mutant (yellow) obtained from ARSEF 23. Formerly IDed as MAA; changed by RAH, 02/2/2009.

6995 GUL Braga and DW Roberts (DWR 149). 1 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 23 following UV-B exposure.

6996 GUL Braga and DW Roberts (DWR 176). 20 Apr 2001. USA: Utah State University, Department of Biology, Logan, Utah. Revertant (green) obtained from ARSEF 6995 following UV-B exposure.

6997 GUL Braga and DW Roberts (DWR 179). 22 Jun 2001. USA: Utah State University, Department of Biology, Logan, Utah. Revertant (green) obtained from ARSEF 6993 following UV-B exposure.

6998 GUL Braga and DW Roberts (DWR 180). 22 Jun 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (white) obtained from ARSEF 6995 following UV-B exposure.

6999 GUL Braga and DW Roberts (DWR 181). 22 Jun 2001. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (white) obtained from ARSEF 6995 following UV-B exposure.

7000 LA Lacey (YARL 020128-1). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7001 LA Lacey (YARL 020128-2). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7002 LA Lacey (YARL 020128-3). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7003 LA Lacey (YARL 020128-4). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7004 LA Lacey (YARL 011219-7). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7005 LA Lacey (YARL 011219-9). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7006 LA Lacey (YARL 011219-10). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7007 LA Lacey (YARL 011219-11). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7008 LA Lacey (YARL 011219-14). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7009 LA Lacey (YARL 011219-15). *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.

7014 I Klingen (NCRI 08/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7015 I Klingen (NCRI 09/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7016 I Klingen (NCRI 12/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7017 I Klingen (NCRI 14/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7018 I Klingen (NCRI 17/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7019 I Klingen (NCRI 19/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7020 I Klingen (NCRI 20/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7021 [I Klingen NCRI 21/02] *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7022 I Klingen (NCRI 26/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7023 I Klingen (NCRI 32/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7024 I Klingen (NCRI 40/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7025 I Klingen (NCRI 51/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7026 I Klingen (NCRI 52/02). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: apple orchard, Balestrand, Sogn og Fjordane.

7059 E Groden (Ant 3 / Bio 1). *Myrmica rubra* [Hymenoptera: Formicidae]. 13 Aug 2002. USA: Otter Creek, north end of Otter Cove, Mount Desert Island, Maine.

7180 H Liu (MSUFS-500). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 5 Feb 2002. USA: Ravenswood, Chicago, Illinois.

7225 LA Castrillo. Acc'd 7 Dec 2004.

7451 [CSIRO FI-0993] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 28 Apr 1993. Australia: Larsen, Kingaroy, Queensland.

7474 [CEP 076] C López Lastra. [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 24 Feb 2004. Argentina: Los Hornos, Buenos Aires.

7475 [CEP 078] C López Lastra. [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 3 May 2004. Argentina: San Antonio de Areco, Buenos Aires.

7476 [CEP 086] C López Lastra. [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 7 Apr 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires.

7485 [CSIRO FI-0726] From soil sample S31. 6 Dec 1990. Burma.

7489 [CSIRO FI-1095] ARSEF (441). *Teleogryllus commodus* [Orthoptera: Gryllidae]. 11 Mar 1980. Australia: Warnambool, Victoria.

7490 [CSIRO FI-1096] ARSEF (442). *Teleogryllus commodus* [Orthoptera: Gryllidae]. 11 Mar 1980. Australia: Hawkesdale, Victoria.

7492 [CSIRO FI-1350] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 2 Jun 1999. Laboratory experiment.

7494 [CSIRO FI-1363] CBS (316.51). *Agriotes* sp. [Coleoptera: Elateridae]. 23 Aug 1999. USA: Forest Grove, Oregon.

7496 [CSIRO FI-1402] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 13 Apr 2000. Australia: Bundaberg, Queensland.

7498 [CSIRO FI-1410] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 26 Apr 2000. Australia: Moree, New South Wales.

7499 [CSIRO FI-1412] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 12 May 2000. Australia: Moree, New South Wales.

7500 [CSIRO FI-1414] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 1 Jun 2000. Australia: Moree, New South Wales.

7503 [CSIRO FI-1418] AMMRL 154.04. 5 Jun 2000. Australia: Royal North Shore Hospital, St. Leonards, New South Wales.

7504 [CSIRO FI-1425] *Lepidiota noxia* [Coleoptera: Scarabaeidae]. 18 Aug 2000. Australia: Bundaberg, Queensland.

7506 [CSIRO FI-1451] *Mastotermes* sp. [Isoptera: Mastotermitidae]. 13 Jul 2002.

7524 S Keller (714). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. 28 Aug 2001. Switzerland: Jenaz, Graubünden.

7527 S Keller (800). Larva, [Coleoptera: Scarabaeidae]. 31 May 2002. Nepal: Parbat District.

7529 S Keller (885). Larva, [Coleoptera: Scarabaeidae]. Winter 2003. Nepal: Pang, Parbat District.

7532 S Keller (500). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 16 Jan 1995. Switzerland: Uri.

7535 E Groden (Plate #3). *Myrmica rubra* [Hymenoptera: Formicidae]. 12 Aug 2003. United Kingdom: Kimmeridge, Dorset, England. 50.37.11 N, 022.06.59 W, 133 m elevation.

7536 E Groden (Plate #4). *Myrmica scabrinodis* [Hymenoptera: Formicidae]. 16 Aug 2003. United Kingdom: Lynmouth, Devon, England. 51.12.15 N, 03.37.55 W, 230 m elevation.

7537 E Groden (Plate #5). *Myrmica rubra* [Hymenoptera: Formicidae]. 26 Aug 2003. United Kingdom: Rescombe, Dorset, England. 50.35.54 N, 02.03.05 W, 110 m elevation.

7538 E Groden (Plate #6). *Myrmica rubra* [Hymenoptera: Formicidae]. 22 Aug 2003. United Kingdom: Exeter, Devon, England. 50.44.10 N, 03.33.00 W, 22 m elevation.

7569 I Klingen (NCRI 53/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: field margin of organic apple orchard, Balestrand, Sogn og Fjordane.

7570 I Klingen (NCRI 211/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard, Balestrand, Sogn og Fjordane.

7571 I Klingen (NCRI 240/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, field margin of organic apple orchard, Balestrand, Sogn og Fjordane.

7572 I Klingen (NCRI 241/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard , Balestrand, Sogn og Fjordane.

7573 I Klingen (NCRI 221/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, field margin of conventional apple orchard, Balestrand, Sogn og Fjordane.

7612 H Cortez Madrigal (MaA1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.

7613 H Cortez Madrigal (MaA2). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.

7614 H Cortez Madrigal (MaA3). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.

7615 H Cortez Madrigal (MaA4). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] baiting in *Saccharum officinarum* L., sugar cane crop. Rec'd 14 Mar 2005. Mexico: Cárdenas, Tabasco.

7644 [SRCAMB B-217] V Likhovidov (Vg-6/1s) ← BA Borisov. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1991. Vietnam: environs of Hanoi, Hanoi. Field Collection Number F-60.

7814 [CSIRO FI-0014] *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 16 Oct 1979. Australia: Anderson, Guyra, New South Wales.

7815 [CSIRO FI-0038] *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Jun 1981. Australia: Ballarat, Victoria.

7816 [CSIRO FI-0083] *Lepidiota squamulata* [Coleoptera: Scarabaeidae]. 5 Aug 1985. Australia: Mackay, Queensland.

7817 [CSIRO FI-0086] Isolated from soil sample. 27 Feb 1985. Australia: Cairns, Queensland.

7818 [CSIRO FI-0092] Isolated from soil sample. 11 Dec 1984. Australia: Mackay, Queensland.

7819 [CSIRO FI-0111] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.

7820 [CSIRO FI-0120] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.

7821 [CSIRO FI-0121] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.

7822 [CSIRO FI-0122] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.

7823 [CSIRO FI-0123] *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 17 Dec 1985. Australia: Ebor, New South Wales.

7824 [CSIRO FI-0126] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. Jan 1986. Australia: Yeppoon, Queensland.

7825 [CSIRO FI-0143] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. 2 Apr 1986. Australia: Yeppoon, Queensland.

7826 [CSIRO FI-0144] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. 2 Apr 1986. Australia: Yeppoon, Queensland.

7827 [CSIRO FI-0148] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.

7828 [CSIRO FI-0150] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.

7829 [CSIRO FI-0154] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.

7830 [CSIRO FI-0157] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.

7831 [CSIRO FI-0160] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.

7832 [CSIRO FI-0165] *Lepidiota negatoria* [Coleoptera: Scarabaeidae]. 26 Nov 1986. Australia: Maryborough, Queensland.

7833 [CSIRO FI-0177] Isolated from soil sample. 22 Jan 1987. Australia: Bundaberg field site, Bundaberg, Queensland.

7834 [CSIRO FI-0179] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.

7835 [CSIRO FI-0181] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.

7836 [CSIRO FI-0182] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.

7837 [CSIRO FI-0188] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.

7838 [CSIRO FI-0189] Isolated from soil sample. 22 Jan 1987. Australia: Cairns field trial, Cairns, Queensland.

7839 [CSIRO FI-0191] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 5 Feb 1987. Australia: Maryborough, Queensland.

7840 [CSIRO FI-0196] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7841 [CSIRO FI-0197] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7842 [CSIRO FI-0205] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 23 Mar 1987. Australia: Yandaren, Bundaberg, Queensland.

7843 [CSIRO FI-0912] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.

7844 [CSIRO FI-0913] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.

7845 [CSIRO FI-0024] *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 Jan 1981. Australia: South Australia.

7846 [CSIRO FI-0149] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.

7847 DEN Rangel and DW Roberts (DWR 200). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Mar 2005. USA: Soil sample #13, Snowflake, Arizona. 34.42.924 N, 110.01.860 W, 5280 ft elevation.

7854 [CSIRO FI-0190] Adult, *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 5 Feb 1987. Australia: Maryborough, Queensland.

7855 [CSIRO FI-0193] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7856 [CSIRO FI-0194] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7857 [CSIRO FI-0195] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7858 [CSIRO FI-0199] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7859 [CSIRO FI-0200] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7860 [CSIRO FI-201] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7861 [CSIRO FI-0202] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Tirroan via Gin Gin, Queensland.

7862 [CSIRO FI-0209] *Phaulacridium vittatum* [Orthoptera: Acrididae]. Spring 1987. Australia: Gininderra Experiment Station, Gininderra, New South Wales.

7863 [CSIRO FI-0211] *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 22 May 1987. Australia: Canberra, Australian Capital Territory.

7864 [CSIRO FI-0214] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 22 May 1987. Australia: Childers, Queensland.

7865 [CSIRO FI-0218] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 10 Jun 1987. Australia: Calavos, Bundaberg, Queensland.

7866 [CSIRO FI-0220] Rec'd 16 Sep 2005. Expt S131. Hybrid of FI-0114 and FI-0153.

7867 [CSIRO FI-0221] Isolated from soil sample. 14 Jul 1987. Australia: Tegege, Queensland.

7868 [CSIRO FI-0223] Isolated from soil sample. 14 Jul 1987. Australia: Tegege, Queensland.

7869 [CSIRO FI-0266] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7870 [CSIRO FI-0267] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7871 [CSIRO FI-0268] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7872 [CSIRO FI-0269] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7873 [CSIRO FI-0270] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7874 [CSIRO FI-0274] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7875 [CSIRO FI-0275] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7876 [CSIRO FI-0276] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7879 [CSIRO FI-0273] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.

7880 [CSIRO FI-0280] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7881 [CSIRO FI-0282] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7882 [CSIRO FI-0283] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7883 [CSIRO FI-0284] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7884 [CSIRO FI-0287] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7885 [CSIRO FI-0289] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7886 [CSIRO FI-0290] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7887 [CSIRO FI-0291] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7888 [CSIRO FI-0292] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.

7892 [CSIRO FI-0298] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.

7893 [CSIRO FI-0299] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.

7894 [CSIRO FI-0300] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.

7895 [CSIRO FI-0301] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.

7896 [CSIRO FI-0302] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.

7897 [CSIRO FI-0303] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.

7898 [CSIRO FI-0304] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.

7899 [CSIRO FI-0305] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.

7900 [CSIRO FI-0307] Isolated from soil sample. Dec 1988. Australia: Vassallo, Brightly, Queensland.

7901 [CSIRO FI-0308] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.

7902 [CSIRO FI-0309] Isolated from soil sample. Dec 1988. Australia: Finch Hatton Gorge, Langdon, Queensland.

7903 [CSIRO FI-0310] Isolated from soil sample. Dec 1988. Australia: Bassey, Mount Martin , Queensland.

7904 [CSIRO FI-0311] Isolated from soil sample. Dec 1988. Australia: Bassey, Mount Martin , Queensland.

7905 [CSIRO FI-0312] Isolated from soil sample. Dec 1988. Australia: Vassallo, Brightly, Queensland.

7906 [CSIRO FI-0313] Isolated from soil sample. Dec 1988. Australia: Vassallo, Brightly, Queensland.

7907 [CSIRO FI-0314] Isolated from soil sample. Dec 1988. Australia: Highams Bridge, Finch Hatton, Queensland.

7908 [CSIRO FI-0315] Isolated from soil sample. Dec 1988. Australia: Highams Bridge, Finch Hatton, Queensland.

7909 [CSIRO FI-0316] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.

7910 [CSIRO FI-0317] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.

7911 [CSIRO FI-0318] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.

7912 [CSIRO FI-0319] Isolated from soil sample. Dec 1988. Australia: Sybil Creek, Finch Hatton, Queensland.

7913 [CSIRO FI-0321] Isolated from soil sample. Dec 1988. Australia: Vigiante, Devereux Creek, Queensland.

7914 [CSIRO FI-0324] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.

7915 [CSIRO FI-0326] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.

7916 [CSIRO FI-0332] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.

7917 [CSIRO FI-0333] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.

7918 [CSIRO FI-0334] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.

7919 [CSIRO FI-0335] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.

7920 [CSIRO FI-0336] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.

7921 [CSIRO FI-0349] Rec'd 16 Sep 2005.

7925 [CSIRO FI-0351] Rec'd 16 Sep 2005.

7926 [CSIRO FI-0355] DG Holdom (030189-1). Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Walkers Point, Queensland.

7927 [CSIRO FI-0373] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.

7928 [CSIRO FI-0374] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.

7930 [CSIRO FI-0376] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.

7931 [CSIRO FI-0377] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 10 Mar 1989. Australia: Maidements, Bundaberg, Queensland.

7932 [CSIRO FI-0378] Adult, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.

7933 [CSIRO FI-0380] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.

7934 [CSIRO FI-0381] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.

7935 [CSIRO FI-0382] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.

7936 [CSIRO FI-0383] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.

7967 LA Lacey (14B). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 4 Oct 2005. USA: Site 3 (Green), CRP soil 19-21, Alaska.

8014 BC King (41). Rec'd 7 Apr 2006. Canada: Pacific Spirit Regional Park, Vancouver, British Columbia. GenBank match - AB027383 (100%) LSU. **RESTRICTED ACCESS:** *consult Curator*.

8015 MS Wright (C 4B). Alate, *Coptotermes formosanus* [Isoptera: Rhinotermitidae]. Rec'd 10 Apr 2006. USA: New Orleans, Louisiana. Subject of US Patent No. 7790151.

8063 [CSIRO FI-0567] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut. 21 Feb 1990. Australia: sawmill, Batemans Bay, New South Wales.

8070 [CSIRO FI-0577] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 19 Mar 1990. Australia: 3 km north of Michelago, Michelago, New South Wales.

8071 [CSIRO FI-0581] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8096 [CSIRO FI-0654] from feeding site8 Apr 1990. Australia: 5 km south, Old Bonalbo, New South Wales.

8098 [CSIRO FI-0658] [Coleoptera: Curculionidae]. 29 May 1990. CSIRO, Nematodes Laboratory.

8099 [CSIRO FI-0659] [Coleoptera: Curculionidae]. 29 May 1990. CSIRO, Nematodes Laboratory.

8100 [CSIRO FI-0661] *Nasutitermes exitiosus* [Isoptera: Termitidae]. 13 Jul 1990. Australia: Pearce RAAF Base, Bullsbrook, Western Australia.

8103 [CSIRO FI-0666] 16 Jul 1990.

8104 [CSIRO FI-0667] 16 Jul 1990.

8105 16 Jul 1990.

8106 16 Jul 1990.

8107 Acc'd Sep 2006.

8108 Acc'd Sep 2006.

8109 Acc'd Sep 2006.

8196 LA Castrillo (MI-17). Isolated from soil on dodine medium base of tree #1. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.

8197 LA Castrillo (MI-18). Isolated from soil on dodine medium base of tree #13. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.

8198 LA Castrillo (MI-19). Isolated from soil on dodine medium base of tree #63. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.

8199 LA Castrillo (MI-20). Isolated from soil on dodine medium base of tree #52. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.

8212 S Entz (20W-5). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. May 2004. Canada: fallow wheat field 30 km east of Milk River, Alberta.

8219 [CSIRO FI-0715] Isolated from soil sample S28. 6 Dec 2006. Burma.

8220 [CSIRO FI-0716] Isolated from soil sample S14. 6 Dec 1990. Burma.

8221 [CSIRO FI-0717] Isolated from soil sample KAN PYA. 6 Dec 1990. Burma.

8222 [CSIRO FI-0718] Isolated from soil sample S21. 6 Dec 1990. Burma.

8223 [CSIRO FI-0719] Isolated from soil sample S21. 6 Dec 1990. Burma.

8226 [CSIRO FI-0722] Isolated from soil sample S21. 6 Dec 1990. Burma.

8229 [CSIRO FI-0729] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound A (A1). 9 Jan 1991. Australia: Manar Creek, Braidwood, New South Wales.

8230 [CSIRO FI-0730] *Nasutitermes exitiosus* [Isoptera: Termitidae] from soil around mound A (A14). 9 Jan 1991. Australia: Manar Creek, Braidwood, New South Wales.

8231 [CSIRO FI-739] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil aound mound F (F19). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8232 [CSIRO FI-0744] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F13). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8233 [CSIRO FI-0749] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound G (G3). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8234 [CSIRO FI-750] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8235 [CSIRO FI-0756] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G 18). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8236 [CSIRO FI-765] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8248 LA Castrillo (SFMa1) ← M Filotas. Pupa, *Scatella tenuicosta* [Diptera: Ephydridae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.

8249 LA Castrillo (SFMa2) ← M Filotas. Pupa, *Scatella tenuicosta* [Diptera: Ephydridae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.

8270 RJ Pereault (masi#1). Isolated from soil sample. Jul 2006. USA: Northport, Michigan.

8319 SK Dara (GmMa1). Rec'd 21 Dec 2006.

8323 AC Churchill (MaNPS1 Ect A-18). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.

8324 AC Churchill (MaNPS1 KO B1-3). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.

8325 AC Churchill (MaNPS1 KO 8-18). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.

8326 AC Churchill (MaNPS1 KO 37-2). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.

8327 AC Churchill (MaNPS1 KO 43-1). 6 Apr 2004. USA: Boyce Thompson Institute for Plant Research, Ithaca, New York.

8334 Z Demirbag (KTU-2). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Ardesen, Rize.

8335 Z Demirbag (KTU-3). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Derepazari, Rize.

8336 Z Demirbag (KTU-4). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Derepazari, Rize.

8338 Z Demirbag (KTU-6). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Jul 2006. Turkey: Derepazari, Rize.

8341 Z Demirbag (KTU-9). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Terme, Samsun.

8342 Z Demirbag (KTU-10). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Ordu Province.

8344 Z Demirbag (KTU-12). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Persembe, Ordu.

8346 Z Demirbag (KTU-14). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Aug 2006. Turkey: Çambunu, Sürmene, Trabzon.

8347 Z Demirbag (KTU-15). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Borçka, Artvin.

8350 Z Demirbag (KTU-18). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Murgul, Artvin.

8351 Z Demirbag (KTU-19). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Murgul, Artvin.

8352 Z Demirbag (KTU-20). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Camili, Artvin.

8353 Z Demirbag (KTU-21). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Borçka, Artvin.

8357 DEN Rangel and DW Roberts (DWR 313). 3 Jun 2006. USA: Coconino National Forest, Oak Creek Canyon, Coconino County, Arizona. 34.57.271 N, 111.45.480 W, 5037 ft elevation.

8358 DEN Rangel and DW Roberts (DWR 338). 28 May 2006. USA: Hwy 89A, Jacob Lake, Arizona. 36.43.555 N, 112.07.522 W, 6942 ft elevation.

8362 DEN Rangel and DW Roberts (DWR 217). Rec'd 20 Feb 2007.

8363 DEN Rangel and DW Roberts (DWR 200). 13 Mar 2005. USA: Snowflake, Arizona. 34.42.924 N, 110.01.860 W, 5280 ft elevation.

8364 DEN Rangel and DW Roberts (DWR 203). 13 Mar 2005. USA: Winslow, Arizona. 35.03.225 N, 110.35.388 W, 5068 ft elevation.

8365 DEN Rangel and DW Roberts (DWR 261). 6 Aug 2006. USA: Talkeetna, Alaska. 61.26.728 N, 149.22.150 W, 232 ft elevation.

8366 DEN Rangel and DW Roberts (DWR 312). 2004. USA: Green Canyon, Logan, Utah.

8367 DEN Rangel and DW Roberts (DWR 346). 28 May 2006. USA: Snowflake, Arizona. 34.41.222 N, 110.06.199 W, 5572 ft elevation.

8375 [CEP 003; LPSC 904] AV Toledo. Soil of *Sorghum bicolor* (L.) Moench, sorghum crop. 13 Jul 2003. Argentina: Los Hornos, Buenos Aires.

8376 [CEP 160; LPSC 908] AV Toledo. Adult, [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 6 Oct 2004. Argentina: Esteros del Iberá, Corrientes.

8377 [CEP 178; LPSC 909] AV Toledo. Adult, *Kanaima fluvialis* [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). Nov 2004. Argentina: Bella Vista, Corrientes.

8432 Z Demirbag (KTU-26). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Kalkandere, Rize.

8433 Z Demirbag (KTU-27). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Ikizdere, Rize.

8434 Z Demirbag (KTU-28). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Ikizdere, Rize.

8435 Z Demirbag (KTU-29). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Güneysu, Rize.

8436 Z Demirbag (KTU-30). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Çaykara, Trabzon.

8437 Z Demirbag (KTU-31). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Bolaman, Ordu.

8438 Z Demirbag (KTU-32). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Bolaman, Ordu.

8440 Z Demirbag (KTU-34). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Fatsa, Ordu.

8443 Z Demirbag (KTU-37). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Mar 2007. Turkey: Görele, Giresun.

8445 Z Demirbag (KTU-39). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 20 Mar 2007. Turkey: Ulubey, Ordu.

8446 Z Demirbag (KTU-40). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Akçaabat, Trabzon.

8447 Z Demirbag (KTU-41). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Kalkandere, Rize.

8450 Z Demirbag (KTU-44). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Of, Trabzon.

8451 Z Demirbag (KTU-45). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Of, Trabzon.

8452 Z Demirbag (KTU-46). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Güneysu, Rize.

8453 Z Demirbag (KTU-47). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Salarha, Rize.

8454 Z Demirbag (KTU-48). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Of, Trabzon.

8492 [CSIRO FI-0012] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 16 Oct 1979. Australia: McKemeys, Guyra, New South Wales.

8495 [CSIRO FI-0019] Pupa, *Rhopaea verreauxii* [Coleoptera: Scarabaeidae]. 13 Feb 1980. Australia: Dorrigo, New South Wales.

8498 [CSIRO FI-0390] [Hemiptera: Cercopidae]. 29 Mar 1989. Brazil.

8499 [CSIRO FI-0396] *Phyllophaga anxia* [Coleoptera: Scarabaeidae]. 29 Mar 1989. Canada: Southern Québec.

8501 [CSIRO FI-0529] *Lepidiota picticollis* [Coleoptera: Scarabaeidae]. 28 Jul 1989. Laboratory experiment.

8503 [CSIRO FI-0741] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8504 [CSIRO FI-0751] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8506 [CSIRO FI-0753] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G20). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8507 [CSIRO FI-0754] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G20). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8508 [CSIRO FI-0757] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G17). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8509 [CSIRO FI-0759] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G13). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8510 [CSIRO FI-0762] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G15). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8511 [CSIRO FI-0763] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8512 [CSIRO FI-0767] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8513 [CSIRO FI-0772] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound G (G9). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8514 [CSIRO FI-0773] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G19). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8516 [CSIRO FI-0778] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I2). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8517 [CSIRO FI-0779] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound J (J14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8518 [CSIRO FI-0780] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8527 [CEP 122] AV Toledo. Adult, [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 18 May 2004. Argentina: La Plata, Buenos Aires.

8531 [CSIRO FI-0781] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound H (H11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8532 [CSIRO FI-0782] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound H (H18). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8533 [CSIRO FI-0784] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound H (H14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8535 [CSIRO FI-0790] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8538 [CSIRO FI-0794] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8539 [CSIRO FI-0795] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8540 [CSIRO FI-0796] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8541 [CSIRO FI-0797] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8564 [CSIRO FI-0871] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 8 Jan 1992. Australia: Clermont, Queensland.

8568 [CSIRO FI-0881] *Desiantha diversipes* [Coleoptera: Curculionidae] from root of *Echium* sp. (Boraginaceae). 8 Jan 1992.

8569 [CSIRO FI-0882] *Desiantha diversipes* [Coleoptera: Curculionidae]. 8 Jan 1992.

8573 [CSIRO FI-0889] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: Pub Corner, Kangaroo Island, South Australia.

8575 [CSIRO FI-0742] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound F (F14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8580 [CSIRO FI-0900] 29 Apr 1992.

8591 [CSIRO FI-0919] *Microcerotermes* sp. [Isoptera: Termitidae]. 1 Jul 1992. Australia: Howard Springs, Northern Territory.

8594 [CSIRO FI-0926] From Dodine 2, 20 Jul 1992. 5 Aug 1992. Sunnycliff Orchard.

8595 [CSIRO FI-0928] From Dodine 1, 20 Jul 1992. 5 Aug 1992. Sunnycliff Orchard.

8596 [CSIRO FI-0929] From Dodine 1, 20 Jul 19925 Aug 1992. Sunnycliff Orchard.

8597 [CSIRO FI-0930] From 1/2 Veen's, 20 Jul 19925 Aug 1992. Sunnycliff Orchard.

8603 [CSIRO FI-0895] Rec'd 18 May 2007. Mixed culture of light and dark spored forms.

8604 [CSIRO FI-0895] Rec'd 18 May 2007. Dark spored form of ARSEF 8603.

8605 [CSIRO FI-0895] Rec'd 18 May 2007. Light spored form of ARSEF 8603.

8610 [CSIRO FI-0868] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 8 Jan 1992. Australia: Clermont, Queensland.

8612 [CSIRO FI-0923] 12 Jul 1992. Papua New Guinea. Mixed culture of light and dark spored forms.

8620 [CSIRO FI-0953] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Queensland.

8623 [CSIRO FI-0957] 22 Jul 1992.

8624 [CSIRO FI-0958] 22 Jul 1992.

8625 22 Jul 1992.

8626 Acc'd 22 Oct 2007.

8627 Acc'd 23 Oct 2007.

8628 Acc'd 23 Oct 2007.

8629 Acc'd 23 Oct 2007.

8630 Acc'd 24 Oct 2007.

8631 Acc'd 24 Oct 2007.

8632 Acc'd 24 Oct 2007.

8653 LA Castrillo (A2 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Ann Arbor, Michigan.

8654 LA Castrillo (A2 soil 2). Isolated from soil sample. 29 Sep 2007. USA: Ann Arbor, Michigan.

8655 LA Castrillo (B1 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Brighton, Michigan.

8656 LA Castrillo (L1 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Lansing, Michigan.

8657 LA Castrillo (L5 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Lansing, Michigan.

8658 LA Castrillo (R3 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Redford, Michigan.

8659 LA Castrillo (R7 soil 1). Isolated from soil sample. 29 Sep 2007. USA: Redford, Michigan.

8660 Z Demirbag (KTU-49). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 13 Apr 2007. Turkey: Hemsin, Rize.

8662 Z Demirbag (KTU-51). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 4 Jun 2007. Turkey: Gümüshane.

8665 Z Demirbag (KTU-54). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Çalidere, Bayburt.

8669 Z Demirbag (KTU-58). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Bayburt.

8680 MJ Bidochka (43A 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Bewdley, Ontario.

8681 MJ Bidochka (56B 1iv). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Norwood, Ontario.

8682 MJ Bidochka (FRB2 1iv). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Frankford, Ontario.

8683 MJ Bidochka (GUB2 1iv). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Guelph, Ontario.

8684 MJ Bidochka (HKB1 1b). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Havelock, Ontario.

8685 MJ Bidochka (MAA1 2ii). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Madoc, Ontario.

8686 MJ Bidochka (ORB1 1ii). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Orillia, Ontario.

8687 MJ Bidochka (PHA1 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Parkhill, Ontario.

8688 MJ Bidochka (ROA1 1b). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Rodney, Ontario.

8689 MJ Bidochka (ROA2 2a). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Rodney, Ontario.

8690 MJ Bidochka (SCB2 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: St. Catharines, Ontario.

8691 MJ Bidochka (SHB1 2i). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Sharbot Lake, Ontario.

8692 MJ Bidochka (TIB2 1iii). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Summer 1996. Canada: Tillsonburg, Ontario.

8693 ST Jaronski (GE002). 2 Jun 2005. Spain.

8696 ST Jaronski (GE049). *Calliptamus italicus* [Orthoptera: Catantopidae]. 22 Feb 2006. Republic of Georgia: Samuxi.

8698 ST Jaronski (GE051). *Calliptamus italicus* [Orthoptera: Catantopidae]. 7 Mar 2006. Republic of Georgia: Samuxi.

8700 ST Jaronski (GE075). 9 Jul 2004. Republic of Georgia.

8701 ST Jaronski (GE102). *Calliptamus italicus* [Orthoptera: Catantopidae]. 10 Aug 2004. Republic of Georgia: Sagarejo, Kakheti.

8702 ST Jaronski (GE104). *Calliptamus italicus* [Orthoptera: Catantopidae]. 12 Aug 2004. Republic of Georgia: Sagarejo, Kakheti.

8703 ST Jaronski (GE10-01). Isolated from soil sample. 2 Dec 2004. Republic of Georgia: Rustavi, Kvemo Kartli.

8731 [CSIRO FI-0025] *Neotermes* sp. [Isoptera: Kalotermitidae]. 2 Jan 1981. Australia: Cooktown, Queensland.

8733 [CSIRO FI-0153] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.

8734 [CSIRO FI-0454] [Coleoptera: Staphylinidae]. 26 Apr 1989. Australia: Parissi pupation study site, Bundaberg, Queensland.

8735 [CSIRO FI-0999] *Spodoptera* sp. [Lepidoptera: Noctuidae]. 11 May 1993. Malaysia: Cameron Highlands.

8744 [CSIRO FI-1040] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.

8745 [CSIRO FI-1081] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.

8746 [CSIRO FI-1082] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.

8747 [CSIRO FI-1083] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.

8748 [CSIRO FI-1107] *Papuana* sp. [Coleoptera: Scarabaeidae]. 14 Dec 1994. Papua New Guinea.

8749 [CSIRO FI-1123] Isolated from soil sample. 26 May 1994. Australia: Macquarie Island, Tasmania.

8754 [CSIRO FI-1151] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 17 Aug 1995. Australia: Burdekin, Queensland.

8755 [CSIRO FI-1152] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 17 Aug 1995. Australia: Burdekin, Queensland.

8759 [CSIRO FI-1156; FRR 4834] Leukemia patient, *Homo sapiens* [Primates: Hominidae]. 1 Mar 1996. Australia: Sydney Hospital, Sydney, New South Wales.

8760 [CSIRO FI-1158] *Teleogryllus commodus* [Orthoptera: Gryllidae]. 26 Apr 1996. Australia: Turkeith, Victoria.

8761 [CSIRO FI-1160] Larva, *Antitrogus consanguineus* [Coleoptera: Scarabaeidae]. May 1996. Australia: Bundaberg, Queensland.

8762 [CSIRO FI-1161] Adult, *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. May 1996. Australia: Northern Queensland, Queensland.

8764 [CSIRO FI-1163] Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. May 1996. Australia: Cooma, New South Wales.

8765 [CSIRO FI-1240] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.

8766 [CSIRO FI-1241] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.

8767 [CSIRO FI-1247] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 12 Sep 1997. Australia: Condong, New South Wales.

8768 [CSIRO FI-1084] 20 May 1994. Australia: Darwin, Northern Territory.

8769 A Torres Barragan (Ral 5). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from vermicompost. Jul 2008. USA: Red Hen Enterprises, Raleigh, North Carolina.

8775 [ERL 194] BL Parker (AVRDC 0005B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8776 [ERL 195] BL Parker (AVRDC 0009B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8777 [ERL 203] BL Parker (0207B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8778 [ERL 204] BL Parker (AVRDC 0214B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8779 [ERL 205] BL Parker (AVRDC 0216B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8780 [ERL 206] BL Parker (AVRDC 0224B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8781 [ERL 209] BL Parker (AVRDC 0244B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8782 [ERL 211] BL Parker (AVRDC 0260B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8783 [ERL 215] BL Parker (AVRDC 0293B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8784 [ERL 216] BL Parker (AVRDC 0295B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8785 [ERL 218] BL Parker (AVRDC 0312B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8786 [ERL 220] BL Parker (AVRDC 0331B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8787 [ERL 221] BL Parker (AVRDC 0338B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8788 [ERL 222] BL Parker (AVRDC 0344B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8789 [ERL 223] BL Parker (AVRDC 0346B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8790 [ERL 224] BL Parker (AVRDC 0350B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8791 [ERL 225] BL Parker (AVRDC 0355B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8792 [ERL 227] BL Parker (AVRDC 0373B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8793 [ERL 228] BL Parker (AVRDC 0374B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8794 [ERL 229] BL Parker (AVRDC 0377B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8795 [ERL 329] BL Parker (AVRDC 0193B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 2008. Republic of China: Taiwan.

8796 [ERL 330] BL Parker (AVRDC 0205B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8797 [ERL 331] BL Parker (AVRDC 0246B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8798 [ERL 333] BL Parker (AVRDC 0153B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8799 [ERL 334] BL Parker (AVRDC 0168B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8823 [CSIRO FI-1223] Soil from IPM trialSpring 1997. Australia: Queensland.

8824 [CSIRO FI-1224] Soil from IPM trialSpring 1997. Australia: Queensland.

8828 [CSIRO FI-1228] *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. 4 Jun 1997. Australia: Innisfail, Queensland.

8829 [CSIRO FI-1242] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] field infection. 1 Sep 1997. Australia: Condong, New South Wales.

8830 [CSIRO FI-1245] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.

8831 [CSIRO FI-1246] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.

8832 [CSIRO FI-1249] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 22 Oct 1997. Laboratory experiment. Dose 5 after 1 week.

8833 [CSIRO FI-1256] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Australia: Bundaberg, Queensland.

8834 [CSIRO FI-1257] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Australia: Bundaberg, Queensland.

8837 [CSIRO FI-1263] *Cyclocephala* sp. [Coleoptera: Scarabaeidae]. 2 May 1998. Australia: Canberra, Australian Capital Territory.

8838 [CSIRO FI-1264] *Cyclocephala* sp. [Coleoptera: Scarabaeidae]. 2 May 1998. Australia: Canberra, Australian Capital Territory.

8839 [CSIRO FI-1267] *Dasygnathus dejeani* [Coleoptera: Scarabaeidae]. 12 May 1998. Australia: Burdekin, Queensland.

8841 [CSIRO FI-1279] *Teleogryllus commodus* [Orthoptera: Gryllidae]. 18 Sep 1998. Laboratory infection ex FI-1099.

8842 [CSIRO FI-1280] *Teleogryllus commodus* [Orthoptera: Gryllidae]. 18 Sep 1998. Laboratory infection ex FI-1037.

8844 [CSIRO FI-1313] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Apr 1999. Australia: Condong, New South Wales.

8845 [CSIRO FI-1314] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Mackay, Queensland.

8847 [CSIRO FI-1316] *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. 4 May 1999. Australia: Mackay, Queensland.

8848 [CSIRO FI-1320] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Western Australia.

8849 [CSIRO FI-1321] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Western Australia.

8850 [CSIRO FI-1323] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 6 May 1999. Australia: Mackay, Queensland.

8858 [ERL 230] BL Parker (AVRDC 0381B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8859 [ERL 231] BL Parker (AVRDC 0383B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8860 [ERL 234] BL Parker (AVRDC 0390B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8861 [ERL 235] BL Parker (AVRDC 0393B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8862 [ERL 236] BL Parker (AVRDC 0399B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8863 [ERL 237] BL Parker (AVRDC 0402B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8864 [ERL 238] BL Parker (AVRDC 0408B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8865 [ERL 239] BL Parker (AVRDC 0410B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8866 [ERL 240] BL Parker (AVRDC 0411B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8867 [ERL 241] BL Parker (AVRDC 0414B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8868 [ERL 337] BL Parker (AVRDC 0382B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8869 [ERL 338] BL Parker (AVRDC 0384B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8870 [ERL 340] BL Parker (AVRDC 0388B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8871 [ERL 342] BL Parker (AVRDC 0392B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8872 [ERL 343] BL Parker (AVRDC 0394B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8873 [ERL 345] BL Parker (AVRDC 0397B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8874 [ERL 347] BL Parker (AVRDC 0404B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8875 [ERL 348] BL Parker (AVRDC 0419B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8876 [ERL 349] BL Parker (AVRDC 0420B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8877 [ERL 350] BL Parker (AVRDC 0423B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8878 [ERL 352] BL Parker (AVRDC 0432B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8879 [ERL 353] BL Parker (AVRDC 0437B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8880 [ERL 354] BL Parker (AVRDC 0439B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8881 [ERL 355] BL Parker (AVRDC 0440B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8882 [ERL 356] BL Parker (AVRDC 0441B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8883 [ERL 357] BL Parker (AVRDC 0442B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8884 [ERL 358] BL Parker (AVRDC 0449B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8885 [ERL 359] BL Parker (AVRDC 0450B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8886 [ERL 360] BL Parker (AVRDC 0451B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8887 [ERL 361] BL Parker (AVRDC 0458B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8893 [CSIRO FI-1244] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.

8894 [ERL 246] BL Parker (AVRDC 0467B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8895 [ERL 247] BL Parker (AVRDC 0468B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8896 [ERL 248] BL Parker (AVRDC 0469B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8897 [ERL 249] BL Parker (AVRDC 0470B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8898 [ERL 251] BL Parker (AVRDC 0477B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8899 [ERL 254] BL Parker (AVRDC 0483B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8900 [ERL 256] BL Parker (AVRDC 0485B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8901 [ERL 258] BL Parker (AVRDC 0492B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8902 [ERL 259] BL Parker (AVRDC 0500B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8903 [ERL 265] BL Parker (AVRDC 0523B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8904 [ERL 270] BL Parker (AVRDC 0549B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8905 [ERL 273] BL Parker (AVRDC 0555B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8906 [ERL 277] BL Parker (AVRDC 0567B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8907 [ERL 283] BL Parker (AVRDC 0592B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8908 [ERL 284] BL Parker (AVRDC 0599B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8909 [ERL 286] BL Parker (AVRDC 0611B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8910 [ERL 287] BL Parker (AVRDC 0612B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8911 [ERL 288] BL Parker (AVRDC 0614B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8912 [ERL 362] BL Parker (AVRDC 0459B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8913 [ERL 363] BL Parker (AVRDC 0462B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8914 [ERL 364] BL Parker (AVRDC 0465B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8915 [ERL 365] BL Parker (AVRDC 0493B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8916 [ERL 366] BL Parker (AVRDC 0520B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8941 [ERL 200] BL Parker (AVRDC 0154B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8942 [ERL 201] BL Parker (AVRDC 0166B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8943 [ERL 207] BL Parker (AVRDC 0238B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8944 [ERL 210] BL Parker (AVRDC 0245B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8945 [ERL 212] BL Parker (AVRDC 0262B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8946 [ERL 217] BL Parker (AVRDC 0303B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8947 [ERL 232] BL Parker (AVRDC 0385B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8948 [ERL 233] BL Parker (AVRDC 0389B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8949 [ERL 260] BL Parker (AVRDC 0506B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8950 [ERL 285] BL Parker (AVRDC 0602B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8951 [ERL 329] BL Parker (AVRDC 0193B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8952 [ERL 335] BL Parker (AVRDC 0184B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8953 [ERL 336] BL Parker (AVRDC 0186B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8954 [ERL 341] BL Parker (AVRDC 0376B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8955 [ERL 346] BL Parker (AVRDC 0398B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8956 [ERL 685] M Brownbridge (CA-132) and S Gouli. Isolated from soil sample. 2002. USA: California.

8957 [ERL 686] M Brownbridge (CA-135) and V Gouli. Isolated from soil sample. 2002. USA: California.

8989 [ARSEF 8945] MM Wheeler. 17 Apr 2009. Laboratory isolation. Spontaneous color mutant (brown) selected from ERL 212, ARSEF 8945.

9150 [ERL 738] M Brownbridge (CA-714) and S Gouli. Isolated from soil sample. 2002. USA: California.

9151 [ERL 739] M Brownbridge (CA-715) and S Gouli. Isolated from soil sample. 2002. USA: California.

9152 [ERL 740] M Brownbridge (CA-716) and V Gouli. Isolated from soil sample. 2002. USA: California.

9153 [ERL 741] M Brownbridge (CA-770) and S Gouli. Isolated from soil sample. 2002. USA: California.

9154 [ERL 742] M Brownbridge (CA-717) and S Gouli. Isolated from soil sample. 2002. USA: California.

9155 [ERL 743] M Brownbridge (CA-718) and V Gouli. Isolated from soil sample. 2002. USA: California.

9156 [ERL 744] M Brownbridge (CA-719) and S Gouli. Isolated from soil sample. 2002. USA: California.

9157 [ERL 745] M Brownbridge (CA-720) and S Gouli. Isolated from soil sample. 2002. USA: California.

9158 [ERL 746] M Brownbridge (CA-721) and V Gouli. Isolated from soil sample. 2002. USA: California.

9159 [ERL 747] M Brownbridge (CA-722) and S Gouli. Isolated from soil sample. 2002. USA: California.

9160 [ERL 748] M Brownbridge (CA-723) and S Gouli. Isolated from soil sample. 2002. USA: California.

9161 [ERL 749] M Brownbridge (CA-724) and V Gouli. Isolated from soil sample. 2002. USA: California.

9162 [ERL 750] M Brownbridge (CA-725) and S Gouli. Isolated from soil sample. 2002. USA: California.

9217 B Kumashiro. *Blosyrus asellus* [Coleoptera: Curculionidae]. Rec'd 8 Jul 2009. USA: Pearl City, Hawaii.

9218 B Kumashiro. *Blosyrus asellus* [Coleoptera: Curculionidae]. Rec'd 8 Jul 2009. USA: sweet potato farm, Waipio, Hawaii.

9235 [ERL 276] BL Parker (AVRDC 0561B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

9236 [ERL 328] BL Parker (AVRDC 0076B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

9279 [ERL 1579] VS Gouli (Thr-08-M3). Isolated from soil sample. 2008. USA: Vermont.

9280 [ERL 1580] VS Gouli (Thr-08-M4). Isolated from soil sample. 2008. USA: Vermont.

9281 [ERL 1581] VS Gouli (Thr-08-M5). Isolated from soil sample. 2008. USA: Vermont.

9282 [ERL 1582] VS Gouli (Thr-08-M6). Isolated from soil sample. 2008. USA: Vermont.

9283 [ERL 1583] VS Gouli (Thr-08-M7). Isolated from soil sample. 2008. USA: Vermont.

9284 [ERL 1584] VS Gouli (Thr-08-M8). Isolated from soil sample. 2008. USA: Vermont.

9285 [ERL 1585] VS Gouli (Thr-08-M9). Isolated from soil sample. 2008. USA: Vermont.

9286 [ERL 1586] VS Gouli (Thr-08-M10). Isolated from soil sample. 2008. USA: Vermont.

9287 [ERL 1587] VS Gouli (Thr-08-M11). Isolated from soil sample. 2008. USA: Vermont.

9288 [ERL 1588] VS Gouli (Thr-08-M12). Isolated from soil sample. 2008. USA: Vermont.

9303 [ERL 1596] VS Gouli (Thr-08-M13). Isolated from soil sample. 2008. USA: Vermont.

9304 [ERL 1597] VS Gouli (Thr-08-M14). Isolated from soil sample. 2008. USA: Vermont.

9305 [ERL 1598] VS Gouli (Thr-08-M15). Isolated from soil sample. 2008. USA: Vermont.

9306 [ERL 1599] VS Gouli (Thr-08-M16). Isolated from soil sample. 2008. USA: Vermont.

9307 [ERL 1607] VS Gouli (Thr-08-M17). Isolated from soil sample. 2008. USA: Vermont.

9308 [ERL 1608] VS Gouli (Thr-08-M18). Isolated from soil sample. 2008. USA: Vermont.

9309 [ERL 1609] VS Gouli (Thr-08-M19). Isolated from soil sample. 2008. USA: Vermont.

9310 [ERL 1610] VS Gouli (Thr-08-M20). Isolated from soil sample. 2008. USA: Vermont.

9311 [ERL 1611] VS Gouli (Thr-08-M21). Isolated from soil sample. 2008. USA: Vermont.

9312 [ERL 1612] VS Gouli (Thr-08-M22). Isolated from soil sample. 2008. USA: Vermont.

9313 [ERL 1613] VS Gouli (Thr-08-M23). Isolated from soil sample. 2008. USA: Vermont.

9314 [ERL 1614] VS Gouli (Thr-08-M24). Isolated from soil sample. 2008. USA: Vermont.

9315 [ERL 1615] VS Gouli (Thr-08-M25). Isolated from soil sample. 2008. USA: Vermont.

9316 [ERL 1616] VS Gouli (Thr-08-M26). Isolated from soil sample. 2008. USA: Vermont.

9317 [ERL 1617] VS Gouli (Thr-08-M27). Isolated from soil sample. 2008. USA: Vermont.

9318 [ERL 1618] VS Gouli (Thr-08-M28). Isolated from soil sample. 2008. USA: Vermont.

9319 [ERL 1619] VS Gouli (Thr-08-M29). Isolated from soil sample. 2008. USA: Vermont.

9320 [ERL 1620] VS Gouli (Thr-08-M30). Isolated from soil sample. 2008. USA: Vermont.

9321 [ERL 1621] VS Gouli (Thr-08-M31). Isolated from soil sample. 2008. USA: Vermont.

9322 [ERL 1622] VS Gouli (Thr-08-M32). Isolated from soil sample. 2008. USA: Vermont.

9323 [ERL 1623] VS Gouli (Thr-08-M33). Isolated from soil sample. 2008. USA: Vermont.

9324 [ERL 1624] VS Gouli (Thr-08-M34). Isolated from soil sample. 2008. USA: Vermont.

9325 [ERL 1625] VS Gouli (Thr-08-M35). Isolated from soil sample. 2008. USA: Vermont.

9326 [ERL 1626] VS Gouli (Thr-08-M36). Isolated from soil sample. 2008. USA: Vermont.

9327 [ERL 1627] VS Gouli (Thr-08-M37). Isolated from soil sample. 2008. USA: Vermont.

9328 [ERL 1628] VS Gouli (Thr-08-M38). Isolated from soil sample. 2008. USA: Vermont.

9329 [ERL 1629] VS Gouli (Thr-08-M39). Isolated from soil sample. 2008. USA: Vermont.

9330 [ERL 1630] VS Gouli (Thr-08-M40). Isolated from soil sample. 2008. USA: Vermont.

9331 [ERL 1631] VS Gouli (Thr-08-M41). Isolated from soil sample. 2008. USA: Vermont.

9332 [ERL 1632] VS Gouli (Thr-08-M42). Isolated from soil sample. 2008. USA: Vermont.

9333 [ERL 1633] VS Gouli (Thr-08-M43). Isolated from soil sample. 2008. USA: Vermont.

9372 A Morales (#1B). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 5 Nov 2004. USA: Battle Island State Park Golf Course, Fulton, New York.

9373 A Morales (#3). Larva, *Amphimallon majale* [Coleoptera: Scarabaeidae]. 2 Nov 2004. USA: Wayne Hills Country Club, Lyons, New York.

9374 A Morales (#6). Adult, *Listronotus maculicollis* [Coleoptera: Curculionidae]. 29 Jun 2005. USA: Robert Trent Jones Golf Course at Cornell University, Ithaca, New York.

9439 [ERL 1052] M Brownbridge (CA-170). Isolated from soil sample. 2002. USA: California.

9541 [SRCAMB VL-1691/4] V Likhovidov. Pupa, [Lepidoptera]. 19 Sep 2004. Russian Federation: Caucasus region, Mostovsky District, Krasnodarsky Krai. Field Collection Number F-571.

9590 [ERL 1054] S Gouli and V Gouli (HWA(1080)). *Adelges tsugae* [Hemiptera: Adelgidae]. 2005. USA: Massachusetts.

9591 [ERL 1055] S Gouli (ESC-1(607)WFT) and V Gouli. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 2006.

9593 [ERL 1171] M Brownbridge (CA-1) and S Gouli. 2002.

9939 [ERL 1723] S Gouli (GA-09-M) and V Gouli. [Diptera]. 2009. USA: Vermont.

10131 [ERL 1540] S Gouli (Thr.-08-M-1) and V Gouli. Isolated from soil sample. 2008. USA: Underhill, Vermont.

10135 [ERL 1795] S Gouli and V Gouli (Thr.-10-13). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.

10136 [ERL 1796] S Gouli (Thr.-10-14) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.

10137 [ERL 1797] S Gouli and V Gouli (Thr.-10-15). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.

10469 [CSIRO FI-1045] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Patented, commercialized strain (BioCane). **RESTRICTED ACCESS:** *consult Curator*.

11637 [ERL 49] *Helicoverpa zea* [Lepidoptera: Noctuidae]. 1983. USA.

11661 [NCRI 250/02] K Westrum. Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 18 Nov 2002. Norway: c) øko 0-10, Høgetveit, Telemark. **RESTRICTED ACCESS:** *consult Curator*.

11694 Z Demirbag (Gg7) ← E Sönmez. *Gryllotalpa gryllotalpa* [Orthoptera: Gryllotalpidae]. Jan 2011. Turkey: Trabzon City, Trabzon.

11742 [ERL 1972] Isolated from soil from ant nest. 2011. USA: Luckenbach Road, Texas.

11840 [ERL 2021] S Gouli and V Gouli (THR-11-13). [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.

11850 [ERL 2031] S Gouli and V Gouli (THR-11-21). [Coleoptera: Elateridae]. 2011. USA: Sharon Springs, New York.

11945 R Casique and SR Sánchez Peña (2M10). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Rec'd 20 Feb 2013. Mexico: General Terán, Nuevo León.

11946 R Casique and SR Sánchez Peña (FM4). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Rec'd 20 Feb 2013. Mexico: Tecolutla, Veracruz.

11947 R Casique and SR Sánchez Peña (FM6). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Rec'd 20 Feb 2013. Mexico: Tecolutla, Veracruz.

11951 KS Halat and DI Shapiro Ilan. *Cotinis nitida* [Coleoptera: Scarabaeidae]. 24 Oct 2012. USA: pecan orchard, Fort Valley, Georgia.

12466 ST Jaronski (13WS19). *Cephus cinctus* [Hymenoptera: Cephidae]. 4 Sep 2013. USA: East Knee, Chouteau County, Montana.

12798 [OKSTATE 80] EJ Rebek and JA Rodriguez-Contreras ← SR Sánchez Peña. Larva, *Phyllophaga* sp. [Coleoptera: Scarabaeidae]. Summer 2014. USA: Lakeside Memorial Golf Course, Stillwater, Oklahoma.

12866 [CENARGEN CG 812; IP 1] Isolated from cerrado soil sample using Chase medium. 16 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 15' 36.0", W 52° 53' 18.6". **RESTRICTED ACCESS:** *contact Curator*.

12867 [CENARGEN CG 594; IP 16] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 16 Nov 2000. Brazil: Emas National Park, Goiás. S 17° 55' 46.9", W 52° 57' 47.9". **RESTRICTED ACCESS:** *contact Curator*.

12868 [CENARGEN CG 599; IP 23] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 16 Nov 2000. Brazil: Emas National Park, Goiás. S 17° 54' 16.5", W 52° 54' 35.0". **RESTRICTED ACCESS:** *contact Curator*.

12869 [CENARGEN CG 604; IP 30] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 14' 26.1", W 52° 51' 42.00". **RESTRICTED ACCESS:** *contact Curator*.

12871 [CENARGEN CG 608; IP 35] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 10' 56.1", W 52° 44' 34.5". **RESTRICTED ACCESS:** *contact Curator*.

12872 [CENARGEN CG 612; IP 39] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

12873 [CENARGEN CG 614; IP 41] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

12874 [CENARGEN CG 620; IP 46] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

12875 [CENARGEN CG 657; IP 59] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 15' 26.7", W 52° 54' 24.6". **RESTRICTED ACCESS:** *contact Curator*.

12876 [CENARGEN CG 661; IP 63] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 18 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 16' 40.0", W 52° 54' 57.3". **RESTRICTED ACCESS:** *contact Curator*.

12877 [CENARGEN CG 667; IP 72] Isolated from cerrado soil sample using Chase medium. 18 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 15' 34.9", W 53° 00' 19.6". **RESTRICTED ACCESS:** *contact Curator*.

12878 [CENARGEN CG 683; IP 85] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 22 Jan 2001. Brazil: northern Goiás state, Goiás. S 15° 22' 06.5", W 47° 27' 17.1. **RESTRICTED ACCESS:** *contact Curator*.

12879 [CENARGEN CG 693; IP 86] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 23 Jan 2001. Brazil: northern Goiás state, Goiás. S 15° 30' 33.2, W 47° 26' 20.4". **RESTRICTED ACCESS:** *contact Curator*.

12880 [CENARGEN CG 703; IP 96] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 23 Jan 2001. Brazil: northern Goiás state, Goiás. S 14° 09' 21.0", W 47° 32' 47.6". **RESTRICTED ACCESS:** *contact Curator*.

12881 [CENARGEN CG 727; IP 101] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 23 Jan 2001. Brazil: northern Goiás state, Goiás. S 14° 09' 44.6", W 47° 37' 54.0". **RESTRICTED ACCESS:** *contact Curator*.

12882 [CENARGEN CG 762; IP 117] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 25 Jan 2001. Brazil: northern Goiás state, Goiás. S 14° 22' 46.8", W 48° 05' 15.2". **RESTRICTED ACCESS:** *contact Curator*.

12883 [CENARGEN CG 763; IP 118] Isolated from cerrado soil sample using Chase medium. 25 Jan 2001. Brazil: northern Goiás state, Goiás. S 14° 25' 02.5", W 48° 05' 09.4". **RESTRICTED ACCESS:** *contact Curator*.

12884 [CENARGEN CG 765; IP 120] Isolated from cerrado soil sample using Chase medium. 26 Jan 2001. Brazil: northern Goiás state, Goiás. S 15° 49' 43", W 48° 59' 30.0". **RESTRICTED ACCESS:** *contact*

Curator.

12886 [CENARGEN CG 770; IP 125] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait and using Chase medium. 26 Jan 2001. Brazil: northern Goiás state, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

12887 [CENARGEN CG 775; IP 139] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 24 Sep 2000. Brazil: Silvânia National Forest, Goiás. S 16° 37' 55.7", W 48° 39' 08.1". **RESTRICTED ACCESS:** *contact Curator*.

12890 [CENARGEN CG 781; IP 151] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 24 Sep 2000. Brazil: Silvânia National Forest, Goiás. S 16° 38' 20.6", W 48° 39' 24.1". **RESTRICTED ACCESS:** *contact Curator*.

12907 A Khan (TAB 8) or (TA #8 UWI). Isolated from soil sample using *Galleria mellonella* L. [Lepidoptera: Pyralidae] larvae as bait. 6 May 2014. West Indies: Tabaquite, Trinidad and Tobago.

13138 18 Apr 2015.

13170 SR Sánchez Peña (17). Larva, Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap soil. Jul 2014. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuila.

13171 SR Sánchez Peña (23). Larva, Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap soil. Jul 2014. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuila.

13172 SR Sánchez Peña (58). Larva, Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap soil. Jul 2014. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuila.

13218 MA Ansari (BNL101). *Frankliniella occidentalis* [Thysanoptera: Thripidae]. Rec'd 17 Mar 2016. United Kingdom: Kings Chapel, Kingston, Hertfordshire, England.

13219 MA Ansari (BNL102). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 17 Mar 2016. United Kingdom: Kington, Wales, Hertfordshire, England.

13220 MA Ansari (BNL103). *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 17 Mar 2016. Wales: National Botanical Gardens of Wales, Carmarthenshire.

13221 MA Ansari (BNL104). *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 17 Mar 2016. United Kingdom: Kington, Wales, Hertfordshire, England.

13222 MA Ansari (BNL105). *Tipula paludosa* [Diptera: Tipulidae] turf. Rec'd 17 Mar 2016. Wales.

13231 Larva, [Diptera: Culicidae]. 5 Feb 2016. Brazil: RPPN SB Eco.. **RESTRICTED ACCESS:** *contact Curator*.

13247 Sentinel larva, [Diptera: Culicidae]. 8 Feb 2016. Brazil: Gurupi Represa Unig, Tocantins. 11? 44' 08.84" S 49? 07' 29.94" W Sentinal 4 **RESTRICTED ACCESS:** *contact Curator*.

13348 [ST Jaronski 16WS08] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48?10.510'N 111?32.886'W.

13349 [ST Jaronski 16WS09] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48?10.510'N 111?32.886'W.

13350 [ST Jaronski 16WS10] *Triticum aestivum* [Poales: Poaceae]. 2016. USA: Cut Bank, Glacier County, Montana. Endophyte 48?37'45.60"N 112?17'57.74W.

***Metarhizium anisopliae* sensu stricto** (Metschnikoff) Sorokin
[Sordariomycetes: Hypocreales]

Clavicipitaceae. These isolates have been genomically confirmed to belong in this narrowly redefined species (Bischoff et al. 2009)

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587 JM Lenné (C7). *Mocis* sp. [Lepidoptera: Noctuidae]. Rec'd 13 Apr 1981. Colombia: Carimagua.

755 [CNPAF 82-4-5-01; CP 39] RA Daoust ← J da Silva Carneiro. [Hemiptera: Pentatomidae]. 5 Apr 1982. Brazil: UEPAE/Manaus, Manaus, Amazonas.

798 DA Rodriguez Sierra. Nymph, *Aeneolamia varia* [Hemiptera: Cercopidae]. 1979. Colombia: Villavicencio, Meta.

1044 [EPABA E-6(ESMC)] DW Roberts ← J Ventura. *Deois flavopicta* [Hemiptera: Cercopidae]. Acc'd 13 Jan 1984. Brazil: Espírito Santo.

1045 [ARSEF 1299; EPABA A-24] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Aug 1978. Brazil: Bahia.

1080 LA Lacey. *Helicoverpa zea* [Lepidoptera: Noctuidae]. Fall 1983. USA: Gainesville, Florida.

1489 [INRA Ma-139] GG Soares ← G Riba. *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Acc'd 21 Aug 1984. France.

1883 [CENARGEN CG 168; CP 172] DW Roberts ← JFS Martins. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 11 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.

1894 [ATCC 60336; EPABA A-4] DW Roberts ← E Matta. *Mahanarva posticata* [Hemiptera: Cercopidae]. Acc'd 11 Jun 1985. Brazil: Salvador, Bahia.

1900 [EPABA A-19 (BAMC)] DW Roberts ← E Matta. *Deois flavopicta* [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.

1912 [EPABA 1141(29v)] DW Roberts. [Hemiptera: Cercopidae]. Rec'd Aug 1978. Mexico.

2080 DG Holdom ← H Soeharto. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 1985. Indonesia: Sukamundi, Jawa Barat, Java.

2153 MC Rombach (200386-2). *Nephotettix virescens* [Hemiptera: Cicadellidae]. 20 Mar 1986. Indonesia: Maros Research Institute, Maros, Sulawesi Selatan, Celebes.

2223 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae] from artificial production. Jun 1986. Western Samoa: Vaoala, Apia.

2421 DG Holdom (050187-5). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 Jan 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.

2517 [CP 226] F Moscardi. *Deois flavopicta* [Hemiptera: Cercopidae]. Acc'd 8 Dec 1987. Brazil: Joquapita.

2518 [CP 224] *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 8 Dec 1987. New Zealand.

2627 [CNPAF Pl-43; CP 242] DW Roberts ← Planalsucar. *Mahanarva posticata* [Hemiptera: Cercopidae]. 23 May 1988. Brazil: Usina Pedrosa, Pernambuco.

2786 RA Humber ← II Kirijak. [Orthoptera: Gryllotalpidae]. Jul 1989. Commonwealth of Independent States: Kishinev, Moldova.

3187 GW Riethmacher (B43a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 3 May 1990. Philippines: La Trinidad, Benguet.

3621 IMI (299982). *Aeneolamia varia* [Hemiptera: Cercopidae]. Rec'd 26 Feb 1992. Trinidad and Tobago.

3924 DR Sosa-Gómez (CNPSo-Ma58) ← LJ Oliveira. *Phyllophaga cuyabana* [Coleoptera: Scarabaeidae]. 22 Nov 1990. Brazil: Boa Esperança, Paraná.

5471 TJ Poprawski (TJP936). Larva, *Eoreuma loftini* [Lepidoptera: Pyralidae]. Rec'd 9 May 1997. USA: sugarcane field, Weslaco, Texas.

6317 [CIAT 001] D Peck. Adult, *Zulia pubescens* [Hemiptera: Cercopidae]. 12 Feb 1998. Colombia: Florencia, Caquetá.

6318 Adult, male, *Zulia pubescens* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.

6347 Nymph, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.

6546 D Chandler (HRI 36.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.

7418 [CSIRO FI-0322] Larva, [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.

7419 [CSIRO FI-0323] Larva, [Diptera: Stratiomyidae]. 17 Jan 1989. Australia: Sommerfield, Queensland.

7423 [CSIRO FI-0331] Larva, [Diptera: Stratiomyidae]. 2 Jan 1989. Australia: Fairymead, Queensland.

7426 [CSIRO FI-0427] Larva, [Diptera: Stratiomyidae]. 14 Apr 1989. Australia: Dorvenison, Innisfail, Queensland.

7427 [CSIRO FI-0487] Adult, [Diptera: Stratiomyidae]. 2 Jun 1989. Australia: pupation site, Sommerfield, Queensland.

7428 [CSIRO FI-0488] Adult, [Diptera: Stratiomyidae]. 2 Jun 1989. Australia: pupation site, Sommerfield, Queensland.

7430 [CSIRO FI-0535] *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 24 Jul 1989. Australia: Kapalga, Northern Territory.

7432 [CSIRO FI-0610] Mound material from nest, *Coptotermes lacteus* [Isoptera: Rhinotermitidae]. 26 Mar 1990. Australia: Brown Mountain, New South Wales.

7450 [CSIRO FI-0976] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 11 Jun 1992. Australia: Queensland.

7487 [CSIRO FI-1029] IMI (168777ii). *Schistocerca gregaria* [Orthoptera: Acrididae]. 1 Jun 1994. Ethiopia. CULTURE EX TYPE.

7979 [IBCB 348] *Mahanarva fimbriolata* [Hemiptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: São Paulo. Metarriz commercial product from Biocontrol, Brazil. **RESTRICTED ACCESS:** *consult Curator*.

7980 [ARSEF 2627; CNPAF PL-43; IBCB CP 242] *Mahanarva posticata* [Hemiptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: Cortês, Pernambuco. Commercial product from Biotech, Brazil. **RESTRICTED ACCESS:** *consult Curator*.

7981 [CENARGEN CG 858; IBCB 10] *Mahanarva fimbriolata* [Hemiptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: Araçatuba, São Paulo. Commercial product from BioCerto, Brazil. **RESTRICTED ACCESS:** *consult Curator*.

8067 [CSIRO FI-0572] *Coptotermes frenchi* [Isoptera: Rhinotermitidae] from tree stump. 5 Mar 1990. Australia: Binya State Forest, Yenda, New South Wales.

8068 [CSIRO FI-0573] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 7 Mar 1990. Australia: Binya State Forest, Yenda, New South Wales.

8072 [CSIRO FI-0582] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8073 [CSIRO FI-0583] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8074 [CSIRO FI-0584] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 20 Mar 1990. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8075 [CSIRO FI-0585] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8080 [CSIRO FI-0586] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8081 [CSIRO FI-0587] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from nest?. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8082 [CSIRO FI-0589] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8083 [CSIRO FI-0590] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8084 [CSIRO FI-0591] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8085 [CSIRO FI-0592] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8086 [CSIRO FI-0593] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 16 Mar 1990. Australia: South Head, Moruya, New South Wales.

8087 [CSIRO FI-0594] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from nest?. 16 Mar 1990. Australia: Runnyford Bridge, South Coast, New South Wales.

8088 [CSIRO FI-0595] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from nest?. 16 Mar 1990. Australia: Runnyford Bridge, South Coast, New South Wales.

8089 [CSIRO FI-0596] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut?. Mar 1990. Australia: Bermagui Mill, New South Wales.

8090 [CSIRO FI-0597] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. Mar 1990. Australia: Beauty Point, North Bermagui, New South Wales.

8091 [CSIRO FI-0598] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. Mar 1990. Australia: Beauty Point, North Bermagui, New South Wales.

8093 [CSIRO FI-0600] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut?. 13 Mar 1990. Australia: Nowra Mill, New South Wales.

8094 [CSIRO FI-0601] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 14 Mar 1990. Australia: 2 km W Princes Highway near Sussex Inlet, South Coast, New South Wales.

8095 [CSIRO FI-0602] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 14 Mar 1990. Australia: 2 km W Princes Highway near Sussex Inlet, South Coast, New South Wales.

8101 [CSIRO FI-0662] 13 Jul 1990. Australia: Pearce RAAF Base, Bullsbrook, Western Australia.

8102 [CSIRO FI-0664] 13 Jul 1990. Australia: Paynes Find, Western Australia.

8216 [CSIRO FI-0711] Isolated from soil sample S5. 23 Nov 1990. Burma.

8500 [CSIRO FI-0522] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Jun 1989. Australia: Kingaroy, Queensland.

8560 [CSIRO FI-0860] *Galleria mellonella* [Lepidoptera: Pyralidae]. 11 Jun 1991. Australia: Chapman, Australian Capital Territory.

8561 [CSIRO FI-0861] Isolated from soil sample. 1 Jul 1991. Australia: Chapman, Australian Capital Territory.

8562 [CSIRO FI-0862] Isolated from soil sample. 1 Jul 1991. Australia: Chapman, Australian Capital Territory.

8570 [CSIRO FI-0886] *Nasutitermes exitiosus* [Isoptera: Termitidae] from inner mound material. 4 Mar 1992. Australia: West End Highway, Kangaroo Island, South Australia.

8571 [CSIRO FI-0887] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: West End Highway, Kangaroo Island, South Australia.

8572 [CSIRO FI-0888] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: West End Highway, Kangaroo Island, South Australia.

8574 [CSIRO FI-0890] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: Stokes Bay, Kangaroo Island, South Australia.

8581 [CSIRO FI-0902] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 29 Apr 1992. Australia: Northern Territory.

8584 [CSIRO FI-0905] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 29 Apr 1992. Australia: Northern Territory.

8585 [CSIRO FI-0906] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 29 Apr 1992. Australia: Northern Territory.

8586 [CSIRO FI-0910] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.

8587 [CSIRO FI-0914] *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 1 Jul 1992. Australia: Gunn Point, Northern Territory.

8588 [CSIRO FI-0915] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 1 Jul 1992. Australia: Gunn Point, Northern Territory.

8589 [CSIRO FI-0916] Adult, *Mastotermes darwiniensis* [Isoptera: Mastotermitidae]. 1 Jul 1992. Australia: Gunn Point, Northern Territory.

8590 [CSIRO FI-0918] *Microcerotermes* sp. [Isoptera: Termitidae]. 1 Jul 1992. Australia: Howard Springs, Northern Territory.

8611 [CSIRO FI-0885] Isolated from soil sample near mound of *Nasutitermes exitiosus*, Termitidae. 4 Mar 1992. Australia: Emu Bay, Kangaroo Island, South Australia.

8614 [CSIRO FI-0923] 12 Jul 1992. Papua New Guinea. Light spored form of ARSEF 8612.

8615 [CSIRO FI-0947] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, 610, Queensland.

8616 [CSIRO FI-0948] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, 610, Queensland.

8617 [CSIRO FI-0950] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, 610, Queensland.

8622 [CSIRO FI-0956] 22 Jul 1992. Australia: Queensland.

8738 [CSIRO FI-1007] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

10472 C Thamarai Chelvi (1). *Holotrichia serrata* [Coleoptera: Scarabaeidae]. 25 Aug 2009. India: Bannari Amman Sugar Mill area, Sathyamangalam, Tamil Nadu.

10473 C Thamarai Chelvi (2). *Spodoptera litura* [Lepidoptera: Noctuidae]. 21 Oct 2009. India: Coimbatore, Tamil Nadu. Tamil Nadu Agricultural University, Department of Plant Pathology.

10474 C Thamarai Chelvi (3). Rec'd 8 Dec 2010. India: Salem Sugar Mill area, Rasipuram, Tamil Nadu.

10475 C Thamarai Chelvi (4). *Holotrichia consanguinea* [Coleoptera: Scarabaeidae]. 6 Apr 2010. India: Timiri village, Vellore Sugar Mill area, Vellore, Tamil Nadu.

10476 C Thamarai Chelvi (5). *Holotrichia serrata* [Coleoptera: Scarabaeidae]. 2 Mar 2010. India: Salem Sugar Mill area, Rasipuram, Tamil Nadu.

10477 C Thamarai Chelvi (6). Rec'd 8 Dec 2010.

12544 O Nishi (Okn5-1) and S Shimizu. Isolated from soil sample. Nov 2010. Japan: Okinawa Prefecture.

12545 O Nishi (Yks9-1) and S Shimizu. Isolated from soil sample. Sep 2008. Japan: Yakushima Island, Kagoshima Prefecture.

13608 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Keith County, Nebraska.

13621 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13622 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13626 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Keith County, Nebraska.

Metarhizium anisopliae* var. *acridum Driver, Milner & Trueman
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reassignment under classification of Bischoff et al. (2009), presumably to *M. acridum*.

3606 IMI (I91-609). *Zonocerus variegatus* [Orthoptera: Pyrgomorphidae]. Rec'd 26 Feb 1992. Benin.

3614 IMI (I91-671). *Kraussaria angulifera* [Orthoptera: Acrididae: Cyrtacanthacridinae]. Rec'd 26 Feb 1992. Benin.

5734 ST Jaronski (SP3). [Orthoptera: Acrididae]. Rec'd 12 Jun 1998. Madagascar.

7522 [ARSEF 324] RJ St. Leger. Feb 1979. Australia: Queensland.

7970 [CSIRO FI-985] *Austracris guttulosa* [Orthoptera: Acrididae]. 29 Aug 1992. Australia: Rockhampton, Queensland. This is the active ingredient in Green Guard, an Australian biocontrol product.

8359 [CSIRO FI-0985] DEN Rangel and DW Roberts (F985). *Austracris guttulosa* [Orthoptera: Acrididae]. Rec'd 20 Feb 2007. Australia: Rockhampton, Queensland. **RESTRICTED ACCESS:** *consult Curator*.

8360 DEN Rangel and DW Roberts. Rec'd 20 Feb 2007. Patented, commercialized strain, Green Guard? biological pesticide. **RESTRICTED ACCESS:** *consult Curator*.

Metarhizium anisopliae* var. *anisopliae
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the classification of Bischoff et al. (2009).

6550 D Chandler (HRI 331.92). Larva, *Eumerus strigatus* [Diptera: Syrphidae]. Rec'd 13 Jul 2000. United Kingdom.

Metarhizium anisopliae* var. *lepidiotae Driver, Milner & Trueman
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the emergent classification of Bischoff et al. (2009), presumably to *M. lepidiotae*.

7453 [ARSEF 7488; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.

8732 [CSIRO FI-0147] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 29 May 1986. Australia: Mossman, Queensland. CULTURE EX TYPE.

Metarhizium argentinense
[Sordariomycetes: Hypocreales]

13509 [C López Lastra CEP 414] Nymph, [Blattodea]. 10 Jun 2013. Argentina: Parque Nacional El Palmar , Colón, Entre Ríos.

13510 [C López Lastra CEP 424] Nymph, *Epilampra* sp. [Blattodea: Blaberidae]. 14 Aug 2013. Argentina: Reserva Natural El Destino, Magdalena, Buenos Aires.

Metarhizium brasiliense Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Formerly treated as *Metarhizium flavovirde* "Type E" by Driver, Milner & Trueman (2000, Mycol Res 104: 134-150). EX-TYPE CULTURE

2948 [CP 271] SP Wraight ← LG Leite. [Hemiptera: Cicadellidae]. 30 Apr 1989. Brazil: Campinas, São Paulo. CULTURE EX TYPE.

Metarhizium brunneum Petch
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Restored from synonymy variously with *M. anisopliae* and *M. album* as part of the genomic classification of Bischoff et al. (2009).

346 [CSIRO FI24] *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Acc'd 4 Apr 1980. Australia: Adelaide, South Australia.

455 [QEC 410.0] RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

472 [CSIRO FI55; DAR 29768] J Walker ← A Wescott. [Coleoptera: Scarabaeidae]. Sep 1977. Australia: BCRI, R.D. 66, Rydalmere, New South Wales.

817 GG Soares (17). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.

820 GG Soares (A7) ← M Marchal. 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1982. France: Angers, Maine-et-Loire.

988 J Aoki (Met. 1). *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Fuchu, Tokyo Prefecture.

1066 [ARSEF ?397] TJ Poprawski ← S Keller (92). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 29 May 1981. Switzerland: Iselisberg.

1095 DW Roberts ← S Keller (Ma 43). *Carpocapsa pomonella* [Lepidoptera: Olethreutidae]. Acc'd 16 Feb 1984. Austria. Strong destruxin producer.

1112 KV Deseö (32B) ← Becchi. Pupa, *Lobesia botrana* [Lepidoptera: Tortricidae]. Apr 1982. Italy: Modena, Emilia-Romagna.

1116 KV Deseö (40B) ← Celli. Pupa, *Leucoptera scitella* [Lepidoptera: Lyonetiidae]. Aug 1982. Italy: Ravenna, Emilia-Romagna.

1187 [INRA Ma-23] TJ Poprawski ← GCN Latch. *Oxycanus* sp. [Lepidoptera: Hepialidae]. 20 Jan 1966. New Zealand: Palmerston North, North Island.

1278 IMI (170289) ← GL Barron. Soil. 1973. Canada.

2042 [IMI 113863] MC Rombach ← GL Barron (10277). Peat soil in cedar bog. 1960. Canada: Guelph, Ontario.

2107 [CBS 316.51; IMI 014746; NRRL 1944; QM 191] MC Rombach ← KB Raper and LP Rockwood. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. 29 Jun 1933. USA: Forest Grove, Oregon. CULTURE EX TYPE.

2210 [ARSEF 2225] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwurung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.

2224 MC Rombach (140486). [Coleoptera: Curculionidae]. 14 Apr 1986. Indonesia.

2742 GW Riethmacher (B4T8). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 6 Feb 1989. Philippines: Atok, Benguet.

2764 SR Sánchez Peña (1). Dermaptera isolate passed through *Pogonomyrmex* sp. [Hymenoptera: Formicidae]. 22 Apr 1987. Mexico: Tecomán, Colima.

2974 C López Lastra. Adult, *Aedes crinifer* [Diptera: Culicidae]. 30 Nov 1988. Argentina: Los Talas, Berisso, Buenos Aires.

3045 WE Jones (FST). *Coptotermes formosanus* [Isoptera: Rhinotermitidae]. May 1990. USA: Oahu, Hawaii.

3294 J Gutierrez Samperio (10) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1989. Mexico: Colima.

3295 J Gutierrez Samperio (11) ← ERD Reyes. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on soybeans. 1987. Mexico: Tamaulipas.

3297 J Gutierrez Samperio (13) ← ERD Reyes. *Boophilus* sp. [Acari: Ixodidae] on cow. 1987. Mexico: Colima.

3738 SR Sánchez Peña. Alate, *Solenopsis invicta* [Hymenoptera: Formicidae]. Rec'd 6 Jul 1992. USA: Texas A&M University campus, College Station, Texas.

3826 CF Andrade (IF#2). Larva, *Ochlerotatus triseriatus* [Diptera: Culicidae]. 11 May 1992. USA: Stair Park, Vestal, New York.

3864 LA Lacey (92141). *Popillia japonica* [Coleoptera: Scarabaeidae]. 22 Oct 1992. Portugal: Terceira Island, Azores.

4020 T Steenberg (211) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Jul 1990. Denmark: Silkeborg, Århus.

4125 [DAT 2] AC Rath (Fl24). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 May 1986. Australia.

4131 [DAT 10] AC Rath (F010). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Waitpinga, South Australia.

4152 [DAT 147] AC Rath (F147) ← H Yip (HY214). Soil. 26 Oct 1988. Australia: Buckland, Tasmania.

4158 [DAT 166] AC Rath (F166) ← H Yip (HY195). Soil. 13 Oct 1988. Australia: Huonville, Tasmania.

4164 [DAT 192] AC Rath (F192) ← H Yip (HY169). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.

4168 [DAT 196] AC Rath (F196) ← H Yip (HY165). Soil. 20 Sep 1994. Australia: Frankford, Tasmania.

4176 [DAT 205] AC Rath (F205) ← H Yip (HY157). Soil. 9 Sep 1988. Australia: Beechford, Tasmania.

4179 [DAT 208] AC Rath (F208) ← H Yip (HY153). Soil. 23 Aug 1988. Australia: Montumana, Tasmania.

4228 [CRI 35-79; DAT 120] AC Rath (F120) ← AT Gillespie. Larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 28 Jan 1988. Australia: Crops Research Inst..

4251 [DAT 213] AC Rath (F213) ← H Yip (HY148). Soil. 23 Aug 1988. Australia: Montumana, Tasmania.

4556 [DAT 506; IMI 384583] AC Rath (F506). *Boophilus* sp. [Acari: Ixodidae]. 29 Sep 1993. USA: Florida.

4615 [DAT 369] AC Rath (F369) ← H Yip (HY229). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.

4681 [DAT 508] AC Rath (F508). Larva, *Wiseana sp.* [Lepidoptera: Hepialidae]. 17 Nov 1993. New Zealand: Waitati, Dunedin, South Island.

5198 RA LeBrun (Bio 1020). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. Germany.

5625 I Vänninen (SF85-56). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 10 Aug 1985. Finland: Toholampi, Vaasan Lääni.

5626 I Vänninen (SF86-38). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Pälkäne, Hämeen Lääni.

5751 MCHCA Bernal (MaPL40). *Schistocerca piceifrons* [Orthoptera: Acrididae]. 1996. Mexico: Isla Socorro, Colima.

5851 T Steenberg (SSL 248). [Araneida] on *Medicago sativa*. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.

6120 C López Lastra. Larva, *Diloboderus abderus* [Coleoptera: Scarabaeidae] from soil. Nov 1996. Argentina: Lincoln, Buenos Aires.

6392 TL Dubois (VD 5 rep b) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Rec'd 22 Dec 1999. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.

6474 I Klingen (SKA.99). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Sep 1999. Norway: Skavanget.

6477 I Klingen (HAG.99). Larva, *Phyllopertha horticola* [Coleoptera: Scarabaeidae] in lawn. 18 Sep 1999. Norway: Moss, Østfold.

7234 AE Hajek (VD-1) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] reared from wood collected in Chicago, IL. Rec'd 5 Jan 2004. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.

7433 [CSIRO FI-0692] 8 Sep 1990. Burma.

7434 [CSIRO FI-0694] Aug 1990. Burma.

7711 [I Earth BioScience F52; IMI 385045] T Corell. Rec'd 1 Jun 2005. Austria. **RESTRICTED ACCESS:** consult Curator.

8069 [CSIRO FI-0574] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 13 Mar 1990. Australia: 16 km north of Goulburn, Goulburn, New South Wales.

8415 AE Hajek (FS6). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 5 Mar 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.

8416 AE Hajek (VD3). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 26 Sep 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.

8417 AE Hajek (VD7). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 20 Jul 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.

8418 AE Hajek (VD8). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 10 Jul 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.

8419 AE Hajek (VD9). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 8 Jul 1999. USA: Quarantine colony, Ansonia, Connecticut.

8515 [CSIRO FI-0774] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8534 [CSIRO FI-0786] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound J (J14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8536 [CSIRO FI-0791] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8537 [CSIRO FI-0792] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound I (I14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8608 [CSIRO FI-0896] Adult, [Orthoptera: Acrididae]. 20 Mar 1992. Australia: Honeysuckle Creek, Tharwa, Australian Capital Territory.

8671 Z Demirbag (KTU-60). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Gümüshane. Identification confirmed by gene sequences.

9608 T Myles (G55ai). Rec'd 16 Mar 2010. Canada: Guelph, Ontario.

12546 O Nishi (Hkd25-1) and S Shimizu. Isolated from soil sample. Mar 2009. Japan: Hokkaido Prefecture.

12547 O Nishi (Hkd7-1) and S Shimizu. Isolated from soil sample. Mar 2009. Japan: Hokkaido Prefecture.

12548 O Nishi (Yks1-1) and S Shimizu. Isolated from soil sample. Sep 2008. Japan: Yakushima Island, Kagoshima Prefecture.

13223 MA Ansari (BNL152). Rec'd 17 Mar 2016. United Kingdom.

13740 [M Burjanadze MB-084] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13741 [M Burjanadze MB-085] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

Metarhizium carneum (Duché & R Heim) A.H.S. Br. & G. Sm.
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Synonyms: *Spicaria carnea* Duché & R Heim; *Paecilomyces carneus* (Duché & R Heim) AHS Br. & G. Sm.

10232 [ERL 1898] S Gouli (Thr.-10-106) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.

10233 [ERL 1899] S Gouli (Thr.-10-107) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.

10243 2010.

10244 2010.

10245 2010.

10246 2010.

10254 2010.

10255 2010.

11821 [ERL 2018] S Gouli (THR-11-10) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Richford, Vermont.

11836 [ERL 2048] S Gouli (THR-11-37) and V Gouli. [Coleoptera: Staphylinidae]. 2011. USA: Sharon Springs, New York.

Metarhizium cylindrosporum QT Chen & HL Guo
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Previously: *Nomuraea cylindrospora* (QT Chen & HL Guo) Tzean, Hsieh, Chen & Wu

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6926 [CBS 256.90] SS Tzean (PPH 13E). *Pomponia linearis* [Hemiptera: Cicadidae]. 1 Jun 1990. Republic of China: Wulai, Taipei, Taiwan. CULTURE EX TYPE.

Metarhizium flavoviride W Gams & Rozsypal
[Sordariomycetes: Hypocreales]
Clavicipitaceae

1184 [ARSEF 2024; CBS 700.74; INRA Mf-88] TJ Poprawski ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1974. France: Brittany, Morbihan. Genomically verified (see Bischoff et al. 2009).

2024 [ARSEF 1184; INRA Mf-88] CBS (700.74) ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 23 Oct 1985. France: Brittany, Morbihan. Genomically verified (see Bischoff et al. 2009).

2025 CBS (125.65) ← W Gams and J Rozsypal. Brassica oleracea (agricultural soil). 1963. Germany: Kiel-Kitzeberg. Genomically verified (see Bischoff et al. 2009).

2026 CBS (473.73) ← W Gams and J Rozsypal ← JW Veenbaas-Rijks. Field soil. 1973. Netherlands. Genomically verified (see Bischoff et al. 2009).

2133 [CBS 218.56; IMI 170146] ATCC (32969) ← J Rozsypal. Larvae & pupae, *Ceutorhynchus macula-alba* [Coleoptera: Curculionidae]. 1956. Czech Republic. CULTURE EX TYPE. Never observed to sporulate.

4221 [DAT 247] AC Rath (F247) ← H Yip (HY114). Soil. 8 Jul 1988. Australia: Latrobe, Tasmania. Genomically verified (see Bischoff et al. 2009).

4272 [DAT 210] AC Rath (F210) ← H Yip (HY151). Soil. 23 Aug 1988. Australia: Smithton, Tasmania. Genomically verified (see Bischoff et al. 2009).

4304 [DAT 393] AC Rath (F393) ← H Yip (HY253). Soil. Rec'd 6 Jun 1994. Australia: Smithton, Tasmania. Not verified by gene sequence data.

4719 [DAT 130] AC Rath (F130). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Campbelltown, Tasmania. Genomically verified (see Bischoff et al. 2009).

4720 [DAT 133] AC Rath (F133). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Mt. Morriston, Ross, Tasmania. Not genomically verified by sequence data.

4727 [DAT 193] AC Rath (F193) ← H Yip (HY168). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania. Genomically verified (see Bischoff et al. 2009).

4729 [DAT 238] AC Rath (F238) ← H Yip (HY123). Soil. 7 Aug 1988. Australia: Tasmania. Geenomically verified (see Bischoff et al. 2009).

4730 [DAT 256] AC Rath (F256) ← H Yip (HY104). Soil. 8 Jun 1988. Australia: Sorell, Tasmania. Genomically verified (see Bischoff et al. 2009).

6416 EA Ouna (Sudan P1 (b)). Rec'd 22 Dec 1999. Not verified by gene sequence data.

8737 [CSIRO FI-1002] *Lachnosterna bidentata* [Coleoptera: Scarabaeidae]. 11 May 1993. Malaysia: Tapah. Not verified by gene sequence data.

8758 [CSIRO FI-1155] *Chortoicetes terminifera* [Orthoptera: Acrididae]. 12 Jan 1996. Australia: Ravensworth, Hunter Valley, New South Wales. Not verified by gene sequence data.

Metarhizium frigidum Bischoff & Rehner in Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. See Mycologia 98: 737-745 (2006). Genomically verified by at least 5'-TEF sequence data

4124 [DAT 1] AC Rath (F001) ← Reinganum (124). Larva, *Adoryphorus* sp. [Coleoptera: Scarabaeidae]. 10 Jun 1994. Australia: Ballarat, Victoria. CULTURE EX TYPE.

4219 [DAT 175] AC Rath (F175) ← H Yip (HY186). Soil. 5 Oct 1988. Australia: Gardners Bay, Tasmania.

4277 [DAT 234] AC Rath (F234) ← H Yip (HY127). Soil. 11 Aug 1988. Australia: Interlaken, Interlaken, Tasmania.

4294 [DAT 281] AC Rath (F281) ← H Yip (HY79). Soil. Rec'd 6 Jun 1994. Australia: Benham, Avoca.

4561 [DAT 385] AC Rath (F385) ← H Yip (HY245). Soil. 1989. Australia: Liawenee, Tasmania.

4680 [DAT 176] AC Rath (F176) ← H Yip (HY185). Soil. 5 Oct 1988. Australia: Cygnet, Tasmania.

4765 [DAT 412] AC Rath (F412) ← H Yip (HY272). Soil. 3 Nov 1988. Australia: Stonehouse, Tasmania.

7436 [CSIRO FI-0733] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Mound F (F5). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7437 [CSIRO FI-0737] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound F (F17). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7438 [CSIRO FI-0746] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound F (F11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7439 [CSIRO FI-0747] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound F (F 11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7440 [CSIRO FI-0748] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Mound G (G3). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7441 [CSIRO FI-0758] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound G (G17). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7442 [CSIRO FI-0761] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound G (G15). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7443 [CSIRO FI-0764] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound G (G14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7444 [CSIRO FI-0776] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound I (I12). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7445 [CSIRO FI-0777] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound I (I18). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7446 [CSIRO FI-0783] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound H (H16). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7447 [CSIRO FI-0785] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Soil around mound J (J11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

7448 [CSIRO FI-0793] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] Mound I (I1). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

Metarhizium globosum JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Recognized as part of an emergent genomic reclassification by Bischoff et al. (2009).

2596 RC Rajak (ENT/12). *Pyrausta machaeralis* [Lepidoptera: Pyralidae] on teak, *Tectona grandis*. Acc'd 12 Sep 1988. India. CULTURE EX TYPE.

Metarhizium guizhouense QT Chen & HL Guo
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from the *M. anisopliae* species complex as part of genomic reclassification of Bischoff et al. (2009), and all isolates genomically verified. Synonym: *M. taii* ZQ Liang & AY Liu. Teleomorph: *Cordyceps taii* ZQ Liang & AY Liu. Isolates genomically verified by at least 5'-TEF sequence data

683 [QEC 433.0] DW Roberts (102381-9). Larva, [Coleoptera: Scarabaeidae] in sugar cane. 23 Oct 1981. PR China: Guanzhou, Kwon Tung.

703 RS Soper. *Bombyx mori* [Lepidoptera: Bombycidae]. 11 Nov 1981. PR China: Hangzhou, Zhijiang.

819 GG Soares (21) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.

977 [GCRI 134-82] RA Hall ← A Vey. *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.

1092 DW Roberts ← K Kawakami (621). Soil. 22 Aug 1983. Japan.

1093 DW Roberts ← K Kawakami (773). Soil. 1982. Japan.

2140 T Searle (N). Larva, [Lepidoptera: Noctuidae]. Jul 1985. Canada: Southern Québec.

3603 IMI (152222) ← Deshpande. *Myllocerus discolor* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. India: Mudigere.

3611 [CSIRO FI 1033] IMI (I91-633). *Pseudosphingonotus savignyi* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Oman.

4153 [DAT 148] AC Rath (F148) ← H Yip (HY213). Soil. 26 Oct 1988. Australia: Bracknell, Tasmania.

4303 [DAT 278] AC Rath (F278) ← H Yip (HY82). Soil. Rec'd 6 Jun 1994. Australia: Campbelltown, Tasmania.

4321 [DAT 375] AC Rath (F375) ← H Yip (HY235). Soil. Rec'd 6 Jun 1994. Australia: Cleveland, Tasmania.

4588 [DAT 47] AC Rath (F047) ← RJ Milner (FI123). Host not specified. 20 Oct 1987. Australia: New South Wales.

4604 [DAT 473] AC Rath (F473) ← W Theunis (PNG 1). *Papuana woodlarkiana* [Coleoptera: Scarabaeidae]. 22 Jun 1993. Papau New Guinea: Lae, Morobe Province.

5714 JM Sung. Rec'd 11 May 1998.

6238 [RCEF 0262] Pupa, [Lepidoptera]. 30 Jun 1996. PR China: Anhui.

7420 [CSIRO FI-0327] Larva, [Diptera: Stratiomyidae]. 20 Jan 1989. Australia: Walkers Point, Queensland.

7502 CSIRO (FI-1417). AMMRL 154.03. 5 Jun 2000. Australia: Royal North Shore Hospital, St. Leonards, New South Wales.

7507 [CSIRO FI-1469] Isolated from soil sample 6E-1. 12 May 2003. Republic of Kiribati.

9732 DW Roberts (DWR 632). Isolated from soil sample SS 3198. 13 Aug 2008. USA: Stevens County, Washington. N 47.9277, W 118.3314.

9743 DW Roberts (DWR 643). Isolated from soil sample SS 1552. 30 Jun 2008. USA: Grant County, Washington. N 47.86587, W 119.08509.

11668 Z Demirbag (As1) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.

11669 Z Demirbag (As2) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.

12552 O Nishi (Hkd25-2) and S Shimizu. Isolated from soil sample. Mar 2009. Japan: Hokkaido Prefecture.

12553 O Nishi (Myg2-1) and S Shimizu. Isolated from soil sample. Jul 2008. Japan: Miyagi Prefecture.

Metarhizium koreanum Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Identifications are genomically confirmed (see Kepler et al., 2014, Mycologia 106: 811-29.

2038 MC Rombach (161085-35) ← SB Ahn (D2-4). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. 16 Oct 1985. Republic of Korea. CULTURE EX TYPE.

2039 MC Rombach (161085-36) ← SB Ahn (E2-13). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. 16 Oct 1985. Republic of Korea.

Metarhizium lepidiotae (Driver & Milner) JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *M. anisopliae* var. *lepidiotae* Driver et al. (2000; as var. *lepidiotum*). Identifications genomically verified by at least 5'-TEF sequence data.

4154 [DAT 151] AC Rath (F151) ← H Yip (HY210). Soil. 26 Oct 1988. Australia: Deloraine, Tasmania.

4587 [DAT 476] AC Rath (F476) ← W Theunis (PNG 3B). *Papuana* or cicada. 22 Jun 1993. Papua New Guinea.

4660 [DAT 475] AC Rath (F475) ← W Theunis (PNG 2B). *Papuana* or cicada. 22 Jun 1993. Papau New Guinea: Lae, Morobe Province.

7411 [CSIRO FI-0151] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.

7412 [CSIRO FI-0152] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.

7488 [ARSEF 7453; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. CULTURE EX TYPE used by Driver et al. (2000) to describe *Metarhiziun anisopliae* var. *lepidiotae*.

8064 [CSIRO FI-0568] *Coptotermes acinaciformis* [Isoptera: Rhinotermitidae] from wood block. 21 Feb 1990. Australia: sawmill, Batemans Bay, New South Wales.

8502 [CSIRO FI-0560] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 12 Jan 1990. Australia: Cotter, Australian Capital Territory.

12554 O Nishi (Ngs1-1) and S Shimizu. Isolated from soil sample. May 2008. Japan: Nagasaki Prefecture.

12555 O Nishi (Yks4-2) and S Shimizu. Isolated from soil sample. Sep 2008. Japan: Yakushima Island, Kagoshima Prefecture.

Metarhizium majus (JR Johnston) JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *M. anisopliae* var. *majus* (JR Johnston) MC Tulloch. If this taxon is verified to be the anamorphic state of the teleomorph now classified as *Metarhizium brittlebankisoides* (Zuo Y Liu, ZQ Liang, Whalley, YJ Yao & AY Liu) Kepler, SA Rehner & Humber, the latter name would hold nomenclatural priority as the correct name for this fungus. Isolates verified genomically by at least 5'-TEF sequence data.

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297 KJ Marschall. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. 22 Nov 1978. Western Samoa: Apia.

298 RS Soper. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 22 Feb 1979. Western Samoa: Apia.

473 [DAR 28052; QEC 429.0] J Walker ← G Johnson. Soil under *Eucalyptus* sp. Jan 1973. Australia: Canberra, Australian Capital Territory.

978 [GCRI 148-82] RA Hall ← A Vey. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.

1015 J Aoki (Met. 4) ← T Kushida. *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Hachioji, Tokyo Prefecture.

1383 Acc'd 26 Jun 1984. Location not specified.

1858 DW Roberts (Pol-42). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.

1859 DW Roberts (Pol-32). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.

1914 MC Rombach. Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Apr 1985. Philippines: nr. Tiaong Experimental Station, Quezon. Ex-epitype isolate for this species.

1946 MC Rombach (MMQ). *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 11 Sep 1985. Philippines: Tiaong Experimental Station, Quezon.

2151 MC Rombach (170386-1). Larva, *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 17 Mar 1986. Indonesia: Ciamis, Jawa Barat, Java.

2808 GW Riethmacher (B16m). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 22 May 1989. Philippines: Atimonan, Quezon.

3145 INRA (Ma-51) ← A Glandard. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Jan 1971. France: La Minière.

4566 [DAT 514] AC Rath (F514). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Leighlands, New England, New South Wales.

4601 [DAT 515] AC Rath (F515). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New South Wales.

7505 [CSIRO FI-1449] *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 12 Jun 2001. Australia: Northern Queensland, Queensland.

8736 [CSIRO FI-1000] *Spodoptera* sp. [Lepidoptera: Noctuidae]. 11 May 1993. Malaysia: Cameron Highlands.

12556 O Nishi (Fkk38-1) and S Shimizu. Isolated from soil sample. Mar 2010. Japan: Fukuoka Prefecture.

12557 O Nishi (Hn1) and S Shimizu. *Protaetia orientalis submarumorea* [Coleoptera: Scarabaeidae]. Mar 2010. Japan: Fukuoka Prefecture.

12558 O Nishi (Kkj2-1) and S Shimizu. Isolated from soil sample. Mar 2009. Japan: Kikai-jima Island, Kagoshima Prefecture.

12559 O Nishi (Kmm6-1) and S Shimizu. Isolated from soil sample. Apr 2008. Japan: Kumamoto Prefecture.

12560 O Nishi (Myz9-2) and S Shimizu. Isolated from soil sample. Apr 2008. Japan: Miyazaki Prefecture.

12561 O Nishi (Oit8-3) and S Shimizu. Isolated from soil sample. Jun 2008. Japan: Oita Prefecture.

12562 O Nishi (Sag14-1) and S Shimizu. Isolated from soil sample. Jun 2008. Japan: Saga Prefecture.

Metarhizium marquandii (Massee) Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonyms: *Verticillium marquandii* Massee; *Paecilomyces marquandii* (Massee) S Hughes

3855 [JB Tavares BRA-000167] MS Tigano-Milani (CG-371). Rec'd 13 Jan 1993. Brazil.

9527 [SRCAMB AS-528] V Likhovidov. Isolated from soil sample. 29 Aug 2004. Russian Federation: Krasnodarsky Krai. Field Collection Number F-970.

9529 [SRCAMB AS-433] V Likhovidov. Isolated from soil sample. Aug 1999. Russian Federation: Tver Region. Field Collection Number F-266.

9530 [SRCAMB AS-582] V Likhovidov. Isolated from soil sample. 16 Jul 2003. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-784.

9928 [ERL 1772] S Gouli (Thr.-09-4) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.

9929 [ERL 1773] S Gouli and V Gouli (Thr.-09-5). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

Metarhizium minus (Rombach, Humber & DW Roberts) Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Basionym: *Metarhizium flavoviride* var. *minus* Rombach, Humber & DW Roberts

1099 DW Roberts (A8). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila. Identification genomically verified by at least 5'-TEF sequence data.

1271 DW Roberts (S). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Aug 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila. Identification genomically verified by at least 5'-TEF sequence data.

1272 DW Roberts (Bq). Biotype 2, *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila. Identification genomically verified by at least 5'-TEF sequence data.

1273 DW Roberts (T2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1274 DW Roberts (BPH-5). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1275 DW Roberts (BPH-8). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1276 DW Roberts (IV). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: Plant Breeding, IRRI, Los Baños, Manila.

1277 DW Roberts (I). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Breeding, IRRI, Los Baños, Manila.

1279 DW Roberts (IX). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.

1283 DW Roberts (VII). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Field, IRRI, Los Baños, Manila.

1287 DW Roberts (BPH-10). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1288 DW Roberts ((i)I). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1289 DW Roberts (BPH-7). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1291 DW Roberts (A1). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1292 DW Roberts (C). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1293 DW Roberts (H). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1294 [ARSEF ?1295] DW Roberts (BPH-3[?]). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1295 [ARSEF ?1294] DW Roberts (BPH-3[?]). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1296 DW Roberts (BPH-6). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1297 DW Roberts (A9). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1301 DW Roberts (VI). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.

1302 DW Roberts (5A). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1303 DW Roberts (A10). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1305 DW Roberts (R). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1546 MC Rombach (Lib.11) ← RM Aguda. *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 1983. Philippines: Bicol region.

1547 MC Rombach (Lib.16) ← RM Aguda. *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 1983. Philippines: Bicol region.

1763 [ATCC 200913] MC Rombach ← T Ho (Sol-31). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal. Identification genomically verified by at least 5'-TEF sequence data.

1764 MC Rombach ← T Ho (Sol-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1765 MC Rombach ← T Ho (Sol-28). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1766 MC Rombach ← T Ho (Sol-5). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1767 MC Rombach ← T Ho (Sol-17). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1768 MC Rombach ← T Ho (Sol-7). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1769 MC Rombach ← T Ho (Sol-14). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1770 MC Rombach ← T Ho (Sol-30). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1771 MC Rombach ← T Ho (Sol-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1772 MC Rombach ← T Ho (Sol-11). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1773 MC Rombach ← T Ho (Sol-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

1945 MC Rombach (MALBIRRI). *Nephotettix virescens* [Hemiptera: Cicadellidae]. Acc'd 11 Sep 1985. Philippines: IRRI, Los Baños, Manila. Identification genomically verified by at least 5'-TEF sequence data.

2023 CBS (544.81) ← HC Evans. [Orthoptera: Acrididae]. 1981. Ecuador: Santa Fe Island, Galapagos Islands.

2037 MC Rombach (051185-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 Nov 1985. Philippines: IRRI, Los Baños, Manila. CULTURE EX TYPE.

2339 MC Rombach (120186-2). [Hemiptera: Cicadellidae] on rice. 12 Jan 1986. Philippines: Palawan.

2381 [ARSEF 2341, 2383 (never frozen)] MC Rombach (120286-2). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

6593 [IITA 189] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: N'Dali, Borgou.

6594 [IITA 190] A Cherry. Abandoned *Macrotermes* termite mound. Rec'd 18 Sep 2000. Benin: Sassaduro, Alibori, Borgou.

6595 [IITA 191] A Cherry. Abandoned termite mound. Rec'd 18 Sep 2000. Benin: Kpebie, Perere, Borgou.

6596 [IITA 192] A Cherry. From bark mixed with sand. Rec'd 18 Sep 2000. Benin: Koda, Tchaourou, Borgou.

6599 [IITA 195] A Cherry. From plant fragments. Rec'd 18 Sep 2000. Benin: Djidja, Zou.

6601 [IITA 197] A Cherry. From soil. Rec'd 18 Sep 2000. Benin: Kpassagon, Zou.

Metarhizium novozealandicum Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Basionym: *Metarhizium flavoviride* var. *novozealandicum* Driver & RJ Milner. Isolates with genomic confirmation of this identification are noted individually.

3056 [MAF F11] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Canterbury Plains, South Island. Genomically verified by at least 5'-TEF sequence data.

3064 [MAF F25] T Glare. Larva, [Lepidoptera: Crambidae]. Rec'd Oct 1990. New Zealand: Christchurch, South Island. Genomically verified by at least 5'-TEF sequence data.

4661 [DAT 220] AC Rath (F220) ← H Yip (HY141). Soil. 23 Mar 1988. Australia: Burnie, Tasmania.

4674 [DAT 368] AC Rath (F368) ← H Yip (HY228). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania.

8214 [CSIRO FI-0702] Larva, [Lepidoptera: Crambidae]. 8 Oct 1990. New Zealand: Christchurch, South Island.

8750 [CSIRO FI-1124] Isolated from soil sample. 26 May 1994. Australia: Macquarie Island, Tasmania.

Metarhizium pemphigi (Driver & RJ Milner) Kepler SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Basionym: *Metarhizium flavoviride* var. *pemphigum* Driver & RJ Milner. All isolates genomically verified by at least 5'-TEF sequence data.

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794 GA Kuter (300). Leaf litter under sugar maple. 1975. USA: Abraham's Woods, University of Wisconsin Arboretum, Green County, Wisconsin.

6569 D Chandler (HRI 99.82). *Pemphigus trehernei* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom: coastal salt marshes, Norfolk, England.

7491 [CSIRO FI-1101] *Pemphigus* sp. [Hemiptera: Aphididae]. 12 May 1994. United Kingdom: Norfolk, England.

9358 T Myles (Guelph RF-08a). *Reticulitermes flavipes* [Isoptera: Rhinotermitidae]. Summer 2008. Canada: Woolwich Termite Management Area (sector 7), Guelph, Ontario. Genomically verified by MJ Bidochka.

12549 O Nishi (Fkk67-2) and S Shimizu. Isolated from soil sample. Sep 2010. Japan: Fukuoka Prefecture.

12550 O Nishi (Hkd27-1) and S Shimizu. Isolated from soil sample. Mar 2009. Japan: Hokkaido Prefecture.

12551 O Nishi (Yks3-2) and S Shimizu. Isolated from soil sample. Sep 2008. Japan: Yakushima Island, Kagoshima Prefecture.

13729 [M Burjanadze MB-073] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

Metarhizium pingshaense QT Chen & HL Guo
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Genomically confirmed in accord with the reclassification of Bischoff et al. (2009).

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436 SJ Gagen (2). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Hexham, Victoria.

437 SJ Gagen (3). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia.

439 SJ Gagen (5). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Byaduck, Victoria.

443 SJ Gagen (9). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Camperdown, Victoria.

444 SJ Gagen (10). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Byaduck, Victoria.

446 SJ Gagen (12). *Teleogryllus commodus* [Orthoptera: Gryllidae]. Rec'd 11 Mar 1980. Australia: Mortlake, Victoria.

456 [QEC 411.0] RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

538 DW Roberts. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 20 Aug 1980. Thailand.

552 DW Roberts ← MA Naves. *Galactica* sp. [Lepidoptera]. Nov 1980. Brazil: Brasília, Distrito Federal.

576 [QEC 427.0] RS Soper (8133-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.

588 [QEC 431.0] JM Lenné (E1). Soil. Rec'd 13 Apr 1981. Colombia: Espinal, Tolima.

712 DW Roberts. 7 May 1981. PR China.

1009 J Aoki (Met. 5) ← K Kojo. *Ornebius kanetataki* [Orthoptera: Gryllidae]. Jul 1976. Japan: Fuchu, Tokyo Prefecture.

1011 J Aoki (Met. 8). Soil. Aug 1982. Japan: Fuchu, Tokyo Prefecture.

1448 [CNPAF 83-12-27; CP 122] E Ferreira. *Scaptores castanea* [Hemiptera: Cydnidae]. 27 Dec 1983. Brazil: Goiatuba, Goiás.

1545 MC Rombach (Ma Pal.II). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. Jun 1984. Philippines: Brooke's Point region, Palawan.

1724 DW Roberts (29103) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1725 DW Roberts (291017) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1726 DW Roberts (291013) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1727 DW Roberts (291015) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1728 DW Roberts (291001) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1729 DW Roberts (2910B) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1744 DW Roberts (291014) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

1823 DW Roberts (29103b) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

2043 MC Rombach (061185-1). *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 6 Nov 1985. Philippines: IRRI field, Los Baños, Manila.

2106 DG Holdom (100286-3). *Nephotettix virescens* [Hemiptera: Cicadellidae]. 10 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.

2162 BN Muthappa (PNG 12721). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2231 K Narayanan (7). *Zygogramma bicolorata* [Coleoptera: Chrysomelidae]. Rec'd 27 Aug 1986. India.

2735 GW Riethmacher (Ma1). *Spodoptera* sp. [Lepidoptera: Noctuidae]. 29 Dec 1988. Philippines: La Trinidad, Benguet.

2809 GW Riethmacher (B17b). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 5 Jun 1989. Philippines: La Trinidad, Benguet.

3044 WE Jones (WSP). Soil from sweet potato crop. Mar 1990. USA: Oahu, Hawaii.

3180 GW Riethmacher (B34). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 1 Mar 1990. Philippines: Louisiana, Laguna.

3193 GW Riethmacher (B45b). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. 28 May 1990. Philippines: Villiasis, Pangasinan.

3210 RC Rajak (49). [Coleoptera]. Rec'd 3 Jun 1991. India.

3604 IMI (298059). *Scapanes australis* [Coleoptera: Scarabaeidae]. Rec'd 26 Feb 1992. Papua New Guinea.

3605 [CSIRO FI 1039] IMI (I90-574). *Acrotylus* sp. [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Pakistan.

3610 [CSIRO FI 208] IMI (I91-625). *Pseudosphingonotus savignyi* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Oman.

4290 [DAT 493] AC Rath (F493) ← W Theunis (SOL IS 17). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4340 [DAT 489] AC Rath (F489) ← W Theunis (SOL IS 14). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4342 [DAT 491] AC Rath (F491) ← W Theunis (SOL IS 15). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.

4366 LA Lacey (94116). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.

4369 LA Lacey (94119). Soil Galleria bait. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.

4450 LA Lacey (94105). Soil. 25 Apr 1994. Japan: Hokkaido University, Hokkaido Prefecture.

4557 [DAT 481] AC Rath (F481). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.

4610 [DAT 480] AC Rath (F480) ← W Theunis (SOL IS 4). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.

5197 M Browning ← RA LeBrun ← CW McCoy (Mada). *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. USA: Florida.

7410 [CSIRO FI-0114] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.

7414 [CSIRO FI-0203] Larva, [Diptera: Stratiomyidae]. 17 Feb 1987. Australia: Hapsberg, Firran, New South Wales.

7415 [CSIRO FI-0206] *Phaulacridium vittatum* [Orthoptera: Acrididae]. Spring 1987. Australia: Gininderra Experiment Station, Gininderra, New South Wales.

7416 [CSIRO FI-0208] *Phaulacridium vittatum* [Orthoptera: Acrididae]. Spring 1987. Australia: Gininderra Experiment Station, Gininderra, New South Wales.

7417 [CSIRO FI-0295] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Australia: Bundaberg, Queensland.

7421 [CSIRO FI-0328] Larva, [Diptera: Stratiomyidae]. 2 Jan 1989. Australia: monitoring site, Walkers Point, Queensland.

7422 [CSIRO FI-0330] Larva, [Diptera: Stratiomyidae]. 2 Jan 1989. Australia: Fairymead, Queensland.

7425 [CSIRO FI-0379] Larva, [Diptera: Stratiomyidae]. 28 Mar 1989. Australia: S. Lines, South Kolan, Queensland.

7429 [CSIRO FI-0516] Larva, [Diptera: Stratiomyidae]. 28 Jun 1989. Australia: pupation site, Sommerfield, Queensland.

7431 [CSIRO FI-0550] *Coptotermes lacteus* [Isoptera: Rhinotermitidae]. 20 Dec 1989. Laboratory isolation.

7435 [CSIRO FI-0700] *Costelytra zealandica* [Coleoptera: Scarabaeidae]. 8 Oct 1990. New Zealand: South Island.

7452 [CSIRO FI-1041] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.

7929 [CSIRO FI-0375] *Cryptotermes brevis* [Isoptera: Kalotermitidae]. 10 Mar 1989. BM cultures.

8059 [CSIRO FI-0558] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from mound material. 12 Jan 1990. Australia: Cotter, Australian Capital Territory.

8061 [CSIRO FI-0563] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 10 Jan 1990. Australia: Conopaira State Forest, New South Wales.

8062 [CSIRO FI-0565] *Drepanotermes perniger* [Isoptera: Termitidae] from rubbish gallery. 22 Jan 1990. Australia: Beelbangera, New South Wales.

8092 [CSIRO FI-0599] *Coptotermes* sp. [Isoptera: Rhinotermitidae] from mudgut. 14 Mar 1990. Australia: Ulladulla Mill, New South Wales.

8097 [CSIRO FI-0655] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 5 Apr 1990. Australia: 15 km west, Inverell, New South Wales.

8217 [CSIRO FI-0713] Isolated from soil sample S21. 6 Dec 1990. Burma.

8218 [CSIRO FI-0714] Isolated from soil sample S15. 6 Dec 1990. Burma.

8224 [CSIRO FI-0720] Isolated from soil sample S21. 6 Dec 1990. Burma.

8225 [CSIRO FI-0721] Isolated from soil sample S25. 6 Dec 1990. Burma.

8227 [CSIRO FI-0727] Isolated from soil sample S31. 6 Dec 1990. Burma.

8228 [CSIRO FI-0728] Isolated from soil sample S31. 6 Dec 1990. Burma.

8420 AE Hajek (WU19). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.

8496 [CSIRO FI-0320] Isolated from soil sample. Dec 1988. Australia: Vigiante, Devereux Creek, Queensland.

8497 [CSIRO FI-0337] Larva, *Inopus rubriceps* [Diptera: Stratiomyidae]. Winter 1989. Australia: Fairymead, Queensland.

8505 [CSIRO FI-0752] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound G (G11). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8555 [CSIRO FI-0817] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8566 [CSIRO FI-0875] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.

8593 [CSIRO FI-0924] 17 Jul 1992. Papua New Guinea.

8613 [CSIRO FI-0923] 12 Jul 1992. Papua New Guinea. Dark spored form of ARSEF 8612.

8618 [CSIRO FI-0951] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, FI-0686, Queensland.

8619 [CSIRO FI-0952] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Laboratory infection S465, FI-0686, Queensland.

8621 [CSIRO FI-0954] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 22 Jul 1992. Australia: Queensland.

8739 [CSIRO FI-1008] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

8740 [CSIRO FI-1009] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

8741 [CSIRO FI-1010] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

8742 [CSIRO FI-1011] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

8743 [CSIRO FI-1012] *Anomola* sp. [Coleoptera: Scarabaeidae]. 1990. Myanmar: Magwe.

9612 JG Banu (2). *Paracoccus marginatus* [Hemiptera: Pseudococcidae]. Dec 2009. India: Coimbatore, Tamil Nadu.

9613 JG Banu (3). *Paracoccus marginatus* [Hemiptera: Pseudococcidae]. Dec 2009. India: Coimbatore, Tamil Nadu.

12564 O Nishi (Hkd17-1) and S Shimizu. Isolated from soil sample. Mar 2009. Japan: Hokkaido Prefecture.

12565 O Nishi (Kgs11-1) and S Shimizu. Isolated from soil sample. Apr 2008. Japan: Kagoshima Prefecture.

12566 O Nishi (KT2) and S Shimizu. Adult, *Teleogryllus emma* [Orthoptera: Gryllidae]. Oct 2012. Japan: Fukuoka Prefecture.

Metarhizium rileyi (Farlow) Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Formerly *Nomuraea rileyi* (Farlow) Samson. Early vegetative development of cultures on solid media usually occurs in mucoid colonies of fusoid yeast-like cells: mycelial development should begin after several days. Most strains are observed to sporulate most abundantly on Sabouraud maltose agar + 1% yeast extract. Isolates with genomic confirmation of this identification are noted individually.

135 JV Bell. [Lepidoptera: Noctuidae]. Acc'd 11 Nov 1982. USA: Stoneville, Mississippi. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

323 RS Soper. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 14 Feb 1979. Australia: Arriga, Queensland. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

345 C Ignoffo. 24 Oct 1978. USA: Columbia, Missouri.

358 RS Soper. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 26 Feb 1979. Australia: Queensland.

380 [FPMI 753] RS Soper. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 26 Feb 1979. Australia: Queensland. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

481 RS Soper (10). *Lymantria* sp. [Lepidoptera: Lymantriidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

482 RS Soper. *Lymantria* sp. [Lepidoptera: Lymantriidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

483 RS Soper. *Lymantria* sp. [Lepidoptera: Lymantriidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

539 DW Roberts ← M Panyarjun. *Spodoptera exigua* [Lepidoptera: Noctuidae]. 26 Aug 1980. Thailand. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

540 DW Roberts. *Spodoptera exigua* [Lepidoptera: Noctuidae]. 26 Aug 1980. Thailand.

558 RS Soper (8133-3). *Sogatella furcifera* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: Sigere, Pangkajene, Sulawesi Selatan, Celebes. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

711 RS Soper. *Bombyx mori* [Lepidoptera: Bombycidae]. Fall 1981. PR China: Hangzhou, Zhijiang. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

740 [CNPAF 82-1-6-18; CP 12] RA Daoust. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.

762 TA Coudron ← B Puttler. *Plathypena scabra* [Lepidoptera: Noctuidae] on alfalfa. 2 Jul 1982. USA: Columbia, Missouri. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

935 [CNPAF 83-2-17-01; CP 74] RA Daoust ← E Ferreira. *Spodoptera* sp. [Lepidoptera: Noctuidae]. 17 Feb 1983. Brazil: CNPAF, Goiânia, Goiás.

936 [CNPAF 83-02-18-01; CP 75] RA Daoust ← SM dos Santos. Larva, [Lepidoptera]. 18 Feb 1983. Brazil: CNPAF, Goiânia, Goiás. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1014 J Aoki (Nom. 2). *Prodenia litura* [Lepidoptera: Noctuidae]. Oct 1978. Japan: Fuchu, Tokyo Prefecture. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1047 [FPMI 754] J Aoki (Nom. 3). *Plusia* sp. [Lepidoptera: Noctuidae]. Jan 1980. Japan: Fuchu, Tokyo Prefecture. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1670 G Riba (NR-11). Acc'd 29 Oct 1984. France. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1671 G Riba (NR-5). Acc'd 29 Oct 1984. France.

1756 MC Rombach ← BM Shepard (NrMin-14). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1757 MC Rombach ← BM Shepard (NrMin-19). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.

1758 MC Rombach ← BM Shepard (NrMin-1). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.

1759 MC Rombach ← BM Shepard (NrMin-5). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.

1760 MC Rombach ← BM Shepard (NrMin-23). *Rivula atimeta* [Lepidoptera: Noctuidae] on rice. Aug 1984. Philippines: Mindanao.

1761 MC Rombach (Nr-B). *Cnaphalocrocis medinalis* [Lepidoptera: Pyralidae]. Aug 1984. Philippines: insectary, IRRI, Los Baños, Manila.

1762 MC Rombach ← G Barrion (Nr-BS). *Mocis frugalis* [Lepidoptera: Noctuidae] on rice. Nov 1984. Philippines: Bangued, Abra. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1879 DW Roberts (090485-3). Larva, [Lepidoptera] on rice. 9 Apr 1985. Solomon Islands: nr. Honiara, Guadalcanal. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1893 MC Rombach (3). Larva, [Lepidoptera] on rice. Acc'd 10 Jun 1985. Solomon Islands: nr. Metapona, Guadalcanal.

1898 [EPABA A-18 (BAMC)] DW Roberts ← E Matta. *Mahanarva posticata* [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

1950 [CNPAF 85-06-14; CP 175] JMG Ferraz. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 14 Jun 1985. Brazil: Bragança Paulista, Pará.

1972 [CNPAF 85-7-24-5; CP 192] JC Lord and BP Magalhães. *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

2013 [ARSEF 2466] CIRPON ← DR Sosa-Gómez. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 1985. Argentina: Tucumán.

2104 DG Holdom (310186). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 31 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.

2174 MC Rombach (130586-14). *Cnaphalocrocis medinalis* [Lepidoptera: Pyralidae]. 13 May 1986. Philippines: nr. Baybay, Leyte.

2201 LC Piazza ← L da Silva (A285). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Mar 1984. Brazil: Guaiba, Rio Grande do Sul. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

2202 LC Piazza ← NM de Barros (A485). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Mar 1985. Brazil: Vacaria, Rio Grande do Sul.

2203 LC Piazza (A86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 13 Mar 1986. Brazil: Vacaria, Rio Grande do Sul.

2204 LC Piazza ← FM Ellwanger (B86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 12 Mar 1986. Brazil: Ijuí, Rio Grande do Sul.

2205 LC Piazza ← L Baloch (C86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 10 Mar 1986. Brazil: Sarandi, Rio Grande do Sul.

2206 LC Piazza ← DN Gassen (D86). *Rachiplusia nu* [Lepidoptera: Noctuidae]. 8 May 1986. Brazil: Passo Fundo, Rio Grande do Sul.

2207 LC Piazza ← DN Gassen (E86). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Apr 1986. Brazil: Santa Rosa, Rio Grande do Sul.

2345 [ARSEF 2390 (never frozen)] MC Rombach (111286-2). *Naranga* sp. [Lepidoptera: Noctuidae] on rice. 11 Dec 1986. Indonesia: nr. Klaten, Jawa Tengah, Java. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

2390 [ARSEF 2345] MC Rombach (111286-2). *Naranga* sp. [Lepidoptera: Noctuidae] on rice. 11 Dec 1986. Indonesia: nr. Klaten, Jawa Tengah, Java.

2395 MC Rombach (121186-1). *Rivula atimeta* [Lepidoptera: Noctuidae]. 12 Nov 1986. Philippines: IRRI farm, Los Baños, Manila.

2413 K Narayanan (15). *Helicoverpa armigera* [Lepidoptera: Noctuidae]. Acc'd 6 May 1987. India. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

2465 TJ Poprawski (8708) ← AJ Nasca (Nr-IY3). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 1986. Argentina: Santiago del Estero.

2466 [ARSEF 2013] TJ Poprawski (8709) ← AJ Nasca (Nr-T2). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 1985. Argentina: Tucumán. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

2492 SR Sánchez Peña. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Sep 1986. Mexico: Estacion Manuel, Tamaulipas. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

3301 J Gutierrez Samperio (17) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1988. Mexico: Colima.

3940 DR Sosa-Gómez (CNPSo-NR66) ← JJ Silva. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Rec'd Jun 1993. Brazil: Londrina, Paraná.

4094 LA Lacey (94004). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. Rec'd 28 Mar 1994. Brazil.

5206 C López Lastra (2). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 22 Mar 1996. Argentina: Chivilcoy, Buenos Aires.

5207 C López Lastra (3). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 22 Mar 1996. Argentina: Chivilcoy, Buenos Aires.

5208 C López Lastra (4). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 22 Mar 1996. Argentina: Chivilcoy, Buenos Aires. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

5209 C López Lastra (5). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 7 May 1996. Argentina: Chivilcoy, Buenos Aires.

5210 C López Lastra (6). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 18 Apr 1996. Argentina: Chivilcoy, Buenos Aires.

5211 C López Lastra (11). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 7 May 1996. Argentina: Chivilcoy, Buenos Aires.

5212 C López Lastra (14). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] Soybean crop. 18 Apr 1996. Argentina: Chivilcoy, Buenos Aires.

6239 [RCEF 0290] *Helicoverpa armigera* [Lepidoptera: Noctuidae]. Rec'd 24 Aug 1999. PR China: Anhui. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6645 KU Devi (GIV). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6731 DR Sosa-Gómez (CNPSo Nr 22). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 19 Jan 1990. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná.

6732 DR Sosa-Gómez (CNPSo Nr 27). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 22 Jan 1990. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6733 DR Sosa-Gómez (CNPSo Nr 33). 19 Jan 1990. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná.

6734 [ARSEF 3940] DR Sosa-Gómez (CNPSo Nr 66). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jun 1992. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná.

6735 DR Sosa-Gómez (CNPSo Nr 72). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 20 May 1993. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná.

6736 DR Sosa-Gómez (CNPSo Nr 135). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 11 Mar 1998. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná.

6737 DR Sosa-Gómez (CNPSo Nr 166). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6738 DR Sosa-Gómez (CNPSo Nr 167). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6739 DR Sosa-Gómez (CNPSo Nr 168). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6740 DR Sosa-Gómez (CNPSo Nr 169). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6741 DR Sosa-Gómez (CNPSo Nr 170). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6742 DR Sosa-Gómez (CNPSo Nr 171). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 14 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6743 DR Sosa-Gómez (CNPSo Nr 172). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná.

6744 DR Sosa-Gómez (CNPSo Nr 173). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 2001. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6745 DR Sosa-Gómez (CNPSo Nr 174). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6746 DR Sosa-Gómez (CNPSo Nr 175). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6747 DR Sosa-Gómez (CNPSo Nr 176). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6748 DR Sosa-Gómez (CNPSo Nr 177). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6749 DR Sosa-Gómez (CNPSo Nr 178). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6764 DR Sosa-Gómez (CNPSo Nr 179). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6765 DR Sosa-Gómez (CNPSo Nr 180). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6766 DR Sosa-Gómez (CNPSo Nr 181). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 28 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6767 DR Sosa-Gómez (CNPSo Nr 182). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 28 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6768 DR Sosa-Gómez (CNPSo Nr 183). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 26 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6769 DR Sosa-Gómez (CNPSo Nr 184). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 26 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6770 DR Sosa-Gómez (CNPSo Nr 185). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 26 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6771 DR Sosa-Gómez (CNPSo Nr 186). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 20 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6772 DR Sosa-Gómez (CNPSo Nr 187). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 28 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6773 DR Sosa-Gómez (CNPSo Nr 189). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 27 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6774 DR Sosa-Gómez (CNPSo Nr 190). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. 27 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6775 DR Sosa-Gómez (CNPSo Nr 191). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 25 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6776 DR Sosa-Gómez (CNPSo Nr 192). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 28 Jan 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6777 DR Sosa-Gómez (CNPSo Nr 193). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Winter 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6778 DR Sosa-Gómez (CNPSo Nr 194). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6779 DR Sosa-Gómez (CNPSo Nr 195). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6780 DR Sosa-Gómez (CNPSo Nr 196). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6781 DR Sosa-Gómez (CNPSo Nr 197). *Plusiinae* sp. [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6782 DR Sosa-Gómez (CNPSo Nr 198). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6783 DR Sosa-Gómez (CNPSo Nr 199). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6784 DR Sosa-Gómez (CNPSo Nr 200). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6785 DR Sosa-Gómez (CNPSo Nr 201). *Plusiinae* sp. [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6786 DR Sosa-Gómez (CNPSo Nr 202). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6787 DR Sosa-Gómez (CNPSo Nr 202). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Feb 1999. Brazil: Warta, Faz. Sta Terezinha, Londrina, Paraná. **RESTRICTED ACCESS:** *consult Curator*.

6866 DG Boucias (5762). *Pseudoplusia includens* [Lepidoptera: Noctuidae]. 1974. USA: Gainesville, Florida.

6867 DG Boucias (1795). *Spodoptera* sp. [Lepidoptera: Noctuidae]. Rec'd 7 Jun 2001. India. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6868 DG Boucias (6009). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Sep 2000. USA: Gainesville, Florida. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6869 DG Boucias (94-5a). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Aug 1994. USA: Quincy, Florida.

6870 DG Boucias (6011). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 24 Sep 2000. USA: Quincy, Florida.

6871 DG Boucias (31b). *Plathypena scabra* [Lepidoptera: Noctuidae]. 5 Oct 1993. USA: Quincy, Florida. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6872 DG Boucias (9b). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 13 Sep 1993. USA: Quincy, Florida.

6873 DG Boucias (5561). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Aug 1984. USA: Gainesville, Florida.

6874 DG Boucias (F178). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2 Jan 1999. Brazil: Warta, Londrina, Paraná.

6875 DG Boucias (Nr10). [Lepidoptera: Noctuidae]. Rec'd 7 Jun 2001. Brazil: São Paulo, São Paulo.

6876 DG Boucias (94-5c). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 7 Sep 1994. USA: Quincy, Florida.

6877 DG Boucias (NrCH6). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 18 Apr 1996. Argentina: Buenos Aires, Buenos Aires.

6878 DG Boucias (Nr24). *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 22 Jan 1990. Brazil: Paraná.

6879 DG Boucias (Nr32). *Plusiinae* sp. [Lepidoptera: Noctuidae]. 6 Feb 1990. Brazil: Paraná.

6880 DG Boucias (6026). Aug 2000. Mexico. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6881 DG Boucias (33b). *Plathypena scabra* [Lepidoptera: Noctuidae]. 13 Sep 1993. USA: Quincy, Florida. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

6882 DG Boucias (8b). *Pseudoplusia includens* [Lepidoptera: Noctuidae]. 13 Sep 1993. USA: Quincy, Florida. Molecularly verified as *Metarhizium rileyi* by at least 5'-TEF sequence data.

7052 C López Lastra (B5). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Bartolomé Bavio, Buenos Aires.

7053 C López Lastra (Ch 2 b). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Chivilcoy, Buenos Aires.

7054 C López Lastra (Ch 90). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Chivilcoy, Buenos Aires.

7055 C López Lastra (Ch 91). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: Chivilcoy, Buenos Aires.

7056 C López Lastra (LP1). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. Apr 2002. Argentina: La Plata, Buenos Aires.

7148 C López Lastra (AL IS INTA). Larva, *Alabama argillacea* [Lepidoptera: Noctuidae] on *Gossypium hirsutum*, cotton crop. Mar 2001. Argentina: Santiago del Estero.

7149 C López Lastra (B3). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 9 Apr 2001. Argentina: Partido Magdalena, Bartolomé Bavio, Buenos Aires.

7150 C López Lastra (SF 9). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 20 May 2002. Argentina: Bombal, Santa Fe.

7151 C López Lastra (SF15). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 20 May 2002. Argentina: Zavalla, Santa Fe.

7479 [CEP 019] C López Lastra (Ch 9). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Apr 2001. Argentina: Chivilcoy, Buenos Aires.

7480 [CEP 022] C López Lastra (Ch 66). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 9 Apr 2001. Argentina: Chivilcoy, Buenos Aires.

7481 [CEP 023] C López Lastra (Ch 90). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. Apr 2001. Argentina: Chivilcoy, Buenos Aires.

7482 [CEP 064] C López Lastra (P11). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 2003. Argentina: INTA Pergamino, Pergamino, Buenos Aires.

7483 [CEP 006] C López Lastra (Suelo). Isolated from soil. 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires.

7484 [CEP 034] C López Lastra (SF2). Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 20 May 2002. Argentina: Zavalla, Santa Fe.

7778 [CEP 021] C López Lastra ← V Dikgolz. Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae] on *Glycine max* (L.) Merr., soybean crop. 9 Apr 2001. Argentina: Chivilcoy, Buenos Aires.

7779 [CEP 035] C López Lastra ← B Díaz. Larva, *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 20 May 2002. Argentina: Zavalla, Santa Fe.

7780 [CEP 037] C López Lastra ← B Díaz. *Anticarsia gemmatalis* [Lepidoptera: Noctuidae]. 20 May 2002. Argentina: Zavalla, Santa Fe.

7791 R Barakat (N.R. 3). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.

7792 R Barakat (N.R. 5). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.

7793 R Barakat (N.R. 17). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.

7794 R Barakat (N.R. 18). Isolated from soil sample. 23 Aug 2004. The Palestinian Authority: Jenin.

9489 [SRCAMB VL-2125] V Likhovidov. Larva, [Lepidoptera: Noctuidae]. Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-139.

9490 [SRCAMB B-412] V Likhovidov ← BA Borisov. Larva, [Lepidoptera: Noctuidae]. Sep 1995. Russian Federation: Vladivostok, Primorsky Krai. Field Collection Number F-364.

11939 L Rosales and SR Sánchez Peña (1). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. Rec'd 20 Feb 2013. Mexico: Saltillo, Coahuila.

11940 Acc'd 8 May 2013.

11941 L Rosales and SR Sánchez Peña (3). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. Rec'd 20 Feb 2013. Mexico: Saltillo, Coahuila.

11942 L Rosales and SR Sánchez Peña (4). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. Rec'd 20 Feb 2013. Mexico: Saltillo, Coahuila.

11943 L Rosales and SR Sánchez Peña (5). *Spodoptera frugiperda* [Lepidoptera: Noctuidae]. Rec'd 20 Feb 2013. Mexico: Saltillo, Coahuila.

11944 Acc'd 9 May 2013.

13508 [SR Sánchez Peña Nomurea No.9 Mex] Larva, *Spodoptera frugiperda* [Lepidoptera: Noctuidae] corn. Sep 2017. Mexico: Universidad Agraria Antonio Narro, Saltillo, Coahuila.

Metarhizium robertsii JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from *M. anisopliae* as part of a genomic reclassification by Bischoff et al. (2009). A complete genomic sequence of ARSEF 8820 (a single-spored reisolate of ARSEF 2575) is being compiled.

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23 RS Soper (F84-1-1) ← RL Rabb. *Conoderus* sp. [Coleoptera: Elateridae]. 1961. USA: North Carolina.

724 [CNPAF 82-2-15-04; CP 25] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

727 [CABI 351805; CNPAF 82-2-2-01; CP 21] RA Daoust ← Y Tanaka. [Orthoptera: Tettigoniidae]. 2 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

797 DA Rodriguez Sierra. Larva, *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Jun 1981. Colombia: Madrid, Cundinamarca.

1046 J Aoki (Met. 6) ← K Yanase. *Popillia japonica* [Coleoptera: Scarabaeidae]. Jul 1977. Japan: Fuchu, Tokyo Prefecture.

1057 [CNPS 30A] F Moscardi. Larva, *Chlosyne lacinia saundersii* [Lepidoptera: Nymphalidae]. 1983. Brazil: Londrina, Paraná.

1120 KV Deseö (72). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Oct 1982. Italy: Modena, Emilia-Romagna.

1298 DW Roberts (MaT3JB-B) or (single spore isolate #9). *Popillia japonica* [Coleoptera: Scarabaeidae]. Feb 1978. USA: Clinton Corners, New York.

1878 DW Roberts (MaT3JB-A). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.

1897 DW Roberts (V-14 (F84 mutant)). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA: California.

1910 DW Roberts ← S Keller (Ma52(S4)). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 18 Jun 1985. Germany.

1952 [CNPAF 85-7-21; CP 177] SM dos Santos. *?Cirtonemus* sp. [Hemiptera: Cydnidae]. 27 Jul 1985. Brazil: Goiânia, Goiás.

1968 DR Smitley. *Strigoderma arboricola* [Coleoptera: Scarabaeidae]. Aug 1985. USA: East Lansing, Michigan.

2134 T Searle (E). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.

2469 JK Liebherr. Larva, [Coleoptera: Carabidae]. 24 Aug 1987. Mexico: 10.5 km S of Amecameca, Tepetlixpa, Mexico.

2514 [CP 236B] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.

2547 SV Krueger ← FL Consolie and MG Villani. *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Syracuse, New York.

2560 [CP 232] SB Alves (SPL-54A). *Atta sexdens rubropilosa* [Hymenoptera: Formicidae]. Acc'd 13 Apr 1988. Brazil: Piracicaba, São Paulo.

2561 [CP 233] SB Alves (507). *Solenopsis* sp. [Hymenoptera: Formicidae]. Acc'd Apr 1988. Brazil: Piracicaba, São Paulo.

2575 [ATCC MYA-3093; IMI I91-613] RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Acc'd 21 Jul 1988. USA: South Carolina. Ex-type culture; a complete genomic sequencing is being obtained for a single-spored reisolate (ARSEF 8820) of this isolate.

2602 MS Goettel (T1) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 11 Oct 1988. Laboratory manipulation.

2603 MS Goettel (T3) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 11 Oct 1988. Laboratory manipulation.

2604 MS Goettel (T4) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 11 Oct 1988. Laboratory manipulation.

2605 MS Goettel (T5) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 12 Oct 1988. Laboratory manipulation.

2606 MS Goettel (T6) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 12 Oct 1988. Laboratory manipulation.

2607 MS Goettel (T7) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 12 Oct 1988. Laboratory manipulation.

2608 MS Goettel (T8) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 12 Oct 1988. Laboratory manipulation.

2609 MS Goettel (T9) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 12 Oct 1988. Laboratory manipulation.

2610 MS Goettel (T10) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 12 Oct 1988. Laboratory manipulation.

2611 MS Goettel (T2) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 17 Oct 1988. Laboratory manipulation.

2612 MS Goettel (T11) and RJ St. Leger. Transgenic mutant of ARSEF 2575, benomyl resistant. Acc'd 17 Oct 1988. Laboratory manipulation.

2981 T Searle (CWMA). Larva, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.

2982 T Searle (PAMA). External parasite on *Phyllophaga anxia* [Coleoptera: Scarabaeidae] larva. 1987. Canada: Québec.

3043 WE Jones (FLS). Soil from lettuce crop. Mar 1990. USA: Island of Hawaii, Hawaii.

3108 SV Krueger (MaEC1). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3211 SV Krueger (MaEC2). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.

3388 I Majchrowicz (3a). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on asparagus. 16 Jul 1991. USA: Orchard Farm, Yakima, Washington.

3540 M Brownbridge (B-2). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 29 Nov 1991. USA: oak stand, Leddy Park, Chittenden County, Vermont.

3608 [ARSEF 2575] IMI (I91-613) ← RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. USA.

3721 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.

3925 DR Sosa-Gómez (CNPSo-Ma60). [Hemiptera: Cicadidae]. 19 Feb 1992. Argentina: San Miguel de Tucumán, Tucumán.

4123 [ARSEF 2547] L Marold (ARSEF2547). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Rec'd 2 May 1994. USA: Syracuse, New York. Replaces ARSEF 2547.

4227 [DAT 37] AC Rath (F037). Soil. 1987.

4241 [DAT 46] AC Rath (F046) ← RJ Milner (Fl122). Host not specified. 20 Oct 1987. Australia: New South Wales.

4621 [DAT 44] AC Rath (F044) ← RJ Milner (Fl120). Host not specified. 20 Oct 1987. Australia: New South Wales.

4628 [DAT 152] AC Rath (F152) ← H Yip (HY209). Soil. 26 Oct 1988. Australia: Campbelltown, Tasmania.

4739 [DAT 298] AC Rath (F298) ← H Yip (HY61). Soil. 29 Feb 1988. Australia: Rosehill, Jericho, Tasmania.

4903 LA Lacey (95005). *Galleria mellonella* [Lepidoptera: Pyralidae] Used as bait. Feb 1995. Portugal: Terceira Island, Azores.

4919 LA Lacey (95021). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.

5149 DL Hostetter (T100) ← IOB Armas. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 23 Jan 1996. Portugal: Terceira Island, Azores.

5873 FE Vega (EBCL 97095). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae]. 22 Aug 1997. Romania: Voronetz.

6472 SR Grugel. *Dectes texanus* [Coleoptera: Cerambycidae]. 3 Nov 1998. USA: Goodland, Kansas.

6476 I Klingen (EFF.99). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Sep 1999. Norway: Effeløt.

6755 GUL Braga and DW Roberts (DWR 62). 3 Sep 1999. USA: Utah State University, Departmrnt of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 2575 following UV-B exposure.

6841 GUL Braga and DW Roberts (DWR 59). 19 Sep 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 2575 following UV-B exposure.

6842 GUL Braga and DW Roberts (DWR 60). 9 Jun 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 2575 following UV-B exposure.

6843 GUL Braga and DW Roberts (DWR 61). 24 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 2575 following UV-B exposure.

6844 GUL Braga and DW Roberts (DWR 62). 3 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 2575 following UV-B exposure.

6845 GUL Braga and DW Roberts (DWR 63). 6 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 2575 following UV-B exposure.

6846 GUL Braga and DW Roberts (DWR 64). 6 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 2575 following UV-B exposure.

6847 GUL Braga and DW Roberts (DWR 65). 11 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (light green) obtained from ARSEF 2575 following UV-B exposure.

6848 GUL Braga and DW Roberts (DWR 66). 6 Sep 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 2575 following UV-B exposure.

6864 GUL Braga and DW Roberts (DWR 172). 8 Nov 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 2575 following UV-B exposure.

6865 GUL Braga and DW Roberts (DWR 173). 7 Nov 2000. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 2575 following UV-B exposure.

7413 [CSIRO FI-0163] *Kalotermes* sp. [Isoptera: Kalotermitidae]. 18 Nov 1986. Australia: Sydney University, Sydney, New South Wales.

7424 [CSIRO FI-0358] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 8 Feb 1989. Australia: Busselton, Western Australia.

7449 [CSIRO FI-0911] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.

7501 CSIRO (FI-1416). AMMRL 154.02. 5 Jun 2000. Australia: Royal North Shore Hospital, St. Leonards, New South Wales.

8060 [CSIRO FI-0562] *Nasutitermes exitiosus* [Isoptera: Termitidae] from mound material. 10 Jan 1990. Australia: Conopaira State Forest, New South Wales.

8215 [CSIRO FI-0710] Isolated from soil sample S5. 23 Nov 1990. Burma.

8321 AC Churchill (ARSEF 2575 SS1). 11 Dec 2000. USA: USDA ARS Plant Protection Research Unit, Ithaca, New York. Single spore reisolate of ARSEF 2575 passed through *Spodoptera exigua* Hübner, beet armyworm.

8322 AC Churchill (ARSEF 2575 SS2). 11 Dec 2000. USA: USDA ARS Plant Protection Research Unit, Ithaca, New York. Single spore reisolate of ARSEF 2575 passed through *Spodoptera exigua* Hübner, beet armyworm.

8542 [CSIRO FI-0799] *Coptotermes lacteus* [Isoptera: Rhinotermitidae] from soil around mound J (J14). 9 Jan 1991. Australia: Tallaganda State Forest, Parkers Gap, New South Wales.

8543 [CSIRO FI-0804] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.

8544 [CSIRO FI-0805] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.

8545 [CSIRO FI-0806] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.

8546 [CSIRO FI-0807] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.

8547 [CSIRO FI-0808] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.

8548 [CSIRO FI-0809] [Coleoptera: Elateridae]. 19 Feb 1991. Australia: Melbourne, Victoria.

8549 [CSIRO FI-0810] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8550 [CSIRO FI-0811] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8551 [CSIRO FI-0812] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8552 [CSIRO FI-0814] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8553 [CSIRO FI-0815] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8554 [CSIRO FI-0816] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8556 [CSIRO FI-0818] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8557 [CSIRO FI-0819] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.

8558 [CSIRO FI-820] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 18 Feb 1991. Australia: Kingaroy, Queensland.

8559 [CSIRO FI-0821] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 18 Feb 1991. Australia: Kingaroy, Queensland.

8563 [CSIRO FI-0870] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 1 Jul 1991. Australia: Clermont, Queensland.

8565 [CSIRO FI-0873] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.

8567 [CSIRO FI-0877] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.

8576 [CSIRO FI-0894] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 11 Apr 1992. Australia: Perth, Western Australia.

8577 [CSIRO FI-0872] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.

8582 [CSIRO FI-0903] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Apr 1992. Australia: Kingaroy, Queensland.

8583 [CSIRO FI-0904] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Apr 1992. Australia: Kingaroy, Queensland.

8592 [CSIRO FI-0920] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 1 Jul 1992. Australia: Queensland.

8820 BD Donzelli (SS#1). 14 Oct 2008. Laboratory isolation. A complete genomic sequence is being obtained from this single-spore re-isolate of ARSEF 2575.

9607 T Myles (Guelph-RF-08b). *Reticulitermes flavipes* [Isoptera: Rhinotermitidae]. Rec'd 16 Mar 2010. Canada: Guelph, Ontario.

10000 DW Roberts (DWR 1997). Isolated from soil sample SS 10655. 11 Jun 2008. USA: Elko County, Nevada. N 41.30356, W 116.2446.

12568 O Nishi (Kgs10-2) and S Shimizu. Isolated from soil sample. Apr 2008. Japan: Kagoshima Prefecture.

12569 O Nishi (Ngs2-1) and S Shimizu. Isolated from soil sample. May 2008. Japan: Nagasaki Prefecture.

12797 [OKSTATE 18] EJ Rebek and JA Rodriguez-Contreras ← SR Sánchez Peña. Larva, *Phyllophaga* sp. [Coleoptera: Scarabaeidae]. Summer 2014. USA: Golf Course, Oklahoma State University, Oklahoma City, Oklahoma.

12799 [OKSTATE 102] EJ Rebek and JA Rodriguez-Contreras ← SR Sánchez Peña. Larva, *Phyllophaga* sp. [Coleoptera: Scarabaeidae]. Summer 2014. USA: Cimarron Valley Research Station, Oklahoma State University, Stillwater, Oklahoma.

12870 [CENARGEN CG 607; IP 34] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 17 Nov 2000. Brazil: Emas National Park, Goiás. S 18° 11' 12.7", W 52° 44' 34.7". **RESTRICTED ACCESS:** *contact Curator*.

12885 [CENARGEN CG 766; IP 123] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait and using Chase medium. 26 Jan 2001. Brazil: northern Goiás state, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

12888 [CENARGEN CG 779; IP 145] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 24 Sep 2000. Brazil: Silvânia National Forest, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

12889 [CENARGEN CG 780; IP 146] Isolated from cerrado soil sample using *Triatoma infestans* Klug [Hemiptera: Reduviidae] as bait. 24 Sep 2000. Brazil: Silvânia National Forest, Goiás. **RESTRICTED ACCESS:** *contact Curator*.

13176 BD Donzelli (AARKO #15). Rec'd 12 Feb 2016. deletion mutant for aminoadipate-semialdehyde dehydrogenase; GenBank protID EXV03721.

13177 BD Donzelli (SidAKO #21). Rec'd 12 Feb 2016. deletion mutant for L-ornithine 5-monooxygenase; GenBank protID EXV05491.

13178 BD Donzelli (SidDKO #3). Rec'd 12 Feb 2016. deletion mutant for metachelin synthetase mrsidD; GenBank protID EXV04699.

13179 BD Donzelli (U3KO #35). Rec'd 12 Feb 2016. deletion mutant for UDPGT#1; GenBank protID EXU97601.

13180 BD Donzelli (NGKO231). Rec'd 12 Feb 2016. deletion mutant for NG39x synthetase; GenBank protID EXU99208.

13181 BD Donzelli (SreAKO #35). Rec'd 12 Feb 2016. deletion mutant for the iron transcriptional repressor mrsreA; GenBank protID xxxxxxxxxxx.

13182 BD Donzelli (SidCKO #7). Rec'd 12 Feb 2016. deletion mutant for ferricrocin synthetase mrsidC,?GenBank protID EXV05490.

13183 BD Donzelli (CPS1KO 017). Rec'd 12 Feb 2016. deletion mutant for mrcps1; GenBank protID EXU99727.

13184 BD Donzelli (NRPS4KO #4.1). Rec'd 12 Feb 2016. deletion mutant for destruxin synthetase; GenBank protID EXU95958.

13185 BD Donzelli (PPT1KO #7). Rec'd 12 Feb 2016. deletion mutant for 4'-phosphopantetheinyl transferase; GenBank protID EXV02093.

13186 BD Donzelli (SWKO #39). Rec'd 12 Feb 2016. deletion mutant for SW GenBank protID EXU97982.

13187 BD Donzelli (pesAKO 7.7). Rec'd 12 Feb 2016. deletion mutant for pesA; GenBank protID EXU98277.

13604 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13605 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 25 Jul 2018. USA: Perkins County, Nebraska.

13606 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 25 Jul 2018. USA: Perkins County, Nebraska.

13609 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13610 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13611 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13612 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13613 Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13614 Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13615 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13616 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13617 Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 12 Jul 2018. USA: Keith County, Nebraska.

13618 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Keith County, Nebraska.

13619 Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13620 Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13625 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13627 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13628 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.

13686 [M Burjanadze MB-026] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13690 [M Burjanadze MB-030] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13694 [M Burjanadze MB-034] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E

42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13708 [M Burjanadze MB-049] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13712 [M Burjanadze MB-056] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13718 [M Burjanadze MB-062] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13719 [M Burjanadze MB-063] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13723 [M Burjanadze MB-067] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

13733 [M Burjanadze MB-077] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrioidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.

Metarhizium taii ZQ Liang & AY Liu
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need to be confirmed genomically for placement, presumably, in *M. guizhouense.*

6750 GUL Braga and DW Roberts (DWR 04). 13 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (yellow) obtained from ARSEF 5714 following UV-B exposure.

6751 GUL Braga and DW Roberts (DWR 05). 13 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 5714 following UV-B exposure.

6752 GUL Braga and DW Roberts (DWR 06). 13 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 5714 following UV-B exposure.

6753 GUL Braga and DW Roberts (DWR 09). 23 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 5714 following UV-B exposure.

6754 GUL Braga and DW Roberts (DWR 10). 23 Mar 1999. USA: Utah State University, Department of Biology, Logan, Utah. Color mutant (violet) obtained from ARSEF 5714 following UV-B exposure.

Metarhizium viride (Segretain et al. ex Samson) Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Previously *Paecilomyces viridis* Segretain, Fromentin, Destombes, Brygoo & Dodin ex Samson and later *Chamaeleomyces viridis* (Segretain, Fromentin, Destombes, Brygoo & Dodin ex Samson) Sigler

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2456 UAMH (2994) ← Pasteur Institute (CIP-849). Rec'd 28 Jul 1987. Location not specified.

Metarhizium viridulum (Tzean, Hsieh, Chen & Wu) Kepler, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Basionym: *Nomuraea viridula* Tzean, LS Hsief, JL Chen & WJ Wu

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6927 SS Tzean (PPh 14E). *Cryptotympana facialis* [Hemiptera: Cicadidae]. 2 Jul 2000. Republic of China: Yangmingshan National Park, Taipei, Taiwan.

Metarhizium yongmunense (GH Sung, JM Sung & Spatafora) Kepler SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Basionym: *Metacordyceps yongmunensis* GH Sung, JM Sung & Spatafora

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5719 JM Sung (KEFC-1190). Rec'd 11 May 1998.

Metarhizium sp.
[Coleoptera: Chrysomelidae]
Unknown species 11849
Agelastica alni 7643
[Coleoptera: Scarabaeidae]
Amphimallon solstitiale 11685 11686
Dermolepida albohirtum 7493
Phyllophaga 12796
Popillia japonica 3863 3865
Rhopaea magnicornis 7495 8851 8852 8855 8856 8857
[Coleoptera: Scolytidae]
Hypothenemus hampei 13088
[Diptera: Culicidae]
Unknown species 13292
[Hemiptera: Cicadellidae]
Unknown species 2353
[Hemiptera: Cicadidae]
Unknown species 7645
[Hymenoptera: Cephidae]
Cephus cinctus 12511 12516
[Isoptera: Rhinotermitidae]
Reticulitermes speratus 12563 12570
[Lepidoptera: Pyralidae]
Unknown species 13264 13265 13266 13267 13268 13269 13270 13271 13275 13276
Galleria mellonella 4997 4998 4999 5000 5001 5076 5077 5079 12452 12453 12454 12455
[Orthoptera: Acrididae]
Acrida bicolor 3617
Hieroglyphus daganensis 3613
[Orthoptera: Catantopidae]
Calliptamus italicus 8699
[Orthoptera: Gryllidae]
Teleogryllus emma 12567
[Siphonaptera: Ceratophyllidae]
Oropsylla hirusta 13760 13761 13762 13763 13764
[Thysanoptera: Thripidae]
Unknown species 11839

Metarhizium acridum
[Orthoptera: Acrididae]
Unknown species 5735 8609
Austracris guttulosa 324 4605
Diabolocatantops axillaris 3616
Locusta migratoria capito 5736
Ornithacris cavroisi 3341 7486
Patanga succincta 3609
Schistocerca piceifrons 5747 5748 5750
[Orthoptera: Acrididae: Cyrtacanthacridinae]
Kraussaria angulifera 3612 6421
[Orthoptera: Pyrgomorphidae]
Zonocerus elegans 3391
Zonocerus variegatus 3615 3618

Metarhizium album
[Hemiptera: Cicadellidae]
Unknown species 2081
Cofana spectra 2082
Nephotettix virescens 1840 1941 1942 1943 1944 2176 2178 2222 2229
Recilia dorsalis 2179

Metarhizium anisopliae
[Diptera]
Unknown species 9487

Metarhizium anisopliae sensu lato
[Coleoptera]
Unknown species 4333 4334 4335 4336 4337 4338 4339 4341 4558 4572 4582
Haphochelus marginalis 3148
[Coleoptera: Bruchidae]
Unknown species 726 932 954
[Coleoptera: Carabidae]
Unknown species 939 1901
[Coleoptera: Cerambycidae]
Agrianome spinicollis 7498 7499 7500
Anoplophora glabripennis 6388 6389 7180
[Coleoptera: Chrysomelidae]
Brontispa longissima 1078 8745 8746 8747
Cerotoma arcuata 760 2076 2077 2635 2941
Diabrotica 1885 2513
Diabrotica speciosa 1056 1958
[Coleoptera: Coccinellidae]
Coleomegilla maculata 808
[Coleoptera: Curculionidae]
Unknown species 8098 8099
Blosyrus asellus 9217 9218
Chalcodermus aeneus 725 929
Desiantha diversipes 8568 8569
Geraeus senilis 3305 3306 3308
Listronotus maculicollis 9374
Otiorhynchus ligustici 4819 4820 4821 4822 4823 4824
Otiorhynchus sulcatus 818 2432 6549
Rhabdoscelus obscurus 8762 8828 8847
Rhynchophorus palmarum 2331
Sternechus subsignatus 1452 1989
[Coleoptera: Elateridae]
Unknown species 11850
Agriotes 6551 7494 7524 13219 13220 13221
Agriotes sputator 1377
Conoderus 1903
Limonius canus 7000 7001 7002 7003 7004 7005 7006 7007 7008 7009
[Coleoptera: Scarabaeidae]
Unknown species 2163 3479 7527 7529
Adoryphorus coulonii 4137 4138 4141 4142 4239 4346 4677 4716 4722 7815
Amphimallon majale 9373
Anoplognathus 8764
Anoplognathus hirsutus 4574 4779
Antitrogus consanguineus 8761
Antitrogus mussoni 7842 7865 7931
Antitrogus parvulus 7496 7819 7839 7854 7864 8832 8833 8834 8893
Aphodius tasmaniae 347 4132 4133 4139 7845
Costelytra zealandica 3057
Cotinis nitida 11951
Cyclocephala 8837 8838
Dasygnathus dejeani 8839
Dermolepida albohirtum 7492 8744 8754 8755 10469
Heteronychus arator 7932 7933 7934 7935 7936 8848 8849
Heteronyx 7843 7844
Heteronyx piceus 7451 8620
Heteronyx rugosipennis 8564 8610
Lepidiota consobrina 7827 7828 7846 8830 8831 8845 8850
Lepidiota frenchi 7829 7830 7831 8733
Lepidiota gibbifrons 7824 7825 7826
Lepidiota negatoria 7832
Lepidiota noxia 7504
Lepidiota picticollis 8501
Lepidiota squamulata 7816
Melolontha melolontha 7532
Oryctes 2156 2165 2166 2167
Pachnoda interrupta 6670 6671 6672 6673 6674 6675 6677 6678 6679 6680 6682 6683 6684 6685
Papuana 8748
Phyllopertha horticola 6901
Phyllophaga 12798
Phyllophaga ?anxia 2135 2136 2137 2138 2139
Phyllophaga anxia 8499
Popillia japonica 1280 2548 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3713 3720 4907 4908 9372
Rhopaea magnicornis 8492 8765 8766 8767 8829 8844
Rhopaea verreauxii 8495
Sericesthis micans 4568 4777 4778
Sericesthis nigrolineata 4780 7814 7863
Sericethis 4134 4236
[Coleoptera: Staphylinidae]
Unknown species 8734
[Coleoptera: Tenebrionidae]
Alphitobius diaperinus 5837 5841 5842 5848 5850
Tenebrio molitor 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8941 8942 8943 8944 8945 8946 8947 8948 8949 8950 8951 8952 8953 8954 8955 9235 9236 11945 11946 11947
Tribolium castaneum 3389 5624
[Dictyoptera: Blattidae]
Unknown species 940
[Diptera]
Unknown species 9939
[Diptera: Anthomyiidae]
Delia floralis 5520

[Diptera: Culicidae]
Unknown species 13231 13247
Ochlerotatus triseriatus 3827
[Diptera: Ephydridae]
?Hydrellia 2105
Scatella tenuicosta 8248 8249
[Diptera: Stratiomyidae]
Boreoides tasmaniensis 4600 4620
Inopus rubriceps 7840 7841 7855 7856 7857 7858 7859 7860 7861 7914 7915 7916 7917 7918 7919 7920 7926
[Diptera: Tipulidae]
Tipula paludosa 13222
[Hemiptera]
Unknown species 4901 4902
[Hemiptera: Adelgidae]
Adelges tsugae 9590
[Hemiptera: Aphididae]
Diuraphis noxia 3822
Pemphigus trehernei 6570
[Hemiptera: Cercopidae]
Unknown species 1282 1299 1379 1381 1382 1890 1891 1895 1899 1902 1911 3147 3307 7474 7475 7476 8376 8498 8527
Aeneolamia varia 6319 6342 6343 6345 6346
Deois 2521
Deois flavopicta 729 759 782 925 955 1970
Deois incompleta 1449
Kanaima fluvialis 8377
Mahanarva posticata 1896
Mahanarva sp. 6321 6322
Zulia carbonaria 6457 6468
Zulia colombiana 6356
Zulia pubescens 6323
[Hemiptera: Cicadellidae]
Unknown species 2382
Recilia dorsalis 543
[Hemiptera: Cicadidae]
Unknown species 4095
[Hemiptera: Delphacidae]
Nilaparvata lugens 457 485 486 487 488 489 1284 1285 1286 1290 1300 1304 1745 7644
[Hemiptera: Pentatomidae]
Nezara viridula 1055
Piezodorus guildini 761
Scotinophara coarctata 1432 1548 2341 2342 2343 2383 2384 2385
Tibraca limbativentres 1882 2212 2213 2214
[Hymenoptera: Cephidae]
Cephus cinctus 12466 13348 13349
[Hymenoptera: Encyrtidae]
Anagyrus 3146
[Hymenoptera: Formicidae]
Atta 2510
Myrmica rubra 7059 7535 7537 7538
Myrmica scabrinodis 7536
[Isoptera]
Unknown species 2949 2951
[Isoptera: Kalotermitidae]
Cryptotermes brevis 7927 7928 7930
Neotermes 8731
[Isoptera: Mastotermitidae]
Mastotermes 7506
[Isoptera: Rhinotermitidae]
Coptotermes 8063
Coptotermes formosanus 6909 6910 6911 8015
Coptotermes lacteus 8231 8232 8233 8234 8235 8236 8503 8504 8506 8507 8508 8509 8510 8511 8512 8513 8514 8516 8517 8518 8531 8532 8533 8535 8538 8539 8540 8541 8575
[Isoptera: Termitidae]
Microcerotermes 8591
Nasutitermes exitiosus 8070 8071 8100 8229 8230
[Lepidoptera]
Unknown species 1094 2424 9541
[Lepidoptera: Hepialidae]
Oncopera alboguttata 7820 7821 7822 7823
Oncopera intrucata 4234
[Lepidoptera: Lasiocampidae]
Malacosoma disstria 6167
[Lepidoptera: Noctuidae]
Helicoverpa zea 11637
Spodoptera 8735
Spodoptera frugiperda 3293
[Lepidoptera: Nymphalidae]
Chlosyne lacinia saundersii 1059
[Lepidoptera: Plutellidae]
Plutella xylostella 4521 4522
[Lepidoptera: Pyralidae]
Diatraea saccharalis 3290 3291 3292
Eoreuma loftini 5469
Galleria mellonella 4904 4905 4906 5369 5513 5514 5515 5516 5517 5518 5519 5521 5554 5555 5556 6475 6558 7014 7015 7016 7017 7018 7019 7020 7021 7022 7023 7024 7025 7026 7569 7570 7571 7572 7573 7612 7613 7614 7615 7847 7967 8212 8334 8335 8336 8338 8341 8342 8344 8346 8347 8350 8351 8352 8353 8432 8433 8434 8435 8436 8437 8438 8440 8443 8445 8446 8447 8450 8451 8452 8453 8454 8660 8662 8665 8669 8680 8681 8682 8683 8684 8685 8686 8687 8688 8689 8690 8691 8692 8769 11661
[Orthoptera]
Unknown species 728 6237
[Orthoptera: Acrididae]
Oxya multidentata 3619
Phaulacridium vittatum 7862
Schistocerca gregaria 3127 5628
Schistocerca piceifrons 5746 5749 5752
[Orthoptera: Catantopidae]
Calliptamus italicus 8696 8698 8701 8702
[Orthoptera: Gryllidae]
Teleogryllus commodus 435 438 440 441 442 445 7489 7490 8760 8841 8842
[Orthoptera: Gryllotalpidae]
Gryllotalpa gryllotalpa 11694
[Phasmatodea: Phasmatidae]
Unknown species 6236
[Poales: Poaceae]
Triticum aestivum 13350
[Primates: Hominidae]
Homo sapiens 8759
[Thysanoptera: Thripidae]
Unknown species 11840
Frankliniella occidentalis 9591 13218
Taeniothrips inconsequens 10135 10136 10137

Metarhizium anisopliae sensu stricto
[Coleoptera: Chrysomelidae]
Brontispa longissima 2223
[Coleoptera: Curculionidae]
Otiorhynchus sulcatus 6546
[Coleoptera: Elateridae]
Conoderus 2518
[Coleoptera: Scarabaeidae]
Anomola 8738
Heteronyx 8586
Heteronyx piceus 7450 8500 8615 8616 8617
Holotrichia consanguinea 10475
Holotrichia serrata 10472 10476
Phyllophaga cuyabana 3924
[Diptera: Stratiomyidae]
Unknown species 7418 7419 7423 7426 7427 7428
[Hemiptera: Cercopidae]
Unknown species 1045 1912
Aeneolamia varia 798 3621 6347
Deois flavopicta 1044 1900 2517
Mahanarva fimbriolata 7979 7981
Mahanarva posticata 1894 2627 7980
Zulia pubescens 6317 6318
[Hemiptera: Cicadellidae]
Nephotettix virescens 2153
[Hemiptera: Delphacidae]
Nilaparvata lugens 2080 2421
[Hemiptera: Pentatomidae]
Unknown species 755
Tibraca limbativentres 1883
[Isoptera: Mastotermitidae]
Mastotermes darwiniensis 7430 8581 8584 8585 8587 8588 8589
[Isoptera: Rhinotermitidae]
Coptotermes 8089 8093
Coptotermes acinaciformis 8081 8087 8088
Coptotermes frenchi 8067
Coptotermes lacteus 7432 8072 8073 8074 8094 8095
[Isoptera: Termitidae]
Microcerotermes 8590
Nasutitermes exitiosus 8068 8075 8080 8082 8083 8084 8085 8086 8090 8091 8570
[Lepidoptera: Noctuidae]
Helicoverpa zea 1080
Mocis 587
Spodoptera litura 10473
[Lepidoptera: Pyralidae]
Eoreuma loftini 5471

Galleria mellonella 8560
Ostrinia nubilalis 1489
[Orthoptera: Acrididae]
Schistocerca gregaria 7487
[Orthoptera: Gryllotalpidae]
Unknown species 2786

Metarhizium anisopliae var. acridum
[Orthoptera: Acrididae]
Unknown species 5734
Austracris guttulosa 7970 8359
[Orthoptera: Acrididae: Cyrtacanthacridinae]
Kraussaria angulifera 3614
[Orthoptera: Pyrgomorphidae]
Zonocerus variegatus 3606

Metarhizium anisopliae var. anisopliae
[Diptera: Syrphidae]
Eumerus strigatus 6550

Metarhizium anisopliae var. lepidiotae
[Coleoptera: Scarabaeidae]
Dermolepida albohirtum 7453
Lepidiota consobrina 8732

Metarhizium argentinense
[Blattodea]
Unknown species 13509
[Blattodea: Blaberidae]
Epilampra 13510

Metarhizium brasiliense
[Hemiptera: Cicadellidae]
Unknown species 2948

Metarhizium brunneum
[Acari: Ixodidae]
Boophilus 3297 4556
[Araneida]
Unknown species 5851
[Coleoptera: Cerambycidae]
Anoplophora glabripennis 6392 7234 8415 8416 8417 8418 8419
[Coleoptera: Curculionidae]
Unknown species 2210 2224
Otiorhynchus sulcatus 817 820 4228 5198
Sitona lineatus 4020
[Coleoptera: Elateridae]
Agriotes 2107
[Coleoptera: Scarabaeidae]
Unknown species 472
Aphodius tasmaniae 346 4125 4131
Diloboderus abderus 6120
Melolontha melolontha 1066
Phyllopertha horticola 6477
Popillia japonica 3864
[Coleoptera: Tenebrionidae]
Tenebrio molitor 5626
Tribolium castaneum 5625
[Diptera: Culicidae]
Aedes crinifer 2974
Ochlerotatus triseriatus 3826
[Hemiptera: Delphacidae]
Nilaparvata lugens 455
[Hymenoptera: Formicidae]
Solenopsis invicta 3738
[Isoptera: Rhinotermitidae]
Coptotermes formosanus 3045
Coptotermes lacteus 8515 8534 8536 8537
[Isoptera: Termitidae]
Nasutitermes exitiosus 8069
[Lepidoptera: Bombycidae]
Bombyx mori 988
[Lepidoptera: Hepialidae]
Oxycanus 1187
Wiseana sp. 4681
[Lepidoptera: Lyonetiidae]
Leucoptera scitella 1116
[Lepidoptera: Noctuidae]
Anticarsia gemmatalis 3295
Spodoptera frugiperda 3294
[Lepidoptera: Olethreutidae]
Carpocapsa pomonella 1095
[Lepidoptera: Pyralidae]
Galleria mellonella 6474 8671
[Lepidoptera: Tortricidae]
Lobesia botrana 1112
[Orthoptera: Acrididae]
Unknown species 8608
Schistocerca piceifrons 5751

Metarhizium carneum
[Coleoptera: Staphylinidae]
Unknown species 11836
[Thysanoptera: Thripidae]
Unknown species 11821
Taeniothrips inconsequens 10232 10233

Metarhizium cylindrosporum
[Hemiptera: Cicadidae]
Pomponia linearis 6926

Metarhizium flavoviride
[Coleoptera: Curculionidae]
Ceutorhynchus macula-alba 2133
Otiorhynchus sulcatus 1184 2024
[Coleoptera: Scarabaeidae]
Adoryphorus coulonii 4719 4720
Lachnosterna bidentata 8737
[Orthoptera: Acrididae]
Chortoicetes terminifera 8758

Metarhizium frigidum
[Coleoptera: Scarabaeidae]
Adoryphorus 4124
[Isoptera: Rhinotermitidae]
Coptotermes lacteus 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448

Metarhizium globosum
[Lepidoptera: Pyralidae]
Pyrausta machaeralis 2596

Metarhizium guizhouense
[Coleoptera: Curculionidae]
Myllocerus discolor 3603
Sitona discoideus 819
[Coleoptera: Scarabaeidae]
Unknown species 683
Amphimallon solstitiale 11668 11669
Melolontha melolontha 977
Papuana woodlarkiana 4604
[Diptera: Stratiomyidae]
Unknown species 7420
[Lepidoptera]
Unknown species 6238
[Lepidoptera: Bombycidae]
Bombyx mori 703
[Lepidoptera: Noctuidae]
Unknown species 2140
[Orthoptera: Acrididae]
Pseudosphingonotus savignyi 3611

Metarhizium koreanum
[Hemiptera: Delphacidae]
Nilaparvata lugens 2038 2039

Metarhizium lepidiotae
[Coleoptera: Scarabaeidae]
Dermolepida albohirtum 7488
Lepidiota consobrina 7411 7412
[Isoptera: Rhinotermitidae]
Coptotermes acinaciformis 8064
Coptotermes lacteus 8502

Metarhizium majus
[Coleoptera: Scarabaeidae]
Unknown species 1858 1859
Anoplognathus 4566 4601 7505
Oryctes 1914
Oryctes rhinoceros 978 1946 2151 3145
Protaetia orientalis submarumorea 12557
Xyloryctes jamaicensis 297 298
[Lepidoptera: Bombycidae]
Bombyx mori 1015
[Lepidoptera: Noctuidae]
Spodoptera 8736

Metarhizium marquandii
[Thysanoptera: Thripidae]
Unknown species 9928 9929

Metarhizium minus
[Hemiptera: Cicadellidae]
Unknown species 2339
Nephotettix virescens 1945
Recilia dorsalis 1546 1547
[Hemiptera: Delphacidae]
Nilaparvata lugens 1099 1271 1272 1273 1274 1275 1276 1277 1279 1283 1287 1288 1289 1291 1292 1293 1294 1295 1296 1297 1301 1302 1303 1305 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 2037
[Hemiptera: Pentatomidae]
Scotinophara coarctata 2381
[Orthoptera: Acrididae]
Unknown species 2023

Metarhizium novozealandicum
[Coleoptera: Scarabaeidae]
Costelytra zealandica 3056
[Lepidoptera: Crambidae]
Unknown species 3064 8214

Metarhizium pemphigi
[Hemiptera: Aphididae]
Pemphigus 7491
Pemphigus trehernei 6569
[Isoptera: Rhinotermitidae]
Reticulitermes flavipes 9358

Metarhizium pingshaense
[Coleoptera]
Unknown species 3210 4290 4340 4342 4557 4610
[Coleoptera: Cerambycidae]
Anoplophora glabripennis 8420
[Coleoptera: Chrysomelidae]
Zygogramma bicolorata 2231
[Coleoptera: Curculionidae]
Diaprepes abbreviata 5197
[Coleoptera: Scarabaeidae]
Unknown species 2162
Anomola 8739 8740 8741 8742 8743
Antitrogus mussoni 7417
Antitrogus parvulus 7410
Costelytra zealandica 7435
Dermolepida albohirtum 7452
Heteronychus arator 8555
Heteronyx piceus 8618 8619 8621
Heteronyx rugosipennis 8566
Oryctes rhinoceros 538
Scapanes australis 3604
[Diptera: Stratiomyidae]
Unknown species 7414 7421 7422 7425 7429
Inopus rubriceps 8497
[Hemiptera: Cicadellidae]
Nephotettix cincticeps 2043
Nephotettix virescens 2106
[Hemiptera: Cydnidae]
Scaptores castanea 1448
[Hemiptera: Delphacidae]
Nilaparvata lugens 456 576 1724 1725 1726 1727 1728 1729 1744 1823
[Hemiptera: Pentatomidae]
Scotinophara coarctata 1545
[Hemiptera: Pseudococcidae]
Paracoccus marginatus 9612 9613
[Isoptera: Kalotermitidae]
Cryptotermes brevis 7929
[Isoptera: Rhinotermitidae]
Coptotermes 8092
Coptotermes lacteus 7431 8059 8505
[Isoptera: Termitidae]
Drepanotermes perniger 8062
Nasutitermes exitiosus 8061 8097
[Lepidoptera]
Galactica 552
[Lepidoptera: Noctuidae]
Spodoptera 2735
[Orthoptera: Acrididae]
Acrotylus 3605
Phaulacridium vittatum 7415 7416
Pseudosphingonotus savignyi 3610
[Orthoptera: Gryllidae]
Ornebius kanetataki 1009
Teleogryllus commodus 436 437 439 443 444 446
Teleogryllus emma 12566

Metarhizium rileyi
[Hemiptera: Cercopidae]
Mahanarva posticata 1898
[Hemiptera: Delphacidae]
Nilaparvata lugens 2104
Sogatella furcifera 558
[Lepidoptera]
Unknown species 936 1879 1893
[Lepidoptera: Bombycidae]
Bombyx mori 711
[Lepidoptera: Lymantriidae]
Lymantria 481 482 483
[Lepidoptera: Noctuidae]
Unknown species 135 6875 9489 9490
Alabama argillacea 7148
Anticarsia gemmatalis 1950 2013 2201 2202 2203 2204 2205 2207 2465 2466 2492 3940 5206 5207 5208 5209 5210 5211 5212 6731 6732 6734 6736 6737 6738 6739 6740 6741 6742 6743 6744 6745 6746 6747 6748 6749 6764 6765 6766 6767 6775 6776 6777 6778 6779 6780 6782 6783 6784 6786 6787 6868 6869 6870 6872 6873 6874 6876 6877 6878 7052 7053 7054 7055 7056 7149 7150 7151 7479 7480 7481 7482 7484 7778 7779 7780
Helicoverpa armigera 2413 6239
Mocis frugalis 1762
Naranga 2345 2390
Plathypena scabra 762 6871 6881
Plusia 1047
Plusiinae 6781 6785 6879
Prodenia litura 1014
Pseudoplusia includens 6866 6882
Rachiplusia nu 2206
Rivula atimeta 1756 1757 1758 1759 1760 2395
Spodoptera 323 358 380 740 935 6867
Spodoptera exigua 539 540
Spodoptera frugiperda 1972 3301 4094 6735 6768 6769 6770 6771 6772 6773 6774 11939 11941 11942 11943 13508
Spodoptera litura 6645
[Lepidoptera: Pyralidae]
Cnaphalocrocis medinalis 1761 2174

Metarhizium robertsii
[Coleoptera: Carabidae]
Unknown species 2469
[Coleoptera: Cerambycidae]
Dectes texanus 6472
[Coleoptera: Chrysomelidae]
Cerotoma arcuata 724
Diabrotica 2514
[Coleoptera: Curculionidae]
Curculio caryae 2575 3608
Listronotus oregonensis 2981
Otiorhynchus sulcatus 1910
[Coleoptera: Elateridae]
Unknown species 8543 8544 8545 8546 8547 8548
Conoderus 23 1897
[Coleoptera: Scarabaeidae]
Ancognatha scarabaeoides 797
Heteronychus arator 7424 8549 8550 8551 8552 8553 8554 8556 8557 8576
Heteronyx 7449
Heteronyx piceus 8558 8559 8582 8583 8592
Heteronyx rugosipennis 8563 8565 8567 8577
Phyllophaga 12797 12799
Phyllophaga ?anxia 2134
Popillia japonica 1046 1298 1878 3721 5149
Rhizotrogus majalis 2547 3108 3211 4123
Strigoderma arboricola 1968
[Coleoptera: Tenebrionidae]
Tribolium castaneum 3388
[Hemiptera: Cicadidae]
Unknown species 3925
[Hemiptera: Cydnidae]
?Cirtonemus 1952
[Hymenoptera: Formicidae]
Atta sexdens rubropilosa 2560
Solenopsis 2561
[Isoptera: Kalotermitidae]
Kalotermes 7413
[Isoptera: Rhinotermitidae]
Coptotermes lacteus 8542
Reticulitermes flavipes 9607
[Isoptera: Termitidae]
Nasutitermes exitiosus 8060
[Lepidoptera: Nymphalidae]
Chlosyne lacinia saundersii 1057
[Lepidoptera: Plutellidae]
Plutella xylostella 5873
[Lepidoptera: Pyralidae]
Galleria mellonella 4903 6476
[Orthoptera: Tettigoniidae]
Unknown species 727

Metarhizium viridulum
[Hemiptera: Cicadidae]
Cryptotympana facialis 6927

Animalia

Arthropoda • Arachnida

Acari: Ixodidae
Boophilus sp.
Mexico
Metarhizium brunneum 3297
USA, Florida
Metarhizium brunneum 4556

Araneida
Denmark
Metarhizium brunneum 5851

Arthropoda • Insecta

Argentina
Metarhizium argentinense 13509

Blattodea: Blaberidae
Epilampra sp.
Argentina
Metarhizium argentinense 13510

Coleoptera
India
Metarhizium pingshaense 3210
Solomon Islands
Metarhizium anisopliae sensu lato 4333 4334 4335 4336 4337 4338 4339 4341 4558 4572 4582
Metarhizium pingshaense 4290 4340 4342 4557 4610
Haphochelus marginalis
France
Metarhizium anisopliae sensu lato 3148

Coleoptera: Bruchidae
Brazil, Goiás
Metarhizium anisopliae sensu lato 726 932
Brazil, Mato Grosso
Metarhizium anisopliae sensu lato 954

Coleoptera: Carabidae
Brazil, Goiás
Metarhizium anisopliae sensu lato 939
Brazil, Pará
Metarhizium anisopliae sensu lato 1901
Mexico
Metarhizium robertsii 2469

Coleoptera: Cerambycidae
Agrianome spinicollis
Australia
Metarhizium anisopliae sensu lato 7498 7499 7500
Anoplophora glabripennis
PR China
Metarhizium pingshaense 8420
USA, Connecticut
Metarhizium anisopliae sensu lato 6388
USA, Massachusetts
Metarhizium anisopliae sensu lato 6389
USA, Illinois
Metarhizium anisopliae sensu lato 7180
USA, Connecticut
Metarhizium brunneum 6392 7234 8415 8416 8417 8418 8419
Dectes texanus
USA, Kansas
Metarhizium robertsii 6472

Coleoptera: Chrysomelidae
USA, Vermont
Metarhizium sp. 11849
Agelastica alni
Russian Federation
Metarhizium sp. 7643
Brontispa longissima
Australia
Metarhizium anisopliae sensu lato 8745 8746 8747
Western Samoa
Metarhizium anisopliae sensu lato 1078
Metarhizium anisopliae sensu stricto 2223
Cerotoma arcuata
Brazil, Goiás
Metarhizium anisopliae sensu lato 760 2076 2077 2635 2941
Metarhizium robertsii 724
Diabrotica sp.
Brazil, Goiás
Metarhizium anisopliae sensu lato 1885 2513
Metarhizium robertsii 2514
Diabrotica speciosa
Brazil, Bahia
Metarhizium anisopliae sensu lato 1958
Brazil, Paraná
Metarhizium anisopliae sensu lato 1056
Zygogramma bicolorata
India
Metarhizium pingshaense 2231

Coleoptera: Coccinellidae
Coleomegilla maculata
Brazil, Goiás
Metarhizium anisopliae sensu lato 808

Coleoptera: Curculionidae
Metarhizium anisopliae sensu lato 8098 8099
Indonesia, Sulawesi Selatan, Celebes
Metarhizium brunneum 2210
Indonesia
Metarhizium brunneum 2224
Blosyrus asellus
USA, Hawaii
Metarhizium anisopliae sensu lato 9217 9218
Ceutorhynchus macula-alba
Czech Republic
Metarhizium flavoviride 2133
Chalcodermus aeneus
Brazil, Goiás
Metarhizium anisopliae sensu lato 725 929
Curculio caryae
USA, South Carolina
Metarhizium robertsii 2575
USA
Metarhizium robertsii 3608
Desiantha diversipes
Metarhizium anisopliae sensu lato 8568 8569
Diaprepes abbreviata
USA, Florida
Metarhizium pingshaense 5197
Geraeus senilis
Mexico
Metarhizium anisopliae sensu lato 3305 3306 3308
Listronotus maculicollis
USA, New York
Metarhizium anisopliae sensu lato 9374
Listronotus oregonensis
Canada, Québec
Metarhizium robertsii 2981
Myllocerus discolor
India
Metarhizium guizhouense 3603
Otiorhynchus ligustici
USA, New York
Metarhizium anisopliae sensu lato 4819 4820 4821 4822 4823 4824
Otiorhynchus sulcatus
Australia
Metarhizium brunneum 4228
France
Metarhizium anisopliae sensu lato 818
Metarhizium brunneum 817 820
Metarhizium flavoviride 1184 2024
Germany
Metarhizium brunneum 5198
Metarhizium robertsii 1910
United Kingdom
Metarhizium anisopliae sensu lato 6549
Metarhizium anisopliae sensu stricto 6546
USA, Oregon
Metarhizium anisopliae sensu lato 2432
Rhabdoscelus obscurus
Australia
Metarhizium anisopliae sensu lato 8762 8828 8847

Rhynchophorus palmarum
Mexico
Metarhizium anisopliae sensu lato 2331
Sitona discoideus
France
Metarhizium guizhouense 819
Sitona lineatus
Denmark
Metarhizium brunneum 4020
Sternechus subsignatus
Brazil, Paraná
Metarhizium anisopliae sensu lato 1452 1989

Coleoptera: Elateridae
Australia
Metarhizium robertsii 8543 8544 8545 8546 8547 8548
USA, New York
Metarhizium anisopliae sensu lato 11850
Agriotes sp.
Switzerland
Metarhizium anisopliae sensu lato 7524
United Kingdom
Metarhizium anisopliae sensu lato 6551 13219 13221
USA, Oregon
Metarhizium anisopliae sensu lato 7494
Metarhizium brunneum 2107
Wales
Metarhizium anisopliae sensu lato 13220
Agriotes sputator
Switzerland
Metarhizium anisopliae sensu lato 1377
Conoderus sp.
New Zealand
Metarhizium anisopliae sensu stricto 2518
USA
Metarhizium anisopliae sensu lato 1903
USA, California
Metarhizium robertsii 1897
USA, North Carolina
Metarhizium robertsii 23
Limonius canus
USA, Washington
Metarhizium anisopliae sensu lato 7000 7001 7002 7003 7004 7005 7006 7007 7008 7009

Coleoptera: Scarabaeidae
Australia
Metarhizium brunneum 472
Brazil, Distrito Federal
Metarhizium anisopliae sensu lato 3479
Nepal
Metarhizium anisopliae sensu lato 7527 7529
Papua New Guinea
Metarhizium anisopliae sensu lato 2163
Metarhizium pingshaense 2162
Poland
Metarhizium majus 1858 1859
PR China
Metarhizium guizhouense 683
Adoryphorus sp.
Australia
Metarhizium frigidum 4124
Adoryphorus coulonii
Metarhizium anisopliae sensu lato 4142 4239
Australia
Metarhizium anisopliae sensu lato 4137 4138 4141 4346 4677 4716 4722 7815
Metarhizium flavoviride 4719 4720
Amphimallon majale
USA, New York
Metarhizium anisopliae sensu lato 9373
Amphimallon solstitiale
Turkey
Metarhizium guizhouense 11668 11669
Metarhizium sp. 11685 11686
Ancognatha scarabaeoides
Colombia
Metarhizium robertsii 797
Anomola sp.
Myanmar
Metarhizium anisopliae sensu stricto 8738
Metarhizium pingshaense 8739 8740 8741 8742 8743
Anoplognathus sp.
Australia
Metarhizium anisopliae sensu lato 8764
Metarhizium majus 4566 4601 7505
Anoplognathus hirsutus
Australia
Metarhizium anisopliae sensu lato 4574 4779
Antitrogus consanguineus
Australia
Metarhizium anisopliae sensu lato 8761
Antitrogus mussoni
Australia
Metarhizium anisopliae sensu lato 7842 7865 7931
Metarhizium pingshaense 7417
Antitrogus parvulus
Metarhizium anisopliae sensu lato 8832 8893
Australia
Metarhizium anisopliae sensu lato 7496 7819 7839 7854 7864 8833 8834
Metarhizium pingshaense 7410
Aphodius tasmaniae
Australia
Metarhizium anisopliae sensu lato 347 4132 4133 4139 7845
Metarhizium brunneum 346 4125 4131
Costelytra zealandica
New Zealand
Metarhizium anisopliae sensu lato 3057
Metarhizium novozealandicum 3056
Metarhizium pingshaense 7435
Cotinis nitida
USA, Georgia
Metarhizium anisopliae sensu lato 11951
Cyclocephala sp.
Australia
Metarhizium anisopliae sensu lato 8837 8838
Dasygnathus dejeani
Australia
Metarhizium anisopliae sensu lato 8839
Dermolepida albohirtum
Metarhizium anisopliae sensu lato 7492
Metarhizium sp. 7493
Australia
Metarhizium anisopliae var. *lepidiotae* 7453
Metarhizium anisopliae sensu lato 8744 8754 8755 10469
Metarhizium lepidiotae 7488
Metarhizium pingshaense 7452
Diloboderus abderus
Argentina
Metarhizium brunneum 6120
Heteronychus arator
Australia
Metarhizium anisopliae sensu lato 7932 7933 7934 7935 7936 8848 8849
Metarhizium pingshaense 8555
Metarhizium robertsii 7424 8549 8550 8551 8552 8553 8554 8556 8557 8576
Heteronyx sp.
Australia
Metarhizium anisopliae sensu lato 7843 7844
Metarhizium anisopliae sensu stricto 8586
Metarhizium robertsii 7449
Heteronyx piceus
Australia
Metarhizium anisopliae sensu lato 7451 8620
Metarhizium anisopliae sensu stricto 7450 8500 8615 8616 8617
Metarhizium pingshaense 8618 8619 8621
Metarhizium robertsii 8558 8559 8582 8583 8592

Heteronyx rugosipennis
Australia
Metarhizium anisopliae sensu lato 8564 8610
Metarhizium pingshaense 8566
Metarhizium robertsii 8563 8565 8567 8577
Holotrichia consanguinea
India
Metarhizium anisopliae sensu stricto 10475
Holotrichia serrata
India
Metarhizium anisopliae sensu stricto 10472 10476
Lachnosterna bidentata
Malaysia
Metarhizium flavoviride 8737
Lepidiota consobrina
Metarhizium anisopliae sensu lato 8830 8831
Australia
Metarhizium anisopliae var. *lepidiotae* 8732
Metarhizium anisopliae sensu lato 7827 7828 7846 8845 8850
Metarhizium lepidiotae 7411 7412
Lepidiota frenchi
Australia
Metarhizium anisopliae sensu lato 7829 7830 7831 8733
Lepidiota gibbifrons
Australia
Metarhizium anisopliae sensu lato 7824 7825 7826
Lepidiota negatoria
Australia
Metarhizium anisopliae sensu lato 7832
Lepidiota noxia
Australia
Metarhizium anisopliae sensu lato 7504
Lepidiota picticollis
Metarhizium anisopliae sensu lato 8501
Lepidiota squamulata
Australia
Metarhizium anisopliae sensu lato 7816
Melolontha melolontha
France
Metarhizium guizhouense 977
Switzerland
Metarhizium anisopliae sensu lato 7532
Metarhizium brunneum 1066
Oryctes sp.
Papua New Guinea
Metarhizium anisopliae sensu lato 2156 2165 2166 2167
Philippines
Metarhizium majus 1914
Oryctes rhinoceros
France
Metarhizium majus 978 3145
Indonesia, Jawa Barat, Java
Metarhizium majus 2151
Philippines
Metarhizium majus 1946
Thailand
Metarhizium pingshaense 538
Pachnoda interrupta
Ethiopia
Metarhizium anisopliae sensu lato 6670 6671 6672 6673 6674 6675 6677 6678 6679 6680 6682 6683 6684 6685
Papuana sp.
Papua New Guinea
Metarhizium anisopliae sensu lato 8748
Papuana woodlarkiana
Papau New Guinea
Metarhizium guizhouense 4604
Phyllopertha horticola
Norway
Metarhizium anisopliae sensu lato 6901
Metarhizium brunneum 6477
Phyllophaga sp.
USA, Oklahoma
Metarhizium anisopliae sensu lato 12798
Metarhizium robertsii 12797 12799
Metarhizium sp. 12796
Phyllophaga ?anxia
Canada
Metarhizium anisopliae sensu lato 2135 2136 2137 2138 2139
Metarhizium robertsii 2134
Phyllophaga anxia
Canada
Metarhizium anisopliae sensu lato 8499
Phyllophaga cuyabana
Brazil, Paraná
Metarhizium anisopliae sensu stricto 3924
Popillia japonica
Japan
Metarhizium robertsii 1046
Portugal
Metarhizium anisopliae sensu lato 3329 4907 4908
Metarhizium brunneum 3864
Metarhizium robertsii 5149
Metarhizium sp. 3863 3865
USA, New York
Metarhizium anisopliae sensu lato 1280
USA, Connecticut
Metarhizium anisopliae sensu lato 3713 3720
USA, New York
Metarhizium anisopliae sensu lato 9372
Metarhizium robertsii 1298 1878
USA, Connecticut
Metarhizium robertsii 3721
USA, New York
Metarhizium anisopliae sensu lato 2548 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340
Protaetia orientalis submarumorea
Japan
Metarhizium majus 12557
Rhizotrogus majalis
USA, New York
Metarhizium robertsii 4123 2547 3108 3211
Rhopaea magnicornis
Australia
Metarhizium anisopliae sensu lato 8492 8765 8766 8767 8829 8844
Metarhizium sp. 7495 8851 8852 8855 8856 8857
Rhopaea verreauxii
Australia
Metarhizium anisopliae sensu lato 8495
Scapanes australis
Papua New Guinea
Metarhizium pingshaense 3604
Sericesthis micans
Australia
Metarhizium anisopliae sensu lato 4568 4777 4778
Sericesthis nigrolineata
Australia
Metarhizium anisopliae sensu lato 4780 7814 7863
Sericethis sp.
Australia
Metarhizium anisopliae sensu lato 4134 4236
Strigoderma arboricola
USA, Michigan
Metarhizium robertsii 1968
Xyloryctes jamaicensis
Western Samoa
Metarhizium majus 297 298

Coleoptera: Scolytidae
Hypothenemus hampei
USA, Hawai'i
Metarhizium sp. 13088

Coleoptera: Staphylinidae
Australia
Metarhizium anisopliae sensu lato 8734
USA, New York
Metarhizium carneum 11836

Coleoptera: Tenebrionidae
Alphitobius diaperinus
Metarhizium anisopliae sensu lato 5837 5841 5842 5848 5850
Tenebrio molitor
Finland
Metarhizium brunneum 5626
Mexico
Metarhizium anisopliae sensu lato 11945 11946 11947

Republic of China
Metarhizium anisopliae sensu lato 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8941 8942 8943 8944 8945 8946 8947 8948 8949 8950 8951 8952 8953 8954 8955 9235 9236

Tribolium castaneum
Finland
Metarhizium anisopliae sensu lato 5624
Metarhizium brunneum 5625
USA, Washington
Metarhizium anisopliae sensu lato 3389
Metarhizium robertsii 3388

Dictyoptera: Blattidae
Brazil, Mato Grosso
Metarhizium anisopliae sensu lato 940

Diptera
Ukraine
Metarhizium anisopliae 9487
USA, Vermont
Metarhizium anisopliae sensu lato 9939

Diptera: Anthomyiidae
Delia floralis
Norway
Metarhizium anisopliae sensu lato 5520

Diptera: Culicidae
Brazil
Metarhizium anisopliae sensu lato 13231
Brazil, Tocantins
Metarhizium anisopliae sensu lato 13247
Brazil
Metarhizium sp. 13292
Aedes crinifer
Argentina
Metarhizium brunneum 2974
Ochlerotatus triseriatus
USA, New York
Metarhizium anisopliae sensu lato 3827
Metarhizium brunneum 3826

Diptera: Ephydridae
?Hydrellia sp.
Indonesia, Jawa Barat, Java
Metarhizium anisopliae sensu lato 2105
Scatella tenuicosta
USA, New York
Metarhizium anisopliae sensu lato 8248 8249

Diptera: Stratiomyidae
Australia
Metarhizium anisopliae sensu stricto 7418 7419 7423 7426 7427 7428
Metarhizium guizhouense 7420
Metarhizium pingshaense 7414 7421 7422 7425 7429
Boreoides tasmaniensis
Australia
Metarhizium anisopliae sensu lato 4600 4620
Inopus rubriceps
Australia
Metarhizium anisopliae sensu lato 7840 7841 7855 7856 7857 7858 7859 7860 7861 7914 7915 7916 7917 7918 7919 7920 7926
Metarhizium pingshaense 8497

Diptera: Syrphidae
Eumerus strigatus
United Kingdom
Metarhizium anisopliae var. *anisopliae* 6550

Diptera: Tipulidae
Tipula paludosa
Wales
Metarhizium anisopliae sensu lato 13222

Hemiptera
Location not specified
Metarhizium anisopliae sensu lato 4901 4902

Hemiptera: Adelgidae
Adelges tsugae
USA, Massachusetts
Metarhizium anisopliae sensu lato 9590

Hemiptera: Aphididae
Diuraphis noxia
Laboratory manipulation
Metarhizium anisopliae sensu lato 3822
Pemphigus sp.
United Kingdom
Metarhizium pemphigi 7491
Pemphigus trehernei
United Kingdom
Metarhizium anisopliae sensu lato 6570
Metarhizium pemphigi 6569

Hemiptera: Cercopidae
Argentina
Metarhizium anisopliae sensu lato 7474 7475 7476 8376 8527
Brazil, Bahia
Metarhizium anisopliae sensu lato 1282 1382
Brazil
Metarhizium anisopliae sensu lato 1899 1902 1911 3147 8498
Brazil, Bahia
Metarhizium anisopliae sensu lato 1299 1379
Metarhizium anisopliae sensu stricto 1045
Brazil, Pará
Metarhizium anisopliae sensu lato 1890 1891 1895
Location not specified
Metarhizium anisopliae sensu lato 1381
Mexico
Metarhizium anisopliae sensu lato 3307
Metarhizium anisopliae sensu stricto 1912
Aeneolamia varia
Colombia
Metarhizium anisopliae sensu lato 6319 6342 6343 6345 6346
Metarhizium anisopliae sensu stricto 798 6347
Trinidad and Tobago
Metarhizium anisopliae sensu stricto 3621
Deois sp.
Brazil, Paraná
Metarhizium anisopliae sensu lato 2521
Deois flavopicta
Brazil
Metarhizium anisopliae sensu stricto 2517
Brazil, Bahia
Metarhizium anisopliae sensu stricto 1900
Brazil, Espírito Santo
Metarhizium anisopliae sensu lato 925
Metarhizium anisopliae sensu stricto 1044
Brazil, Goiás
Metarhizium anisopliae sensu lato 729 759 782 955 1970
Deois incompleta
Brazil, Pará
Metarhizium anisopliae sensu lato 1449
Kanaima fluvialis
Argentina
Metarhizium anisopliae sensu lato 8377
Mahanarva fimbriolata
Brazil, São Paulo
Metarhizium anisopliae sensu stricto 7979 7981

Mahanarva posticata
Brazil, Pernambuco
Metarhizium anisopliae sensu stricto 7980
Brazil, Bahia
Metarhizium anisopliae sensu lato 1896
Metarhizium anisopliae sensu stricto 1894
Metarhizium rileyi 1898
Brazil, Pernambuco
Metarhizium anisopliae sensu stricto 2627
Mahanarva sp.
Colombia
Metarhizium anisopliae sensu lato 6321 6322
Zulia carbonaria
Colombia
Metarhizium anisopliae sensu lato 6457 6468
Zulia colombiana
Colombia
Metarhizium anisopliae sensu lato 6356
Zulia pubescens
Colombia
Metarhizium anisopliae sensu lato 6323
Metarhizium anisopliae sensu stricto 6317 6318

Hemiptera: Cicadellidae
Brazil, São Paulo
Metarhizium brasiliense 2948
Philippines
Metarhizium album 2081
Metarhizium anisopliae sensu lato 2382
Metarhizium minus 2339
Metarhizium sp. 2353
Cofana spectra
Indonesia, Sulawesi Utara, Celebes
Metarhizium album 2082
Nephotettix cincticeps
Philippines
Metarhizium pingshaense 2043
Nephotettix virescens
Indonesia, Jawa Barat, Java
Metarhizium pingshaense 2106
Indonesia, Sulawesi Selatan, Celebes
Metarhizium anisopliae sensu stricto 2153
Location not specified
Metarhizium album 2229
Philippines
Metarhizium album 1840 1941 1942 1943 1944 2176 2178 2222
Metarhizium minus 1945
Recilia dorsalis
Philippines
Metarhizium album 2179
Metarhizium anisopliae sensu lato 543
Metarhizium minus 1546 1547

Hemiptera: Cicadidae
Argentina
Metarhizium robertsii 3925
Brazil
Metarhizium anisopliae sensu lato 4095
Russian Federation
Metarhizium sp. 7645
Cryptotympana facialis
Republic of China
Metarhizium viridulum 6927
Pomponia linearis
Republic of China
Metarhizium cylindrosporum 6926

Hemiptera: Cydnidae
?Cirtonemus sp.
Brazil, Goiás
Metarhizium robertsii 1952
Scaptores castanea
Brazil, Goiás
Metarhizium pingshaense 1448

Hemiptera: Delphacidae
Nilaparvata lugens
India
Metarhizium anisopliae sensu lato 1745
Metarhizium pingshaense 1724 1725 1726 1727 1728 1729 1744 1823
Indonesia, Jawa Barat, Java
Metarhizium anisopliae sensu stricto 2080 2421
Metarhizium rileyi 2104
Indonesia, Sulawesi Selatan, Celebes
Metarhizium pingshaense 576
Philippines
Metarhizium anisopliae sensu lato 457 485 486 487 488 489 1284 1285 1286 1290 1300 1304
Metarhizium brunneum 455
Metarhizium minus 1099 1271 1272 1273 1274 1275 1276 1277 1279 1283 1287 1288 1289 1291 1292 1293 1294 1295 1296 1297 1301 1302 1303 1305 2037
Metarhizium pingshaense 456
Republic of Korea
Metarhizium koreanum 2038 2039
Solomon Islands
Metarhizium minus 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773
Vietnam
Metarhizium anisopliae sensu lato 7644
Sogatella furcifera
Indonesia, Sulawesi Selatan, Celebes
Metarhizium rileyi 558

Hemiptera: Pentatomidae
Brazil, Amazonas
Metarhizium anisopliae sensu stricto 755
Nezara viridula
Brazil, Paraná
Metarhizium anisopliae sensu lato 1055
Piezodorus guildini
Brazil, Goiás
Metarhizium anisopliae sensu lato 761
Scotinophara coarctata
Philippines
Metarhizium anisopliae sensu lato 1432 1548 2341 2342 2343 2383 2384 2385
Metarhizium minus 2381
Metarhizium pingshaense 1545
Tibraca limbativentres
Brazil, Goiás
Metarhizium anisopliae sensu lato 1882 2212 2213 2214
Metarhizium anisopliae sensu stricto 1883

Hemiptera: Pseudococcidae
Paracoccus marginatus
India
Metarhizium pingshaense 9612 9613

Hymenoptera: Cephidae
Cephus cinctus
USA, Montana
Metarhizium anisopliae sensu lato 12466 13348 13349
Metarhizium sp. 12511 12516

Hymenoptera: Encyrtidae
Anagyrus sp.
Mexico
Metarhizium anisopliae sensu lato 3146

Hymenoptera: Formicidae
Atta sp.
Brazil, Goiás
Metarhizium anisopliae sensu lato 2510
Atta sexdens rubropilosa
Brazil, São Paulo
Metarhizium robertsii 2560
Myrmica rubra
United Kingdom
Metarhizium anisopliae sensu lato 7535 7537 7538
USA, Maine
Metarhizium anisopliae sensu lato 7059
Myrmica scabrinodis
United Kingdom
Metarhizium anisopliae sensu lato 7536
Solenopsis sp.
Brazil, São Paulo
Metarhizium robertsii 2561
Solenopsis invicta
USA, Texas
Metarhizium brunneum 3738

Isoptera
Brazil, Goiás
Metarhizium anisopliae sensu lato 2949 2951

Isoptera: Kalotermitidae
Cryptotermes brevis
Metarhizium anisopliae sensu lato 7927 7928 7930
Metarhizium pingshaense 7929
Kalotermes sp.
Australia
Metarhizium robertsii 7413
Neotermes sp.
Australia
Metarhizium anisopliae sensu lato 8731

Isoptera: Mastotermitidae
Mastotermes sp.
Metarhizium anisopliae sensu lato 7506
Mastotermes darwiniensis
Australia
Metarhizium anisopliae sensu stricto 7430 8581 8584 8585 8587 8588 8589

Isoptera: Rhinotermitidae
Coptotermes sp.
Australia
Metarhizium anisopliae sensu lato 8063
Metarhizium anisopliae sensu stricto 8089 8093
Metarhizium pingshaense 8092
Coptotermes acinaciformis
Australia
Metarhizium anisopliae sensu stricto 8081 8087 8088
Metarhizium lepidiotae 8064
Coptotermes formosanus
USA, Louisiana
Metarhizium anisopliae sensu lato 6909 6910 6911 8015
USA, Hawaii
Metarhizium brunneum 3045
Coptotermes frenchi
Australia
Metarhizium anisopliae sensu stricto 8067
Coptotermes lacteus
Metarhizium pingshaense 7431
Australia
Metarhizium anisopliae sensu lato 8231 8232 8233 8234 8235 8236 8503 8504 8506 8507 8508 8509 8510 8511 8512 8513 8514 8516 8517 8518 8531 8532 8533 8535 8538 8539 8540 8541 8575
Metarhizium anisopliae sensu stricto 7432 8072 8073 8074 8094 8095
Metarhizium brunneum 8515 8534 8536 8537
Metarhizium frigidum 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448
Metarhizium lepidiotae 8502
Metarhizium pingshaense 8059 8505
Metarhizium robertsii 8542
Reticulitermes flavipes
Canada, Ontario
Metarhizium pemphigi 9358
Metarhizium robertsii 9607
Reticulitermes speratus
Japan
Metarhizium sp. 12563 12570

Isoptera: Termitidae
Drepanotermes perniger
Australia
Metarhizium pingshaense 8062
Microcerotermes sp.
Australia
Metarhizium anisopliae sensu lato 8591
Metarhizium anisopliae sensu stricto 8590
Nasutitermes exitiosus
Australia
Metarhizium anisopliae sensu lato 8070 8071 8100 8229 8230
Metarhizium anisopliae sensu stricto 8068 8075 8080 8082 8083 8084 8085 8086 8090 8091 8570
Metarhizium brunneum 8069
Metarhizium pingshaense 8061 8097
Metarhizium robertsii 8060

Lepidoptera
Brazil, Goiás
Metarhizium rileyi 936
Indonesia, Jawa Barat, Java
Metarhizium anisopliae sensu lato 2424
Laboratory manipulation
Metarhizium anisopliae sensu lato 1094
PR China
Metarhizium guizhouense 6238
Russian Federation
Metarhizium anisopliae sensu lato 9541
Solomon Islands
Metarhizium rileyi 1879 1893
Galactica sp.
Brazil, Distrito Federal
Metarhizium pingshaense 552

Lepidoptera: Bombycidae
Bombyx mori
Japan
Metarhizium brunneum 988
Metarhizium majus 1015
PR China
Metarhizium guizhouense 703
Metarhizium rileyi 711

Lepidoptera: Crambidae
New Zealand
Metarhizium novozealandicum 3064 8214

Lepidoptera: Hepialidae
Oncopera alboguttata
Australia
Metarhizium anisopliae sensu lato 7820 7821 7822 7823
Oncopera intrucata
Australia
Metarhizium anisopliae sensu lato 4234
Oxycanus sp.
New Zealand
Metarhizium brunneum 1187
Wiseana sp.
New Zealand
Metarhizium brunneum 4681

Lepidoptera: Lasiocampidae
Malacosoma disstria
USA, New York
Metarhizium anisopliae sensu lato 6167

Lepidoptera: Lymantriidae
Lymantria sp.
Philippines
Metarhizium rileyi 481 482 483

Lepidoptera: Lyonetiidae
Leucoptera scitella
Italy
Metarhizium brunneum 1116

Lepidoptera: Noctuidae
Brazil, São Paulo
Metarhizium rileyi 6875
Canada
Metarhizium guizhouense 2140
Russian Federation
Metarhizium rileyi 9489 9490
USA, Mississippi
Metarhizium rileyi 135
Alabama argillacea
Argentina
Metarhizium rileyi 7148
Anticarsia gemmatalis
Argentina
Metarhizium rileyi 2013 2465 2466 5206 5207 5208 5209 5210 5211 5212 6877 7052 7053 7054 7055 7056 7149 7150 7151 7479 7480 7481 7482 7484 7778 7779 7780
Brazil, Paraná
Metarhizium rileyi 6731 6732 6734 6736 6737 6738 6739 6740 6741 6742 6743 6744 6745 6746 6747 6748 6749 6764 6765 6766 6767 6775 6776 6777 6778 6779 6780 6782 6783 6784 6786 6787 6874 6878
Brazil, Pará
Metarhizium rileyi 1950
Brazil, Paraná
Metarhizium rileyi 3940

Brazil, Rio Grande do Sul
Metarhizium rileyi 2201 2202 2203 2204 2205 2207
Mexico
Metarhizium brunneum 3295
Metarhizium rileyi 2492
USA, Florida
Metarhizium rileyi 6868 6869 6870 6872 6873 6876
Helicoverpa armigera
India
Metarhizium rileyi 2413
PR China
Metarhizium rileyi 6239
Helicoverpa zea
USA
Metarhizium anisopliae sensu lato 11637
USA, Florida
Metarhizium anisopliae sensu stricto 1080
Mocis sp.
Colombia
Metarhizium anisopliae sensu stricto 587
Mocis frugalis
Philippines
Metarhizium rileyi 1762
Naranga sp.
Indonesia, Jawa Tengah, Java
Metarhizium rileyi 2345 2390
Plathypena scabra
USA, Florida
Metarhizium rileyi 6871 6881
USA, Missouri
Metarhizium rileyi 762
Plusia sp.
Japan
Metarhizium rileyi 1047
Plusiinae sp.
Brazil, Paraná
Metarhizium rileyi 6781 6785 6879
Prodenia litura
Japan
Metarhizium rileyi 1014
Pseudoplusia includens
USA, Florida
Metarhizium rileyi 6866 6882
Rachiplusia nu
Brazil, Rio Grande do Sul
Metarhizium rileyi 2206
Rivula atimeta
Philippines
Metarhizium rileyi 1756 1757 1758 1759 1760 2395
Spodoptera sp.
Australia
Metarhizium rileyi 323 358 380
Brazil, Goiás
Metarhizium rileyi 740 935
India
Metarhizium rileyi 6867
Malaysia
Metarhizium anisopliae sensu lato 8735
Metarhizium majus 8736
Philippines
Metarhizium pingshaense 2735
Spodoptera exigua
Thailand
Metarhizium rileyi 539 540
Spodoptera frugiperda
Brazil
Metarhizium rileyi 4094
Brazil, Paraná
Metarhizium rileyi 6735 6768 6769 6770 6771 6772 6773 6774
Brazil, Bahia
Metarhizium rileyi 1972
Mexico
Metarhizium anisopliae sensu lato 3293
Metarhizium brunneum 3294
Metarhizium rileyi 3301 11939 11941 11942 11943 13508
Spodoptera litura
India
Metarhizium anisopliae sensu stricto 10473
Metarhizium rileyi 6645

Lepidoptera: Nymphalidae
Chlosyne lacinia saundersii
Brazil, Paraná
Metarhizium anisopliae sensu lato 1059
Metarhizium robertsii 1057

Lepidoptera: Olethreutidae
Carpocapsa pomonella
Austria
Metarhizium brunneum 1095

Lepidoptera: Plutellidae
Plutella xylostella
Romania
Metarhizium robertsii 5873
USA, New York
Metarhizium anisopliae sensu lato 4521 4522

Lepidoptera: Pyralidae
USA, Oregon
Metarhizium sp. 13264 13265 13266 13267 13268 13269 13270 13271 13275 13276
Cnaphalocrocis medinalis
Philippines
Metarhizium rileyi 1761 2174
Diatraea saccharalis
Mexico
Metarhizium anisopliae sensu lato 3290 3291 3292
Eoreuma loftini
USA, Texas
Metarhizium anisopliae sensu lato 5469
Metarhizium anisopliae sensu stricto 5471
Galleria mellonella
Australia
Metarhizium anisopliae sensu stricto 8560
Canada, Alberta
Metarhizium anisopliae sensu lato 8212
Canada, Ontario
Metarhizium anisopliae sensu lato 8680 8681 8682 8683 8684 8685 8686 8687 8688 8689 8690 8691 8692
Mexico
Metarhizium anisopliae sensu lato 7612 7613 7614 7615
Norway
Metarhizium anisopliae sensu lato 5369 5513 5514 5515 5516 5517 5518 5519 5521 5554 5555 5556 6475 7014 7015 7016 7017 7018 7019 7020 7021 7022 7023 7024 7025 7026 7569 7570 7571 7572 7573 11661
Metarhizium brunneum 6474
Metarhizium robertsii 6476
Portugal
Metarhizium anisopliae sensu lato 4904 4905 4906
Metarhizium robertsii 4903
Turkey
Metarhizium anisopliae sensu lato 8334 8335 8336 8338 8341 8342 8344 8346 8347 8350 8351 8352 8353 8432 8433 8434 8435 8436 8437 8438 8440 8443 8445 8446 8447 8450 8451 8452 8453 8454 8660 8662 8665 8669
Metarhizium brunneum 8671
United Kingdom
Metarhizium anisopliae sensu lato 6558
USA, Arizona
Metarhizium anisopliae sensu lato 7847
USA, Alaska
Metarhizium anisopliae sensu lato 7967
USA, North Carolina
Metarhizium anisopliae sensu lato 8769
USA, Washington
Metarhizium sp. 4997
USA, Oregon
Metarhizium sp. 4998
USA, Washington
Metarhizium sp. 4999
USA, Oregon
Metarhizium sp. 5000
USA, Washington
Metarhizium sp. 5001
USA, Oregon
Metarhizium sp. 5076 5077
USA, Washington
Metarhizium sp. 5079
USA, Missouri
Metarhizium sp. 12452 12453 12454 12455

Ostrinia nubilalis
France
Metarhizium anisopliae sensu stricto 1489
Pyrausta machaeralis
India
Metarhizium globosum 2596

Lepidoptera: Tortricidae
Lobesia botrana
Italy
Metarhizium brunneum 1112

Orthoptera
Brazil, Goiás
Metarhizium anisopliae sensu lato 728
PR China
Metarhizium anisopliae sensu lato 6237

Orthoptera: Acrididae
Australia
Metarhizium acridum 8609
Metarhizium brunneum 8608
Ecuador
Metarhizium minus 2023
Madagascar
Metarhizium anisopliae var. *acridum* 5734
Metarhizium acridum 5735
Acrida bicolor
Tchad
Metarhizium sp. 3617
Acrotylus sp.
Pakistan
Metarhizium pingshaense 3605
Austracris guttulosa
Australia
Metarhizium anisopliae var. *acridum* 7970 8359
Metarhizium acridum 324 4605
Chortoicetes terminifera
Australia
Metarhizium flavoviride 8758
Diabolocatantops axillaris
Tchad
Metarhizium acridum 3616
Hieroglyphus daganensis
Benin
Metarhizium sp. 3613
Locusta migratoria capito
Madagascar
Metarhizium acridum 5736
Ornithacris cavroisi
Niger
Metarhizium acridum 3341 7486
Oxya multidentata
Pakistan
Metarhizium anisopliae sensu lato 3619
Patanga succincta
Thailand
Metarhizium acridum 3609
Phaulacridium vittatum
Australia
Metarhizium anisopliae sensu lato 7862
Metarhizium pingshaense 7415 7416
Pseudosphingonotus savignyi
Oman
Metarhizium guizhouense 3611
Metarhizium pingshaense 3610
Schistocerca gregaria
Ethiopia
Metarhizium anisopliae sensu lato 5628
Metarhizium anisopliae sensu stricto 7487
Laboratory manipulation
Metarhizium anisopliae sensu lato 3127
Schistocerca piceifrons
Mexico
Metarhizium acridum 5747 5748 5750
Metarhizium anisopliae sensu lato 5746 5749 5752
Metarhizium brunneum 5751

Orthoptera: Acrididae: Cyrtacanthacridinae
Kraussaria angulifera
Benin
Metarhizium anisopliae var. *acridum* 3614
Metarhizium acridum 3612
Senegal
Metarhizium acridum 6421

Orthoptera: Catantopidae
Calliptamus italicus
Republic of Georgia
Metarhizium anisopliae sensu lato 8696 8698 8701 8702
Metarhizium sp. 8699

Orthoptera: Gryllidae
Ornebius kanetataki
Japan
Metarhizium pingshaense 1009
Teleogryllus commodus
Metarhizium anisopliae sensu lato 8841 8842
Australia
Metarhizium anisopliae sensu lato 435 438 440 441 442 445 7489 7490 8760
Metarhizium pingshaense 436 437 439 443 444 446
Teleogryllus emma
Japan
Metarhizium pingshaense 12566
Metarhizium sp. 12567

Orthoptera: Gryllotalpidae
Commonwealth of Independent States
Metarhizium anisopliae sensu stricto 2786
Gryllotalpa gryllotalpa
Turkey
Metarhizium anisopliae sensu lato 11694

Orthoptera: Pyrgomorphidae
Zonocerus elegans
Tanzania
Metarhizium acridum 3391
Zonocerus variegatus
Benin
Metarhizium anisopliae var. *acridum* 3606
Guinea-Bissau
Metarhizium acridum 3615
Mali
Metarhizium acridum 3618

Orthoptera: Tettigoniidae
Brazil, Goiás
Metarhizium robertsii 727

Phasmatodea: Phasmatidae
PR China
Metarhizium anisopliae sensu lato 6236

Siphonaptera: Ceratophyllidae
Oropsylla hirusta
USA, South Dakota
Metarhizium sp. 13760 13761 13762 13763 13764

Thysanoptera: Thripidae
USA, Vermont
Metarhizium anisopliae sensu lato 11840
Metarhizium sp. 11839
Metarhizium carneum 11821
Metarhizium marquandii 9928 9929
Frankliniella occidentalis
Metarhizium anisopliae sensu lato 9591
United Kingdom
Metarhizium anisopliae sensu lato 13218
Taeniothrips inconsequens
USA, Vermont
Metarhizium anisopliae sensu lato 10135 10136 10137
Metarhizium carneum 10232 10233

Chordata • Mammalia

Primates: Hominidae
Homo sapiens
Australia
Metarhizium anisopliae sensu lato 8759

Plantae

•

Poales: Poaceae
Triticum aestivum
USA, Montana
Metarhizium anisopliae sensu lato 13350

Argentina
Buenos Aires
Metarhizium argentinense 13510
Metarhizium anisopliae sensu lato 7474 7475 7476 8375 8527
Metarhizium brunneum 2974 6120
Metarhizium rileyi 5206 5207 5208 5209 5210 5211 5212 6877 7052 7053 7054 7055 7056 7149 7479 7480 7481 7482 7483 7778
Corrientes
Metarhizium anisopliae sensu lato 8376 8377
Entre Ríos
Metarhizium argentinense 13509
Santa Fe
Metarhizium rileyi 7150 7151 7484 7779 7780
Santiago del Estero
Metarhizium rileyi 2465 7148
Tucumán
Metarhizium robertsii 3925
Metarhizium rileyi 2013 2466

Australia
Metarhizium anisopliae sensu lato 438
Metarhizium brunneum 4125 4228
Metarhizium pingshaense 437
Australian Capital Territory
Metarhizium acridum 8609
Metarhizium anisopliae sensu lato 7863 8837 8838
Metarhizium anisopliae sensu stricto 8560 8561 8562
Metarhizium brunneum 8608
Metarhizium lepidiotae 8502
Metarhizium majus 473
Metarhizium pingshaense 8059
Avoca
Metarhizium anisopliae sensu lato 4299
Metarhizium frigidum 4294
Macquarie Island
Metarhizium anisopliae sensu lato 4343 4344 4345 4569 4570
New South Wales
Metarhizium anisopliae sensu lato 4242 4568 4574 4777 4778 4779 4780 7498 7499 7500 7503 7814 7820 7821 7822 7823 7862 8063 8070 8071 8096 8229 8230 8231 8232 8233 8234 8235 8236 8492 8495 8503 8504 8506 8507 8508 8509 8510 8511 8512 8513 8514 8516 8517 8518 8531 8532 8533 8535 8538 8539 8540 8541 8575 8759 8764 8765 8766 8767 8829 8844
Metarhizium anisopliae sensu stricto 7432 8067 8068 8072 8073 8074 8075 8080 8081 8082 8083 8084 8085 8086 8087 8088 8089 8090 8091 8093 8094 8095
Metarhizium brunneum 472 8069 8515 8534 8536 8537
Metarhizium flavoviride 8758
Metarhizium frigidum 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448
Metarhizium guizhouense 4588 7502
Metarhizium lepidiotae 8064
Metarhizium majus 4566 4601
Metarhizium pingshaense 7414 7415 7416 8061 8062 8092 8097 8505
Metarhizium robertsii 4241 4621 7413 7501 8060 8542
Metarhizium sp. 7495 8851 8852 8855 8856 8857
Northern Territory
Metarhizium anisopliae sensu lato 8591 8745 8746 8747 8768
Metarhizium anisopliae sensu stricto 7430 8581 8584 8585 8587 8588 8589 8590
Queensland
Metarhizium anisopliae var. *acridum* 7522 7970 8359
Metarhizium acridum 324 4605
Metarhizium anisopliae var. *lepidiotae* 7453 8732
Metarhizium anisopliae sensu lato 7451 7496 7504 7816 7817 7818 7819 7824 7825 7826 7827 7828 7829 7830 7831 7832 7833 7834 7835 7836 7837 7838 7839 7840 7841 7842 7843 7844 7846 7854 7855 7856 7857 7858 7859 7860 7861 7864 7865 7867 7868 7892 7893 7894 7895 7896 7897 7898 7899 7900 7901 7902 7903 7904 7905 7906 7907 7908 7909 7910 7911 7912 7913 7914 7915 7916 7917 7918 7919 7920 7926 7931 8564 8610 8620 8731 8733 8734 8744 8754 8755 8761 8762 8823 8824 8828 8833 8834 8839 8845 8847 8850 10469
Metarhizium anisopliae sensu stricto 7418 7419 7423 7426 7427 7428 7450 8500 8586 8615 8616 8617 8622
Metarhizium guizhouense 7420
Metarhizium lepidiotae 7411 7412 7488
Metarhizium majus 7505
Metarhizium pingshaense 7410 7417 7421 7422 7425 7429 7452 8496 8497 8566 8618 8619 8621
Metarhizium robertsii 7449 8558 8559 8563 8565 8567 8577 8582 8583 8592
Metarhizium rileyi 323 358 380
South Australia
Metarhizium anisopliae sensu lato 347 4132 4133 4139 7845 8573
Metarhizium anisopliae sensu stricto 8570 8571 8572 8574 8611
Metarhizium brunneum 346 4131
Tasmania
Metarhizium anisopliae sensu lato 4134 4137 4138 4141 4151 4155 4156 4157 4159 4160 4161 4162 4163 4166 4167 4169 4170 4171 4172 4173 4174 4175 4177 4178 4180 4181 4183 4184 4185 4186 4187 4188 4189 4190 4191 4192 4220 4224 4225 4226 4229 4230

4232 4234 4235 4236 4244 4246 4247 4248 4249 4250 4252 4253 4255 4256 4257 4259 4262 4264 4265 4266 4267 4268 4269 4270 4275 4278 4279 4280 4281 4282 4283 4284 4286 4287 4288 4291 4292 4293 4295 4296 4298 4306 4307 4308 4309 4310 4311 4312 4313 4314 4315 4316 4317 4318 4319 4322 4323 4324 4325 4327 4328 4329 4330 4331 4332 4346 4347 4348 4349 4350 4351 4352 4354 4355 4357 4560 4562 4563 4565 4567 4573 4576 4577 4578 4579 4581 4584 4585 4586 4590 4591 4592 4593 4594 4595 4596 4597 4599 4600 4602 4603 4606 4608 4609 4613 4614 4617 4618 4619 4620 4623 4624 4625 4626 4627 4629 4631 4632 4633 4634 4635 4636 4637 4638 4639 4640 4641 4643 4645 4646 4647 4648 4649 4650 4651 4652 4653 4654 4655 4656 4657 4659 4662 4663 4664 4665 4668 4669 4671 4673 4676 4677 4678 4682 4683 4684 4687 4716 4717 4718 4722 4723 4724 4725 4726 4731 4732 4733 4734 4735 4736 4737 4738 4740 4743 4746 4747 4748 4749 4752 4753 4754 4756 4757 4758 4759 4760 4761 4762 4763 4764 4766 4774 8749

Metarhizium brunneum 4152 4158 4164 4168 4176 4179 4251 4615

Metarhizium flavoviride 4221 4272 4304 4719 4720 4727 4729 4730

Metarhizium novozealandicum 4661 4674 8750

Metarhizium frigidum 4219 4277 4561 4680 4765

Metarhizium guizhouense 4153 4303 4321

Metarhizium lepidiotae 4154

Metarhizium robertsii 4628 4739

Metarhizium sp. 4165

Victoria

Metarhizium anisopliae sensu lato 435 440 441 442 445 7489 7490 7815 8760

Metarhizium frigidum 4124

Metarhizium pingshaense 436 439 443 444 446

Metarhizium robertsii 8543 8544 8545 8546 8547 8548

Western Australia

Metarhizium anisopliae sensu lato 7869 7870 7871 7872 7873 7874 7875 7876 7879 7880 7881 7882 7883 7884 7885 7886 7887 7888 7932 7933 7934 7935 7936 8100 8848 8849

Metarhizium anisopliae sensu stricto 8101 8102

Metarhizium pingshaense 8555

Metarhizium robertsii 7424 8549 8550 8551 8552 8553 8554 8556 8557 8576

Austria

Metarhizium brunneum 1095 7711

Benin

Metarhizium anisopliae var. *acridum* 3606 3614

Metarhizium acridum 3612

Metarhizium sp. 3613

Atlantique

Metarhizium acridum 6598

Borgou

Metarhizium acridum 6592

Metarhizium minus 6593 6594 6595 6596

Ouémé

Metarhizium acridum 6597

Zou

Metarhizium acridum 6600

Metarhizium minus 6599 6601

Brazil

Metarhizium anisopliae sensu lato 549 550 551 1899 1902 1911 3147 4095 8498 13231

Metarhizium anisopliae sensu stricto 2517

Metarhizium sp. 13292

Metarhizium rileyi 4094

Metarhizium marquandii 3855

Amazonas

Metarhizium anisopliae sensu stricto 755

Bahia

Metarhizium anisopliae sensu lato 1282 1299 1379 1382 1896 1958

Metarhizium anisopliae sensu stricto 1045 1894 1900

Metarhizium rileyi 1898 1972

Distrito Federal

Metarhizium anisopliae sensu lato 3479

Metarhizium pingshaense 552

Espírito Santo

Metarhizium anisopliae sensu lato 925

Metarhizium anisopliae sensu stricto 1044

Goiás

Metarhizium anisopliae sensu lato 725 726 728 729 759 760 761 782 808 929 932 939 955 1882 1885 1970 2076 2077 2212 2213 2214 2510 2513 2635 2941 2949 2951 12866 12867 12868 12869 12871 12872 12873 12874 12875 12876 12877 12878 12879 12880 12881 12882 12883 12884 12886 12887 12890

Metarhizium anisopliae sensu stricto 1883

Metarhizium pingshaense 1448

Metarhizium robertsii 724 727 1952 2514 12870 12885 12888 12889

Metarhizium sp. 3643

Metarhizium rileyi 740 935 936

Mato Grosso

Metarhizium anisopliae sensu lato 940 954

Pará

Metarhizium anisopliae sensu lato 1449 1890 1891 1895 1901

Metarhizium rileyi 1950

Paraná

Metarhizium anisopliae sensu lato 1055 1056 1059 1452 1989 2521 3918 3919 3920 5161

Metarhizium anisopliae sensu stricto 3924

Metarhizium robertsii 1057

Metarhizium rileyi 3940 6731 6732 6733 6734 6735 6736 6737 6738 6739 6740 6741 6742 6743 6744 6745 6746 6747 6748 6749 6764 6765 6766 6767 6768 6769 6770 6771 6772 6773 6774 6775 6776 6777 6778 6779 6780 6781 6782 6783 6784 6785 6786 6787 6874 6878 6879

Pernambuco

Metarhizium anisopliae sensu lato 2628

Metarhizium anisopliae sensu stricto 2627 7980

Rio Grande do Sul

Metarhizium sp. 12850

Metarhizium rileyi 2201 2202 2203 2204 2205 2206 2207

São Paulo

Metarhizium anisopliae sensu lato 2211 2634

Metarhizium anisopliae sensu stricto 7979 7981

Metarhizium brasiliense 2948

Metarhizium robertsii 2560 2561

Metarhizium rileyi 6875

Tocantins

Metarhizium anisopliae sensu lato 13247

Burma

Metarhizium anisopliae sensu lato 7485 8219 8220 8221 8222 8223 8226

Metarhizium anisopliae sensu stricto 8216

Metarhizium brunneum 7433 7434

Metarhizium pingshaense 8217 8218 8224 8225 8227 8228

Metarhizium robertsii 8215

Canada

Metarhizium anisopliae sensu lato 2135 2136 2137 2138 2139 8499

Metarhizium brunneum 1278

Metarhizium guizhouense 2140

Metarhizium robertsii 2134

Alberta

Metarhizium anisopliae sensu lato 8212

British Columbia

Metarhizium anisopliae sensu lato 8014

Ontario

Metarhizium anisopliae sensu lato 8680 8681 8682 8683 8684 8685 8686 8687 8688 8689 8690 8691 8692

Metarhizium brunneum 2042 9608

Metarhizium pemphigi 9358

Metarhizium robertsii 9607

Québec
Metarhizium robertsii 2981 2982

Colombia
Metarhizium anisopliae sensu lato 586
Metarhizium anisopliae sensu stricto 587
Metarhizium sp. 3767
Caquetá
Metarhizium anisopliae sensu lato 6319 6321 6322 6323 6324 6326
Metarhizium anisopliae sensu stricto 6317 6318
Cauca
Metarhizium anisopliae sensu lato 589 6356 6457 6468
Cundinamarca
Metarhizium robertsii 797
Meta
Metarhizium anisopliae sensu stricto 798
Tolima
Metarhizium pingshaense 588
Valle
Metarhizium anisopliae sensu lato 6342 6343 6345 6346 6360
Metarhizium anisopliae sensu stricto 6347

Commonwealth of Independent States
Moldova
Metarhizium anisopliae sensu stricto 2786

Czech Republic
Metarhizium flavoviride 2133

Denmark
Århus
Metarhizium brunneum 4020
Zealand
Metarhizium brunneum 5851

Ecuador
Galapagos Islands
Metarhizium minus 2023

Ethiopia
Metarhizium anisopliae sensu lato 5628 6698
Metarhizium anisopliae sensu stricto 7487
Northern Shoa
Metarhizium anisopliae sensu lato 6670 6671 6672 6673 6674 6675 6677 6678 6679 6680 6682 6683 6684 6685
Welo
Metarhizium anisopliae sensu lato 6694

Finland
Hämeen Lääni
Metarhizium brunneum 5626
Uudenmaan Lääni
Metarhizium anisopliae sensu lato 5624
Vaasan Lääni
Metarhizium brunneum 5625

France
Metarhizium anisopliae sensu stricto 1489
Metarhizium guizhouense 977
Metarhizium majus 978 3145
Metarhizium rileyi 1670 1671
Finistere
Metarhizium anisopliae sensu lato 818
Metarhizium brunneum 817
Hérault
Metarhizium guizhouense 819
Maine-et-Loire
Metarhizium brunneum 820
Morbihan
Metarhizium flavoviride 1184 2024
Réunion
Metarhizium anisopliae sensu lato 3148

Germany
Metarhizium brunneum 5198
Metarhizium robertsii 1910
Kiel-Kitzeberg
Metarhizium flavoviride 2025

Guinea-Bissau
Metarhizium acridum 3615

India
Metarhizium globosum 2596
Metarhizium guizhouense 3603
Metarhizium pingshaense 2231 3210
Metarhizium rileyi 2413 6867
Andhra Pradesh
Metarhizium rileyi 6645
Tamil Nadu
Metarhizium anisopliae sensu lato 1745
Metarhizium anisopliae sensu stricto 10472 10473 10474 10475 10476
Metarhizium pingshaense 1724 1725 1726 1727 1728 1729 1744 1823 9612 9613

Indonesia
Metarhizium brunneum 2224
Jawa Barat, Java
Metarhizium anisopliae sensu lato 2105 2424
Metarhizium anisopliae sensu stricto 2080 2421
Metarhizium majus 2151
Metarhizium pingshaense 2106
Metarhizium rileyi 2104
Jawa Tengah, Java
Metarhizium rileyi 2345 2390
Sulawesi Selatan, Celebes
Metarhizium anisopliae sensu stricto 2153
Metarhizium brunneum 2210
Metarhizium pingshaense 576
Metarhizium rileyi 558
Sulawesi Utara, Celebes
Metarhizium album 2082

Italy
Emilia-Romagna
Metarhizium brunneum 1112 1116
Metarhizium robertsii 1120

Japan
Metarhizium guizhouense 1092 1093
Fukuoka Prefecture
Metarhizium majus 12556 12557
Metarhizium pemphigi 12549
Metarhizium pingshaense 12566
Metarhizium sp. 12563 12567 12570
Hokkaido
Metarhizium pingshaense 4366 4369
Metarhizium sp. 4368 4370 4371 4372 4373 4374 4375
Hokkaido Prefecture
Metarhizium brunneum 12546 12547
Metarhizium guizhouense 12552
Metarhizium pemphigi 12550
Metarhizium pingshaense 4450 12564
Kagoshima Prefecture
Metarhizium anisopliae sensu stricto 12545
Metarhizium brunneum 12548
Metarhizium lepidiotae 12555
Metarhizium majus 12558
Metarhizium pemphigi 12551
Metarhizium pingshaense 12565
Metarhizium robertsii 12568
Kumamoto Prefecture
Metarhizium majus 12559
Miyagi Prefecture
Metarhizium guizhouense 12553
Miyazaki Prefecture
Metarhizium majus 12560
Nagasaki Prefecture
Metarhizium lepidiotae 12554
Metarhizium robertsii 12569
Metarhizium sp. 12571
Oita Prefecture
Metarhizium majus 12561
Okinawa Prefecture
Metarhizium anisopliae sensu stricto 12544
Saga Prefecture
Metarhizium majus 12562
Tokyo Prefecture
Metarhizium brunneum 988
Metarhizium majus 1015
Metarhizium pingshaense 1009 1011
Metarhizium robertsii 1046
Metarhizium rileyi 1014 1047

Kenya
Metarhizium anisopliae sensu lato 6700

Laboratory manipulation
Metarhizium anisopliae sensu lato 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 888 889 890 891 892 893 894 895 896 897 898 901 902 903 904 905 906 907 908 909 910 911 912 913 921 922 960 965 966 967 968 1022 1023 1024 1025 1083 1084 1085 1086 1087 1088 1089 1090 1091 1094 1097 1281 1892 3127 3822
Metarhizium robertsii 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612

Madagascar
Metarhizium anisopliae var. *acridum* 5734
Metarhizium acridum 5735 5736

Malaysia
Metarhizium anisopliae sensu lato 8735
Metarhizium flavoviride 8737
Metarhizium majus 8736

Mali
Metarhizium acridum 3618

Mexico
Metarhizium anisopliae sensu lato 3146 3290 3291 3292 3293 3305 3306 3307 3308
Metarhizium anisopliae sensu stricto 1912
Metarhizium brunneum 3294 3297
Metarhizium rileyi 3301 6880
Chiapas
Metarhizium anisopliae sensu lato 5752
Coahuila
Metarhizium anisopliae sensu lato 13170 13171 13172
Metarhizium rileyi 11939 11941 11942 11943 13508
Colima
Metarhizium acridum 5747 5748 5750
Metarhizium anisopliae sensu lato 5746 5749
Metarhizium brunneum 2764 5751
Jalisco
Metarhizium anisopliae sensu lato 2331
Mexico
Metarhizium robertsii 2469
Nuevo León
Metarhizium anisopliae sensu lato 11945
Tabasco
Metarhizium anisopliae sensu lato 7612 7613 7614 7615
Tamaulipas
Metarhizium brunneum 3295
Metarhizium rileyi 2492
Veracruz
Metarhizium anisopliae sensu lato 11946 11947

Myanmar
Metarhizium anisopliae sensu stricto 8738
Metarhizium pingshaense 8739 8740 8741 8742 8743

Nepal
Parbat District
Metarhizium anisopliae sensu lato 7527 7529

Netherlands
Metarhizium flavoviride 2026

New Zealand
Metarhizium anisopliae sensu stricto 2518
North Island
Metarhizium brunneum 1187
South Island
Metarhizium anisopliae sensu lato 3057
Metarhizium brunneum 4681
Metarhizium novozealandicum 3056 3064 8214
Metarhizium pingshaense 7435

Niger
Metarhizium acridum 3341 7486

Norway
Metarhizium brunneum 6474
Metarhizium robertsii 6476
Buskerud
Metarhizium anisopliae sensu lato 6475
Nord Trøndelag
Metarhizium anisopliae sensu lato 5518 5519 5520 5521
Nordland
Metarhizium anisopliae sensu lato 5513 5514 5515 5516 5517
Østfold
Metarhizium anisopliae sensu lato 6901
Metarhizium brunneum 6477
Rogaland
Metarhizium anisopliae sensu lato 5554 5555 5556
Sogn og Fjordane
Metarhizium anisopliae sensu lato 7014 7015 7016 7017 7018 7019 7020 7021 7022 7023 7024 7025 7026 7569 7570 7571 7572 7573
Sør Trøndelag
Metarhizium anisopliae sensu lato 5369
Telemark
Metarhizium anisopliae sensu lato 11661

Oman
Metarhizium guizhouense 3611
Metarhizium pingshaense 3610

Pakistan
Metarhizium anisopliae sensu lato 3619
Metarhizium pingshaense 3605

Papau New Guinea
Morobe Province
Metarhizium anisopliae sensu lato 4630
Metarhizium guizhouense 4604
Metarhizium lepidiotae 4660

Papua New Guinea
Metarhizium anisopliae sensu lato 2156 2163 2165 2166 2167 4773 8612 8748
Metarhizium anisopliae sensu stricto 8614
Metarhizium lepidiotae 4587
Metarhizium pingshaense 2162 3604 8593 8613

Philippines
Metarhizium minus 1546 1547
Abra
Metarhizium rileyi 1762
Benguet
Metarhizium anisopliae sensu lato 2805 2806 3190 3196
Metarhizium anisopliae sensu stricto 3187
Metarhizium brunneum 2742
Metarhizium pingshaense 2735 2809
Cagayan
Metarhizium album 2081
Laguna
Metarhizium album 1942 1943
Metarhizium pingshaense 3180
Leyte
Metarhizium album 2176 2178 2179
Metarhizium rileyi 2174
Manila
Metarhizium album 1840
Metarhizium anisopliae sensu lato 457 485 486 487 488 489 543 1284 1285 1286 1290 1300 1304 2382
Metarhizium brunneum 455
Metarhizium minus 1099 1271 1272 1273 1274 1275 1276 1277 1279 1283 1287 1288 1289 1291 1292 1293 1294 1295 1296 1297 1301 1302 1303 1305 1945 2037
Metarhizium pingshaense 456 2043
Metarhizium sp. 2353
Metarhizium rileyi 481 482 483 1761 2395
Mindanao
Metarhizium rileyi 1756 1757 1758 1759 1760
Misamis Oriental
Metarhizium album 2222
Palawan
Metarhizium album 1941 1944
Metarhizium anisopliae sensu lato 1432 1548 2341 2342 2343 2383 2384 2385
Metarhizium minus 2339 2381

Metarhizium pingshaense 1545
Pangasinan
Metarhizium anisopliae sensu lato 3194
Metarhizium pingshaense 3193
Quezon
Metarhizium majus 1914 1946 2808

Poland
Metarhizium majus 1858 1859

Portugal
Azores
Metarhizium anisopliae sensu lato 3329 4904 4905 4906 4907 4908 4925 4926 4927 4928 4929 4930
Metarhizium brunneum 3864
Metarhizium robertsii 4903 4919 5149
Metarhizium sp. 3863 3865

PR China
Metarhizium pingshaense 712
Anhui
Metarhizium anisopliae sensu lato 6236 6237
Metarhizium guizhouense 6238
Metarhizium pingshaense 8420
Metarhizium rileyi 6239
Kwon Tung
Metarhizium guizhouense 683
Zhijiang
Metarhizium guizhouense 703
Metarhizium rileyi 711

Republic of China
Taiwan
Metarhizium anisopliae sensu lato 4862 4865 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8941 8942 8943 8944 8945 8946 8947 8948 8949 8950 8951 8952 8953 8954 8955 9235 9236
Metarhizium cylindrosporum 6926
Metarhizium viridulum 6927

Republic of Georgia
Metarhizium anisopliae sensu lato 8696 8698 8700
Autonomous Republic of Adjara
Metarhizium brunneum 13740 13741
Metarhizium pemphigi 13729
Metarhizium robertsii 13686 13690 13694 13708 13712 13718 13719 13723 13733
Metarhizium sp. 13684 13685 13701 13702 13709 13716 13728 13730 13731
Kakheti
Metarhizium anisopliae sensu lato 8701 8702
Metarhizium sp. 8699
Kvemo Kartli
Metarhizium anisopliae sensu lato 8703

Republic of Kiribati
Metarhizium guizhouense 7507

Republic of Korea
Metarhizium koreanum 2038 2039

Romania
Metarhizium robertsii 5873

Russian Federation
Krasnodarsky Krai
Metarhizium anisopliae sensu lato 9541
Metarhizium sp. 7643
Metarhizium marquandii 9527
Moscow Region
Metarhizium rileyi 9489
Primorsky Krai
Metarhizium rileyi 9490
Metarhizium marquandii 9530
Sakhalin Region
Metarhizium sp. 7645
Tver Region
Metarhizium marquandii 9529

Senegal
Region of Kaolack
Metarhizium acridum 6421

Solomon Islands
Metarhizium anisopliae sensu lato 4333 4334 4335 4336 4337 4338 4339 4341 4558 4572 4582
Metarhizium pingshaense 4290 4340 4342 4557 4610
Guadalcanal
Metarhizium minus 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773
Metarhizium rileyi 1879 1893

Spain
Metarhizium anisopliae sensu lato 8693

Switzerland
Metarhizium anisopliae sensu lato 1373 1374 1375 1376 1377
Metarhizium brunneum 1066
Graubünden
Metarhizium anisopliae sensu lato 7524
Uri
Metarhizium anisopliae sensu lato 7532

Tanzania
Metarhizium acridum 3391

Tchad
Metarhizium acridum 3616
Metarhizium sp. 3617

Thailand
Metarhizium acridum 3609
Metarhizium pingshaense 538
Metarhizium rileyi 539 540

The Palestinian Authority
Metarhizium rileyi 7791 7792 7793 7794

Trinidad and Tobago
Metarhizium anisopliae sensu stricto 3621

Turkey
Artvin
Metarhizium anisopliae sensu lato 8347 8350 8351 8352 8353
Bayburt
Metarhizium anisopliae sensu lato 8665 8669
Giresun
Metarhizium anisopliae sensu lato 8443
Gümüshane
Metarhizium anisopliae sensu lato 8662
Metarhizium brunneum 8671
Kayseri Province
Metarhizium sp. 12539
Ordu
Metarhizium anisopliae sensu lato 8344 8437 8438 8440 8445
Ordu Province
Metarhizium anisopliae sensu lato 8342
Rize
Metarhizium anisopliae sensu lato 8334 8335 8336 8338 8432 8433 8434 8435 8447 8452 8453 8660
Samsun
Metarhizium anisopliae sensu lato 8341
Trabzon
Metarhizium anisopliae sensu lato 8346 8436 8446 8450 8451 8454 11694
Metarhizium guizhouense 11668 11669
Metarhizium sp. 11685 11686

Ukraine
Autonomous Republic of Crimea
Metarhizium anisopliae 9487
Kherson Oblast
Metarhizium anisopliae 9488

United Kingdom
Metarhizium anisopliae var. *anisopliae* 6550
Metarhizium anisopliae sensu lato 6549 6551 6558
Metarhizium anisopliae sensu stricto 6546
Metarhizium brunneum 13223
England
Metarhizium anisopliae sensu lato 6570 7535 7536 7537 7538 13218 13219 13221

Metarhizium pemphigi 6569 7491

USA

Metarhizium anisopliae sensu lato 1903 11637
Metarhizium robertsii 3608

Alaska
Metarhizium anisopliae sensu lato 7967 8365

Arizona
Metarhizium anisopliae sensu lato 7847 8357 8358 8363 8364 8367
Metarhizium sp. 9636 9641 9643 9651 9652 9765 9766 9767 9965 10086 10107 10116 10119 10120 10121 10322 12635 12636 12637 12638 12644 12645 12646 12647 12648 12649 12654 12656 12659 12687 12688 12689 12690 12697 12698 12699 12700 12701 12710 12763 13031 13188 13189 13190 13191 13192 13193 13198 13201 13983 13984 13985 13986 13987 13988 13989 13990 13991 13992 13993

California
Metarhizium anisopliae 9354
Metarhizium anisopliae sensu lato 8956 8957 9150 9151 9152 9153 9154 9155 9156 9157 9158 9159 9160 9161 9162 9439
Metarhizium robertsii 1897

Colorado
Metarhizium sp. 9686 9693 9757 9763 9764 9768 9769 9770 9771 9772 9773 9774 9775 9885 9886 9950 9951 9952 9953 9954 9955 9957 9958 9959 9960 9961 9962 9963 9964 9969 9970 9971 9972 9973 9974 9978 9979 9984 9987 9988 9989 9990 9991 9992 9993 9994 9995 9996 9997 10004 10028 10029 10030 10033 10034 10035 10036 10037 10038 10039 10040 10044 10045 10046 10047 10053 10055 10057 10062 10067 10069 10070 10071 10077 10080 10083 10084 10087 10088 10093 10094 10099 10100 10106 10111 10112 10113 10114 10115 10117 10118 10316 10319 10320

Connecticut
Metarhizium anisopliae sensu lato 3713 3720 6388
Metarhizium brunneum 6392 7234 8415 8416 8417 8418 8419
Metarhizium robertsii 3721

Florida
Metarhizium anisopliae sensu stricto 1080
Metarhizium brunneum 4556
Metarhizium pingshaense 5197
Metarhizium rileyi 6866 6868 6869 6870 6871 6872 6873 6876 6881 6882

Georgia
Metarhizium anisopliae sensu lato 11951

Hawai'i
Metarhizium sp. 13088

Hawaii
Metarhizium anisopliae sensu lato 9217 9218
Metarhizium brunneum 3045
Metarhizium pingshaense 3044
Metarhizium robertsii 3043

Idaho
Metarhizium sp. 9946 9948 9949 9956 10017 10032 10074 10075 10089 10090 10091 10092 10097 10098 10122 10123 10124 10125 10321 12709 12759 13194 13195 13196 13202 13211 13213 13214

Illinois
Metarhizium anisopliae sensu lato 7180

Kansas
Metarhizium robertsii 6472
Metarhizium sp. 10013 10014 10018 10020

Louisiana
Metarhizium anisopliae sensu lato 6909 6910 6911 8015

Maine
Metarhizium anisopliae sensu lato 7059

Massachusetts
Metarhizium anisopliae sensu lato 6389 9590

Michigan
Metarhizium anisopliae sensu lato 8196 8197 8198 8199 8270 8653 8654 8655 8656 8657 8658 8659
Metarhizium robertsii 1968

Mississippi
Metarhizium sp. 10324
Metarhizium rileyi 135

Missouri
Metarhizium sp. 12452 12453 12454 12455
Metarhizium rileyi 345 762

Montana
Metarhizium anisopliae sensu lato 6930 12466 13348 13349 13350
Metarhizium sp. 9748 9754 9880 9981 9982 9983 9999 10050 10051 10054 10103 12511 12516 12720 12749 12758 13217 13472

Nebraska
Metarhizium anisopliae sensu stricto 13608 13621 13622 13626
Metarhizium robertsii 13604 13605 13606 13609 13610 13611 13612 13613 13614 13615 13616 13617 13618 13619 13620 13625 13627 13628
Metarhizium sp. 9637 9658 9659 9660 9662 9663 9664 9665 9666 9667 9668 9669 9670 9671 9672 9673 9674 9675 9676 9677 9678 9679 9680 9681 9682 9683 9684 9685 9687 9689 9690 9691 9692 9694 9695 9697 9698 9700 9706 9708 9709 9710 9711 9712 9713 9714 9715 9716 9717 9718 9719 9720 9721 9722 9723 9724 9725 9733 9734 9735 9736 9737 9738 9739 9740 9745 9746 9747 9750 9776 9777 9778 9780 9781 9782 9783 9784 9785 9786 9787 9788 9789 9790 9791 9792 9793 9794 9795 9796 9797 9798 9799 9800 9801 9802 9803 9804 9805 9806 9807 9808 9809 9810 9811 9812 9813 9814 9815 9816 9818 9819 9820 9821 9822 9823 9824 9825 9826 9839 9849 9850 9851 9852 9853 9854 9855 9856 9857 9858 9859 9860 9861 9862 9863 9864 9865 9866 9867 9868 9869 9870 9871 9872 9873 9874 9875 9876 9877 9878 9986 10001 10002 10003 10005 10006 10007 10008 10010 10011 10328 10332 10333 10337 10338 10339 12663 12664 12665 12666 12667 12668 12669 12670 12671 12672 12673 12675 12676 12677 12678 12679 12680 12681 12683 12684 12685 12686 12691 12692 12693 12694 12695 12696 12702 12703 12704 12705 12706 12707 12708 12711 12712 12713 12714 12715 12716 12717 12718 12719 12721 12722 12723 12724 12725 12726 12727 12728 12729 12730 12731 12732 12733 12734 12735 12736 12737 12738 12739 12740 12741 12743 12744 12745 12746 12747 12748 12750 12751 12752 12753 12754 12755 12756 12757 12760 12761 12764 12765 12766 12768 12769 12770 12771 12772 12773 12774 12775 12776 12777 12778 12780 12781 12782 12783 12784 12785 12786 12787 12788 12789 12790 12791 12792 13032 13033 13034 13035 13036 13037 13038 13039 13040 13041 13042 13043 13044 13045 13095 13096 13097 13098 13099 13100 13101 13102 13103 13473 13474 13475 13476 13477 13478 13479 13480 13481 13483 13484 13485 13486 13487 13488 13490 13491 13492 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13607 13623 13629 13980 13981 13982 13995 13996 13997 13998 13999

Nevada
Metarhizium robertsii 10000
Metarhizium sp. 9980 10009 10012 10015 10016 10019 10024 10025 10026 10063 10064 10065 10072 10073 10076 10317 12655 12661 12682 13200

New Mexico
Metarhizium sp. 12674 12742

New York
Metarhizium anisopliae sensu lato 1280 2548 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3827 4521 4522 4819 4820 4821 4822 4823

4824 6167 8248 8249 8323 8324 8325 8326 8327 9372 9373 9374 11850
Metarhizium brunneum 3826
Metarhizium robertsii 1298 1878 2547 3108 3211 4123 8321 8322
Metarhizium carneum 11836
North Carolina
Metarhizium anisopliae sensu lato 8769
Metarhizium robertsii 23
North Dakota
Metarhizium sp. 9618 9620 9621 9622 9623 9624 9625 9626 9627 9628 9630 9631 9632 9633 9634 9635 9638 9639 9640 9642 9644 9645 9646 9647 9648 9649 9650 9656 9657 9688 9701 9702 9705 9707 9730 9760 9761 9817 9828 9829 9831 9832 9833 9834 9838 9844 9845 10325 10326 10327 10329 10330 10331 10335 10336 10340 10341 10342 10344 10345 13197
Oklahoma
Metarhizium anisopliae sensu lato 12798
Metarhizium robertsii 12797 12799
Metarhizium sp. 12796
Oregon
Metarhizium anisopliae sensu lato 2432 7494
Metarhizium brunneum 2107
Metarhizium sp. 4998 5000 5076 5077 9699 9729 9751 10078 10081 10082 10104 10105 10126 10314 12643 12779 13207 13208 13209 13210 13212 13215 13264 13265 13266 13267 13268 13269 13270 13271 13275 13276 13482
Puerto Rico
Metarhizium sp. 7389
South Carolina
Metarhizium robertsii 2575
South Dakota
Metarhizium sp. 9629 9696 9741 9752 9753 9758 9759 9836 9840 9841 9846 9847 9848 10058 10059 10060 10068 10079 10085 10101 10102 10108 10109 10110 10315 10323 10343 12762 13760 13761 13762 13763 13764
Texas
Metarhizium anisopliae sensu lato 5469 11742
Metarhizium anisopliae sensu stricto 5471
Metarhizium brunneum 3738
Metarhizium sp. 9661 9762 9779 9827 9830 9966 9967 9968 9975 10021 10023 10041 10042 10043 10346 13203 13994
Utah
Metarhizium acridum 6851 6852 6853 6854 6855 6856 6857 6858 6859
Metarhizium anisopliae sensu lato 6756 6757 6758 6759 6760 6761 6762 6763 6829 6830 6831 6832 6833 6834 6835 6836 6837 6838 6839 6840 6849 6850 6860 6861 6862 6863 6989 6990 6991 6992 6993 6994 6995 6996 6997 6998 6999 8366
Metarhizium robertsii 6755 6841 6842 6843 6844 6845 6846 6847 6848 6864 6865
Metarhizium sp. 9617 9653 9654 9655 9835 9837 9879 9947 9976 9977 9985 9998 10022 10056 12650 12657 12660 13199 13204 13216 13489
Metarhizium taii 6750 6751 6752 6753 6754
Vermont
Metarhizium anisopliae sensu lato 3541 3542 3544 9279 9280 9281 9282 9283 9284 9285 9286 9287 9288 9303 9304 9305 9306 9307 9308 9309 9310 9311 9312 9313 9314 9315 9316 9317 9318 9319 9320 9321 9322 9323 9324 9325 9326 9327 9328 9329 9330 9331 9332 9333 9939 10131 10135 10136 10137 11840
Metarhizium robertsii 3540
Metarhizium sp. 11839 11849
Metarhizium carneum 10232 10233 11821
Metarhizium marquandii 9928 9929
Virginia
Metarhizium sp. 9619
Washington
Metarhizium anisopliae sensu lato 3389 7000 7001 7002 7003 7004 7005 7006 7007 7008 7009
Metarhizium guizhouense 9732 9743
Metarhizium robertsii 3388
Metarhizium sp. 4997 4999 5001 5079 5139 9703 9704 9726 9727 9728 9731 9742 9744 9749 10027 10031 10048 10066 10095 10096 10318 10334 12639 12640 12641 12642 12651 12652 12653 12658 12662 12767 13205 13206 13979 14000
Wisconsin
Metarhizium pemphigi 794
Wyoming
Metarhizium sp. 9842 9843 10049 10052 10061

Vietnam
Metarhizium anisopliae sensu lato 7644

Wales
Metarhizium anisopliae sensu lato 13222
Carmarthenshire
Metarhizium anisopliae sensu lato 13220

West Indies
Trinidad and Tobago
Metarhizium anisopliae sensu lato 12907

Western Samoa
Apia
Metarhizium anisopliae sensu stricto 2223
Metarhizium majus 297 298
Upolu Island
Metarhizium anisopliae sensu lato 1078

Agudelo-Silva, Fernando
20S87 *Metarhizium anisopliae* sensu lato 2432

Ahn, S.B.
D2-4 *Metarhizium koreanum* 2038
E2-13 *Metarhizium koreanum* 2039

Al-Aidroos, Karen
19-1a5 (EMS mutant) *Metarhizium anisopliae* sensu lato 911
19.1 (EMS mutant) *Metarhizium anisopliae* sensu lato 966
42.2 (EMS mutant of 5.42) *Metarhizium anisopliae* sensu lato 1025
42.2a9 (EMS mutant) *Metarhizium anisopliae* sensu lato 921
5.173 (EMS mutant) *Metarhizium anisopliae* sensu lato 909
5.281 (mutant) *Metarhizium anisopliae* sensu lato 922
5.287 (EMS mutant) *Metarhizium anisopliae* sensu lato 967
5.304 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1022
5.378 (EMS mutant) *Metarhizium anisopliae* sensu lato 965
5A (UV irradiated mutant of 5) *Metarhizium anisopliae* sensu lato 1087
5A.1 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1085
5A.10 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1086
5A.11 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1083
5A.12 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1088
5A.7 (EMS mutant of 5A) *Metarhizium anisopliae* sensu lato 1084
D198A *Metarhizium anisopliae* sensu lato 912
D95A (diploid, recombinant) *Metarhizium anisopliae* sensu lato 913
D95A Bes 140 (recombinant) *Metarhizium anisopliae* sensu lato 910
DIII 3A (mutant) *Metarhizium anisopliae* sensu lato 968
DIII 3B (mutant) *Metarhizium anisopliae* sensu lato 960
DIII 3B Bes 48 (recombinant) *Metarhizium anisopliae* sensu lato 907
JIIXIV (mutant) *Metarhizium anisopliae* sensu lato 1091
JIVD (mutant) *Metarhizium anisopliae* sensu lato 1097
JX1.23A (mutant) *Metarhizium anisopliae* sensu lato 1024
JX1.23C (mutant) *Metarhizium anisopliae* sensu lato 1023
JXIV.245 (mutant) *Metarhizium anisopliae* sensu lato 1089
KIIVA (mutant) *Metarhizium anisopliae* sensu lato 1090
S7N5 (mutant) *Metarhizium anisopliae* sensu lato 908

Altinok, Alper
71 *Metarhizium* sp. 12539

Alves, Sergio Batista
507 *Metarhizium robertsii* 2561
SPL-54A *Metarhizium robertsii* 2560

Andrade, C.F.
IF#1 *Metarhizium anisopliae* sensu lato 3827
IF#2 *Metarhizium brunneum* 3826

Ansari, Minshad Ali
BNL101 *Metarhizium anisopliae* sensu lato 13218
BNL102 *Metarhizium anisopliae* sensu lato 13219
BNL103 *Metarhizium anisopliae* sensu lato 13220
BNL104 *Metarhizium anisopliae* sensu lato 13221
BNL105 *Metarhizium anisopliae* sensu lato 13222
BNL152 *Metarhizium brunneum* 13223

Aoki, Joji
Met. 1 *Metarhizium brunneum* 988
Met. 4 *Metarhizium majus* 1015
Met. 5 *Metarhizium pingshaense* 1009
Met. 6 *Metarhizium robertsii* 1046
Met. 8 *Metarhizium pingshaense* 1011
Nom. 2 *Metarhizium rileyi* 1014
Nom. 3 *Metarhizium rileyi* 1047

ARSEF
?1294 *Metarhizium minus* 1295
?1295 *Metarhizium minus* 1294
?396 *Metarhizium anisopliae* sensu lato 1377
?397 *Metarhizium brunneum* 1066
1045 *Metarhizium anisopliae* sensu lato 1299
1184 *Metarhizium flavoviride* 2024
1299 *Metarhizium anisopliae* sensu stricto 1045
1452 (deaccessioned) *Metarhizium anisopliae* sensu lato 1989
1989 *Metarhizium anisopliae* sensu lato 1452
2013 *Metarhizium rileyi* 2466
2024 *Metarhizium flavoviride* 1184
2153 *Metarhizium anisopliae* sensu lato 3822
2225 *Metarhizium brunneum* 2210
23 *Metarhizium anisopliae* sensu lato 907
23 *Metarhizium anisopliae* sensu lato 908
23 *Metarhizium anisopliae* sensu lato 909
23 *Metarhizium anisopliae* sensu lato 910
23 *Metarhizium anisopliae* sensu lato 911
23 *Metarhizium anisopliae* sensu lato 912
23 *Metarhizium anisopliae* sensu lato 913
23 *Metarhizium anisopliae* sensu lato 921
23 *Metarhizium anisopliae* sensu lato 922
23 *Metarhizium anisopliae* sensu lato 960
23 *Metarhizium anisopliae* sensu lato 965
23 *Metarhizium anisopliae* sensu lato 966
23 *Metarhizium anisopliae* sensu lato 967
23 *Metarhizium anisopliae* sensu lato 968
23 *Metarhizium anisopliae* sensu lato 1022
23 *Metarhizium anisopliae* sensu lato 1023
23 *Metarhizium anisopliae* sensu lato 1024
23 *Metarhizium anisopliae* sensu lato 1025
23 *Metarhizium anisopliae* sensu lato 1083
23 *Metarhizium anisopliae* sensu lato 1084
23 *Metarhizium anisopliae* sensu lato 1085
23 *Metarhizium anisopliae* sensu lato 1086
23 *Metarhizium anisopliae* sensu lato 1087
23 *Metarhizium anisopliae* sensu lato 1088
23 *Metarhizium anisopliae* sensu lato 1089
23 *Metarhizium anisopliae* sensu lato 1090
23 *Metarhizium anisopliae* sensu lato 1091
23 *Metarhizium anisopliae* sensu lato 1094
23 *Metarhizium anisopliae* sensu lato 1097
2341 *Metarhizium minus* 2381
2341 *Metarhizium anisopliae* sensu lato 2383
2342 *Metarhizium anisopliae* sensu lato 2384
2343 *Metarhizium anisopliae* sensu lato 2385
2345 *Metarhizium rileyi* 2390
2353 *Metarhizium anisopliae* sensu lato 2382
2381 (never frozen) *Metarhizium anisopliae* sensu lato 2341
2381 (never frozen) *Metarhizium anisopliae* sensu lato 2383
2382 (never frozen) *Metarhizium* sp. 2353
2383 (never frozen) *Metarhizium anisopliae* sensu lato 2341
2383 (never frozen) *Metarhizium minus* 2381
2384 (never frozen) *Metarhizium anisopliae* sensu lato 2342

2385 (never frozen) *Metarhizium anisopliae* sensu lato 2343
2390 (never frozen) *Metarhizium rileyi* 2345
2466 *Metarhizium rileyi* 2013
2547 *Metarhizium robertsii* 4123
2575 *Metarhizium robertsii* 3608
2627 *Metarhizium anisopliae* sensu stricto 7980
324 *Metarhizium anisopliae* var. *acridum* 7522
3940 *Metarhizium rileyi* 6734
441 *Metarhizium anisopliae* sensu lato 7489
442 *Metarhizium anisopliae* sensu lato 7490
7453 *Metarhizium lepidiotae* 7488
7488 *Metarhizium anisopliae* var. *lepidiotae* 7453
872 *Metarhizium anisopliae* sensu lato 888
888 (deaccessioned) *Metarhizium anisopliae* sensu lato 872
8945 *Metarhizium anisopliae* sensu lato 8989

ATCC
200913 *Metarhizium minus* 1763
32969 *Metarhizium flavoviride* 2133
60335 *Metarhizium anisopliae* sensu lato 925
60336 *Metarhizium anisopliae* sensu stricto 1894
MYA-3093 *Metarhizium robertsii* 2575

Baloch, Lori
C86 *Metarhizium rileyi* 2205

Banu, J. Gulsar
2 *Metarhizium pingshaense* 9612
3 *Metarhizium pingshaense* 9613

Barakat, Radwan
N.R. 17 *Metarhizium rileyi* 7793
N.R. 18 *Metarhizium rileyi* 7794
N.R. 3 *Metarhizium rileyi* 7791
N.R. 5 *Metarhizium rileyi* 7792

Barrion, G.
Nr-BS *Metarhizium rileyi* 1762

Barron, George L.
10277 *Metarhizium brunneum* 2042

Bellotti, Anthony
9241 *Metarhizium* sp. 3767

Bernal, M.C. Hugo Cesar Arredondo
MaPL14 *Metarhizium acridum* 5747
MaPL32 *Metarhizium acridum* 5748
MaPL35 *Metarhizium anisopliae* sensu lato 5749
MaPL39 *Metarhizium acridum* 5750
MaPL40 *Metarhizium brunneum* 5751
MaPL41 *Metarhizium anisopliae* sensu lato 5752
MaPL6 *Metarhizium anisopliae* sensu lato 5746

Bidochka, Michael J.
43A 2i *Metarhizium anisopliae* sensu lato 8680
56B 1iv *Metarhizium anisopliae* sensu lato 8681
FRB2 1iv *Metarhizium anisopliae* sensu lato 8682
GUB2 1iv *Metarhizium anisopliae* sensu lato 8683
HKB1 1b *Metarhizium anisopliae* sensu lato 8684
MAA1 2ii *Metarhizium anisopliae* sensu lato 8685
ORB1 1ii *Metarhizium anisopliae* sensu lato 8686
PHA1 2i *Metarhizium anisopliae* sensu lato 8687
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DWR 145 *Metarhizium anisopliae* sensu lato 6991
DWR 1450 *Metarhizium* sp. 10019
DWR 1451 *Metarhizium* sp. 10020
DWR 146 *Metarhizium anisopliae* sensu lato 6763
DWR 1468 *Metarhizium* sp. 10021
DWR 1469 *Metarhizium* sp. 10022
DWR 147 *Metarhizium anisopliae* sensu lato 6992
DWR 1470 *Metarhizium* sp. 10023
DWR 1471 *Metarhizium* sp. 10024
DWR 1472 *Metarhizium* sp. 10025
DWR 1473 *Metarhizium* sp. 10026
DWR 148 *Metarhizium anisopliae* sensu lato 6993
DWR 1489 *Metarhizium* sp. 10027
DWR 149 *Metarhizium anisopliae* sensu lato 6995
DWR 1490 *Metarhizium* sp. 10028
DWR 1491 *Metarhizium* sp. 10029
DWR 1506 *Metarhizium* sp. 10030
DWR 1507 *Metarhizium* sp. 10031
DWR 1516 *Metarhizium* sp. 10032
DWR 1517 *Metarhizium* sp. 10033
DWR 1518 *Metarhizium* sp. 10034
DWR 1519 *Metarhizium* sp. 10035
DWR 1520 *Metarhizium* sp. 10036
DWR 1527 *Metarhizium* sp. 10037
DWR 1528 *Metarhizium* sp. 10038
DWR 1540 *Metarhizium* sp. 10039
DWR 1541 *Metarhizium* sp. 10040
DWR 1542 *Metarhizium* sp. 10041
DWR 1543 *Metarhizium* sp. 10042
DWR 1544 *Metarhizium* sp. 10043
DWR 1545 *Metarhizium* sp. 10044
DWR 1546 *Metarhizium* sp. 10045
DWR 1547 *Metarhizium* sp. 10046
DWR 1548 *Metarhizium* sp. 10047
DWR 1553 *Metarhizium* sp. 10048
DWR 1554 *Metarhizium* sp. 10049
DWR 1555 *Metarhizium* sp. 10050
DWR 1556 *Metarhizium* sp. 10051
DWR 1557 *Metarhizium* sp. 10052
DWR 158 *Metarhizium acridum* 6851
DWR 1580 *Metarhizium* sp. 10053
DWR 1581 *Metarhizium* sp. 10054
DWR 1582 *Metarhizium* sp. 10055
DWR 1583 *Metarhizium* sp. 10056
DWR 1584 *Metarhizium* sp. 10057
DWR 159 *Metarhizium acridum* 6852
DWR 1591 *Metarhizium* sp. 10058
DWR 1592 *Metarhizium* sp. 10059
DWR 160 *Metarhizium acridum* 6853
DWR 1601 *Metarhizium* sp. 10060
DWR 1602 *Metarhizium* sp. 10061
DWR 161 *Metarhizium acridum* 6854
DWR 1610 *Metarhizium* sp. 10062
DWR 1611 *Metarhizium* sp. 10063
DWR 1612 *Metarhizium* sp. 10064
DWR 1613 *Metarhizium* sp. 10065
DWR 1614 *Metarhizium* sp. 10066
DWR 1615 *Metarhizium* sp. 10067
DWR 162 *Metarhizium acridum* 6855
DWR 163 *Metarhizium acridum* 6856
DWR 164 *Metarhizium acridum* 6857
DWR 165 *Metarhizium acridum* 6858
DWR 1652 *Metarhizium* sp. 10068
DWR 1653 *Metarhizium* sp. 10069
DWR 1654 *Metarhizium* sp. 10070
DWR 1655 *Metarhizium* sp. 10071
DWR 1656 *Metarhizium* sp. 10072
DWR 1657 *Metarhizium* sp. 10073
DWR 1658 *Metarhizium* sp. 10074
DWR 1659 *Metarhizium* sp. 10075
DWR 166 *Metarhizium acridum* 6859
DWR 1660 *Metarhizium* sp. 10076

DWR 167 *Metarhizium anisopliae* sensu lato 6860
DWR 168 *Metarhizium anisopliae* sensu lato 6861
DWR 1683 *Metarhizium* sp. 10077
DWR 1684 *Metarhizium* sp. 10078
DWR 1685 *Metarhizium* sp. 10079
DWR 1686 *Metarhizium* sp. 10080
DWR 1687 *Metarhizium* sp. 10081
DWR 1688 *Metarhizium* sp. 10082
DWR 1689 *Metarhizium* sp. 10083
DWR 1690 *Metarhizium* sp. 10084
DWR 1699 *Metarhizium* sp. 10085
DWR 1700 *Metarhizium* sp. 10086
DWR 1701 *Metarhizium* sp. 10087
DWR 1702 *Metarhizium* sp. 10088
DWR 1703 *Metarhizium* sp. 10089
DWR 1704 *Metarhizium* sp. 10090
DWR 1705 *Metarhizium* sp. 10091
DWR 1706 *Metarhizium* sp. 10092
DWR 1707 *Metarhizium* sp. 10093
DWR 1708 *Metarhizium* sp. 10094
DWR 1709 *Metarhizium* sp. 10095
DWR 171 *Metarhizium anisopliae* sensu lato 6863
DWR 1710 *Metarhizium* sp. 10096
DWR 1714 *Metarhizium* sp. 10097
DWR 1715 *Metarhizium* sp. 10098
DWR 1716 *Metarhizium* sp. 10099
DWR 1717 *Metarhizium* sp. 10100
DWR 1718 *Metarhizium* sp. 10101
DWR 1719 *Metarhizium* sp. 10102
DWR 172 *Metarhizium robertsii* 6864
DWR 1720 *Metarhizium* sp. 10103
DWR 1721 *Metarhizium* sp. 10104
DWR 1722 *Metarhizium* sp. 10105
DWR 1723 *Metarhizium* sp. 10106
DWR 173 *Metarhizium robertsii* 6865
DWR 1740 *Metarhizium* sp. 10107
DWR 1741 *Metarhizium* sp. 10108
DWR 1742 *Metarhizium* sp. 10109
DWR 1743 *Metarhizium* sp. 10110
DWR 1744 *Metarhizium* sp. 10111
DWR 176 *Metarhizium anisopliae* sensu lato 6996
DWR 1763 *Metarhizium* sp. 10112
DWR 1764 *Metarhizium* sp. 10113
DWR 1765 *Metarhizium* sp. 10114
DWR 1766 *Metarhizium* sp. 10115
DWR 1767 *Metarhizium* sp. 10116
DWR 1771 *Metarhizium* sp. 10117
DWR 179 *Metarhizium anisopliae* sensu lato 6997
DWR 180 *Metarhizium anisopliae* sensu lato 6998
DWR 1808 *Metarhizium* sp. 10118
DWR 1809 *Metarhizium* sp. 10119
DWR 181 *Metarhizium anisopliae* sensu lato 6999
DWR 1810 *Metarhizium* sp. 10120
DWR 1811 *Metarhizium* sp. 10121
DWR 1812 *Metarhizium* sp. 10122
DWR 1813 *Metarhizium* sp. 10123
DWR 1814 *Metarhizium* sp. 10124
DWR 1815 *Metarhizium* sp. 10125
DWR 1844 *Metarhizium* sp. 10126
DWR 1845 *Metarhizium* sp. 10314
DWR 1855 *Metarhizium* sp. 10315
DWR 1856 *Metarhizium* sp. 10316
DWR 1857 *Metarhizium* sp. 10317
DWR 1858 *Metarhizium* sp. 10318
DWR 1859 *Metarhizium* sp. 10319
DWR 1860 *Metarhizium* sp. 10320
DWR 1908 *Metarhizium* sp. 10321
DWR 1909 *Metarhizium* sp. 10322
DWR 1938 *Metarhizium* sp. 10323
DWR 1942 *Metarhizium* sp. 10324
DWR 1949 *Metarhizium* sp. 10325
DWR 1950 *Metarhizium* sp. 10326
DWR 1951 *Metarhizium* sp. 10327
DWR 1954 *Metarhizium* sp. 10328
DWR 1955 *Metarhizium* sp. 10329
DWR 1956 *Metarhizium* sp. 10330
DWR 1957 *Metarhizium* sp. 10331
DWR 1958 *Metarhizium* sp. 10332
DWR 1971 *Metarhizium* sp. 10333
DWR 1996 *Metarhizium* sp. 10334
DWR 1997 *Metarhizium robertsii* 10000
DWR 1998 *Metarhizium* sp. 10335
DWR 1999 *Metarhizium* sp. 10336
DWR 200 *Metarhizium anisopliae* sensu lato 7847
DWR 200 *Metarhizium anisopliae* sensu lato 8363
DWR 2003 *Metarhizium* sp. 10337
DWR 2004 *Metarhizium* sp. 10338
DWR 2005 *Metarhizium* sp. 10339
DWR 2006 *Metarhizium* sp. 10340
DWR 2007 *Metarhizium* sp. 10341
DWR 2008 *Metarhizium* sp. 10342
DWR 2009 *Metarhizium* sp. 10343
DWR 2010 *Metarhizium* sp. 10344
DWR 2011 *Metarhizium* sp. 10345
DWR 2025 *Metarhizium* sp. 10346
DWR 203 *Metarhizium anisopliae* sensu lato 8364
DWR 2043 *Metarhizium* sp. 12635
DWR 2062 *Metarhizium* sp. 12636
DWR 2063 *Metarhizium* sp. 12637
DWR 2064 *Metarhizium* sp. 12638
DWR 2065 *Metarhizium* sp. 12639
DWR 2066 *Metarhizium* sp. 12640
DWR 2067 *Metarhizium* sp. 12641
DWR 2068 *Metarhizium* sp. 12642
DWR 2068 *Metarhizium* sp. 13979
DWR 2070 *Metarhizium* sp. 12643
DWR 2072 *Metarhizium* sp. 12644
DWR 2073 *Metarhizium* sp. 12645
DWR 2074 *Metarhizium* sp. 12646
DWR 2075 *Metarhizium* sp. 12647
DWR 2076 *Metarhizium* sp. 12648
DWR 2077a *Metarhizium* sp. 12698
DWR 2077b *Metarhizium* sp. 12699
DWR 2099 *Metarhizium* sp. 12649
DWR 2100 *Metarhizium* sp. 12650
DWR 2101 *Metarhizium* sp. 12651
DWR 2102 *Metarhizium* sp. 12652
DWR 2103 *Metarhizium* sp. 13031
DWR 2104 *Metarhizium* sp. 12653
DWR 2105 *Metarhizium* sp. 12654
DWR 2107 *Metarhizium* sp. 12655
DWR 2120 *Metarhizium* sp. 12656
DWR 2121 *Metarhizium* sp. 12657
DWR 2122 *Metarhizium* sp. 12658
DWR 2123 *Metarhizium* sp. 12659
DWR 2124 *Metarhizium* sp. 12660
DWR 2125 *Metarhizium* sp. 12661
DWR 2142 *Metarhizium* sp. 12662
DWR 2143 *Metarhizium* sp. 12663
DWR 2144 *Metarhizium* sp. 12664
DWR 2145 *Metarhizium* sp. 12665
DWR 2146 *Metarhizium* sp. 12666
DWR 2147 *Metarhizium* sp. 12667
DWR 2148 *Metarhizium* sp. 12668
DWR 2149 *Metarhizium* sp. 12669
DWR 2150 *Metarhizium* sp. 13095
DWR 2150 *Metarhizium* sp. 13980
DWR 2151 *Metarhizium* sp. 12670
DWR 2152 *Metarhizium* sp. 12671
DWR 2153 *Metarhizium* sp. 12672
DWR 2154 *Metarhizium* sp. 12673
DWR 2155 *Metarhizium* sp. 12674
DWR 2156 *Metarhizium* sp. 12675
DWR 2157 *Metarhizium* sp. 12676
DWR 2158 *Metarhizium* sp. 12677
DWR 2159 *Metarhizium* sp. 12678
DWR 2160 *Metarhizium* sp. 12679
DWR 2161 *Metarhizium* sp. 12680
DWR 2162 *Metarhizium* sp. 12681
DWR 217 *Metarhizium anisopliae* sensu lato 8362
DWR 2192 *Metarhizium* sp. 12682
DWR 2193 *Metarhizium* sp. 12683
DWR 2194 *Metarhizium* sp. 12684
DWR 2195 *Metarhizium* sp. 12685
DWR 2197 *Metarhizium* sp. 12686
DWR 2198 *Metarhizium* sp. 12687
DWR 2199 *Metarhizium* sp. 12688
DWR 2200 *Metarhizium* sp. 12689
DWR 2201 *Metarhizium* sp. 12690
DWR 2218 *Metarhizium* sp. 12691
DWR 2220 *Metarhizium* sp. 12692
DWR 2221 *Metarhizium* sp. 12693
DWR 2222 *Metarhizium* sp. 12694
DWR 2223 *Metarhizium* sp. 12695
DWR 2226 *Metarhizium* sp. 12696
DWR 2227 *Metarhizium* sp. 12697
DWR 2228 *Metarhizium* sp. 12700
DWR 2229 *Metarhizium* sp. 12701
DWR 2232 *Metarhizium* sp. 13032
DWR 2233 *Metarhizium* sp. 12702
DWR 2234 *Metarhizium* sp. 12703
DWR 2235 *Metarhizium* sp. 12704
DWR 2236 *Metarhizium* sp. 12705
DWR 2237 *Metarhizium* sp. 12706
DWR 2238 *Metarhizium* sp. 13033
DWR 2239 *Metarhizium* sp. 12707
DWR 2240 *Metarhizium* sp. 12708
DWR 2241 *Metarhizium* sp. 12709
DWR 2242 *Metarhizium* sp. 12710
DWR 2243 *Metarhizium* sp. 12711
DWR 2244 *Metarhizium* sp. 12712
DWR 2245 *Metarhizium* sp. 12713
DWR 2246 *Metarhizium* sp. 12714
DWR 2247 *Metarhizium* sp. 12715
DWR 2248 *Metarhizium* sp. 12716
DWR 2249 *Metarhizium* sp. 12717
DWR 2250 *Metarhizium* sp. 12718

DWR 2251 *Metarhizium* sp. 12719
DWR 2252 *Metarhizium* sp. 12720
DWR 2253 *Metarhizium* sp. 12721
DWR 2254 *Metarhizium* sp. 13034
DWR 2255 *Metarhizium* sp. 12722
DWR 2256 *Metarhizium* sp. 12723
DWR 2257 *Metarhizium* sp. 12724
DWR 2259 *Metarhizium* sp. 12725
DWR 2260 *Metarhizium* sp. 12726
DWR 2261 *Metarhizium* sp. 12727
DWR 2264 *Metarhizium* sp. 12728
DWR 2265 *Metarhizium* sp. 13035
DWR 2266 *Metarhizium* sp. 12729
DWR 2267 *Metarhizium* sp. 13036
DWR 2268 *Metarhizium* sp. 13037
DWR 2269 *Metarhizium* sp. 13038
DWR 2270 *Metarhizium* sp. 13039
DWR 2271 *Metarhizium* sp. 12730
DWR 2272 *Metarhizium* sp. 13040
DWR 2273 *Metarhizium* sp. 12731
DWR 2274 *Metarhizium* sp. 13041
DWR 2275 *Metarhizium* sp. 12732
DWR 2276 *Metarhizium* sp. 12733
DWR 2277 *Metarhizium* sp. 12734
DWR 2278 *Metarhizium* sp. 12735
DWR 2279 *Metarhizium* sp. 12736
DWR 2280 *Metarhizium* sp. 12737
DWR 2281 *Metarhizium* sp. 13042
DWR 2282 *Metarhizium* sp. 13043
DWR 2283 *Metarhizium* sp. 12738
DWR 2284 *Metarhizium* sp. 13096
DWR 2285 *Metarhizium* sp. 13044
DWR 2286 *Metarhizium* sp. 12739
DWR 2287 *Metarhizium* sp. 13045
DWR 2288 *Metarhizium* sp. 13097
DWR 2289 *Metarhizium* sp. 12740
DWR 2292 *Metarhizium* sp. 13981
DWR 2293 *Metarhizium* sp. 12741
DWR 2294 *Metarhizium* sp. 12742
DWR 2295 *Metarhizium* sp. 12743
DWR 2296 *Metarhizium* sp. 13098
DWR 2297 *Metarhizium* sp. 13099
DWR 2298 *Metarhizium* sp. 12744
DWR 2299 *Metarhizium* sp. 12745
DWR 2300 *Metarhizium* sp. 12746
DWR 2301 *Metarhizium* sp. 12747
DWR 2302 *Metarhizium* sp. 12748
DWR 2304 *Metarhizium* sp. 12749
DWR 2305 *Metarhizium* sp. 12750
DWR 2306 *Metarhizium* sp. 12751
DWR 2307 *Metarhizium* sp. 12752
DWR 2308 *Metarhizium* sp. 13982
DWR 2309 *Metarhizium* sp. 13100
DWR 2310 *Metarhizium* sp. 12753
DWR 2311 *Metarhizium* sp. 12754
DWR 2312 *Metarhizium* sp. 12755
DWR 2313 *Metarhizium* sp. 12756
DWR 2314 *Metarhizium* sp. 12757
DWR 2315 *Metarhizium* sp. 12758
DWR 2316 *Metarhizium* sp. 12759
DWR 2317 *Metarhizium* sp. 12760
DWR 2318 *Metarhizium* sp. 12761
DWR 2319 *Metarhizium* sp. 12762
DWR 2339 *Metarhizium* sp. 12763
DWR 2360 *Metarhizium* sp. 12764
DWR 2363 *Metarhizium* sp. 12765
DWR 2364 *Metarhizium* sp. 12766
DWR 2365 *Metarhizium* sp. 12767
DWR 2366 *Metarhizium* sp. 12768
DWR 2367 *Metarhizium* sp. 12769
DWR 2375 *Metarhizium* sp. 12770
DWR 2386 *Metarhizium* sp. 12771
DWR 2387 *Metarhizium* sp. 12772
DWR 2388 *Metarhizium* sp. 12773
DWR 2389 *Metarhizium* sp. 12774
DWR 2390 *Metarhizium* sp. 12775
DWR 2391 *Metarhizium* sp. 12776
DWR 2398 *Metarhizium* sp. 12777
DWR 2399 *Metarhizium* sp. 12778
DWR 2400 *Metarhizium* sp. 13101
DWR 2401 *Metarhizium* sp. 12779
DWR 2402 *Metarhizium* sp. 12780
DWR 2403 *Metarhizium* sp. 12781
DWR 2416 *Metarhizium* sp. 13102
DWR 2417 *Metarhizium* sp. 12782
DWR 2418 *Metarhizium* sp. 12783
DWR 2419 *Metarhizium* sp. 12784
DWR 2420 *Metarhizium* sp. 13103
DWR 2421 *Metarhizium* sp. 12785
DWR 2422 *Metarhizium* sp. 12786
DWR 2423 *Metarhizium* sp. 12787
DWR 2424 *Metarhizium* sp. 12788
DWR 2425 *Metarhizium* sp. 12789
DWR 2426 *Metarhizium* sp. 12790
DWR 2428 *Metarhizium* sp. 12791
DWR 2431 *Metarhizium* sp. 12792
DWR 2432 *Metarhizium* sp. 13188
DWR 2434 *Metarhizium* sp. 13983
DWR 2435 *Metarhizium* sp. 13984
DWR 2436 *Metarhizium* sp. 13104
DWR 2437 *Metarhizium* sp. 13985
DWR 2438 *Metarhizium* sp. 13105
DWR 2439 *Metarhizium* sp. 13106
DWR 2440 *Metarhizium* sp. 13986
DWR 2441 *Metarhizium* sp. 13987
DWR 2442 *Metarhizium* sp. 13189
DWR 2443 *Metarhizium* sp. 13190
DWR 2444 *Metarhizium* sp. 13191
DWR 2445 *Metarhizium* sp. 13192
DWR 2446 *Metarhizium* sp. 13988
DWR 2447 *Metarhizium* sp. 13989
DWR 2448 *Metarhizium* sp. 13193
DWR 2449 *Metarhizium* sp. 13990
DWR 2450 *Metarhizium* sp. 13991
DWR 2451 *Metarhizium* sp. 13992
DWR 2453 *Metarhizium* sp. 13993
DWR 2454 *Metarhizium* sp. 13194
DWR 2455 *Metarhizium* sp. 13195
DWR 2458 *Metarhizium* sp. 13196
DWR 2458 *Metarhizium* sp. 13197
DWR 2460 *Metarhizium* sp. 13198
DWR 2461 *Metarhizium* sp. 13199
DWR 2462 *Metarhizium* sp. 13200
DWR 2463 *Metarhizium* sp. 13201
DWR 2465 *Metarhizium* sp. 13202
DWR 2467 *Metarhizium* sp. 13203
DWR 2468 *Metarhizium* sp. 13204
DWR 2487 *Metarhizium* sp. 13205
DWR 2488 *Metarhizium* sp. 13206
DWR 2500 *Metarhizium* sp. 13207
DWR 2501 *Metarhizium* sp. 13208
DWR 2502 *Metarhizium* sp. 13209
DWR 2505 *Metarhizium* sp. 13210
DWR 2507 *Metarhizium* sp. 13211
DWR 2508 *Metarhizium* sp. 13212
DWR 2511 *Metarhizium* sp. 13213
DWR 2512 *Metarhizium* sp. 13214
DWR 2514 *Metarhizium* sp. 13994
DWR 2515 *Metarhizium* sp. 13215
DWR 2541 *Metarhizium* sp. 13216
DWR 2547 *Metarhizium* sp. 13217
DWR 2547 *Metarhizium* sp. 13472
DWR 2570 *Metarhizium* sp. 13473
DWR 2571 *Metarhizium* sp. 13995
DWR 2572 *Metarhizium* sp. 13474
DWR 2573 *Metarhizium* sp. 13475
DWR 2574 *Metarhizium* sp. 13476
DWR 2575 *Metarhizium* sp. 13477
DWR 2576 *Metarhizium* sp. 13478
DWR 2577 *Metarhizium* sp. 13479
DWR 2578 *Metarhizium* sp. 13480
DWR 2579 *Metarhizium* sp. 13481
DWR 2580 *Metarhizium* sp. 13482
DWR 2581 *Metarhizium* sp. 13483
DWR 2582 *Metarhizium* sp. 13484
DWR 2583 *Metarhizium* sp. 13485
DWR 2584 *Metarhizium* sp. 13486
DWR 2585 *Metarhizium* sp. 13487
DWR 2586 *Metarhizium* sp. 13488
DWR 2587 *Metarhizium* sp. 13489
DWR 2589 *Metarhizium* sp. 13490
DWR 2589 *Metarhizium* sp. 13491
DWR 2590 *Metarhizium* sp. 13996
DWR 2591 *Metarhizium* sp. 13492
DWR 2592 *Metarhizium* sp. 13493
DWR 2593 *Metarhizium* sp. 13494
DWR 2594 *Metarhizium* sp. 13495
DWR 2595 *Metarhizium* sp. 13496
DWR 2596 *Metarhizium* sp. 13497
DWR 2597 *Metarhizium* sp. 13498
DWR 2598 *Metarhizium* sp. 13499
DWR 2599 *Metarhizium* sp. 13500
DWR 2600 *Metarhizium* sp. 13501
DWR 2601 *Metarhizium* sp. 13997
DWR 2602 *Metarhizium* sp. 13502
DWR 2603 *Metarhizium* sp. 13998
DWR 2604 *Metarhizium* sp. 13503
DWR 2605 *Metarhizium* sp. 13504
DWR 2606 *Metarhizium* sp. 13999
DWR 2607 *Metarhizium* sp. 14000
DWR 2608 *Metarhizium* sp. 13505
DWR 261 *Metarhizium anisopliae* sensu lato 8365
DWR 312 *Metarhizium anisopliae* sensu lato 8366
DWR 313 *Metarhizium anisopliae* sensu lato 8357
DWR 338 *Metarhizium anisopliae* sensu lato 8358
DWR 346 *Metarhizium anisopliae* sensu lato 8367
DWR 356 *Metarhizium* sp. 9617
DWR 357 *Metarhizium* sp. 9618
DWR 358 *Metarhizium* sp. 9619
DWR 364 *Metarhizium* sp. 9620
DWR 365 *Metarhizium* sp. 9621
DWR 366 *Metarhizium* sp. 9622
DWR 367 *Metarhizium* sp. 9623

DWR 368 *Metarhizium* sp. 9624
DWR 369 *Metarhizium* sp. 9625
DWR 379 *Metarhizium* sp. 9626
DWR 380 *Metarhizium* sp. 9627
DWR 381 *Metarhizium* sp. 9628
DWR 382 *Metarhizium* sp. 9629
DWR 383 *Metarhizium* sp. 9630
DWR 384 *Metarhizium* sp. 9631
DWR 385 *Metarhizium* sp. 9632
DWR 386 *Metarhizium* sp. 9633
DWR 387 *Metarhizium* sp. 9634
DWR 388 *Metarhizium* sp. 9635
DWR 389 *Metarhizium* sp. 9636
DWR 390 *Metarhizium* sp. 9637
DWR 391 *Metarhizium* sp. 9638
DWR 392 *Metarhizium* sp. 9639
DWR 393 *Metarhizium* sp. 9640
DWR 45 *Metarhizium anisopliae* sensu lato 6829
DWR 456 *Metarhizium* sp. 9641
DWR 457 *Metarhizium* sp. 9642
DWR 459 *Metarhizium* sp. 9643
DWR 46 *Metarhizium anisopliae* sensu lato 6830
DWR 460 *Metarhizium* sp. 9644
DWR 461 *Metarhizium* sp. 9645
DWR 462 *Metarhizium* sp. 9646
DWR 463 *Metarhizium* sp. 9647
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558 Metarhizium rileyi
576 Metarhizium pingshaense
586 Metarhizium anisopliae sensu lato
587 Metarhizium anisopliae sensu stricto
588 Metarhizium pingshaense
589 Metarhizium anisopliae sensu lato
683 Metarhizium guizhouense
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711 Metarhizium rileyi
712 Metarhizium pingshaense
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797 Metarhizium robertsii
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978 Metarhizium majus
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1011 Metarhizium pingshaense
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1015 Metarhizium majus
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1093 Metarhizium guizhouense
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1097 Metarhizium anisopliae sensu lato
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1116 Metarhizium brunneum
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1187 Metarhizium brunneum
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1278 Metarhizium brunneum
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1489 Metarhizium anisopliae sensu stricto
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1547 Metarhizium minus
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1773 Metarhizium minus
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1879 Metarhizium rileyi
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1893 Metarhizium rileyi
1894 Metarhizium anisopliae sensu stricto
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1898 Metarhizium rileyi
1899 Metarhizium anisopliae sensu lato
1900 Metarhizium anisopliae sensu stricto
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1911 Metarhizium anisopliae sensu lato
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1945 Metarhizium minus
1946 Metarhizium majus
1950 Metarhizium rileyi
1952 Metarhizium robertsii
1958 Metarhizium anisopliae sensu lato
1968 Metarhizium robertsii
1970 Metarhizium anisopliae sensu lato
1972 Metarhizium rileyi
1989 Metarhizium anisopliae sensu lato
2013 Metarhizium rileyi
2023 Metarhizium minus
2024 Metarhizium flavoviride
2025 Metarhizium flavoviride
2026 Metarhizium flavoviride
2037 Metarhizium minus
2038 Metarhizium koreanum
2039 Metarhizium koreanum
2042 Metarhizium brunneum
2043 Metarhizium pingshaense
2076 Metarhizium anisopliae sensu lato
2077 Metarhizium anisopliae sensu lato
2080 Metarhizium anisopliae sensu stricto
2081 Metarhizium album
2082 Metarhizium album
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2105 Metarhizium anisopliae sensu lato
2106 Metarhizium pingshaense
2107 Metarhizium brunneum
2133 Metarhizium flavoviride
2134 Metarhizium robertsii
2135 Metarhizium anisopliae sensu lato
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2139 Metarhizium anisopliae sensu lato
2140 Metarhizium guizhouense
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2153 Metarhizium anisopliae sensu stricto
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2165 Metarhizium anisopliae sensu lato
2166 Metarhizium anisopliae sensu lato
2167 Metarhizium anisopliae sensu lato
2174 Metarhizium rileyi
2176 Metarhizium album
2178 Metarhizium album
2179 Metarhizium album
2201 Metarhizium rileyi
2202 Metarhizium rileyi
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2206 Metarhizium rileyi
2207 Metarhizium rileyi
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2213 Metarhizium anisopliae sensu lato
2214 Metarhizium anisopliae sensu lato
2222 Metarhizium album
2223 Metarhizium anisopliae sensu stricto
2224 Metarhizium brunneum
2229 Metarhizium album
2230 Metarhizium anisopliae sensu lato
2231 Metarhizium pingshaense
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2343 Metarhizium anisopliae sensu lato
2345 Metarhizium rileyi
2353 Metarhizium sp.
2381 Metarhizium minus
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2383 Metarhizium anisopliae sensu lato
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2421 Metarhizium anisopliae sensu stricto
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2469 Metarhizium robertsii
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2514 Metarhizium robertsii
2517 Metarhizium anisopliae sensu stricto
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2612 Metarhizium robertsii
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3044 Metarhizium pingshaense
3045 Metarhizium brunneum
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3057 Metarhizium anisopliae sensu lato
3064 Metarhizium novozealandicum
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3187 Metarhizium anisopliae sensu stricto
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3389 Metarhizium anisopliae sensu lato
3391 Metarhizium acridum
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3541 Metarhizium anisopliae sensu lato
3542 Metarhizium anisopliae sensu lato
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3565 Metarhizium anisopliae sensu lato
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3604 Metarhizium pingshaense
3605 Metarhizium pingshaense
3606 Metarhizium anisopliae var. acridum
3608 Metarhizium robertsii
3609 Metarhizium acridum
3610 Metarhizium pingshaense
3611 Metarhizium guizhouense
3612 Metarhizium acridum
3613 Metarhizium sp.
3614 Metarhizium anisopliae var. acridum
3615 Metarhizium acridum
3616 Metarhizium acridum
3617 Metarhizium sp.
3618 Metarhizium acridum
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3621 Metarhizium anisopliae sensu stricto
3643 Metarhizium sp.
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3738 Metarhizium brunneum
3767 Metarhizium sp.
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3827 Metarhizium anisopliae sensu lato
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3863 Metarhizium sp.
3864 Metarhizium brunneum
3865 Metarhizium sp.
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3920 Metarhizium anisopliae sensu lato
3924 Metarhizium anisopliae sensu stricto
3925 Metarhizium robertsii
3930 Metarhizium anisopliae sensu lato
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4020 Metarhizium brunneum
4094 Metarhizium rileyi
4095 Metarhizium anisopliae sensu lato
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4124 Metarhizium frigidum
4125 Metarhizium brunneum
4131 Metarhizium brunneum
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4153 Metarhizium guizhouense
4154 Metarhizium lepidiotae
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4163 Metarhizium anisopliae sensu lato
4164 Metarhizium brunneum
4165 Metarhizium sp.
4166 Metarhizium anisopliae sensu lato
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