

*USDA-ARS Collection
of Entomopathogenic
Fungal Cultures*

ARSEF

Isolates from COLEOPTERA



Emerging Pests and Pathogens Research Unit
Robert W. Holley Center for Agriculture & Health
539 Tower Road
Ithaca, NY 14853

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Fully Indexed
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Front cover: Buprestid beetle infected with *Sporothrix* sp. Specimen collected by Matt Hentz in Florida, 2018. Photograph and fungus identification by LA Castrillo.

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

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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 molecularly 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*, *Syngliocladium*)

Updated (see Quandt et al. 2014)*

Ophiocordyceps (synonyms *Hirsutella*, *Hymenostilbe*, *Paraisaria*, *Sorosporella*, *Syngliocladium*)

Purpureocillium

Tolypocladium (synonym *Elaphocordyceps*)

Table 2. Phylum Entomophthoromycota (Humber 2012)

Class Basidiobolomycetes	
Order Basidiobolales	
Family Basidiolaceae	<i>Basidiobolus</i> , <i>Schizangiella</i> ¹ , <i>Drechslerosporium</i> ¹
Class Neozygitomycetes	
Order Neozytigales	
Family Neozygitaceae	<i>Neozygites</i> , <i>Apterivorax</i> , <i>Thaxterosporium</i>
Class Entomophthoromycetes	
Order Entomophthorales	
Family Ancylistaceae	<i>Ancylistes</i> , <i>Conidiobolus</i> ² , <i>Macrobotophthora</i>
Family Completoriaceae	<i>Completozia</i>
Family Entomophthoraceae	
Subfamily Entomophthoroideae	<i>Entomophthora</i> , <i>Entomophaga</i> , <i>Eryniopsis</i> , <i>Massospora</i> ⁴
Subfamily Erynioideae ³	<i>Erynia</i> , <i>Furia</i> , <i>Orthomyces</i> , <i>Pandora</i> , <i>Strongwellsea</i> , <i>Zoophthora</i>
Family Meristacraceae ⁵	<i>Meristacrum</i> , <i>Tabanomyces</i>

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 water molds 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 water molds 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 in indicating 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)**.

* 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

Telephone: [+1] 607 255-7008

OR 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.
<i>Metopolophium dirhodum</i> [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.
<i>Rhopalosiphum insertum</i> [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.
<i>Phyllocoptruta oleivora</i> [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 EPRU 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 Biotecnologia, 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 <i>may</i> 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 insect host: order Coleoptera

Unidentified / Hyphomycetes

- 2225 [ARSEF 2210] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwuring (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.
- 2999 SV Krueger (MF-Ec). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Feb 1990. USA: Geneva, New York. [Hemiascomyete].
- 3033 W Mechaber (weevil#2034). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Vaccinium vacillans*. 28 Apr 1990. USA: Carver, Massachusetts. [? *Phialocephala* sp.].
- 5223 LA Lacey (96001). *Popillia japonica* [Coleoptera: Scarabaeidae]. 13 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5224 LA Lacey (96002). *Popillia japonica* [Coleoptera: Scarabaeidae]. 10 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5225 LA Lacey (96003). *Popillia japonica* [Coleoptera: Scarabaeidae]. 10 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5226 LA Lacey (96004). *Popillia japonica* [Coleoptera: Scarabaeidae]. 16 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5227 LA Lacey (96005). *Popillia japonica* [Coleoptera: Scarabaeidae]. 16 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5677 BL Parker (SPT-014). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hurbit Mountain, Hatay.
- 5695 JM Sung (KEFC-1087). [Coleoptera: Curculionidae]. 9 Jul 1997. Republic of Korea: Yongmoon Mt., Gyeonggi Province.
- 8155 LS Bauer and H Liu (MF-246). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8179 LS Bauer and H Liu (MF-273). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8183 LS Bauer and H Liu (MF-281). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8184 LS Bauer and H Liu (MF-282). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Lansing, Michigan.
- 8264 RJ Pereault (Walton Spray pci#1). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8641 [CENARGEN CG 639] [Coleoptera]. Rec'd 18 Sep 2007. Ghana. **RESTRICTED ACCESS:** *consult Curator*.
- 11666 JL Hatting (TPC 019). *Cochliotus melolonthoides* [Coleoptera: Scarabaeidae]. 20 Jun 2011. Tanzania: Sugarcane field.

Unidentified sp.

These fungi were accessioned without verified identifications. Many strains listed here will be reassigned to known taxa as quickly as the opportunity allows. Some strains are undescribed new species; some are sterile and may not be identifiable to a level lower than the class.

- 1429 S Balazy (1567). Adult, *Rhagonycha lignosa* [Coleoptera: Cantharidae] attached to the leaves of arboraceous plants. 24 May 1983. Poland: Bialowieza National Park.
- 1430 S Balazy (1573). Larva, *Phytonomus punctatus* [Coleoptera: Curculionidae]. 12 Jun 1983. Poland: field nr. Puszczykowo, Wielkopolski National Park.
- 1437 DL Hostetter (AWL#2). Larva, *Hypera postica* [Coleoptera: Curculionidae]. Location not specified.
- 1634 [ARSEF 1667 (deaccessioned)] TJ Poprawski (0120). Nymph, [Coleoptera]. 27 Jun 1984. France: Saint-Étienne du Bois, Loire.
- 1667 [ARSEF 1634] TJ Poprawski (0120). Nymph, [Coleoptera]. 27 Jun 1984. France: Saint-Étienne du Bois, Loire.
- 3034 W Mechaber (weevil#2176). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Vaccinium angustifolium*. 20 May 1990. USA: Carver, Massachusetts.
- 3471 CENARGEN (CG 304). *Sternechus subsignatus* [Coleoptera: Curculionidae]. 1990. Brazil: Passo Fundo, Rio Grande do Sul.
- 3478 CENARGEN (CG 311). *Aracanthus* sp. [Coleoptera: Curculionidae]. 1990. Brazil: Santa Maria, Rio Grande do Sul.
- 3714 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 1 Jul 1991. Location not specified.
- 3719 RA LeBrun ← J Hanula (W-2). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 3722 Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 21 Jun 1991. USA: Groton, Connecticut.
- 3724 S DeFazio. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 May 1992. Location not specified.
- 3821 ERD Reyes (BbCO2) or (BbH). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae] OVERWINTERING SITE. 9 Oct 1992. Mexico: Guanajuato State.
- 3841 LA Lacey (92140). *Popillia japonica* [Coleoptera: Scarabaeidae]. Rec'd 24 Nov 1992. Portugal: Terceira Island, Azores.
- 3980 LA Lacey (93017) ← S Reichert. Adult, *Oulema melanopus* [Coleoptera: Chrysomelidae]. 19 Apr 1993. France: La Valette.
- 4037 T Steenberg (251). *Phyllotreta nigripes* [Coleoptera: Chrysomelidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.

4140 [DAT 25] AC Rath (F025). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1986. Australia: Hamilton, Tasmania.

Acremonium alternatum Link : Fries
[Sordariomycetes: Hypocreales]

7282 FE Vega (CBB9-2). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jan 2004. Colombia: Chinchiná, Caldas.

Acremonium furcatum F&R Moreau ex Gams
[Sordariomycetes: Microascales]
Microasceae

1372 TJ Poprawski (083). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 21 Jun 1983. France: Choisy-en-Brie, Haute-Savoie.

Aphanocladium album (Preuss) Gams
[Sordariomycetes: Hypocreales]
Nectriaceae

1329 TJ Poprawski (085). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 5 Jun 1983. France: Chichery.

***Aspergillus* sp.**
[Eurotiomycetes: Eurotiales]
Trichocomaceae

6571 LS Bauer. Egg mass, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 23 May 2000. USA: from laboratory colony, USDA Forest Service, NCRS, East Lansing, Michigan.

7048 TM O'Neil and DW Spurgeon. *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 12 Aug 2002. USA: Southern Plains Agricultural Research Center, College Station, Texas.

Aspergillus flavus Link:Fries
[Eurotiomycetes: Eurotiales]
Trichocomaceae

6454 Z G/Tsadik (5/03-BB). *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. 3 Oct 1999. Ethiopia: Northern Shoa.

6469 LS Bauer (2UIC1817). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from laboratory colony, USDA Forest Service, NCRS. Rec'd 19 Feb 2000. USA: East Lansing, Michigan.

9381 DI Shapiro Ilan. *Tenebrio molitor* [Coleoptera: Tenebrionidae] for rearing of entomopathogenic nematodes. Rec'd 6 Jan 2010.

***Aspergillus nidulans*(?)** (Eidam) Winter
[Eurotiomycetes: Eurotiales]
Trichocomaceae

6515 RT Mayer. Larva, *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 10 May 2000. USA: Florida.

Aspergillus parasiticus Speare
[Eurotiomycetes: Eurotiales]
Trichocomaceae

2173 MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwutung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.

***Batkoa* sp.**
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

5810 RA Humber. [Coleoptera: Cantharidae]. 9 Aug 1998. Denmark.

***Beauveria* sp.**
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Almost all strains listed here closely resemble *B. bassiana* (or *B. brongniartii*) but were not so identified because of small (and possibly insignificant) differences in conidia size and/or shape.

547 VA Dyck. *Pachybrachis pallicornis* [Coleoptera: Chrysomelidae]. Acc'd 17 Sep 1986. Malaysia.

1327 TJ Poprawski (082). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1983. France: Saint-Laurent, Vosges.

1681 M Shimazu (F-333). *Shirahoshizo insidiosus* [Coleoptera: Curculionidae]. 27 Jan 1982. Japan: Takao, Tokyo Prefecture.

1682 M Shimazu (F-357(11)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.

1835 SB Alves (295). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.

2412 K Narayanan (9). *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 6 May 1987. India.

4027 T Steenberg (231) ← CW Riedel. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Nov 1990. Denmark: Slangerup, Zealand.

4390 LA Lacey (94132). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.

4391 LA Lacey (94133). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.

4392 LA Lacey (94134). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.

4853 JM Sung (C-332). Adult, [Coleoptera: Coccinellidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.

4909 LA Lacey (95011). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.

4910 LA Lacey (95012). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.

- 4911 LA Lacey (95013). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4912 LA Lacey (95014). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4913 LA Lacey (95015). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4914 LA Lacey (95016). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4915 LA Lacey (95017). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4916 LA Lacey (95018). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4917 LA Lacey (95019). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4918 LA Lacey (95020). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 5186 S Gouli (GA-96). [Coleoptera: Lampyridae]. 2 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5697 JM Sung (KEFC-1105). [Coleoptera]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 5831 BL Parker (SPT 003). [Coleoptera]. 17 Jan 1998. Turkey: Karabiyikli, Narli, Kahraman Maras.
- 5833 BL Parker (SPT 013/1). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 7463 [CEP 061] C López Lastra. [Coleoptera: Curculionidae] on *Eryngium* sp. (Apiaceae). 13 Jul 2004. Argentina: San Vicente, Buenos Aires.
- 7580 [SRCAMB B-22] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps* sp. 28 Jul 2001. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-172.
- 7591 [SRCAMB B-182] V Likhovidov ← BA Borisov. [Coleoptera: Coccinellidae]. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-173.
- 7595 [SRCAMB B-405] V Likhovidov ← BA Borisov. [Coleoptera]. Oct 1990. Ukraine: Kherson Oblast. Field Collection Number F-207.
- 8110 LS Bauer and H Liu (MF-101). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 3 Mar 2003. USA: Northville, Michigan.
- 8111 LS Bauer and H Liu (MF-102). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 3 Mar 2003. USA: Northville, Michigan.
- 8112 LS Bauer and H Liu (MF-201). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 4 Dec 2005. USA: Brighton, Michigan.
- 8113 LS Bauer and H Liu (MF-202). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8116 LS Bauer and H Liu (MF-205). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8117 LS Bauer and H Liu (MF-206). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8119 LS Bauer and H Liu (MF-209). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8120 LS Bauer and H Liu (MF-210). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8121 LS Bauer and H Liu (MF-211). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8122 LS Bauer and H Liu (MF-212). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8123 LS Bauer and H Liu (MF-213). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 16 Dec 2005. USA: Brighton, Michigan.
- 8124 LS Bauer and H Liu (MF-214). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 2 Feb 2006. USA: Brighton, Michigan.
- 8125 LS Bauer and H Liu (MF-215). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8126 LS Bauer and H Liu (MF-216). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8127 LS Bauer and H Liu (MF-217). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8128 LS Bauer and H Liu (MF-218). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8129 LS Bauer and H Liu (MF-219). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8130 LS Bauer and H Liu (MF-220). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8132 LS Bauer and H Liu (MF-222). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8133 LS Bauer and H Liu (MF-223). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.

- 8176 LS Bauer and H Liu (MF-270). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8177 LS Bauer and H Liu (MF-271). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8178 LS Bauer and H Liu (MF-272). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Lansing, Michigan.
- 8180 LS Bauer and H Liu (MF-274). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8181 LS Bauer and H Liu (MF-276). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8182 LS Bauer and H Liu (MF-279). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8185 LS Bauer and H Liu (MF-283). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8186 LS Bauer and H Liu (MF-284). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8187 LS Bauer and H Liu (MF-285). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8188 LS Bauer and H Liu (MF-286). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8250 P Narayanasamy. Adult, *Basilepta fulvicornis* [Coleoptera: Chrysomelidae] on *Elettaria cardamomum* (L.) Maton, cardamom crop. 30 Aug 2006. India: Tamil Nadu.
- 9272 Z Demirbag and E Tanyeli (Dm-6). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 12793 [OKSTATE 54] 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.
- 12794 [OKSTATE 87] EJ Rebek and JA Rodriguez-Contreras ← SR Sánchez Peña. Larva, *Phyllophaga* sp. [Coleoptera: Scarabaeidae]. Summer 2014. USA: Lakeside Memorial Golf Course, Stillwater, Oklahoma.
- 12795 [OKSTATE 107] 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.
- 13370 [SP Wraight] Adult, [Coleoptera: Carabidae]. Apr 2017. USA: South Point, Island of Hawaii, Hawaii. 18.9111 -155.681111.
- 13377 [SP Wraight HI-65b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 30 Apr 2014. USA: feral coffee grove, Mamalahoa highway, Captain Cook, District of South Kona, Hawai'i. 19.39038, -155.87710.
- 13378 [SP Wraight HI-1639a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13379 [SP Wraight HI-1653a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13380 [SP Wraight HI-1655c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13381 [SP Wraight HI-2707b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13382 [SP Wraight HI-1706b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13383 [SP Wraight HI-1708] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13384 [SP Wraight HI-1709] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13385 [SP Wraight HI-1713a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13386 [SP Wraight HI-1714] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13387 [SP Wraight HI-1717] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13388 [SP Wraight HI-1723] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13389 [SP Wraight HI-1746] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13390 [SP Wraight HI-1750] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra

- Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13391 [SP Wraight HI-1751] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13392 [SP Wraight HI-1754] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13393 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd Nov 2017. USA: Kunia Research Farm, Hawai'i Agricultural Research Center, Oahu, Hawaii. collected in 2016 .
- 13394 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Jun 2017. USA: Maunawili Research Farm, Hawai'i Agricultural Research Center, Oahu, Hawaii.
- 13395 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Jun 2017. USA: Maunawili Research Farm, Hawai'i Agricultural Research Center, Oahu, Hawaii.
- 13397 [SP Wraight HI-1657b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee bean. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13398 [SP Wraight HI-1735] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee bean. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13399 [SP Wraight HI-1755] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee bean. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13407 [SP Wraight HI-1641d] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13408 [SP Wraight HI-1641e] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13409 [SP Wraight HI-1645b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13410 [SP Wraight HI-1646b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13411 [SP Wraight HI-1649b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13412 [SP Wraight HI-1653a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13413 [SP Wraight HI-1688b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13414 [SP Wraight HI-1716a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13415 [SP Wraight HI-1716b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13416 [SP Wraight HI-1728] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13417 [SP Wraight HI-1737] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13418 [SP Wraight HI-1738b1] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13419 [SP Wraight HI-1738b2] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13420 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Grenwell [sic] Farm, Captain Cook, District of South Kona, Hawai'i.
- 13421 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Big Tuki, Hawaii.
- 13422 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Andreas Farm, Hawaii.
- 13423 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Koa, Captain Cook, District of South Kona, Hawai'i.
- 13424 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Terry Farm, Hawaii.
- 13595 [SP Wraight HI-1668] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Scarr Farm, Island of Hawaii, Hawaii.
- 13661 [A Khan plam weevil Bb2] *Rhynchophorus palmarum* [Coleoptera: Curculionidae] Coconut Palm. Acc'd 30 Sep 2018. Trinidad: Ceno.

Beauveria amorpha (von Hoehnel) Minnick, SA
Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Replaces *B. amorpha* (von Hoehnel)
Samson & Evans.

- 1676 M Shimazu (F-77). *Anomala costata* [Coleoptera: Scarabaeidae]. 11 Oct 1971. Japan: Daimon, Nagano Prefecture.
- 1680 M Shimazu (F-313). *Psacotha hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Takao, Tokyo Prefecture.
- 1969 KV Raman. *Premnotrypes suturicallus* [Coleoptera: Curculionidae]. 1985. Peru: Andes Mountains. Identification verified genomically.
- 4149 [DAT 142] AC Rath (F142). Pre-pupa, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania. Identification verified genomically.
- 4990 LA Lacey (95048). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.

Beauveria amorpha(?) (van Hoehnel) Samson & HC
Evans
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6827 TL Dubois (WU 20 (2)). *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.

Beauveria asiatica SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Defined primarily by genotypic characters

- 4384 LA Lacey (94135). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou. Identification verified genomically.
- 4474 LA Lacey (94152). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou. Identification verified genomically.

Beauveria bassiana (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria densa*
(Link:Fries) Picard

- 33 R Vollock. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 13 Nov 1973. USA: greenhouse, Orono, Maine.
- 149 M Wojciechowska (28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 Jul 1977. France.
- 150 M Wojciechowska (24). [Coleoptera: Elateridae]. Rec'd 18 Jul 1977. France.

- 201 JD Vandenberg. *Diabrotica undecimpunctata* [Coleoptera: Chrysomelidae] on greenbeans. 22 Oct 1977. USA: greenhouse, Corvallis, Oregon. Mycotech's GHA (US Patent 5,939,065; 17 Aug 1999), the active ingredient in Mycotrol products, is a reisolat of this strain.
- 252 C Madore. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Sep 1978. USA: greenhouse, Orono, Maine.
- 293 DW Roberts ← CW McCoy. [Coleoptera]. Acc'd 4 Jan 1979. Location not specified.
- 301 DW Roberts ← B Schaerffenberg. [Coleoptera]. Acc'd 23 Mar 1979. Poland.
- 317 RA LeBrun. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 27 Feb 1979. USA: Rhode Island.
- 318 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. USA: Rhode Island.
- 319 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. Mexico.
- 325 [CSIRO FI49] RS Soper. [Coleoptera: Nitidulidae] on maize. 14 Feb 1979. Australia: Atherton, Queensland.
- 336 C Russel. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
- 337 C Russel. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
- 340 DW Roberts ← G Zimmermann. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 1965. Germany: Darmstadt, Hesse.
- 344 J Lindegren. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Feb 1979. USA: Yakima, Washington.
- 350 IM Abalis. [Coleoptera]. Acc'd 8 Jun 1979. USA: Ithaca, New York.
- 353 C Gordon. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. May 1978. USA: laboratory colony, Orono, Maine.
- 384 INRA. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Sep 1979. France.
- 412 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 27 Jul 1979. USA: Apopka, Florida.
- 413 CW McCoy. *Araecerus fasciculatus* [Coleoptera: Anthribidae]. 8 May 1979. USA: Fruitland Park, Florida.
- 416 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.
- 433 *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 14 Jan 1980. Location not specified.
- 504 RS Soper. [Coleoptera: Chrysomelidae]. 12 Aug 1980. Yugoslavia: orchard behind bus station, Zabari, Serbia.
- 505 RA Humber. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Aug 1980. Yugoslavia: potato field at road marker 119 on M22, nr. Srbobran.

- 506 RA Humber and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 14 Aug 1980. Yugoslavia: road marker 82 on M22, nr. Srbobran, Freketic.
- 507 C Sidor and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 16 Aug 1980. Yugoslavia: between Putnici and Indjija.
- 508 C Sidor and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 16 Aug 1980. Yugoslavia: E of Ruma, nr. Krajljvci, Voyvodina.
- 509 C Sidor. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 18 Aug 1980. Yugoslavia: nr. Varazdin by transformer in field, Nedeljanec, Croatia.
- 510 RA Humber and RS Soper. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 26 Aug 1980. Yugoslavia: Forestry Inst. Nursery, E of Pec, nr. Crno Brdo.
- 534 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: established laboratory colony, Boyce Thompson Institute, Ithaca, New York.
- 535 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: newly established laboratory colony, Boyce Thompson Institute, Ithaca, New York.
- 721 TB Clark. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Feb 1982. Colombia: ?CIAT, Cali, Valle del Cauca.
- 731 [CNPAF 81-11-25-05; CP 5] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 732 [CNPAF 81-11-25-07; CP 6] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 733 [CNPAF 82-1-6-01; CP 7] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 734 [CNPAF 82-1-6-03; CP 9] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 735 [CNPAF 82-1-15-02; CP 14] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 736 [CNPAF 82-1-6-04; CP 10] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 738 [CNPAF 82-2-9-01; CP 23] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 9 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 739 [CNPAF 82-2-3-01; CP 27] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 752 [CNPAF 82-2-15-01; CP 34] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 753 [CNPAF 82-3-24-01; CP 36] RS Soper. *Aracanthus* sp. [Coleoptera: Curculionidae]. 24 Mar 1982. Brazil: Brejo Santo, Ceará.
- 754 [CNPAF 82-4-4-01; CP 38] RA Daoust. [Coleoptera]. 4 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.
- 756 [CNPAF 81-11-25-04; CP 4] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 757 [CNPAF 82-3-23-01; CP 35] RA Daoust. [Coleoptera: Tenebrionidae]. 23 Mar 1982. Brazil: Missão Velha, Ceará.
- 758 [CNPAF 82-3-1-03; CP 29] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 1 Mar 1982. Brazil: CNPAF, Goiânia, Goiás.
- 783 [CNPAF 82-5-6-02; CP 59] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
- 784 [CNPAF 82-4-30-01C; CP 47] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 785 [CNPAF 82-4-29-01; CP 46] RA Daoust. Adult, [Coleoptera: Cerambycidae]. 29 Apr 1982. Brazil: Caucaia, Ceará.
- 786 [CNPAF 82-5-3-03B; CP 51] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 787 [CNPAF 82-5-6-01; CP 58] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
- 788 [CNPAF 82-5-3-03A; CP 50] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 804 [CNPAF 82-4-30-01D; CP 48] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 805 [CNPAF 82-5-3-01; CP 49] RA Daoust ← LS Teixeira. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: Pacajus, Ceará.
- 809 [CNPAF 82-6-28-01; CP 61] RA Daoust ← SM dos Santos. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 28 Jun 1982. Brazil: CNPAF, Goiânia, Goiás.
- 815 GG Soares (12). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 816 GG Soares (20) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.
- 842 *Metamasius* sp. [Coleoptera: Curculionidae]. Acc'd 6 Jun 1983. Colombia.
- 928 [CNPAF 82-07-27-01; CP 63] RA Daoust ← SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 27 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.

- 930 [CNPAF 82-12-15-02; CP 68] RA Daoust ← SM dos Santos. [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 931 [CNPAF 82-12-20-01; CP 69] RA Daoust ← H da Silva Coelho. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 934 [CNPAF 83-1-25-01; CP 72] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Jan 1983. Brazil: CNPAF, Goiânia, Goiás.
- 937 [CNPAF 83-3-3-01; CP 76] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: F. Itamaraty, Ponta Porã, Mato Grosso.
- 938 [CNPAF 83-3-3-02; CP 77] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 941 [CNPAF 83-03-16C; CP 82] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 942 [CNPAF 83-03-16D; CP 83] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 943 [CNPAF 83-03-16E; CP 84] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 946 [CNPAF 83-03-15E; CP 87] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 947 [CNPAF 83-03-15-M; CP 88] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 948 [CNPAF 83-03-15-O; CP 89] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 949 [CNPAF 83-03-15-P; CP 90] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 950 [CNPAF 83-03-15-Q; CP 91] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 951 [CNPAF 83-03-15B; CP 92] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 952 [CNPAF 83-03-15H; CP 93] RA Daoust and BP Magalhães. Adult, [Coleoptera: Carabidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 953 [CNPAF 83-03-16K; CP 98] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 956 [CNPAF 83-5-27; CP 101] RA Daoust ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 27 May 1983. Brazil: CNPAF, Goiânia, Goiás.
- 958 [CNPAF 83-01-06A (CB 97); CP 104] RA Daoust ← SM de Carvalho. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 Jan 1983. Brazil: Londrina, Paraná.
- 982 [CNPAF 83-03-17B; CP 95] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 17 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 1016 ME McGiffen. *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Nov 1983. Location not specified.
- 1039 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1041 J Aoki (Isa. 1) ← S Miyajima. *Psacotheta hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Nagakute, Aichi Prefecture.
- 1060 [CNPS 31] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1061 [CNPS 32] F Moscardi ← Francisco. [Coleoptera: Curculionidae]. 1983. Brazil: Londrina, Paraná.
- 1073 TJ Poprawski (83-48). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1074 TJ Poprawski (83-49). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1075 TJ Poprawski (83-54). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 21 Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1079 *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Acc'd Feb 1984. USA: Washington.
- 1081 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1106 KV Deseö (25) ← Chianella. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Feb 1982. Italy: Sicily.
- 1153 TJ Poprawski (074). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1154 TJ Poprawski (072). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 25 Jan 1984. Morocco: Jramma.
- 1155 TJ Poprawski (073). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1156 TJ Poprawski (83-639). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 22 Oct 1983. France: Guyancourt, Yvelines.
- 1157 TJ Poprawski (83-619). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.

- 1158 TJ Poprawski (83-634). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Vernon, Eure.
- 1159 TJ Poprawski (83-615). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1160 TJ Poprawski (83-614). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1161 TJ Poprawski (83-626). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Mantes-la-Jolie, Yvelines.
- 1162 TJ Poprawski (83-623). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Limay, Yvelines.
- 1163 TJ Poprawski (071A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1164 TJ Poprawski (070). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1165 TJ Poprawski (83-621). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1167 TJ Poprawski (83-701). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Nov 1983. France: Senneville.
- 1168 TJ Poprawski (83-702). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 10 Oct 1983. France: Senneville.
- 1169 TJ Poprawski (83-703). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1170 TJ Poprawski (83-704). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 23 Nov 1983. France: Senneville.
- 1171 TJ Poprawski (A2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1172 TJ Poprawski (A4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1173 TJ Poprawski (A5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Achouria.
- 1174 TJ Poprawski (A6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1175 TJ Poprawski (A7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Achouria.
- 1176 TJ Poprawski (J1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1177 TJ Poprawski (J2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1178 TJ Poprawski (J3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 7 Feb 1984. Morocco: Jorf.
- 1179 TJ Poprawski (J4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1180 TJ Poprawski (J5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1181 TJ Poprawski (J6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Jorf.
- 1182 TJ Poprawski (83-616). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1183 TJ Poprawski (J7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Jorf.
- 1185 [INRA Bb-142] TJ Poprawski. *Sitona discoideus* [Coleoptera: Curculionidae]. May 1977. France: Viols-le-Fort, Hérault.
- 1186 [INRA Bb-195] TJ Poprawski. Adult, *Caryedon serratus* [Coleoptera: Bruchidae]. 6 Jun 1983. France: La Minière.
- 1188 TJ Poprawski (E1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Elbaya.
- 1189 TJ Poprawski (A1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1190 TJ Poprawski (A3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1191 TJ Poprawski (645). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Dec 1983. France: Orléans, Loiret.
- 1192 TJ Poprawski (646). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Anet, Eure-et-Loir.
- 1193 TJ Poprawski (647). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Ecos, Eure.
- 1194 TJ Poprawski (648). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Meulan, Yvelines.
- 1306 TJ Poprawski (83-611). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1309 TJ Poprawski (A8). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1311 TJ Poprawski (A10). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1312 TJ Poprawski (A11). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1313 TJ Poprawski (A12). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1389 TJ Poprawski (088). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Baron.

- 1398 TJ Poprawski (086). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Marsanne, Drôme.
- 1399 TJ Poprawski (087). Adult, *Hypera postica* [Coleoptera: Curculionidae]. Mar 1984. France: Marsanne, Drôme.
- 1450 [CNPAF 52; CP 125] F Moscardi. *Sternechus sub-signatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Londrina, Paraná.
- 1451 [CNPAF 84-3-12; CP 124] H da Silva Coelho. [Coleoptera: Chrysomelidae]. 12 Mar 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1453 [CNPAF 84-02-30-2; CP 143] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Mar 1984. Brazil: Francisco Beltrão, Paraná.
- 1454 [CNPAF 84-03-28-1F; CP 144] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1455 [CNPAF 84-03-28-D; CP 145] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1456 [CNPAF 84-04-03-6A; CP 146] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1458 [CNPAF 84-03-28-1E; CP 148] RA Daoust. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1459 [CNPAF 84-04-03-1E; CP 149] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1460 [CNPAF 84-04-03-1B; CP 150] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1461 [CNPAF 84-03-29-1; CP 151] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 29 Mar 1984. Brazil: Capitão Leônidas Marques, Paraná.
- 1462 [CNPAF 84-03-28-1G; CP 152] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1463 [CNPAF 84-03-28-1L; CP 153] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1464 [CNPAF 84-04-03-6B; CP 154] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1465 [CNPAF 84-04-03-1A; CP 155] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1466 [CNPAF 84-03-31-6; CP 156] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1467 [CNPAF 84-04-02-5A; CP 157] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: São Carlos, Santa Catarina.
- 1469 [CNPAF 84-03-31-2; CP 159] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1470 [CNPAF 84-04-02-3; CP 160] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1471 [CNPAF 84-04-02-4; CP 161] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1472 [CNPAF 84-04-02-2; CP 162] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1473 [CNPAF 84-04-02-1B; CP 163] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1475 [CNPAF 84-04-03-1C; CP 165] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1476 [CNPAF 84-04-25-1; CP 166] SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 25 Apr 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1480 SB Alves (252). *Hypothenemus hampei* [Coleoptera: Scolytidae] on coffee. Rec'd 6 Jul 1984. Brazil: São Paulo.
- 1483 SB Alves (61). *Cosmopolites sordidus* [Coleoptera: Curculionidae] on banana. Rec'd 6 Jul 1984. Brazil: Espírito Santo.
- 1491 [INRA Bb-169] GG Soares. *Sitona humeralis* [Coleoptera: Curculionidae]. Mar 1981. France: Lusignan, Vienne.
- 1509 I Majchrowicz (56) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1510 I Majchrowicz (58) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1511 I Majchrowicz (75) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1515 TJ Poprawski (0107). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 13 Jun 1984. France.

- 1518 TJ Poprawski (0111). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vacluse.
- 1519 TJ Poprawski (0112). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vacluse.
- 1559 KV Deseö (88) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1560 KV Deseö (89) ← Campadelli. *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1561 KV Deseö (90) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1562 KV Deseö (91) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1563 KV Deseö (92) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1566 S Keller (D155). [Coleoptera: Scolytidae]. 14 Aug 1984. Switzerland: Siblingen, Schaffhausen.
- 1619 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1620 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1621 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1622 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1623 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1624 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 30 Jul 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1647 TJ Poprawski (0143). Adult, *Sitona* sp. [Coleoptera: Curculionidae]. 22 Aug 1984. France: Orval, Ardennes.
- 1678 M Shimazu (F-237). *Moechotypa diphysis* [Coleoptera: Cerambycidae]. Aug 1978. Japan: Tsushima, Nagasaki Prefecture.
- 1679 M Shimazu (F-263). *Monochamus alternatus* [Coleoptera: Cerambycidae]. 25 Aug 1978. Japan: Kumamoto Prefecture.
- 1683 M Shimazu (F-359(30)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.
- 1704 L Allee (84-1). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1705 L Allee (84-3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1706 L Allee (84-4). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1707 L Allee (84-5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1708 L Allee (84-7). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1709 L Allee (84-8). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1710 L Allee (84-9). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1711 L Allee (84-10). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1712 L Allee (84-11). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1713 L Allee (84-12). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1721 L Allee (84-13). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1722 L Allee (84-19). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1723 L Allee (84-20). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.

- 1749 L Allee (84-16). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1750 L Allee (84-18). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1775 L Allee (84-22). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1776 L Allee (84-23). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1777 L Allee (84-24). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: insecticide-treated plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1778 L Allee (84-25). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1779 L Allee (84-26). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1780 L Allee (84-27). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1781 L Allee (84-28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1811 TJ Poprawski (0167C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf. Identification verified genomically.
- 1815 TJ Poprawski (0165). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1816 TJ Poprawski (0166A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1817 TJ Poprawski (0166B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1818 TJ Poprawski (0166C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1819 TJ Poprawski (0166D). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1820 TJ Poprawski (0167A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1821 TJ Poprawski (0167B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1833 SB Alves (267). *Cosmopolites* sp. [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.
- 1848 HS Whitney (R629) ← HA Moeck. Adult, *Rhizophagus grandis* [Coleoptera: Rhizophagidae]. Sep 1984. Belgium. Identification verified genomically.
- 1849 HA Moeck and HS Whitney (R630). Adult, *Dendroctonus ponderosae* [Coleoptera: Scolytidae]. Oct 1984. Canada: Lye Lake Plot, Riske Creek, British Columbia.
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- 4135 [DAT 15] AC Rath (F015). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 9 Mar 1986. Australia: Laboratory, Newtown, Tasmania.
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- 5150 DL Hostetter (T103). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 29 Jan 1996. Portugal: Terceira Island, Azores.
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- 5437 TJ Poprawski (TJP902) ← G Mercadier (EBCL 97002). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
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- 5439 TJ Poprawski (TJP904) ← G Mercadier (EBCL 97004). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5440 TJ Poprawski (TJP905) ← G Mercadier (EBCL 97005). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5441 TJ Poprawski (TJP906) ← G Mercadier (EBCL 97027). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Jan 1997. Ivory Coast: RCI.3, Ayenoua.
- 5442 TJ Poprawski (TJP907) ← G Mercadier (EBCL 97028). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5443 TJ Poprawski (TJP908) ← G Mercadier (EBCL 97016). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5444 TJ Poprawski (TJP909) ← G Mercadier (EBCL 97017). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
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- 5446 TJ Poprawski (TJP911) ← G Mercadier (EBCL 97019). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5447 TJ Poprawski (TJP912) ← G Mercadier (EBCL 97020). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5448 TJ Poprawski (TJP913) ← G Mercadier (EBCL 97021). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5449 TJ Poprawski (TJP914) ← G Mercadier (EBCL 97022). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
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- 11878 DW Roberts (DWR 1941). [Coleoptera: Coccinellidae] as bait. Rec'd 30 Apr 2012.
- 12573 SP Wraight (HI-3A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12574 SP Wraight (HI-6). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12575 SP Wraight (HI-8). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12576 SP Wraight (HI-12A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12577 SP Wraight (HI-14). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12578 SP Wraight (HI-15). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12579 SP Wraight (HI-16). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12580 SP Wraight (HI-18). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12581 SP Wraight (HI-20A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12582 SP Wraight (HI-21C). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12583 SP Wraight (HI-22A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12584 SP Wraight (HI-25). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12585 SP Wraight (HI-27). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12586 SP Wraight (HI-43). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee.

- 14 Apr 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12587 SP Wraight (HI-46). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12588 SP Wraight (HI-47). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12589 SP Wraight (HI-49A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12590 SP Wraight (HI-52A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12591 SP Wraight (HI-53A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12592 SP Wraight (HI-54). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12593 SP Wraight (HI-56). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12594 SP Wraight (HI-57). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12595 SP Wraight (HI-58). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12596 SP Wraight (HI-60). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12597 SP Wraight (HI-61). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12598 SP Wraight (HI-62). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12599 SP Wraight (HI-63). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12600 SP Wraight (HI-65A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12601 SP Wraight (HI-67). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Apr 2014. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. N 19.43122, W 155.89108. **RESTRICTED ACCESS:** *contact Curator.*
- 12602 SP Wraight (HI-68). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Onaka Farm, southwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. N 19.43072, W 155.89090. **RESTRICTED ACCESS:** *contact Curator.*
- 12603 SP Wraight (HI-70). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 18 Apr 2014. USA: OK Farms, north field, Amaulu Road, Hilo, Hawai'i. N 19.72794, W 155.11320. **RESTRICTED ACCESS:** *contact Curator.*
- 12604 SP Wraight (HI-72). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*

- 12605 SP Wraight (HI-74). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, north-east field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*
- 12606 SP Wraight (HI-75). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, north-east field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*
- 12607 SP Wraight (HI-79). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, north-east field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*
- 12608 SP Wraight (HI-81). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, north-east field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*
- 12609 SP Wraight (HI-84). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, north-east field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*
- 12610 SP Wraight (HI-90). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, north-east field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator.*
- 12611 SP Wraight (HI-99). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12612 SP Wraight (HI-109). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12613 SP Wraight (HI-121). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12614 SP Wraight (HI-122). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12615 SP Wraight (HI-123). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12616 SP Wraight (HI-204). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12617 SP Wraight (HI-205). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12618 SP Wraight (HI-206B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12619 SP Wraight (HI-211). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12620 SP Wraight (HI-805). Adult, *Xylosandrus compactus* [Coleoptera: Curculionidae: Scolytinae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12805 SP Wraight (HI-514). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12806 SP Wraight (HI-528). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12807 SP Wraight (HI-548). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South

- Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12808 SP Wraight (HI-552). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12809 SP Wraight (HI-685). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12810 SP Wraight (HI-695). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12811 SP Wraight (HI-711). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12812 SP Wraight (HI-720). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12813 SP Wraight (HI-751). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 7 May 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12814 SP Wraight (HI-783). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12815 SP Wraight (HI-785). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12816 SP Wraight (HI-793). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12821 SP Wraight (HI-519). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932.
- 12891 SP Wraight (HI-520). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12892 SP Wraight (HI-539). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12893 SP Wraight (HI-516). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12894 SP Wraight (HI-742). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12957 M Barta (IK10) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 5 Apr 2012. Slovakia: Michalovo. N 48.99945, E 19.76410. **RESTRICTED ACCESS:** *contact Curator.*
- 12958 M Barta (IK31) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 9 Apr 2012. Slovakia: Zbojská. N 48.74650, E 19.84096.
- 12960 M Barta (IK44) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 25 Apr 2012. Slovakia: Nebrová. N 49.11863, E 18.12467.
- 12961 M Barta (IK57) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 12 May 2012. Slovakia: Oravská Polhora. N 49.52668, E 19.46842.
- 12962 M Barta (MK8) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 7 May 2012. Slovakia: Vysoké Tatry-Start. N 49.17913, E 20.25763.
- 12964 M Barta (MK16) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 4 May 2012. Slovakia: Stará Lesná. N 49.13860, E 20.29696.
- 12965 M Barta (MK26) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 10 May 2012. Slovakia: Stará Lesná. N 49.13860, E 20.29696.
- 12966 M Barta (MK39) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 14 May 2012. Slovakia: Stará Lesná. N 49.13860, E 20.29696.

- 12967 M Barta (MK124) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 16 May 2012. Slovakia: Branisko. N 49.02545, E 20.86159.
- 12968 M Barta (MK129) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 16 May 2012. Slovakia: Spissky Hrhov. N 48.99840, E 20.63610. **RESTRICTED ACCESS:** contact Curator.
- 12970 M Barta (MK207) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Hnilcik. N 48.85239, E 20.57028.
- 12971 M Barta (MK236) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Mlynky. N 48.85187, E 20.43762.
- 12973 M Barta (MK274) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Oravice. N 49.26698, E 19.74311.
- 12974 M Barta (MK299) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Oravice. N 49.31831, E 19.74380.
- 12975 M Barta (MK311) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Pod Sivym vrchom. N 49.20911, E 19.64951.
- 12977 M Barta (MK336) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Bobrovec. N 49.28109, E 19.75058.
- 12978 M Barta (MK341) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Rackova dolina. N 49.13691, E 19.79901.
- 12979 M Barta (MK380) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 1 Jul 2012. Slovakia: Pod Chocom, Lúcky. N 49.13844, E 19.39812.
- 12980 M Barta (MK387) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 1 Jul 2012. Slovakia: Demänovská dolina. N 49.00610, E 19.56816.
- 13402 [SP Wraight PR TA-1] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 Sep 2016. USA: Tres Angeles farm, Adjuntas, Puerto Rico.
- 13403 [SP Wraight PR TA-4] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 Sep 2016. USA: Tres Angeles farm, Adjuntas, Puerto Rico.
- 13404 [SP Wraight PR TP-5] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 22 Sep 2016. USA: Tres Pecachos farm, Jayuya, Puerto Rico.
- 13405 [SP Wraight PR TP-7] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 22 Sep 2016. USA: Tres Pecachos farm, Jayuya, Puerto Rico.
- 13506 [A Khan palm weevil Beauveria] *Rhynchophorus palmarum* [Coleoptera: Curculionidae]. Rec'd 6 Apr 2018. Trinidad.
- 13515 [SP Wraight HI-1753] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Jul 2015. USA: Obra farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13516 [SP Wraight HI-1679A] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13517 [SP Wraight HI-1679b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13518 [SP Wraight HI-1686a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13519 [SP Wraight HI-1743b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13520 [SP Wraight HI-1747] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13521 [SP Wraight HI-1748] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13522 [SP Wraight HI-1647c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13523 [SP Wraight HI-1657c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13524 [SP Wraight HI-1661a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13525 [SP Wraight HI-1661b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13526 [SP Wraight HI-1047] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13527 [SP Wraight HI-1048] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13528 [SP Wraight HI-1049] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13529 [SP Wraight HI-1052] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.

- 13530 [SP Wraight HI-1055] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13531 [SP Wraight HI-1063] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Apr 2015. USA: Onaka farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43151, -155.89051.
- 13532 [SP Wraight HI-1072] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Apr 2015. USA: Onaka farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43151, -155.89051.
- 13533 [SP Wraight HI-1198] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Apr 2015. USA: Onaka farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43122, -155.89108.
- 13534 [SP Wraight HI-1199] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Apr 2015. USA: Onaka farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43122, -155.89108.
- 13535 [SP Wraight HI-1117] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Apr 2015. USA: Smith Farm, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43256, -155.86946.
- 13536 [SP Wraight HI-1534] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kelleher farm, Island of Hawaii, Hawaii.
- 13541 [SP Wraight PR-TA6] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 Sep 2016. USA: Tres Angeles Farm, Adjuntas, Puerto Rico.
- 13542 [SP Wraight HI-1536] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kelleher farm, Island of Hawaii, Hawaii.
- 13543 [SP Wraight HI-1541] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Koontz farm, Island of Hawaii, Hawaii.
- 13544 [SP Wraight HI-1543] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Koontz farm, Island of Hawaii, Hawaii.
- 13545 [SP Wraight HI-1545] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kunitake farm, Island of Hawaii, Hawaii.
- 13546 [SP Wraight HI-1784] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 1 Apr 2016. USA: Shatz farm, Island of Hawaii, Hawaii.
- 13547 [SP Wraight HI-1785] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 1 Apr 2016. USA: Shatz farm, Island of Hawaii, Hawaii.
- 13548 [SP Wraight HI-1827] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13549 [SP Wraight HI-1828] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13550 [SP Wraight HI-1380] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13551 [SP Wraight HI-1832] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13552 [SP Wraight HI-1836] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13553 [SP Wraight HI-2688] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Goschke farm, Captain Cook, District of South Kona, Hawai'i.
- 13554 [SP Wraight HI-2720a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13555 [SP Wraight HI-2720b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13556 [SP Wraight HI-2721] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13557 [SP Wraight HI-2722a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13558 [SP Wraight HI-2722b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13559 [SP Wraight HI-2724] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13560 [SP Wraight HI-2745] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13561 [SP Wraight HI-2748a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13562 [SP Wraight HI-2748b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13563 [SP Wraight HI-2752] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13564 [SP Wraight HI-2754] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: D. Dacalio farm, Island of Hawaii, Hawaii.
- 13565 [SP Wraight HI-2754] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: D. Dacalio farm, Island of Hawaii, Hawaii.
- 13566 [SP Wraight HI-2760] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.

- 13567 [SP Wraight HI-2761] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13568 [SP Wraight HI-2903a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13569 [SP Wraight HI-2903b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13572 [SP Wraight HI-2904] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13573 [SP Wraight HI-2906] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13574 [SP Wraight HI-1399] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 4 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13575 [SP Wraight HI-1400] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 4 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13576 [SP Wraight HI-1408b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 6 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13577 [SP Wraight HI-1409b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 6 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13578 [SP Wraight HI-1766] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13579 [SP Wraight HI-1768] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13580 [SP Wraight HI-1769a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13581 [SP Wraight HI-1769b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13582 [SP Wraight HI-1776b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13583 [SP Wraight HI-1776c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13584 [SP Wraight HI-1777b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13585 [SP Wraight HI-1777c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13586 [SP Wraight HI-1780b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13587 [SP Wraight HI-1780c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13588 [SP Wraight HI-1781b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13589 [SP Wraight HI-1394] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 4 May 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43253, -155.86915.
- 13590 [SP Wraight HI-1422] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 11 May 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43256, -155.86946.
- 13591 [SP Wraight HI-1426] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 11 May 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13592 [SP Wraight HI-1559b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 8 Mar 2016. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43256, -155.86946.
- 13593 [SP Wraight HI-1427] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 11 May 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13594 [SP Wraight HI-1565b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 8 Mar 2016. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13596 [SP Wraight HI-1533a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kelleher Farm, Island of Hawaii, Hawaii.
- 13597 [SP Wraight HI-1540] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Koontz Farm, Island of Hawaii, Hawaii.
- 13598 [SP Wraight HI-1546] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kunitake Farm, Island of Hawaii, Hawaii.

Beauveria bassiana sensu lato (Balsamo-Crivelli)

Vuillemin

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 12434 ST Jaronski (11AW452). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 20 Jun 2011. USA: Roosevelt County, Montana. N 48.01999, W 104.08204.
- 12435 ST Jaronski (11AW479). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 20 Jun 2011. USA: Richland County, Montana. N 47.74546, W 104.12953.

- 12436 ST Jaronski (12AW323). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.64180, W 104.19949.
- 12437 ST Jaronski (12AW332). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.78444, W 104.08774.
- 12438 ST Jaronski (12AW336). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Roosevelt County, Montana. N 48.01487, W 103.81691.
- 12439 ST Jaronski (12AW457). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12440 ST Jaronski (12AW457-1). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12441 ST Jaronski (12AW457-2). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12442 ST Jaronski (12AW457-3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12443 ST Jaronski (12AW491-1). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.39831, W 104.38053.
- 12444 ST Jaronski (12AW491-2). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Williams County, North Dakota. N 47.39831, W 104.38053.
- 12445 ST Jaronski (13AW336). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Roosevelt County, Montana. N 48.01487, W 103.81691.
- 12446 ST Jaronski (13AW340-1A). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: McKenzie County, North Dakota. N 47.95783, W 103.94684.
- 12447 ST Jaronski (13AW340-2). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: McKenzie County, North Dakota. N 47.95783, W 103.94684.
- 12448 ST Jaronski (13AW344). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana.
- 12449 ST Jaronski (13AW447). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana. N 47.46772.
- 12450 ST Jaronski (13AW473). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana. N 47.57947, W 104.26116.
- 12451 ST Jaronski (13AW483). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12517 ST Jaronski (12AW323-4 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.64180, W 104.19949.
- 12518 ST Jaronski (12AW462-1 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 8 Jun 2012. USA: Roosevelt County, Montana. N 48.01999, W 104.08204.
- 12519 ST Jaronski (12AW483-2 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12520 ST Jaronski (12AW483-5 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12521 ST Jaronski (12AW483-6 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12522 ST Jaronski (12AW483-8 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12982 SP Wraight (HI-806). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12983 SP Wraight (HI-807A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12984 SP Wraight (HI-807B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12985 SP Wraight (HI-809). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12986 SP Wraight (HI-810). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12987 SP Wraight (HI-811). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12988 SP Wraight (HI-815A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i.

- 13051 SP Wraight (HI-856). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-856. **RESTRICTED ACCESS:** *contact Curator.*
- 13052 SP Wraight (HI-859). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-859. **RESTRICTED ACCESS:** *contact Curator.*
- 13053 SP Wraight (HI-860). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. **RESTRICTED ACCESS:** *contact Curator.*
- 13054 SP Wraight (HI-861). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 11 Mar 2015. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. **RESTRICTED ACCESS:** *contact Curator.*
- 13055 SP Wraight (HI-862). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 11 Mar 2015. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. **RESTRICTED ACCESS:** *contact Curator.*
- 13056 SP Wraight (HI-863). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 11 Mar 2015. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-863. **RESTRICTED ACCESS:** *contact Curator.*
- 13057 SP Wraight (HI-867). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-867. **RESTRICTED ACCESS:** *contact Curator.*
- 13058 SP Wraight (HI-868). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-868. **RESTRICTED ACCESS:** *contact Curator.*
- 13059 SP Wraight (HI-869). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-869. **RESTRICTED ACCESS:** *contact Curator.*
- 13060 SP Wraight (HI-870). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-870. **RESTRICTED ACCESS:** *contact Curator.*
- 13061 SP Wraight (HI-871). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-871. **RESTRICTED ACCESS:** *contact Curator.*
- 13062 SP Wraight (HI-872). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-872. **RESTRICTED ACCESS:** *contact Curator.*
- 13063 SP Wraight (HI-873). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-873. **RESTRICTED ACCESS:** *contact Curator.*
- 13064 SP Wraight (HI-874). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-874. **RESTRICTED ACCESS:** *contact Curator.*
- 13065 SP Wraight (HI-875). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-875. **RESTRICTED ACCESS:** *contact Curator.*
- 13066 SP Wraight (HI-876). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-876. **RESTRICTED ACCESS:** *contact Curator.*
- 13067 SP Wraight (HI-877). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-877. **RESTRICTED ACCESS:** *contact Curator.*
- 13068 SP Wraight (HI-878). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-878. **RESTRICTED ACCESS:** *contact Curator.*
- 13069 SP Wraight (HI-879). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-879. **RESTRICTED ACCESS:** *contact Curator.*
- 13070 SP Wraight (HI-880). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-880. **RESTRICTED ACCESS:** *contact Curator.*

- 13071 SP Wraight (HI-881). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-881. **RESTRICTED ACCESS:** contact Curator.
- 13072 SP Wraight (HI-882A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-882A. **RESTRICTED ACCESS:** contact Curator.
- 13073 SP Wraight (HI-882B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-882B. **RESTRICTED ACCESS:** contact Curator.
- 13074 SP Wraight (HI-883). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-883. **RESTRICTED ACCESS:** contact Curator.
- 13075 SP Wraight (HI-884). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-884. **RESTRICTED ACCESS:** contact Curator.
- 13076 SP Wraight (HI-885). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-885. **RESTRICTED ACCESS:** contact Curator.
- 13077 SP Wraight (HI-886A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-886A. **RESTRICTED ACCESS:** contact Curator.
- 13078 SP Wraight (HI-886B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-886B. **RESTRICTED ACCESS:** contact Curator.
- 13079 SP Wraight (HI-887). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-887. **RESTRICTED ACCESS:** contact Curator.
- 13080 SP Wraight (HI-888). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-888. **RESTRICTED ACCESS:** contact Curator.
- 13081 SP Wraight (HI-889). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-889. **RESTRICTED ACCESS:** contact Curator.
- 13082 SP Wraight (HI-890). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-890. **RESTRICTED ACCESS:** contact Curator.
- 13083 SP Wraight (HI-891). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amaulu Road, Hilo, Hawai'i. HI-891. **RESTRICTED ACCESS:** contact Curator.
- 13084 SP Wraight (HI-892). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-892. **RESTRICTED ACCESS:** contact Curator.
- 13085 SP Wraight (HI-894). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-894. **RESTRICTED ACCESS:** contact Curator.
- 13086 SP Wraight (HI-895). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-895. **RESTRICTED ACCESS:** contact Curator.
- 13087 SP Wraight (HI-896). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-896. **RESTRICTED ACCESS:** contact Curator.
- 13089 SP Wraight (HI-899). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, west field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-899. **RESTRICTED ACCESS:** contact Curator.
- 13090 SP Wraight (HI-900). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, west field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-900. **RESTRICTED ACCESS:** contact Curator.
- 13091 SP Wraight (HI-901). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-901. **RESTRICTED ACCESS:** contact Curator.
- 13092 SP Wraight (HI-902). 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-902. **RESTRICTED ACCESS:**
contact Curator.
- 13093 SP Wraight (HI-904). 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-904. **RESTRICTED ACCESS:**
contact Curator.
- 13094 SP Wraight (HI-905). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-905. **RESTRICTED ACCESS:**
contact Curator.
- 13257 [AS Lestari FD] [Coleoptera: Curculionidae]. 7 Oct 2013. USA: Polk County, Oregon.
- 14001 ST Jaronski (NEB159). Adult, *Diabrotica virgifera virgifera* [Coleoptera: Chrysomelidae]. 1986. USA: Nebraska.
- 14002 ST Jaronski (IL197-5A). Adult, *Diabrotica virgifera virgifera* [Coleoptera: Chrysomelidae]. 1986. USA: Illinois.
- Beauveria bassiana* sensu stricto** (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
These isolates have been genomically confirmed to be *Beauveria bassiana* in the strict sense as designated by Rehner et al. (2011. Mycologia 103: 1055-1073).
- 751 P Jolivet. [Coleoptera: Chrysomelidae]. Apr 1982. Vietnam: Cuc Phuong Forest. Identification verified genomically.
- 13750 [M Burjanadze MB-094] [Coleoptera]. Rec'd 17 Sep 2018. Republic of Georgia: Sartichala, Kvemo Kartli.
- 13751 [M Burjanadze MB-095] [Coleoptera]. Rec'd 17 Sep 2018. Republic of Georgia: Sartichala, Kvemo Kartli.
- Beauveria bassiana*(?)** (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae
- 6890 H Cortez Madrigal (B1). [Coleoptera: Chrysomelidae] on *Eucalyptus* sp. 30 Sep 1999. Mexico: Huimanguillo, Tabasco.
- 6891 H Cortez Madrigal (B2). [Coleoptera: Chrysomelidae] on weeds. 10 Oct 2000. Mexico: Cárdenas, Tabasco.
- 9271 Z Demirbag and E Tanyeli (Dm-5). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- Beauveria brongniartii*** (Saccardo) Petch
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria tenella* (Saccardo) MacLeod.
- 617 ATCC (26156) ← P Ferron (6). Larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Rec'd 27 May 1981. France. Identification verified genomically.
- CULTURE EX TYPE from specimen proposed for conservation as species type.
- 979 [GCRI 64-82] RA Hall ← J Fargues. *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France. Identification verified genomically.
- 985 J Aoki (Beau. 22) ← K Katagiri ← T Kushida. *Anomala costata* [Coleoptera: Scarabaeidae]. Nov 1971. Japan: Hachioji, Tokyo Prefecture. Identification verified genomically.
- 1067 TJ Poprawski ← S Keller (117). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 10 May 1982. Switzerland: Buhwil, Thurgau.
- 1068 TJ Poprawski ← S Keller (118). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 10 May 1982. Switzerland: Buhwil, Thurgau.
- 1069 TJ Poprawski ← S Keller (119). *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd Feb 1984. Switzerland. Mixture of 3 strains.
- 1070 TJ Poprawski ← S Keller (120). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Jul 1982. Switzerland: Breitenloo, Thurgau.
- 1071 TJ Poprawski ← S Keller (125). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 6 Jan 1983. Switzerland: Bleiken, Thurgau.
- 1072 TJ Poprawski ← S Keller (126). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 6 Jan 1983. Switzerland: Bleiken, Thurgau.
- 1076 S Keller (131). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 6 Jan 1983. Switzerland: Istighofen, Thurgau.
- 1077 S Keller (134). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 8 Dec 1983. Switzerland: Bleiken, Thurgau.
- 1431 MC Rombach (A). *Niphonoclea* sp. [Coleoptera: Cerambycidae] on forest litter. Apr 1984. Philippines: UPLB Botanical Garden, Los Baños, Manila.
- 2271 BT Forschler (RF-3). Adult, *Cyrtopistomus castaneus* [Coleoptera: Curculionidae]. Sep 1986. USA: Robinson Forest, Univ. of Kentucky, Breathitt County, Kentucky. Identification verified genomically.
- 2660 C Gopalakrishnan (31). Adult, [Coleoptera]. Rec'd Nov 1988. India.
- 3054 [MAF F1] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 4024 T Steenberg (226) ← A Kirkeby-Thomse. *Ips typographus* [Coleoptera: Scolytidae] on Sitka spruce. Rec'd Nov 1993. Denmark.
- 4380 LA Lacey (94141) ← CAAS (CZN.9301). [Coleoptera: Scarabaeidae]. 7 May 1994. Location not specified.
- 4381 LA Lacey (94142) ← CAAS (4pl). [Coleoptera: Scarabaeidae]. 7 May 1994. Location not specified.
- 4385 LA Lacey (94136). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou.

- 4386 LA Lacey (94137). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou.
- 4388 LA Lacey (94139). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou.
- 4389 LA Lacey (94131). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4458 LA Lacey (94127). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo Golf Course, Sapporo, Hokkaido.
- 4465 LA Lacey (94143). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4466 LA Lacey (94144). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4467 LA Lacey (94145). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4468 LA Lacey (94146). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4469 LA Lacey (94147). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4470 LA Lacey (94148). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4471 LA Lacey (94149). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4472 LA Lacey (94150). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4473 LA Lacey (94151). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4475 LA Lacey (94153). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4476 LA Lacey (94154). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4477 LA Lacey (94155). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4478 LA Lacey (94156). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4991 LA Lacey (95049). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4992 LA Lacey (95050). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4993 LA Lacey (95052). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4994 LA Lacey (95053). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4995 LA Lacey (95054). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 5355 LA Lacey (96015). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5356 LA Lacey (96016). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5357 LA Lacey (96017). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5358 LA Lacey (96018). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5359 LA Lacey (96019). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5360 LA Lacey (96020). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5361 LA Lacey (96021). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5362 LA Lacey (96022). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5363 LA Lacey (96023). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5364 LA Lacey (96024). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 6213 AE Hajek (1). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae] in leaf litter. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
- 6214 AE Hajek (2A). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
- 6215 AE Hajek (3A). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
- 6235 [RCEF 0385] *Anoplophora malasiaca* [Coleoptera: Cerambycidae]. Rec'd 24 Aug 1999. Japan.
- 6412 M Shimazu (F-1101). *Anoplophora malasiaca* [Coleoptera: Cerambycidae]. 8 Dec 1993. Japan: Kukisaki, Ibaraki Prefecture.
- 7268 JM Sung (EFCC 5119). [Coleoptera: Carabidae]. 14 Jul 2000. Republic of Korea: Undooryung, Kangwon-do. Identification verified genomically.
- 7528 S Keller (812). 3rd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 23 Oct 2002. Switzerland: Innertkirchen, Bern.
- 7761 [CBS 326.67; IMI 232818] *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd 10 Jun 2005. Netherlands.
- 9452 [SRCAMB VL-1582] V Likhovidov. Larva, [Coleoptera: Elateridae]. 14 Sep 2004. Russian Federation: Caucasus Mountains, Karachayevo-Cherkessiya Republ. Field Collection Number F-508.

Beauveria caledonica Bissett & Widden

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 1567 S Keller (D156). [Coleoptera: Scolytidae]. 14 Aug 1984. Switzerland: Siblingen, Schaffhausen. Identification verified genomically.
- 2251 IMI ← HC Evans (Ro 596). Adult, [Coleoptera]. Feb 1980. Brazil: Belém, Pará. Identification verified genomically.
- 8024 NV Meyling (KVL 03-70). *Amphimallon solstitiale* [Coleoptera: Scarabaeidae] from soil. 12 Jul 2000. Denmark: Jægerspris, Zealand. Identification verified genomically.
- 12963 M Barta (MK11) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 7 May 2012. Slovakia: Vysoké Tatry-Start. N 49.17913, E 20.25763.
- 12969 M Barta (MK205) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Hnilčik. N 48.85239, E 20.57028.
- 12972 M Barta (MK263) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Biele Vody. N 48.86796, E 20.40474.

Beauveria hoplocheli sp. nov.

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 13021 [MNHN RF-06107] L Costet. *Hoplochelus marginalis* [Coleoptera: Melolonthidae]. 1993. France: Sainte-Thérèse, Reunion Island. CULTURE EX TYPE.

Beauveria lii S. L. Zhang, B. Huang (sp. nov., unpublished)

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 11741 [RCEF 5500] B Huang. Larva, *Henosepilachna vigintioctopunctata* [Coleoptera: Coccinellidae] (XY20100923-63). 23 Sep 2010. PR China: Xunyi County, Xianyang City, Shaanxi Province. CULTURE EX TYPE. Sequence data: GenBank.

Beauveria malawiensis SA Rehner & Aquino de Muro

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7760 [IMI 228343] *Phoracantha semipunctata* [Coleoptera: Cerambycidae]. 4 May 1978. Malawi: Zomba, Southern. CULTURE EX TYPE.

Beauveria pseudobassiana SA Rehner & Humber

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 157 M Wojciechowska (1110). *Anthicus floralis* [Coleoptera: Anthicidae]. Rec'd 18 Jul 1977. Poland.
- 813 GG Soares (6). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.

- 814 GG Soares (10). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 1855 P Spencer and HS Whitney (R640). Adult, *Ips* sp. [Coleoptera: Scolytidae]. Jul 1984. Canada: Christina Lake, British Columbia. Identification verified genomically.
- 2557 S Sandoval (95). Adult, [Coleoptera: Cerambycidae]. Acc'd 18 Mar 1988. Ecuador.
- 3055 [MAF F6] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3063 [MAF F13] T Glare. *Sitona* sp. [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3065 [MAF F28] T Glare. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3066 [MAF F29] T Glare. *Paropsis charybdis* [Coleoptera: Chrysomelidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3070 [MAF F33] T Glare. *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Christchurch, South Island.
- 4274 [DAT 143] AC Rath (F143). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4721 [DAT 140] AC Rath (F140). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Spring 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4933 LA Lacey (95035). *Tomicus minor* [Coleoptera: Scolytidae] *Pinus nigra*. 4 Apr 1995. France: Saint-Etienne, de Gourgas.
- 5070 LA Lacey (95062). *Tomicus minor* [Coleoptera: Scolytidae]. 5 Oct 1995. France: Lodève, Hérault.
- 5622 I Vänninen (SF85-2). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 18 Jul 1985. Finland: Pernaja.
- 5668 BL Parker (SPT-010). [Coleoptera]. 18 Jan 1998. Turkey: Hurbit Mountain, Hatay.
- 5669 BL Parker (SPT-018). [Coleoptera: Scarabaeidae]. 19 Jan 1998. Turkey: Karadao Mountain, Yavuzeli, Gaziantep.
- 5678 BL Parker (SPT-020). [Coleoptera: Coccinellidae]. 19 Jan 1998. Turkey: Karadao Mountain, Yavuzeli, Gaziantep.
- 6229 [RCEF 0231] Adult, [Coleoptera: Scolytidae (Tribe Ipini)]. 8 Aug 1996. PR China: Guizhou Province. Identification verified genomically.
- 12959 M Barta (IK38) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 9 Apr 2012. Slovakia: Kykula. N 48.92580, E 17.87810.
- 12976 M Barta (MK331) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Bobrovec. N 49.28109, E 19.75058.

12981 M Barta (MK504) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. Summer 2012. Slovakia: Vrátna dolina. N 49.21028, E 19.0498.

Beauveria sungii SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

1685 M Shimazu (F-450). *Lachnosterna morosa* [Coleoptera: Scarabaeidae]. Acc'd 2 Nov 1984. Japan: Ibaraki Prefecture. CULTURE EX TYPE.

5689 JM Sung (KEFC-251). [Coleoptera: Scarabaeidae]. 20 Aug 1993. Republic of Korea: Gal-Cheon, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

7279 JM Sung (EFCC 5014). [Coleoptera: Chrysomelidae]. 11 Jul 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

7280 JM Sung (EFCC 5657). [Coleoptera: Chrysomelidae]. Aug 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

Beauveria varroae SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

2694 [IMI 328059] C Prior. *Larinus* sp. [Coleoptera: Curculionidae]. Rec'd 19 Mar 1989. Switzerland. Identification verified genomically.

***Candida* sp.**

[Saccharomycetes: Saccharomycetales]

All of these strains grow as yeasts with facultative capacities to attack cockroaches. It remains uncertain whether they can be primary pathogens or depend upon the host to be stressed, wounded, or otherwise compromised.

5729 TJ Poprawski. *Hypothenemus hampei* [Coleoptera: Scolytidae] from laboratory colony. Rec'd 20 May 1998. USA: Weslaco, Texas.

Cladosporium sphaerospermum Penzig

[Dothideomycetes: Capnodiales]

Mycosphaerellaceae

6516 RT Mayer. Larva, *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 10 May 2000. USA: Florida.

Clonostachys rosea (Link : Fries) Schroers, Samuels, Seifert & W Gams

[Sordariomycetes: Hypocreales]

Bionectriaceae

9491 [SRCAMB B-46] V Likhovidov ← BA Borisov.

Larva, [Coleoptera: Scarabaeidae]. Jul 2001. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-279.

11678 Z Demirbag (As11) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

11682 Z Demirbag (As15) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

11687 Z Demirbag (As20) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

***Conidiobolus* sp.**

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae. These strains include a heterogeneous assortment of fungi isolated as saprobes and as zoopathogens. Some may represent undescribed new species. Identifications of *Conidiobolus* species are made difficult by the relative lack of taxonomic characters and of any modern taxonomic attention.

Caution: Strains derived from mammalian mycoses should be treated as potentially hazardous; observe handling precautions noted for *Conidiobolus coronatus*.

80 RG Kenneth (3081) or (C.o. 15) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: alfalfa field, Sedé Eliyahu.

81 RG Kenneth (3082) or (C.o. 10) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: Sedé Eliyahu.

Conidiobolus coronatus (Costantin) Batko

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae. Major synonyms: *Entomophthora coronata* (Costantin) Kevorkian, *Conidiobolus villosus* Martin.

Caution: This species is known to cause human mycoses that are primarily tropical in occurrence and confined to the nasal passages and adjacent superficial areas. Avoid inhalation of conidia and do not handle cultures without gloves if unhealed cuts or abrasions are present. This species has low pathogenicity for mammals and should be relatively safe if handled with good microbiological technique.

1572 S Keller (490). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

1573 S Keller (491). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

1574 S Keller (493). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

1575 S Keller (494). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

Conidiobolus osmodes Drechsler

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae

79 [FPMI 695] RG Kenneth (3080) or (3) ← A Uziel.

Larva, *Hypera variabilis* [Coleoptera: Curculionidae].
Mar 1976. Israel: Sedé Eliyahu.

***Cordyceps* sp.**

[Sordariomycetes: Hypocreales]

Family cannot be determined since this genus in its old,
broad sense is now segregated among several genera in
three families

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- 3718 RA LeBrun ← J Hanula (C-4). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 4852 JM Sung (C-331). Adult, *Sitophilus oryzae* [Coleoptera: Curculionidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.
- 7848 [SRCAMB B-47] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Scarabaeidae] Isolated from stroma. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-200.

***Cordyceps brongniartii* Shimazu**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

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- 7516 M Shimazu (F-621). Larva, *Anomala cuprea* [Coleoptera: Scarabaeidae]. 27 Jul 1987. Japan: Nishidake, Nagano Prefecture. Isolated from a perithecium. Anamorph is *Beauveria brongniartii*. Identification verified genomically.
- 7517 M Shimazu (F-638). Larva, *Anomala cuprea* [Coleoptera: Scarabaeidae]. 16 Apr 1988. Laboratory manipulation. Isolated from an ascospore. Anamorph is *Beauveria brongniartii*. Identification verified genomically.

***Cordyceps scarabaeicola* Kobayasi**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Anamorph: *Beauveria*

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- 7277 JM Sung (EFCC 2533). [Coleoptera: Chrysomelidae]. 6 Aug 1998. Nepal.
- 7278 JM Sung (EFCC 2535). [Coleoptera: Chrysomelidae]. 6 Aug 1998. Nepal.

***Engyodontium rectidentatum* (Matsush.) W. Gams,**

de Hoog, Samson & H.C. Evans

[Sordariomycetes: Hypocreales]

Cordycipitaceae

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- 7805 [SRCAMB B-158] V Likhovidov ← BA Borisov. [Coleoptera: Scarabaeidae] Isolated from unripened stroma. 9 Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-269.

***Erynia* sp.**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae. Strains included here were not sufficiently identifiable to the species and have not been reidentified since publication of the entomophthoralean taxonomy used here (see Humber, 1989, Mycotaxon 34:441-460). In this classification these strains would be reassigned to *Pandora* Humber, *Furia* (Batko) Humber, *Erynia* (Nowakowski ex Batko) Remaudière & Hennebert, or *Zoophthora* Batko.

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- 2525 J Eilenberg (KVL 34). *Rhagonycha fulva* [Coleoptera: Cantharidae]. Aug 1987. Denmark: Holmegaards Mose, Zeeland.
- 2536 J Eilenberg (KVL 18). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zeeland.
- 2537 J Eilenberg (KVL 23). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zeeland.
- 2538 J Eilenberg (KVL 20). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zeeland.
- 2539 J Eilenberg (KVL 22). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zeeland.
- 2553 [ARSEF 2662 (deaccessioned)] J Eilenberg (KVL 19) and J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zeeland.
- 2662 [ARSEF 2553] J Eilenberg (KVL 19) and J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zeeland.
- 2663 J Eilenberg (KVL 33) ← J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. Aug 1987. Denmark: Holmegaards Mose, Zeeland.
- 2664 J Eilenberg (KVL 40). [Coleoptera: Cantharidae]. Jun 1987. Denmark: Brogaard, Lammfjorden.
- 5352 KT Hodge. Adult, [Coleoptera: Cantharidae] Willow. 18 Jun 1996. USA: German Cross Road, Dryden, New York.

***Evlachovaea* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

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- 1017 HS Whitney (R599). Adult, *Dendroctonus rufipennis* [Coleoptera: Scolytidae]. Jun 1975. Canada: nr. Hixon, British Columbia.
- 7403 G Zimmermann (E 1622/01) ← U Heimbach. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Oct 2001. Germany: Neustadt an der Weinstrasse, Rheinhessen-Pfalz.
- 7551 [CIAT 301] A Gaigl. *Phyllophaga menetriesi* [Coleoptera: Scarabaeidae]. 14 Jan 2004. Colombia: Caldono, Cauca. 1500 m elevation.

Evlachovaea kintrischica Borisov & Tarasov

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7218 [CMPPB 150; SRCAMB B-184] V Likhovidov ← BA Borisov (B.B. 2). *Agelastica alni* [Coleoptera: Chrysomelidae] in litter. 21 Sep 1991. Republic of Georgia: Kintrishi Valley, near Cordon Tskhemlovani, Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. 360 m elevation. Field Collection Number F-306. CULTURE EX TYPE.
- 8058 [CMPPB 150; SRCAMB B-184] V Likhovidov ← BA Borisov (B.B. 2). *Agelastica alni* [Coleoptera: Chrysomelidae] in litter. 21 Sep 1991. Republic of Georgia: Kintrishi Valley, near Cordon Tskhemlovani, Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. 360 m elevation. Field Collection Number F-306. CULTURE EX TYPE.

***Fusarium* sp.**

[Sordariomycetes: Hypocreales]

Nectriaceae

- 3030 [NRRL 25097] W Mechaber (weevil#1318). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 3031 [NRRL 25098] W Mechaber (weevil#1334). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 3032 [NRRL 25099] W Mechaber (weevil#1354). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 4011 [NRRL 25123] T Steenberg (193) ← J Martin. *Lilioceris lili* [Coleoptera: Chrysomelidae]. Jun 1989. Denmark: Garden of Agricultural University, Zealand.
- 5461 TJ Poprawski (TJP926) ← G Mercadier (EBCL 97031). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi. 89099.
- 5875 FE Vega (EBCL 98004). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5878 FE Vega (EBCL 98011). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5879 FE Vega (EBCL 98012). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 19 Oct 1997. Uganda: Chesogok.
- 7063 RA Humber (2A). *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Jul 2001. Indonesia: Konaweha, Sulawesi.
- 8131 [NRRL 52740] LS Bauer and H Liu (MF-221). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8266 [NRRL 52741] RJ Pereault (Walton Spray pci#3). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 9273 Z Demirbag and E Tanyeli (Dm-7). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9274 Z Demirbag and E Tanyeli (Dm-8). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 11670 Z Demirbag (As3) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11671 Z Demirbag (As4) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11672 Z Demirbag (As5) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11673 Z Demirbag (As6) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11674 Z Demirbag (As7) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11675 Z Demirbag (As8) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11677 Z Demirbag (As10) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11679 Z Demirbag (As12) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11680 Z Demirbag (As13) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11684 Z Demirbag (As17) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 12461 S Simeto (1380). *Hylurgus ligniperda* [Coleoptera: Curculionidae] on pine. Rec'd 5 Nov 2013. Uruguay.

Fusarium commune Skovgaard, O'Donnell & Nirenberg

[Sordariomycetes: Hypocreales]

Family Nectriaceae. Family Nectriaceae. Identification of these isolates were genomically determined (see O'Donnell et al., 2012, Mycologia 104: 427-445; doi 10.3852/11-179).

- 4825 [NRRL 52764] JD Vandenberg (27-2). Adult, *Oti-orhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.

Fusarium nygamai Burgess & Trimboli
[Sordariomycetes: Hypocreales]
Nectriaceae

6602 [NRRL 52701] FE Vega. *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 28 Sep 2000. Colombia: Caldas.

Fusarium proliferatum (Matsushima) Nirenberg ex Gerlach & Nirenberg
[Sordariomycetes: Hypocreales]
Family Nectriaceae. Family Nectriaceae. Identification of these isolates were genomically determined (see O'Donnell et al., 2012, Mycologia 104: 427-445; doi 10.3852/11-179).

1310 [NRRL 25082] TJ Poprawski (A9). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.

2568 [NRRL 25091] F Agudelo-Silva ← RL Bugg. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Nov 1987. USA: Tifton, Georgia.

2569 [NRRL 25092] F Agudelo-Silva ← RL Bugg. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Nov 1987. USA: Tifton, Georgia.

8267 [NRRL 52743] RJ Pereault (Walton Control pci#1). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.

Harposporium janus Shimazu & Glockling
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

5601 SL Glockling. Larva, [Coleoptera: Cerambycidae] on tree trunk. Rec'd 2 Dec 1997. Japan.

Hirsutella eleutheratorum (Nees) Petch
[Sordariomycetes: Hypocreales]

13375 [SP Wraight] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Jun 2017. USA: Smith Farm, Captain Cook, District of South Kona, Hawai'i.

Hirsutella fusiformis Speare
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

5474 [ATCC 32804; CBS 205.33] *Brachyderes incanus* [Coleoptera: Curculionidae]. Rec'd 13 May 1997. Netherlands.

Hirsutella thompsonii Fisher
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae. The separation of *H. thompsonii* into two varieties based on whether synnemata may or may not form in culture is unreliable and probably artificial. Some strains included may form synnemata but do not do so consistently; these strains could be recognized as *Hirsutella thompsonii* var. *synnematos* Samson, McCoy & O'Donnell if accepting this variety as a legitimate taxon.

11819 [ERL 2033] S Gouli and V Gouli (THR-11-22).

[Coleoptera: Carabidae]. 2011. USA: Underhill, Vermont.

Isaria sp.
[Sordariomycetes: Hypocreales]
Cordycipitaceae

9519 [SRCAMB VL-1914/1] V Likhovidov. Larva, [Coleoptera]. 22 Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-853.

Isaria amoenerosea P. Hennings
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces amoeneroseus* (Hennings) Samson. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

741 [CNPAF 82-1-15-06; CP 19] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.

744 [CNPAF 82-2-15-05; CP 26] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

2220 [CNPAF 86-06-05-4; CP 216] DW Roberts ← GS da Silva. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

2958 CENARGEN (CG 162). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.

2959 CENARGEN (CG 163). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.

2960 CENARGEN (CG 164). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.

4097 LA Lacey (94007). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 28 Mar 1994. Brazil.

4849 JM Sung (C-321). Adult, [Coleoptera: Meloidae]. 14 Jul 1994. Republic of Korea: Chiag Mt., Kangwondo.

Isaria cateniannulata (ZQ Liang) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

6241 [RCEF 0464] [Coleoptera: Curculionidae]. 8 Jul 1998. PR China: Anhui.

6243 [RCEF 0516] *Brachyderes incanus* [Coleoptera: Curculionidae]. 27 Jan 1999. PR China: Anhui.

Isaria cateniobliqua (ZQ Liang) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

6244 [RCEF 0189] Adult, [Coleoptera]. Rec'd 24 Aug 1999. PR China: Anhui.

Isaria coleopterorum (Samson & HC Evans) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

9509 [SRCAMB VL-2091] V Likhovidov. [Coleoptera: Lampyridae]. 25 Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-1086.

Isaria farinosa (Holmsk.) Fries
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces farinosus* (Holmsk. ex Gray) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*. Teleomorph: *Cordyceps memorabilis* Ces.

799 DA Rodriguez Sierra ← A López. Pupa, *Premnotrypes vorax* [Coleoptera: Curculionidae]. Nov 1981. Colombia: Tibaitata, Mosquera, Nariño.

1507 I Majchrowicz (61) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.

1508 I Majchrowicz (76) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.

1957 [CNPAF 85-7-22-1; CP 182] JC Lord and BP Magalhães. *Lagria vilosa* [Coleoptera: Lagriidae]. 22 Jul 1985. Brazil: União dos Palmars, Alagoas.

2355 [ARSEF 2379 (never frozen)] MC Rombach (201286-7). [Coleoptera]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.

2379 [ARSEF 2355] MC Rombach (201286-7). [Coleoptera]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.

2431 F Agudelo-Silva (10S87). *Otiorynchus sulcatus* [Coleoptera: Curculionidae] on cranberries. 1987. USA: Oregon.

2937 EcoScience Corporation (32-51) ← LJ Dapsis. *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. Aug 1989. USA: Oregon.

2973 C López Lastra. Larva, *Cylcocephala signaticolis* [Coleoptera: Scarabaeidae]. 10 Sep 1986. Argentina: Salto, Buenos Aires.

4029 T Steenberg (234) ← CW Riedel. *Agonum dorsale* [Coleoptera: Carabidae]. Jan 1991. Denmark: Menstrup, Zealand.

4039 T Steenberg (259). *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.

4040 T Steenberg (260) ← L Øgaard. *Staphylinus olens* [Coleoptera: Staphylinidae]. Oct 1991. Denmark: Bagsværd, Zealand.

4043 T Steenberg (269) ← CW Riedel. *Bembidion lampros* [Coleoptera: Carabidae]. Jan 1991. Denmark.

4044 T Steenberg (270). *Agonum dorsale* [Coleoptera: Carabidae]. Jan 1991. Denmark.

4045 T Steenberg (274) ← V Langer. Larva, *Hapalus* sp. [Coleoptera: Carabidae]. Nov 1991. Denmark: Copenhagen, Tåstrup, Zealand.

5073 LA Lacey (95065). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.

5074 LA Lacey (95066). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.

5075 LA Lacey (95067). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.

5080 LA Lacey (95069). [Coleoptera: Cerambycidae]. 16 Nov 1995. France: Saint-Etienne, de Gourgas.

5699 JM Sung (KEFC-1170). [Coleoptera: Tenebrionidae]. 9 Jul 1997. Republic of Korea: Yongmoon Mt., Gyeonggi Province.

5754 BL Parker (SPT 012). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hirshito Ht., Gaziantep, Gaziantep.

5834 BL Parker (SPT 013/2). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.

5858 T Steenberg (SSL 610). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Feb 1997. Denmark: Broiler house, Øster Sottrup, Jutland.

6488 BL Parker (SPT-KZ-418). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS.**

contact Curator

6489 BL Parker (SPT-KZ-419). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS.**

contact Curator

6491 BL Parker (SPT-KZ-423). Adult, [Coleoptera: Chrysomelidae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°23.081' E 077°34.126'. **RESTRICTED ACCESS.**

contact Curator

7276 JM Sung (EFCC 9251). [Coleoptera: Cerambycidae]. 23 Aug 2002. Republic of Korea: Seolag Mt., Kangwon-do.

8411 AE Hajek (02 NY 5-6-1). Adult, cadaver, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 10 Sep 2002. USA: Quarantine colony, Ithaca, New York.

8917 [ERL 253] BL Parker (AVRDC 0482B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

9269 Z Demirbag and E Tanyeli (Dm-3). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.

9270 Z Demirbag and E Tanyeli (Dm-4). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.

- 9275 Z Demirbag and E Tanyeli (Dm-9). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9276 Z Demirbag and E Tanyeli (Dm-10). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9277 Z Demirbag and E Tanyeli (Dm-11). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9278 Z Demirbag and E Tanyeli (Dm-12). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9511 [SRCAMB VL-1587/3] V Likhovidov. [Coleoptera: Silphidae]. 14 Sep 2004. Russian Federation: Caucasus region, Karachayev-Cherkessiya Republ. Field Collection Number F-525.
- 9516 [SRCAMB B-405/2] V Likhovidov ← BA Borisov. [Coleoptera]. Oct 2003. Ukraine: Kherson Oblast. Field Collection Number F-930.
- 9944 LS Bauer (Legg Park 1). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Rec'd 14 Apr 2010. USA: Legg Park, Okemos, Michigan.
- 9945 LS Bauer (Legg Park 2). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Rec'd 14 Apr 2010. USA: Legg Park, Okemos, Michigan.
- 11827 [ERL 2039] S Gouli and V Gouli (THR-11-28). [Coleoptera: Tenebrionidae]. 2011. USA: Richford, Vermont.
- 11830 [ERL 2042] S Gouli (THR-11-31) and V Gouli. [Coleoptera: Curculionidae]. 2011. USA: Richford, Vermont.
- 11831 [ERL 2043] S Gouli and V Gouli (THR-11-32). [Coleoptera: Carabidae]. 2011. USA: Richford, Vermont.
- Isaria fumosorosea* Wize**
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces fumosoroseus* (Wize) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.
- 722 [CNPAF 82-1-15-05; CP 18] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 1506 I Majchrowicz (71) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 2216 [CNPAF 86-06-05-1; CP 212] DW Roberts ← PMOJ Neves. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2217 [CNPAF 86-06-02-2; CP 213] DW Roberts ← OS Ohashi. *Lagria vilosa* [Coleoptera: Lagriidae]. 2 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2219 [CNPAF 86-06-05-3; CP 215] DW Roberts ← DMF Capalbo. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2221 [CNPAF 86-06-05-1; CP 217] DW Roberts ← OS Ohashi. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2679 AS Martins. 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Portugal: Terceira Island, Azores.
- 2956 CENARGEN (CG 123). *Spaethiella* sp. [Coleoptera: Chrysomelidae]. Rec'd 14 Mar 1990. Brazil: Manaus, Amazonas.
- 5627 I Vänninen (SF86-82). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Kymenlaakso.
- 5694 JM Sung (KEFC-919). [Coleoptera]. 28 Jun 1996. Republic of Korea: Book-Bang, Hong-Cheon Kun, Kangwon-do.
- 5844 T Steenberg (SSL 58). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5845 T Steenberg (SSL 59). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5846 T Steenberg (SSL 61). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5847 T Steenberg (SSL 62). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 6730 FE Vega (EBCL 97054). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 23 Feb 2001. Ivory Coast.
- 7284 FE Vega (MPM-5). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jan 2004. Mexico: Tapachula, Chiapas.
- 7716 [SRCAMB B-173] V Likhovidov ← BA Borisov. [Coleoptera]. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-189.
- 8142 LS Bauer and H Liu (MF-233). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8840 [CSIRO FI-1275] [Coleoptera: Chrysomelidae]. 5 Aug 1998. Australia: Tasmania.
- 8892 [CSIRO FI-1296] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from insect A11. 22 Dec 1998. Australia: Condong, New South Wales.
- 9521 [SRCAMB VL-2057] V Likhovidov. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Aug 2000. Ukraine: Kherson Oblast. Field Collection Number F-749.
- 9602 X Zou (9). [Coleoptera]. Rec'd 19 Jan 2010. PR China: Guizhou Province.

Isaria javanica (Friederichs & Bally) Samson & Hywel-Jones

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Major synonym: *Paecilomyces javanicus* (Friederichs & Bally) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

322 GR Buckingham. *Litodactylus leucogaster* [Coleoptera: Curculionidae]. Dec 1978. USA: Gainesville, Florida.

7119 HE Cabanillas. Adult, [Coleoptera] on wild olive tree. 29 Oct 2002. USA: Weslaco, Texas.

***Lecanicillium* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

7635 [SRCAMB B-255] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps corallomyces*. 12 Aug 2003. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-323.

7636 [SRCAMB B-260] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps stylophora*. 11 Jul 2003. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-340.

9459 [SRCAMB VL-1587/2] V Likhovidov. [Coleoptera: Silphidae]. 14 Sep 2004. Russian Federation: Caucasus region, Karachayevo-Cherkessiya Republ. Field Collection Number F-524.

***Lecanicillium evansii*(?) Zare & W. Gams**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

11805 [ERL 2063] S Gouli and V Gouli (THR-11-52). Larva, [Coleoptera]. 2011. USA: Debry, Vermont.

Lecanicillium fungicola (Preuss) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Synonym: *Lecanicillium fungicola* (Preuss) Hassebrauk

9483 [SRCAMB VL-2063] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from *Cordyceps* sp. Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-928.

Lecanicillium lecanii (Zimmermann) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas. Teleomorph: *Cordyceps confragosa* (Mains) GH Sung, JM Sung, Hywel-Jones & Spatafora [basonym: *Torrubiella confragosa* Mains]

1505 I Majchrowicz (70) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.

7181 H Liu (MSUFS-701). Adult, *Plectrodera scalator* [Coleoptera: Cerambycidae] from laboratory colony. 18 Dec 2001. USA: East Lansing, Michigan.

7182 H Liu (MSUFS-702). Adult, *Plectrodera scalator* [Coleoptera: Cerambycidae] from laboratory colony. 18 Dec 2001. USA: East Lansing, Michigan.

8115 LS Bauer and H Liu (MF-204). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.

Lecanicillium longisporum (Petch) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

4050 T Steenberg (299). *Tachyporus hypnorum* [Coleoptera: Staphylinidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.

Lecanicillium muscarium (Petch) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

1328 TJ Poprawski (084). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 17 May 1983. France: Chichery.

1335 S Balazy (1539). Larva, *Malachius bipustulatus* [Coleoptera: Melyridae] under the stem bark of *Quercus robur* in leafy forest. 24 Apr 1983. Poland: Wielkopolski National Park.

1401 TJ Poprawski (089). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.

1402 TJ Poprawski (090). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.

1403 TJ Poprawski (091). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.

4033 T Steenberg (239). *Sitona lineatus* [Coleoptera: Curculionidae]. Mar 1991. Denmark: Næstved, Zealand.

4036 T Steenberg (244). Pupa, *Dendroctonus micans* [Coleoptera: Scolytidae]. Rec'd Nov 1993. Denmark.

7248 JM Sung (EFCC 2011). [Coleoptera: Curculionidae]. 20 May 1998. Republic of Korea: Guryungryung, Kangwon-do.

8048 HH Kope (PFC 5). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Eve River, Vancouver Island, British Columbia. 50°17' N, 126°18' W.

8049 HH Kope (PFC 6). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Eve River, Vancouver Island, British Columbia. 50°17' N, 126°18' W.

8050 HH Kope (PFC 9). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.

- 8051 HH Kope (PFC 10). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Nimpkish, Vancouver Island, British Columbia. 50°19' N, 126°54' W.
- 8052 HH Kope (PFC 11). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Nimpkish, Vancouver Island, British Columbia. 50°19' N, 126°54' W.
- 8053 HH Kope (PFC 12). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Cowichan Lake, Vancouver Island, British Columbia. 48°50' N, 124°06' W.
- 8054 HH Kope (PFC 15). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8114 LS Bauer and H Liu (MF-203). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8118 LS Bauer and H Liu (MF-208). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8157 LS Bauer and H Liu (MF-248). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8163 LS Bauer and H Liu (MF-254). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Ann Arbor, Michigan.
- 8165 LS Bauer and H Liu (MF-257). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Ann Arbor, Michigan.
- 8923 [ERL 281] BL Parker (AVRDC 0588B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9267 Z Demirbag and E Tanyeli (Dm-1). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 9268 Z Demirbag and E Tanyeli (Dm-2). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 11803 [ERL 2061] S Gouli and V Gouli (THR-11-50). *Ips* sp. [Coleoptera: Scolytidae]. 2011. USA: Orford, New Hampshire.
- Lecanicillium muscarium*(?)** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.
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- 8162 LS Bauer and H Liu (MF-253). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Ann Arbor, Michigan.
- 8265 RJ Pereault (Walton Spray pci#2). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- Lecanicillium* nr. *aranearum*** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Reclassified from *Verticillium* Section Prostrata for phylogenetically required reasons.
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- 9460 [SRCAMB VL-2092] V Likhovidov. [Coleoptera: Lampyridae]. 25 Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-1104.
- 11799 [ERL 2057] S Gouli and V Gouli (THR-11-46). *Ips* sp. [Coleoptera: Scolytidae]. 2011. USA: Debry, Vermont.
- 11811 [ERL 2071] S Gouli and V Gouli (THR-11-60). [Coleoptera: Elateridae]. 2011. USA: Sharon Springs, New York.
- Lecanicillium pissodis*** Kope & I. Leal
[Sordariomycetes: Hypocreales]
Cordycipitaceae
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- 8055 [DAVFP 29230] HH Kope (PFC 17). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8056 [DAVFP 29231] HH Kope (PFC 18). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8057 [CBS 118231; DAVFP 29232] HH Kope (PFC 19). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W. CULTURE EX TYPE.
- Lecanicillium* sp. 2(?)** sensu W. Gams & Zare
[Sordariomycetes: Hypocreales]
Cordycipitaceae
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- 2832 SR Sánchez Peña (2). [Coleoptera]. Jul 1987. Mexico: elev. 2900 m, Pseudotsuga-Abies forest, Pueblo Nuevo, Durango.
- Metapochonia bulbilosa*(?)** (W Gams & Malla) Zare & W Gams
[Sordariomycetes: Hypocreales]
Clavicipitaceae.
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- 3035 W Mechaber (weevil#2209). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Gaylussacia baccata*. 20 May 1990. USA: Carver, Massachusetts.
- Metarhizium* sp.**
[Sordariomycetes: Hypocreales]
Clavicipitaceae
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- 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.
- 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.
- 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.
- 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.
- 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.
- 11849 [ERL 2030] S Gouli (THR-11-20) and V Gouli. [Coleoptera: Chrysomelidae]. 2011. USA: Underhill, Vermont.
- 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.
- 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.
- 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).
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- 347 *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Australia: Adelaide, South Australia.
- 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.
- 760 [CNPAF 82-2-15-03; CP 31] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 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, *Otiiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 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.
- 954 [CNPAF 83-03-16L; CP 99] RA Daoust and BP Magalhães. [Coleoptera: Bruchidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 1056 [CNPS 25] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1078 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae]. Western Samoa: Upolu Island.
- 1280 DW Roberts (MaT3JB-C) or (single spore isolate #1). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1377 [ARSEF ?396] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.
- 1452 [ARSEF 1989; CNPAF 53; CP 126] F Moscardi. *Sternechus subsignatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Soybean Center, Londrina, Paraná.
- 1885 [CP 174] DW Roberts ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 23 Apr 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1901 DW Roberts ← MA Naves (CG-6). [Coleoptera: Carabidae]. Jan 1980. Brazil: Pará.
- 1903 DW Roberts (103a). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA.
- 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.

- 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.
- 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.
- 2331 PI Espinosa Camarena. *Rhynchophorus palmarum* [Coleoptera: Curculionidae]. 1986. Mexico: Zapotlanejo, Jalisco.
- 2432 F Agudelo-Silva (20S87). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae] on cranberries. 1987. USA: Oregon.
- 2513 [CP 236A] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2548 SV Krueger ← FL Consolie and MG Villani. *Popillia japonica* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Sleepy Hollow, New York.
- 2635 [CNPAF 88-5-6B; CP 253] DW Roberts ← E Dias Quintela. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2941 [CP 272] SP Wraight ← DR Sosa-Gómez. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 3057 [MAF F12] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3148 INRA (Ma-181) ← A Caudal. *Haphochelus marginalis* [Coleoptera]. May 1983. France: Réunion.
- 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.
- 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.
- 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.
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- 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.
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- 6551 D Chandler (HRI 335.92). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 13 Jul 2000. United Kingdom.
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- 7496 [CSIRO FI-1402] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 13 Apr 2000. Australia: Bundaberg, Queensland.
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- 7854 [CSIRO FI-0190] Adult, *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 5 Feb 1987. Australia: Maryborough, Queensland.
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- 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.
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- 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.
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- 8799 [ERL 334] BL Parker (AVRDC 0168B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 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.
- 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.

- 8955 [ERL 346] BL Parker (AVRDC 0398B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 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.
- 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.
- 10469 [CSIRO FI-1045] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Patented, commercialized strain (Bio-Cane). **RESTRICTED ACCESS: consult Curator.**
- 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.
- 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.
- 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.
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- 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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- 2223 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae] from artificial production. Jun 1986. Western Samoa: Vaoala, Apia.
- 2518 [CP 224] *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 8 Dec 1987. New Zealand.
- 3924 DR Sosa-Gómez (CNPSo-Ma58) ← LJ Oliveira. *Phyllophaga cuyabana* [Coleoptera: Scarabaeidae]. 22 Nov 1990. Brazil: Boa Esperança, Paraná.
- 6546 D Chandler (HRI 36.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.
- 7450 [CSIRO FI-0976] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 11 Jun 1992. Australia: Queensland.
- 8500 [CSIRO FI-0522] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 27 Jun 1989. Australia: Kingaroy, Queensland.
- 8586 [CSIRO FI-0910] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.
- 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.
- 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.
- 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.

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 al-bohirtum* [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 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.
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.
1066 [ARSEF ?397] TJ Poprawski ← S Keller (92). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 29 May 1981. Switzerland: Iselisberg.
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: Baritiwuring (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.
2224 MC Rombach (140486). [Coleoptera: Curculionidae]. 14 Apr 1986. Indonesia.
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 (F124). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 May 1986. Australia.
4131 [DAT 10] AC Rath (F010). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Waitpinga, South Australia.

- 4228 [CRI 35-79; DAT 120] AC Rath (F120) ← AT Gillespie. Larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 28 Jan 1988. Australia: Crops Research Inst..
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.
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.
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.
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.

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.

- 11836 [ERL 2048] S Gouli (THR-11-37) and V Gouli.

[Coleoptera: Staphylinidae]. 2011. USA: Sharon Springs, New York.

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).

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.

4719 [DAT 130] AC Rath (F130). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Campbelltown, Tasmania. Genomically verified (see Bischoff et al. 2009).

4720 [DAT 133] AC Rath (F133). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Mt. Morriston, Ross, Tasmania. Not genomically verified by sequence data.

8737 [CSIRO FI-1002] *Lachnosterna bidentata* [Coleoptera: Scarabaeidae]. 11 May 1993. Malaysia: Tapah. 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.

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.

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.

3603 IMI (152222) ← Deshpande. *Myloccerus discolor* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. India: Mudigere.

4604 [DAT 473] AC Rath (F473) ← W Theunis (PNG 1). *Papuana woodlarkiana* [Coleoptera: Scarabaeidae]. 22 Jun 1993. Papua New Guinea: Lae, Morobe Province.

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.

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.

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 *Metarhizium anisopliae* var. *lepidiotae*.

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.

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.

978 [GCRI 148-82] RA Hall ← A Vey. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.

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.
- 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: Lehighlands, 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.
- 12557 O Nishi (Hn1) and S Shimizu. *Protaetia orientalis submarumorea* [Coleoptera: Scarabaeidae]. Mar 2010. Japan: Fukuoka Prefecture.
- 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.
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- 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.
- 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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- 538 DW Roberts. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 20 Aug 1980. Thailand.
- 2162 BN Muthappa (PNG 12721). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2231 K Narayanan (7). *Zygommatia bicolorata* [Coleoptera: Chrysomelidae]. Rec'd 27 Aug 1986. India.
- 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.
- 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.
- 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.
- 7417 [CSIRO FI-0295] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Australia: Bundaberg, Queensland.
- 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.
- 8420 AE Hajek (WU19). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.
- 8555 [CSIRO FI-0817] Larva, *Heteronyx arator* [Coleoptera: Scarabaeidae]. 19 Feb 1991. Australia: Busselton, Western Australia.
- 8566 [CSIRO FI-0875] *Heteronyx rugosipennis* [Coleoptera: Scarabaeidae]. 26 Aug 1991. Australia: Clermont, Queensland.
- 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.

- 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.
-
- 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.
- 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.
- 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.
- 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.
- 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.
- 2981 T Searle (CWMA). Larva, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 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.
- 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.
- 4123 [ARSEF 2547] L Marold (ARSEF2547). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Rec'd 2 May 1994. USA: Syracuse, New York. Replaces ARSEF 2547.
- 5149 DL Hostetter (T100) ← IOB Armas. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 23 Jan 1996. Portugal: Terceira Island, Azores.
- 6472 SR Grugel. *Dectes texanus* [Coleoptera: Cerambycidae]. 3 Nov 1998. USA: Goodland, Kansas.
- 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.
- 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.
- 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.
- Mixed Culture sp.**
The two members in these mixed cultures have not been successfully separated.
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- 1043 J Aoki (Paec. 1). *Pyrrhalta fuscipennis* [Coleoptera: Chrysomelidae]. May 1973. Japan: Towada City, Aomori Prefecture. Single Spore Isolation attempted 8vi95. Mixture of PAESP @ VERTSP.
- 4387 LA Lacey (94138). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou. *Paecilomyces fumosoroseus* and *Beauveria brongniartii*.
- 5188 S Gouli (GA-98). [Coleoptera: Lampyridae]. 26 May 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 11676 Z Demirbag (As9) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11718 T Wen (BB-10). Larva, [Coleoptera]. 2011. PR China: Kunming, Yunnan Province.
- Mucor circinelloides** van Tieghem
[Mucormycotina: Mucorales]
Mucoraceae
-
- 6470 LS Bauer (2UIC2463). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from laboratory colony, USDA Forest Service, NCRS. Rec'd 19 Feb 2000. USA: East Lansing, Michigan.
- Ophiocordyceps aphodii** (Mathieson) GH Sung, JM Sung, Hywel-Jones & Spatafora
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae. Synonym: *Cordyceps aphodii* Mathieson
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- 5498 [ATCC 34178; CBS 150.47] Larva, *Aphodius howitti* [Coleoptera: Scarabaeidae]. Rec'd 5 Jun 1997. Location not specified.
- Paecilomyces sp.**
[Sordariomycetes: Hypocreales]
These still unidentified species has yet been assigned to a correct genus after the recent gene-based reclassification of species out of *Paecilomyces* Section *Isarioidea*; this original generic identification remains provisional until a more thorough analyses of these isolates are completed.
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- 5184 S Gouli (GA-94). [Coleoptera: Curculionidae]. 25 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5193 S Gouli (GA-103). [Coleoptera: Curculionidae]. 23 Jun 1995. USA: R. Angellilo's sugar maple stand, North Field, Vermont.
- 5196 M Browning ← RA LeBrun. Adult, *Galerucella calamariensis* [Coleoptera: Chrysomelidae]. Rec'd 20 May 1996. USA: URI, Kingston, Rhode Island.
- Paecilomyces canadensis** (Vuillemin) Brown & Smith
[Sordariomycetes: Hypocreales]
This species is usually treated as a synonym of *Isaria farinosa* but both this and any ultimate reclassification remain to be determined.
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- 984 [FPMI 757] J Aoki (Paec. 6) ← K Katagiri ← T Kushida. *Heptophylla picea* [Coleoptera: Scarabaeidae]. Feb 1972. Japan: Hachioji, Tokyo Prefecture.

Pandora blunckii (Lakon ex Zimmerman) Humber
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 915 S Keller (426). *Athalia rosae* [Coleoptera: Elateridae].
1 Sep 1982. Switzerland.
917 S Keller (425). *Athalia rosae* [Coleoptera: Elateridae].
1 Sep 1982. Switzerland: Zürich.
920 S Keller (430). *Athalia rosae* [Coleoptera: Elateridae].
1 Sep 1982. Switzerland: Zürich.
1715 S Keller (514). *Athalia rosae* [Coleoptera: Elateridae].
3 Oct 1984. Switzerland: Reckenholz, Zurich.
1716 S Keller (515). *Athalia rosae* [Coleoptera: Elateridae].
3 Oct 1984. Switzerland: Reckenholz, Zurich.
1717 S Keller (516). *Athalia rosae* [Coleoptera: Elateridae].
3 Oct 1984. Switzerland: Reckenholz, Zurich.
1718 S Keller (517). *Athalia rosae* [Coleoptera: Elateridae].
3 Oct 1984. Switzerland: Reckenholz, Zurich.

Paraisaria dubia Samson & BL Brady
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

- 5764 DG Holdom (900118-01). Larva, *Antitrogus rugulosus*
[Coleoptera: Scarabaeidae: Melolonthinae] under
sugar cane, in sandy soil. Sep 1990. Australia: On
the coastal plain south of Brisbane, Rocky Point,
Queensland.

Penicillium sp.
[Eurotiomycetes: Eurotiales]

Trichocomaceae. No species of this genus have been
satisfactorily demonstrated to be a primary pathogen of
insects. Its presence on or in insect cadavers should be
interpreted as necrophytic or accidental.

- 348 *Aphodius tasmaniae* [Coleoptera: Scarabaeidae].
Australia: Adelaide, South Australia.
2950 [CP 278] SP Wraight ← E Dias Quintela. *Chalcoder-
mus bimaculatus* [Coleoptera: Curculionidae]. 23 Jun
1989. Brazil: CNPAF, Goiânia, Goiás.
3036 W Mechaber (weevil#2272). Adult, *Anthonomus
musculus* [Coleoptera: Curculionidae] on *Vaccinium
angustifolium*. 20 May 1990. USA: Carver, Mas-
sachusetts.
11681 Z Demirbag (As14) ← S Kocaçevik. *Amphimallon
solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011.
Turkey: Trabzon City, Trabzon.
11683 Z Demirbag (As16) ← S Kocaçevik. *Amphimallon
solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011.
Turkey: Trabzon City, Trabzon.

Pochonia chlamydosporia (Goddard) Zare & W
Gams
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Major synonym: *Verticillium chlamy-
dosporium* Goddard

- 3314 M Brownbridge. Larva, [Coleoptera: Scarabaeidae].

Rec'd 19 Mar 1991. USA: Perry's sugar maple stand,
Orange County, Vermont.

Pochonia chlamydosporia var. *chlamydosporia*
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *Verticillium chlamydosporium*
Goddard

- 2218 [CNPAF 86-06-05-6; CP 214] DW Roberts ← DMF
Capalbo. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun
1986. Brazil: CNPAF, Goiânia, Goiás.

Polycephalomyces sp.
[Sordariomycetes: Hypocreales]

- 9496 [SRCAMB VL-1325/1] V Likhovidov. [Coleoptera].
8 Jul 2003. Russian Federation: Vladivostok, Pri-
morsky Krai. Field Collection Number F-619.
9497 [SRCAMB VL-1951] V Likhovidov. [Coleoptera:
Carabidae]. 25 Aug 2005. Belarus: Belavezhskaya
Puscha National Park. Field Collection Number
F-1106.

Polycephalomyces formosus Kobayasi
[Sordariomycetes: Hypocreales]

- 1424 S Balazy (1431). Larva, *Calosoma* sp. [Coleoptera:
Carabidae] at ground level in deciduous forest. 29 Jul
1981. Poland: Wielkopolski National Park. Received
as *Acremonium terricola* (Miller et al.) W. Gams.

Purpureocillium lilacinum (Thom) Luangsa-ard,
Houbraken, Hywel-Jones & Samson
[Sordariomycetes: Hypocreales]

Synonym: *Paecilomyces lilacinus*. Ophiocordycipitaceae.
This species is the type of a monotypic new genus erected
following the phylogenetic reclassification of *Paecilomyces*
Section *Isarioidea*. WARNING: This species can cause
human mycoses, mainly of the eye, but probably presents
little or no risk if handled with routine sterile microbi-
ological techniques for transfers or bioassay procedures,
etc. Avoid chronic and/or large-scale exposure to airborne
conidia to minimize any health risks.

- 410 CW McCoy. *Diaprepes abbreviata* [Coleoptera:
Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.
723 [CNPAF 82-1-6-10; CP 17] RA Daoust. *Lagria vilosa*
[Coleoptera: Lagriidae]. 6 Jan 1982. Brazil: CNPAF,
Goiânia, Goiás.
1951 [CENARGEN CG 301; CNPAF 85-05-02; CP 176] R
Pereira. *Cerotoma* sp. [Coleoptera: Chrysomelidae].
2 May 1985. Brazil: Campos, Rio de Janeiro.
2952 [CP 273] SP Wraight ← CA da Silva. *Lagria vilosa*
[Coleoptera: Lagriidae]. 8 Nov 1988. Brazil: CNPAF,
Goiânia, Goiás.
5876 FE Vega (EBCL 98005). Adult, *Hypothenemus
hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin:
Niaouli.
5877 FE Vega (EBCL 98008). Adult, *Hypothenemus
hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin:
Niaouli.

Fungal Cultures

- 5880 FE Vega (EBCL 98015). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5882 FE Vega (EBCL 98022). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 6110 BL Parker (SPT-2-279). Adult, [Coleoptera: Scarabaeidae]. 24 Jan 1999. Syria: Al Kseabiia.
- 6188 FE Vega (EBCL 99024). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 1998. Benin: Site 3, Niaouli.
- 6190 FE Vega (EBCL 99027). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 1998. Benin: Site 2, Niaouli.
- 8918 [ERL 196] BL Parker (AVRDC 0058B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8919 [ERL 213] BL Parker (AVRDC 0286B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8920 [ERL 267] BL Parker (AVRDC 0527B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8921 [ERL 268] BL Parker (AVRDC 0529B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8922 [ERL 280] BL Parker (AVRDC 0587B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9371 A Morales (#1A). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 5 Nov 2004. USA: Battle Island State Park Golf Course, Fulton, New York.
- 9524 [SRCAMB VL-2059] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from *Cordyceps* sp. Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-882.

***Scopulariopsis* sp.**

[Sordariomycetes: Microascales]

- 2169 BN Muthappa (PNG 12725). [Coleoptera: Curculionidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2327 TJ Poprawski (8651). Nymph, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 6 Nov 1986. France: Cognac, Charente.
- 8421 AE Hajek (WU6). *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Jul 2000. PR China: Wuhe, Anhui.
- 11652 [ERL 264] BL Parker (AVRDC 0518B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

Simplicillium lamellicola (FEV Smith) Zare & W

Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Major synonym: *Verticillium lamellicola* (F.E.V. Smith) W Gams

- 9479 [SRCAMB VL-1786] V Likhovidov. *Carabus* sp. [Coleoptera: Carabidae]. 29 Aug 2005. Ukraine: Autonomous Republic of Crimea. Field Collection Number F-738.

Sorosporaella uvella (Krassiltschik) Giard

[Sordariomycetes: Hypocreales]

Sorosporaella is the chlamydosporic state of fungi whose conidial states are classified as *Syngliocladium* species. Clumps of chlamydospores germinate and produce fasciculate synnemata bearing clusters of *Syngliocladium* phialides.

- 1123 PP Sikorowski ← J Kuhre. 4th instar larva, *Curculio caryae* [Coleoptera: Curculionidae] pecan tree. 14 Dec 1983. USA: West Helena, Arkansas.

***Sporothrix* sp.**

[Sordariomycetes: Ophiostomatales]

Ophiostomataceae

- 13426 *Chrysobothris chryseola* [Coleoptera: Buprestidae]. 8 Jan 2017. USA: Pete Spyke's Grove 1330 Okeechobee Road, Fort Pierce, Florida. 27.39128, -80.46181.

Sporothrix insectorum de Hoog & HC Evans

[Sordariomycetes: Ophiostomatales]

Ophiostomataceae

- 9502 [SRCAMB VL-2052] V Likhovidov. Adult, *Carabus* sp. [Coleoptera: Carabidae]. 1993. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-890.

Sterile mycelium

- 3038 W Mechaber (weevil#2482). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Vaccinium macrocarpon*. 8 Jun 1990. USA: Wareham, Massachusetts.
- 4009 T Steenberg (135) ← A Kirkeby-Thomse. Pupa, [Coleoptera: Cerambycidae] on spruce. Sep 1988. Denmark: Grib Skov, Zealand.
- 4243 [DAT 26] AC Rath (F26). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1986. Australia: Newtown, Tasmania.

Stilbella buquetii (Montagne & Robin) Samson & HC

Evans

[Sordariomycetes: Hypocreales]

- 2915 CBS (511.88). *Artipes* sp. [Coleoptera: Curculionidae]. 1988. USA: Florida.

Synnematium jonesii Speare
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

5664 [ATCC 44767; IMI 205309] *Promecotheca papuana*
[Coleoptera: Hispinae]. Rec'd 10 Feb 1998. Papua
New Guinea.

Tilachlidium sp.
[Hyphomycetes]

2415 M Shimazu (F-545). [Coleoptera: Elateridae]. 14 Jul
1986. Japan: Hachioji, Tokyo Prefecture.

10132 [ERL 1790] S Gouli and W Reid (BS-2010-1).
[Coleoptera: Chrysomelidae]. 2010. USA: Florida.

Tolypocladium cylindrosporum W Gams
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

7456 GM Duke and MS Goettel (LRC 172). [Coleoptera:
Elateridae]. 12 May 2003. Canada: Agassiz, British
Columbia.

7812 [SRCAMB VL-389] V Likhovidov. Larva, [Cole-
optera: Elateridae] Isolated from stroma. 8 Aug
2001. Russian Federation: Lazovsky Nature Reserve,
Primorsky Krai. Field Collection Number F-268.

Tolypocladium inflatum W Gams
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae. Major synonym: *Tolypocladium*
niveum (Rostrup) Bissett. Teleomorph: *Elaphocordyceps*
subsessilis (Petch) GH Sung, JM Sung, Hywel-Jones &
Spatafora

4877 KT Hodge (kth30A). [Coleoptera: Scarabaeidae:
Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow
State Forest, Danby, New York. Single ascospore
isolate from *Cordyceps subsessilis*. Specimen de-
posited at Cornell Plant Pathology Herbarium as
CUP 63485.

4878 KT Hodge (kth30B). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485. .

4879 KT Hodge (kth30C). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4880 KT Hodge (kth30D). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4881 KT Hodge (kth30E). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485. .

4882 KT Hodge (kth30F). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4883 KT Hodge (kth30G). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485. .

4884 [ATCC 200994; CBS 305.95; CCFC 006988; UAMH
8723] KT Hodge (kth30H). Larva, [Coleoptera:
Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA:
Michigan Hollow State Forest, Danby, New York.
Single ascospore isolate from *Cordyceps subsessilis*.
Specimen deposited at Cornell Plant Pathology
Herbarium as CUP 63485. .

4885 KT Hodge (kth30I). Larva, [Coleoptera: Scarabae-
idae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4886 KT Hodge (kth30J). Larva, [Coleoptera: Scarabae-
idae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4887 KT Hodge (kth30K). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4888 KT Hodge (kth30L). Larva, [Coleoptera: Scarabae-
idae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

4889 KT Hodge (kth30M). Larva, [Coleoptera: Scara-
baeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan
Hollow State Forest, Danby, New York. Single as-
cospore isolate from *Cordyceps subsessilis*. Specimen
deposited at Cornell Plant Pathology Herbarium as
CUP 63485.

Fungal Cultures

- 4890 KT Hodge (kth30N). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4891 KT Hodge (kth30O). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4892 KT Hodge (kth30P). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4893 KT Hodge (kth30Q). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4894 KT Hodge (kth30R). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4895 KT Hodge (kth30S). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4896 KT Hodge (kth30T). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4897 KT Hodge (kth30U). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4898 KT Hodge (kth30V). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.

Verticillium sp.

[Sordariomycetes: Hypocreales]

These species are being reclassified to the appropriate genus and species as they are being re-examined after the phylogenetically based reclassification of *Verticillium* Section *Prostrata*.

- 6484 BL Parker (SPT-KZ-412). Adult, [Coleoptera: Dermestidae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS.**

contact Curator

- 6486 BL Parker (SPT-KR-415/2). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 11 Feb 2000. Kyrgyz Republic: GPS Coordinates N 43°40.597' E 075°02.855'. **RESTRICTED ACCESS.**

contact Curator

- 6501 BL Parker (SPT-KZ-458). Adult, [Coleoptera: Carabidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS.**

contact Curator

Verticillium insectorum (Petch) W Gams

[Sordariomycetes: Hypocreales]

- 3715 RA LeBrun ← J Hanula (C-1). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Summer 1991. Location not specified.

Verticillium lecanii (Zimmerman) Viégas

[Sordariomycetes: Hypocreales]

Cordycipitaceae. A species complex now reclassified in *Lecanicillium* and distributed among three species. Isolates remaining here are being transferred to the appropriate species as they are re-examined.

- 4022 T Steenberg (216) ← A Kirkeby-Thomse. *Agelastica alni* [Coleoptera: Chrysomelidae] on *Alnus* spp. Aug 1990. Denmark.
- 4047 T Steenberg (295). *Aphodius fimetarius* [Coleoptera: Scarabaeidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4048 T Steenberg (297). Larva, [Coleoptera: Cantharidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 5849 T Steenberg (SSL 82). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from *Myzus persicae* [Homoptera: Aphididae].
- 5856 T Steenberg (SSL 607). Adult, *Carcinops pumilio* [Coleoptera: Histeridae]. Feb 1997. Denmark: Broiler house, Kværs, Jutland.
- 6487 BL Parker (SPT-KZ-417). Adult, [Coleoptera: Tenebrionidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS.**

contact Curator

6545 D Chandler (HRI 33.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.

***Zoophthora* sp.**

[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae.

2623 FX Susilo (HM15). *Hypera postica* [Coleoptera: Curculionidae]. May 1988. USA: Spindletop Farm, Henry County, Kentucky.

***Zoophthora anglica* (Petch) Ben-Ze'ev & RG Kenneth**

[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

396 [ARSEF ?1377] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.

918 S Keller (470). *Agriotes sputator* [Coleoptera: Elateridae]. 6 May 1983. Switzerland.

1739 N Wilding (85). *Trechus quadristriatus* [Coleoptera: Carabidae]. 5 Sep 1978. United Kingdom: Rothamsted Experimental Station, Hertfordshire, England.

2505 J Eilenberg (KVL 12). *Agriotes sputator* [Coleoptera: Elateridae]. 2 Jun 1986. Denmark: Brogaard, Fårevejle, Vestsjælland.

***Zoophthora phytonomi* (Arthur) Humber, Ben-Ze'ev**

& RG Kenneth in Humber & Ben-Ze'ev
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

82 [ARSEF 113; ATCC 34292; FPMI 951] RG Kenneth (3085) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. Apr 1976. Israel: Sedé Eliyahu.

113 [ARSEF 82 (lost); ATCC 34292; FPMI 951] RG Kenneth (3085) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. Apr 1976. Israel: Sedé Eliyahu.

191 RG Kenneth (3095) or (E.p. 2) ← I Ben-Ze'ev. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Apr 1976. Israel: Sedé Eliyahu.

192 RG Kenneth (3133) ← I Ben-Ze'ev. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. 2 Mar 1977. Israel: Sedé Eliyahu.

202 [RG Kenneth 3178] AA Muka ← JP Kramer. *Hypera punctata* [Coleoptera: Curculionidae]. Jul 1977. USA: Ithaca, New York.

544 PD Van Buskirk. *Hypera postica* [Coleoptera: Curculionidae]. 25 Jun 1979. USA: Preston County, West Virginia.

545 GL Nordin. *Hypera postica* [Coleoptera: Curculionidae]. Location not specified.

546 GL Nordin. *Hypera punctata* [Coleoptera: Curculionidae]. Location not specified.

2188 RJ Dysart. Larva, *Hypera punctata* [Coleoptera: Curculionidae]. 29 Apr 1986. USA: Farmington, Delaware.

3342 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: Eddyville, Illinois.

3343 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: LaSalle County, Illinois.

3344 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: Albion, Illinois.

Unidentified / Hyphomycetes

- [Coleoptera]
Unknown species 8641
[Coleoptera: Buprestidae]
Agrilus planipennis 8155 8179 8183
8184
[Coleoptera: Coccinellidae]
Unknown species 5677
[Coleoptera: Curculionidae]
Unknown species 2225 5695
Anthonomus musculus 3033
Conotrachelus nenuphar 8264
[Coleoptera: Scarabaeidae]
Cochliotus melolonthoides 11666
Popillia japonica 5223 5224 5225 5226
5227
Rhizotrogus majalis 2999

Unidentified sp.

- [Coleoptera]
Unknown species 1634 1667
[Coleoptera: Cantharidae]
Rhagonycha lignosa 1429
[Coleoptera: Chrysomelidae]
Leptinotarsa decemlineata 3724
Oulema melanopus 3980
Phyllotreta nigripes 4037
[Coleoptera: Coccinellidae]
Hippodamia convergens 3821
[Coleoptera: Curculionidae]
Anthonomus musculus 3034
Aracanthus 3478
Hypera postica 1437
Phytonomus punctatus 1430
Sternechus subsignatus 3471
[Coleoptera: Scarabaeidae]
Aphodius tasmaniae 4140
Popillia japonica 3714 3719 3722 3841

Acremonium alternatum

- [Coleoptera: Scolytidae]
Hypothenemus hampei 7282

Acremonium furcatum

- [Coleoptera: Curculionidae]
Hypera postica 1372

Aphanocladium album

- [Coleoptera: Curculionidae]
Hypera postica 1329

Aspergillus sp.

- [Coleoptera: Chrysomelidae]
Leptinotarsa decemlineata 6571
[Coleoptera: Curculionidae]
Anthonomus grandis 7048

Aspergillus flavus

- [Coleoptera: Cerambycidae]
Anoplophora glabripennis 6469
[Coleoptera: Scarabaeidae]
Pachmoda interrupta 6454
[Coleoptera: Tenebrionidae]
Tenebrio molitor 9381

Aspergillus nidulans(?)

- [Coleoptera: Curculionidae]
Diaprepes abbreviata 6515

Aspergillus parasiticus

- [Coleoptera: Curculionidae]
Unknown species 2173

Batkoa sp.

- [Coleoptera: Cantharidae]
Unknown species 5810

Beauveria sp.

- [Coleoptera]
Unknown species 5697 5831 7595
[Coleoptera: Buprestidae]
Agrilus planipennis 8110 8111 8112
8113 8116 8117 8119 8120 8121
8122 8123 8124 8125 8126 8127
8128 8129 8130 8132 8133 8134
8135 8136 8137 8138 8139 8140
8141 8143 8144 8145 8146 8147
8148 8149 8150 8151 8152 8153
8154 8156 8158 8159 8160 8161
8164 8166 8167 8168 8169 8170
8171 8172 8173 8174 8175 8176
8177 8178 8180 8181 8182 8185
8186 8187 8188
[Coleoptera: Carabidae]
Unknown species 13370
[Coleoptera: Chrysomelidae]
Basilepta fulvicornis 8250
Pachybrachis pallicornis 547
[Coleoptera: Coccinellidae]
Unknown species 4853 5833 7591
Coccinella septempunctata 4027
[Coleoptera: Curculionidae]
Unknown species 7463
Anthonomus grandis 1835
Hypera postica 1327
Rhynchophorus palmarum 13661
Shirahoshizo insidiosus 1681
[Coleoptera: Elateridae]
Unknown species 7580
[Coleoptera: Lampyridae]
Unknown species 5186
[Coleoptera: Scarabaeidae]
Anomala cuprea 1682
Phyllophaga 12793 12794 12795
Popillia japonica 4390 4391 4392
Xyloryctes jamaicensis 2412
[Coleoptera: Scolytidae]
Dendroctonus micans 9272
Hypothenemus hampei 13377 13378
13379 13380 13381 13382 13383
13384 13385 13386 13387 13388
13389 13390 13391 13392 13393
13394 13395 13397 13398 13399
13407 13408 13409 13410 13411
13412 13413 13414 13415 13416
13417 13418 13419 13420 13421
13422 13423 13424 13595
Tomicus pimperda 4909 4910 4911
4912 4913 4914 4915 4916 4917
4918

Beauveria amorpha

- [Coleoptera: Cerambycidae]
Psacotheta hilaris 1680
[Coleoptera: Curculionidae]
Premnotrypes suturicallus 1969
[Coleoptera: Scarabaeidae]
Adoryphorus coulouii 4149
Anomala costata 1676
Popillia japonica 4990

Beauveria amorpha(?)

- [Coleoptera: Cerambycidae]
Anoplophora glabripennis 6827

Beauveria asiatica

- [Coleoptera: Scarabaeidae]
Holotrichia parallela 4384 4474

Beauveria bassiana

- [Coleoptera]
Unknown species 293 301 350 754 1980
3197 3198 3199 4382 5979 6559
6560 6692 6693 6695 6696 6697
7164 7470 7972 9444 10347
[Coleoptera: Anthribidae]
Araecerus fasciculatus 413
[Coleoptera: Bruchidae]
Caryedon serratus 1186
[Coleoptera: Buprestidae]
Unknown species 6499
Agrilus planipennis 8771 8772 8773
8774 10393 10394 10395 10396
10397 10398 10399 10400 10401
10402 10403 10404 10405 10406
10407 10408 10409 10410 10411
10412 10413 10414 10415 10416
10417 10418 10419 10420 10421
10422 10423 10424 10425 10426
10427 10428 10429 10430 10431
10432 10433 10434 10435 10436
10437 10438 10439 10440 10441
10442 10443 10444 10445 10446
10447 10448 10449 10450 10451
10452 10453 10454 10455 10456
10457 10458 10459 10460 10461
10462 10463 10464 10465 10466
10467 10468
[Coleoptera: Carabidae]
Unknown species 952 1975 3386 6059
6099 6689 7241 7270 7581
Amara familiaris 4034
Amara plebeja 4031
Bembidion lampros 4032
[Coleoptera: Cerambycidae]
Unknown species 318 319 785 5072
6721 7251 7261 7266 7275 9442
Anoplophora glabripennis 6387 6390
6391 6393 7152 7153 7154 7155
7156 7157 7158 7159 7166 7167
7168 7169 7170 7171 7172 7173
7174 7175 7176 7177 7178 7179
8412 8413 8414
Aromia moschata 1559 1560 1561 1562
1563
Dectes texanus 6471
Enaphalodes rufulus 7404
Moechotypa diphysis 1678

<i>Monochamus alternatus</i> 1679	<i>Cycloneda sanguinea</i> 2010 8372 8462	[Coleoptera: Curculionidae: Scolytinae]
<i>Monochamus scutellatus</i> 7162 7163	8463	<i>Xylosandrus compactus</i> 12620
<i>Ortholeptura valida</i> 5997	<i>Hippodamia convergens</i> 4973 4974	[Coleoptera: Elateridae]
<i>Plectrodera scalator</i> 7160 7161 7165	4975	Unknown species 150 784 804 5670
<i>Psacotheta hilaris</i> 1041	[Coleoptera: Cucujidae: Silvaninae]	[Coleoptera: Lagriidae]
<i>Tetropium fuscum</i> 11660	<i>Ahasverus advena</i> 5857	<i>Lagria vilosa</i> 2961
[Coleoptera: Chrysomelidae]	[Coleoptera: Curculionidae]	[Coleoptera: Lampyridae]
Unknown species 504 1451 1971 7244	Unknown species 930 1061 2040 3667	<i>Cratomorphus diaphanus</i> 8464
7247 7271 7272 8835 8836 10350	4052 6216 6217 7202 7466 7471	[Coleoptera: Languriidae]
11844	7769 7978 8520 8521 8522 8523	Unknown species 3457
<i>Cerotoma</i> 951 1458 1467	8524 8525 8526 8530 8705	[Coleoptera: Nitidulidae]
<i>Cerotoma arcuata</i> 731 732 756 931 934	<i>Anthonomus grandis</i> 1966 2559 2638	Unknown species 325
2075	2639 2945 2946 3097 7795	[Coleoptera: Pythidae]
<i>Crimissa</i> 786 788 805	<i>Anthonomus musculus</i> 3037	<i>Pytho</i> 1854
<i>Crimissa cruralis</i> 4001	<i>Apion</i> 4023	[Coleoptera: Rhizophagidae]
<i>Diabrotica</i> 721 946 947 948 949 950	<i>Aracanthus</i> 753	<i>Rhizophagus grandis</i> 1848
956 982 2512 2938 2942 3219 3287	<i>Ceutorhynchus litura</i> 3403	[Coleoptera: Scarabaeidae]
<i>Diabrotica balteata</i> 3309	<i>Chalcodermus</i> 941 942 943 953	Unknown species 6058 6686 7264
<i>Diabrotica barberi</i> 2579	<i>Chalcodermus aeneus</i> 336 337 733 734	<i>Adoryphorus coultonii</i> 4135 4136 4642
<i>Diabrotica paranaensis</i> 739 752 758	735 736 738	<i>Ancognatha scarabaeoides</i> 2249 2250
809 937 938	<i>Conotrachelus nenuphar</i> 1016 8260	<i>Anomala cuprea</i> 1683
<i>Diabrotica speciosa</i> 928 958 1060 1453	8261 8262 8263	<i>Anoplognathus</i> 8763
1454 1455 1456 1459 1460 1461	<i>Cosmopolites</i> 1833	<i>Aphodius tasmaniae</i> 8079
1462 1463 1464 1465 1466 1469	<i>Cosmopolites sordidus</i> 1483 4798 4799	<i>Pachnoda interrupta</i> 6669 6676 6681
1470 1471 1472 1473 1475 1476	<i>Curculio caryae</i> 2676	<i>Phyllophaga</i> 5740 5741 5742 5743 5744
1954 1961 2511 2515 2520 2625	<i>Cyrtepidomus castaneus</i> 2270	5745
2626 8373	<i>Diaprepes abbreviata</i> 412 416 433	<i>Popillia japonica</i> 3716 3717 5148 5150
<i>Diabrotica undecimpunctata</i> 201	<i>Geraeus senilis</i> 3310 3311	<i>Rhopaea magnicornis</i> 4130 7813 8853
<i>Diabrotica virgifera</i> 2330 3111	<i>Heilipodus erythropus</i> 8461	8854
<i>Diabrotica virgifera virgifera</i> 9297	<i>Hypera postica</i> 1389 1398 1399 1515	<i>Sericesthis nigrolineata</i> 7853
9298 9299 9300 9301 9302	2199 2200 4038 4049	[Coleoptera: Scolytidae]
<i>Galerucella sp.</i> 5465	<i>Listrionotus oregonensis</i> 2983 2984	Unknown species 1566 3040
<i>Galerucina</i> 2463	2985 2986	<i>Dendroctonus ponderosae</i> 1849 1853
<i>Leptinotarsa decemlineata</i> 33 149 252	<i>Metamasius</i> 842	<i>Dryocoetes confusus</i> 1852 9184
317 340 344 353 384 505 506 507	<i>Metamasius callizona</i> 5986	<i>Hypothenemus hampei</i> 1480 2685 2686
508 509 510 534 535 1039 1079	<i>Metamasius hemipterus</i> 2642	2687 2688 2689 2690 2691 2692
1081 1106 1619 1620 1621 1622	<i>Oryzophagus oryzae</i> 3098	2693 3440 3443 3445 3448 3453
1623 1624 1704 1705 1706 1707	<i>Otiiorhynchus ligustici</i> 6884 6885	3818 3819 5436 5437 5438 5439
1708 1709 1710 1711 1712 1713	<i>Otiiorhynchus sulcatus</i> 815 1073 1074	5440 5441 5442 5443 5444 5445
1721 1722 1723 1749 1750 1775	1075 6552 7763 8078	5446 5447 5448 5449 5450 5451
1776 1777 1778 1779 1780 1781	<i>Phlyctinus callosus</i> 8756 8757	5452 5453 5454 5455 5456 5457
1982 2030 2031 2032 2695 2987	<i>Premnotrypes latithorax</i> 5983 5984	5458 5459 5460 5477 5478 5479
2988 2989 2990 2991 5286 5533	<i>Premnotrypes vorax</i> 2248	5480 5481 5482 5483 5484 5485
5534 5535 5536 5537 5807 5813	<i>Rhynchites aequatus</i> 8037	5486 5487 5488 5489 5490 6526
6986 6987 6988 8998 9441	<i>Rhynchites baccus</i> 8668	6527 6528 6529 6530 6531 6532
<i>Lilioceris lili</i> 5195	<i>Rhynchophorus ferrugineus</i> 6903	7758 10471 12573 12574 12575
<i>Maecolaspis monrosi</i> 2509	<i>Rhynchophorus palmarum</i> 13506	12576 12577 12578 12579 12580
<i>Notonata</i> 3437 3438 3439 3441 3442	<i>Sitona</i> 1647 8077	12581 12582 12583 12584 12585
3444 3446 3447 3450 3451 3452	<i>Sitona discoideus</i> 816 1153 1154 1155	12586 12587 12588 12589 12590
3455	1163 1164 1171 1172 1173 1174	12591 12592 12593 12594 12595
<i>Odontota dorsalis</i> 5553	1175 1176 1177 1178 1179 1180	12596 12597 12598 12599 12600
<i>Pyrrhalta luteola</i> 1509 1510 1511 1518	1181 1183 1185 1188 1189 1190	12601 12602 12603 12604 12605
1519	1191 1309 1311 1312 1313 1811	12606 12607 12608 12609 12610
<i>Pyrrhalta viburni</i> 9449	1815 1816 1817 1818 1819 1820	12611 12612 12613 12614 12615
<i>Systema</i> 2079	1821	12616 12617 12618 12619 12805
<i>Xanthogaleruca luteola</i> 5501	<i>Sitona humeralis</i> 1491	12806 12807 12808 12809 12810
[Coleoptera: Chrysomelidae: Hispinae]	<i>Sitona lineatus</i> 1156 1157 1158 1159	12811 12812 12813 12814 12815
Unknown species 8494	1160 1161 1162 1165 1167 1168	12816 12821 12891 12892 12893
[Coleoptera: Coccinellidae]	1169 1170 1182 1192 1193 1194	12894 13402 13403 13404 13405
Unknown species 6055 6061 6062 6063	1306 4013 4015 4016 4019 4021	13515 13516 13517 13518 13519
6074 6075 6092 6095 6111 6112	4041	13520 13521 13522 13523 13524
11878	<i>Sitophilus</i> 7764 7773 7774	13525 13526 13527 13528 13529
<i>Coccinella</i> 2033 2034	<i>Sternechus subsignatus</i> 1450	13530 13531 13532 13533 13534
<i>Coccinella septempunctata</i> 2580 3534	[Coleoptera: Curculionidae: Apioninae]	13535 13536 13541 13542 13543
4018	<i>Cylas formicarius elegantulus</i> 5981	13544 13545 13546 13547 13548
<i>Coleomegilla maculata</i> 1956	5982	13549 13550 13551 13552 13553

Host by Fungus

13554 13555 13556 13557 13558	[Coleoptera: Chrysomelidae]	Beauveria pseudobassiana
13559 13560 13561 13562 13563	Unknown species 751	[Coleoptera]
13564 13565 13566 13567 13568		Unknown species 5668
13569 13572 13573 13574 13575		[Coleoptera: Anthicidae]
13576 13577 13578 13579 13580	Beauveria bassiana(?)	<i>Anthicus floralis</i> 157
13581 13582 13583 13584 13585	[Coleoptera: Chrysomelidae]	[Coleoptera: Cerambycidae]
13586 13587 13588 13589 13590	Unknown species 6890 6891	Unknown species 2557
13591 13592 13593 13594 13596	[Coleoptera: Scolytidae]	[Coleoptera: Chrysomelidae]
13597 13598	<i>Dendroctonus micans</i> 9271	<i>Paropsis charybdis</i> 3066
<i>Ips stenographus</i> 6900		[Coleoptera: Coccinellidae]
<i>Ips typographus</i> 7525 7526 12957 12958	Beauveria brongiartii	Unknown species 5678
12960 12961 12962 12964 12965	[Coleoptera]	[Coleoptera: Curculionidae]
12966 12967 12968 12970 12971	Unknown species 2660	<i>Otiorhynchus sulcatus</i> 813 814 3065
12973 12974 12975 12977 12978	[Coleoptera: Carabidae]	<i>Sitona</i> 3063
12979 12980	Unknown species 7268	[Coleoptera: Scarabaeidae]
<i>Tomicus minor</i> 4980 5071	[Coleoptera: Cerambycidae]	Unknown species 5669
[Coleoptera: Staphylinidae]	<i>Anoplophora malasiaca</i> 6235 6412	<i>Adoryphorus coulonii</i> 4274 4721
Unknown species 3112 4055	<i>Niphonoclea</i> 1431	<i>Aphodius tasmaniae</i> 3070
<i>Anotylus rugosus</i> 4051 4056	[Coleoptera: Curculionidae]	<i>Costelytra zealandica</i> 3055
<i>Anotylus sp.</i> 4046	<i>Barypeithes pellucida</i> 6213 6214 6215	[Coleoptera: Scolytidae]
<i>Gyrophypnus angustatus</i> 4054	<i>Cyrtepistomus castaneus</i> 2271	<i>Ips</i> 1855
<i>Tachyporus sp.</i> 4028	[Coleoptera: Elateridae]	<i>Ips typographus</i> 12959 12976 12981
[Coleoptera: Tenebrionidae]	Unknown species 9452	<i>Tomicus minor</i> 4933 5070
Unknown species 757 783 787 6057	[Coleoptera: Scarabaeidae]	[Coleoptera: Scolytidae (Tribe Ipini)]
6064 6077 6078 6096 6113 6478	Unknown species 4380 4381	Unknown species 6229
6483	<i>Anomala costata</i> 985	[Coleoptera: Tenebrionidae]
<i>Alphitobius diaperinus</i> 5836 5838 5839	<i>Costelytra zealandica</i> 3054 7761	<i>Tribolium castaneum</i> 5622
5840 5843 7941	<i>Holotrichia parallela</i> 4385 4386 4388	
<i>Pterohelaeus darlingensis</i> 8065	4465 4466 4467 4468 4469 4470	Beauveria sungii
<i>Tenebrio molitor</i> 5623 8038	4471 4472 4473 4475 4476 4477	[Coleoptera: Chrysomelidae]
	4478	Unknown species 7279 7280
Beauveria bassiana sensu lato	<i>Melolontha</i> 5355 5356 5357 5358 5359	[Coleoptera: Scarabaeidae]
[Coleoptera: Chrysomelidae]	5360 5361 5362 5363 5364	Unknown species 5689
<i>Diabrotica virgifera virgifera</i> 14001	<i>Melolontha melolontha</i> 617 979 1067	<i>Lachnosterna morosa</i> 1685
14002	1068 1069 1070 1071 1072 1076	
[Coleoptera: Curculionidae]	1077 7528	Beauveria varroae
Unknown species 13257	<i>Popillia japonica</i> 4389 4458 4991 4992	[Coleoptera: Curculionidae]
<i>Hypera postica</i> 12434 12435 12436	4993 4994 4995	<i>Larinus</i> 2694
12437 12438 12439 12440 12441	[Coleoptera: Scolytidae]	
12442 12443 12444 12445 12446	<i>Ips typographus</i> 4024	Candida sp.
12447 12448 12449 12450 12451		[Coleoptera: Scolytidae]
12517 12518 12519 12520 12521		<i>Hypothenemus hampei</i> 5729
12522		
[Coleoptera: Scolytidae]	Beauveria caledonica	
<i>Hypothenemus hampei</i> 12982 12983	[Coleoptera]	Cladosporium sphaerospermum
12984 12985 12986 12987 12988	Unknown species 2251	[Coleoptera: Curculionidae]
12989 12990 12991 12992 12993	[Coleoptera: Scarabaeidae]	<i>Diaprepes abbreviata</i> 6516
12994 12995 12996 12997 12998	<i>Amphimallon solstitiale</i> 8024	
12999 13000 13001 13002 13003	[Coleoptera: Scolytidae]	Clonostachys rosea
13004 13005 13006 13007 13008	Unknown species 1567	[Coleoptera: Scarabaeidae]
13009 13010 13011 13012 13013	<i>Ips typographus</i> 12963 12969 12972	Unknown species 9491
13014 13015 13016 13017 13018		<i>Amphimallon solstitiale</i> 11678 11682
13019 13020 13046 13047 13048		11687
13049 13050 13051 13052 13053	Beauveria hoplocheli	
13054 13055 13056 13057 13058	[Coleoptera: Melolonthidae]	Conidiobolus sp.
13059 13060 13061 13062 13063	<i>Hoplochelus marginalis</i> 13021	[Coleoptera: Curculionidae]
13064 13065 13066 13067 13068		<i>Hypera variabilis</i> 80 81
13069 13070 13071 13072 13073	Beauveria lii	
13074 13075 13076 13077 13078	[Coleoptera: Coccinellidae]	Conidiobolus coronatus
13079 13080 13081 13082 13083	<i>Henosepilachna vigintioctopunctata</i>	[Coleoptera: Curculionidae]
13084 13085 13086 13087 13089	11741	<i>Ceutorhynchus napi</i> 1572 1573 1574
13090 13091 13092 13093 13094		1575
	Beauveria malawiensis	Conidiobolus osmodes
Beauveria bassiana sensu stricto	[Coleoptera: Cerambycidae]	[Coleoptera: Curculionidae]
[Coleoptera]	<i>Phoracantha semipunctata</i> 7760	<i>Hypera variabilis</i> 79
Unknown species 13750 13751		

- Cordyceps** sp.
[Coleoptera: Curculionidae]
Sitophilus oryzae 4852
[Coleoptera: Scarabaeidae]
Unknown species 7848
Popillia japonica 3718
- Cordyceps brongniartii**
[Coleoptera: Scarabaeidae]
Anomala cuprea 7516 7517
- Cordyceps scarabaeicola**
[Coleoptera: Chrysomelidae]
Unknown species 7277 7278
- Engyodontium rectidentatum**
[Coleoptera: Scarabaeidae]
Unknown species 7805
- Erynia** sp.
[Coleoptera: Cantharidae]
Unknown species 2664 5352
Rhagonycha fulva 2525 2536 2537 2538
2539 2553 2662 2663
- Evlachovaea** sp.
[Coleoptera: Elateridae]
Agriotes 7403
[Coleoptera: Scarabaeidae]
Phyllophaga menetriesi 7551
[Coleoptera: Scolytidae]
Dendroctonus rufipennis 1017
- Evlachovaea kintrischica**
[Coleoptera: Chrysomelidae]
Agelastica alni 7218 8058
- Fusarium** sp.
[Coleoptera: Buprestidae]
Agrilus planipennis 8131
[Coleoptera: Chrysomelidae]
Lilioceris lili 4011
[Coleoptera: Curculionidae]
Anthonomus musculus 3030 3031 3032
Conotrachelus nenuphar 8266
Hylurgus ligniperda 12461
[Coleoptera: Scarabaeidae]
Amphimallon solstitiale 11670 11671
11672 11673 11674 11675 11677
11679 11680 11684
[Coleoptera: Scolytidae]
Dendroctonus micans 9273 9274
Hypothenemus hampei 5461 5875 5878
5879 7063
- Fusarium commune**
[Coleoptera: Curculionidae]
Otiorhynchus ligustici 4825
- Fusarium nygamai**
[Coleoptera: Scolytidae]
Hypothenemus hampei 6602
- Fusarium proliferatum**
[Coleoptera: Curculionidae]
Chalcodermus aeneus 2568 2569
Conotrachelus nenuphar 8267
Sitona discoideus 1310
- Harposporium janus**
[Coleoptera: Cerambycidae]
Unknown species 5601
- Hirsutella eleutheratorum**
[Coleoptera: Scolytidae]
Hypothenemus hampei 13375
- Hirsutella fusiformis**
[Coleoptera: Curculionidae]
Brachyderes incanus 5474
- Hirsutella thompsonii**
[Coleoptera: Carabidae]
Unknown species 11819
- Isaria** sp.
[Coleoptera]
Unknown species 9519
- Isaria amoenerosea**
[Coleoptera: Lagriidae]
Lagria vilosa 741 744 2220 2958 2959
2960 4097
[Coleoptera: Meloidae]
Unknown species 4849
- Isaria cateniannulata**
[Coleoptera: Curculionidae]
Unknown species 6241
Brachyderes incanus 6243
- Isaria cateniobliqua**
[Coleoptera]
Unknown species 6244
- Isaria coleopterorum**
[Coleoptera: Lampyridae]
Unknown species 9509
- Isaria farinosa**
[Coleoptera]
Unknown species 2355 2379 9516
[Coleoptera: Buprestidae]
Agrilus planipennis 9944 9945
[Coleoptera: Carabidae]
Unknown species 11831
Agonum dorsale 4029 4044
Bembidion lampros 4043
Hapalus sp. 4045
[Coleoptera: Cerambycidae]
Unknown species 5073 5074 5075 5080
7276
Anoplophora glabripennis 8411
[Coleoptera: Chrysomelidae]
Unknown species 6491
Pyrrhalta luteola 1507 1508
[Coleoptera: Coccinellidae]
Unknown species 5754 5834
[Coleoptera: Curculionidae]
Unknown species 11830
Otiorhynchus sulcatus 2431 2937
Premnotrypes vorax 799
Sitona lineatus 4039
[Coleoptera: Lagriidae]
Lagria vilosa 1957
[Coleoptera: Scarabaeidae]
Unknown species 6488 6489
Cylococephala signaticolis 2973
- [Coleoptera: Scolytidae]
Dendroctonus micans 9269 9270 9275
9276 9277 9278
[Coleoptera: Silphidae]
Unknown species 9511
[Coleoptera: Staphylinidae]
Staphylinus olens 4040
[Coleoptera: Tenebrionidae]
Unknown species 5699 11827
Alphitobius diaperinus 5858
Tenebrio molitor 8917
- Isaria fumosorosea**
[Coleoptera]
Unknown species 5694 7716 9602
[Coleoptera: Buprestidae]
Agrilus planipennis 8142
[Coleoptera: Chrysomelidae]
Unknown species 8840
Pyrrhalta luteola 1506
Spaethiella 2956
[Coleoptera: Coccinellidae]
Coccinella septempunctata 9521
[Coleoptera: Lagriidae]
Lagria vilosa 722 2216 2217 2219 2221
[Coleoptera: Scarabaeidae]
Popillia japonica 2679
Rhopaea magnicornis 8892
[Coleoptera: Scolytidae]
Hypothenemus hampei 6730 7284
[Coleoptera: Tenebrionidae]
Alphitobius diaperinus 5844 5845 5846
5847
Tenebrio molitor 5627
- Isaria javanica**
[Coleoptera]
Unknown species 7119
[Coleoptera: Curculionidae]
Litodactylus leucogaster 322
- Lecanicillium** sp.
[Coleoptera: Elateridae]
Unknown species 7635 7636
[Coleoptera: Silphidae]
Unknown species 9459
- Lecanicillium evansii(?)**
[Coleoptera]
Unknown species 11805
- Lecanicillium fungicola**
[Coleoptera: Elateridae]
Unknown species 9483
- Lecanicillium lecanii**
[Coleoptera: Buprestidae]
Agrilus planipennis 8115
[Coleoptera: Cerambycidae]
Plectrodera scalator 7181 7182
[Coleoptera: Chrysomelidae]
Pyrrhalta luteola 1505
- Lecanicillium longisporum**
[Coleoptera: Staphylinidae]
Tachyporus hypnorum 4050

Lecanicillium muscarium	[Coleoptera: Cerambycidae]	<i>Lepidiota squamulata</i> 7816
[Coleoptera: Buprestidae]	<i>Agrianome spinicollis</i> 7498 7499 7500	<i>Melolontha melolontha</i> 7532
<i>Agrilus planipennis</i> 8114 8118 8157	<i>Anoplophora glabripennis</i> 6388 6389	<i>Oryctes</i> 2156 2165 2166 2167
8163 8165	7180	<i>Pachnoda interrupta</i> 6670 6671 6672
[Coleoptera: Curculionidae]	[Coleoptera: Chrysomelidae]	6673 6674 6675 6677 6678 6679
Unknown species 7248	<i>Brontispa longissima</i> 1078 8745 8746	6680 6682 6683 6684 6685
<i>Hypera postica</i> 1328 1401 1402 1403	8747	<i>Papuana</i> 8748
<i>Pissodes strobi</i> 8048 8049 8050 8051	<i>Cerotoma arcuata</i> 760 2076 2077 2635	<i>Phyllopertha horticola</i> 6901
8052 8053 8054	2941	<i>Phyllophaga</i> 12798
<i>Sitona lineatus</i> 4033	<i>Diabrotica</i> 1885 2513	<i>Phyllophaga ?anzia</i> 2135 2136 2137
[Coleoptera: Melyridae]	<i>Diabrotica speciosa</i> 1056 1958	2138 2139
<i>Malachius bipustulatus</i> 1335	[Coleoptera: Coccinellidae]	<i>Phyllophaga anxia</i> 8499
[Coleoptera: Scolytidae]	<i>Coleomegilla maculata</i> 808	<i>Popillia japonica</i> 1280 2548 3329 3330
<i>Dendroctonus micans</i> 4036 9267 9268	[Coleoptera: Curculionidae]	3331 3332 3333 3334 3335 3336
<i>Ips</i> 11803	Unknown species 8098 8099	3337 3338 3339 3340 3713 3720
[Coleoptera: Tenebrionidae]	<i>Blosyrus asellus</i> 9217 9218	4907 4908 9372
<i>Tenebrio molitor</i> 8923	<i>Chalcodermus aeneus</i> 725 929	<i>Rhopaea magnicornis</i> 8492 8765 8766
	<i>Desiantha diversipes</i> 8568 8569	8767 8829 8844
Lecanicillium muscarium(?)	<i>Geraeus senilis</i> 3305 3306 3308	<i>Rhopaea verreauxii</i> 8495
[Coleoptera: Buprestidae]	<i>Listrionotus maculicollis</i> 9374	<i>Sericesthis micans</i> 4568 4777 4778
<i>Agrilus planipennis</i> 8162	<i>Otiorhynchus ligustici</i> 4819 4820 4821	<i>Sericesthis nigrolineata</i> 4780 7814
[Coleoptera: Curculionidae]	4822 4823 4824	7863
<i>Conotrachelus nenuphar</i> 8265	<i>Otiorhynchus sulcatus</i> 818 2432 6549	<i>Sericesthis</i> 4134 4236
	<i>Rhabdoscelus obscurus</i> 8762 8828 8847	[Coleoptera: Staphylinidae]
Lecanicillium nr. aranearum	<i>Rhynchophorus palmarum</i> 2331	Unknown species 8734
[Coleoptera: Elateridae]	<i>Sternechus subsignatus</i> 1452 1989	[Coleoptera: Tenebrionidae]
Unknown species 11811	[Coleoptera: Elateridae]	<i>Alphitobius diaperinus</i> 5837 5841 5842
[Coleoptera: Lampyridae]	Unknown species 11850	5848 5850
Unknown species 9460	<i>Agriotes</i> 6551 7494 7524 13219 13220	<i>Tenebrio molitor</i> 8775 8776 8777 8778
[Coleoptera: Scolytidae]	13221	8779 8780 8781 8782 8783 8784
<i>Ips</i> 11799	<i>Agriotes sputator</i> 1377	8785 8786 8787 8788 8789 8790
	<i>Conoderus</i> 1903	8791 8792 8793 8794 8795 8796
Lecanicillium pissodis	<i>Limonium canus</i> 7000 7001 7002 7003	8797 8798 8799 8858 8859 8860
[Coleoptera: Curculionidae]	7004 7005 7006 7007 7008 7009	8861 8862 8863 8864 8865 8866
<i>Pissodes strobi</i> 8055 8056 8057	[Coleoptera: Scarabaeidae]	8867 8868 8869 8870 8871 8872
	Unknown species 2163 3479 7527 7529	8873 8874 8875 8876 8877 8878
Lecanicillium sp. 2(?)	<i>Adoryphorus coulonii</i> 4137 4138 4141	8879 8880 8881 8882 8883 8884
[Coleoptera]	4142 4239 4346 4677 4716 4722	8885 8886 8887 8894 8895 8896
Unknown species 2832	7815	8897 8898 8899 8900 8901 8902
	<i>Amphimallon majale</i> 9373	8903 8904 8905 8906 8907 8908
Metapochonia bulbillosa(?)	<i>Anoplognathus</i> 8764	8909 8910 8911 8912 8913 8914
[Coleoptera: Curculionidae]	<i>Anoplognathus hirsutus</i> 4574 4779	8915 8916 8941 8942 8943 8944
<i>Anthonomus musculus</i> 3035	<i>Antitrogus consanguineus</i> 8761	8945 8946 8947 8948 8949 8950
	<i>Antitrogus mussoni</i> 7842 7865 7931	8951 8952 8953 8954 8955 9235
Metarhizium sp.	<i>Antitrogus parvulus</i> 7496 7819 7839	9236 11945 11946 11947
[Coleoptera: Chrysomelidae]	7854 7864 8832 8833 8834 8893	<i>Tribolium castaneum</i> 3389 5624
Unknown species 11849	<i>Aphodius tasmaniae</i> 347 4132 4133	
<i>Agelastica alni</i> 7643	4139 7845	
[Coleoptera: Scarabaeidae]	<i>Costelytra zealandica</i> 3057	
<i>Amphimallon solstitiale</i> 11685 11686	<i>Cotinis nitida</i> 11951	
<i>Dermolepida albohirtum</i> 7493	<i>Cyclocephala</i> 8837 8838	
<i>Phyllophaga</i> 12796	<i>Dasygnathus dejeani</i> 8839	
<i>Popillia japonica</i> 3863 3865	<i>Dermolepida albohirtum</i> 7492 8744	
<i>Rhopaea magnicornis</i> 7495 8851 8852	8754 8755 10469	
8855 8856 8857	<i>Heteronychus arator</i> 7932 7933 7934	
[Coleoptera: Scolytidae]	7935 7936 8848 8849	
<i>Hypothenemus hampei</i> 13088	<i>Heteronyx</i> 7843 7844	
	<i>Heteronyx piceus</i> 7451 8620	
Metarhizium anisopliae sensu lato	<i>Heteronyx rugosipennis</i> 8564 8610	
[Coleoptera]	<i>Lepidiota consobrina</i> 7827 7828 7846	
Unknown species 4333 4334 4335 4336	8830 8831 8845 8850	
4337 4338 4339 4341 4558 4572	<i>Lepidiota frenchi</i> 7829 7830 7831 8733	
4582	<i>Lepidiota gibbifrons</i> 7824 7825 7826	
<i>Haplochelus marginalis</i> 3148	<i>Lepidiota negatoria</i> 7832	
[Coleoptera: Bruchidae]	<i>Lepidiota noxia</i> 7504	
Unknown species 726 932 954	<i>Lepidiota pcticollis</i> 8501	
[Coleoptera: Carabidae]		
Unknown species 939 1901		

Metarhizium anisopliae var. **lepidiotae**

[Coleoptera: Scarabaeidae]
Dermolepida albohirtum 7453
Lepidiota consobrina 8732

Metarhizium brunneum

[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

Metarhizium carneum

[Coleoptera: Staphylinidae]
Unknown species 11836

Metarhizium flavoviride

[Coleoptera: Curculionidae]
Ceutorhynchus macula-alba 2133
Otiorhynchus sulcatus 1184 2024
[Coleoptera: Scarabaeidae]
Adoryphorus coulonii 4719 4720
Lachnosterna bidentata 8737

Metarhizium frigidum

[Coleoptera: Scarabaeidae]
Adoryphorus 4124

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

Metarhizium lepidiotae

[Coleoptera: Scarabaeidae]
Dermolepida albohirtum 7488
Lepidiota consobrina 7411 7412

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

Metarhizium novozealandicum

[Coleoptera: Scarabaeidae]
Costelytra zealandica 3056

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
Heteronyx arator 8555
Heteronyx piceus 8618 8619 8621
Heteronyx rugosipennis 8566
Oryctes rhinoceros 538
Scapanes australis 3604

Metarhizium robertsii

[Coleoptera: Carabidae]
Unknown species 2469
[Coleoptera: Cerambycidae]
Dectes tezamus 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
Heteronyx 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

Mixed Culture sp.

[Coleoptera]
Unknown species 11718
[Coleoptera: Chrysomelidae]
Pyrrhalta fuscipennis 1043
[Coleoptera: Lampyridae]
Unknown species 5188
[Coleoptera: Scarabaeidae]
Amphimallon solstitiale 11676
Holotrichia parallela 4387

Mucor circinelloides

[Coleoptera: Cerambycidae]
Anoplophora glabripennis 6470

Ophiocordyceps aphodii

[Coleoptera: Scarabaeidae]
Aphodius howitti 5498

Paecilomyces sp.

[Coleoptera: Chrysomelidae]
Galerucella calamariensis 5196
[Coleoptera: Curculionidae]
Unknown species 5184 5193

Paecilomyces canadensis

[Coleoptera: Scarabaeidae]
Heptophylla picea 984

Pandora blunckii

[Coleoptera: Elateridae]
Athalia rosae 915 917 920 1715 1716
1717 1718

Paraisaria dubia

[Coleoptera: Scarabaeidae: Melolonthinae]
Antitrogus rugulosus 5764

Penicillium sp.

[Coleoptera: Curculionidae]
Anthonomus musculus 3036
Chalcodermus bimaculatus 2950
[Coleoptera: Scarabaeidae]
Amphimallon solstitiale 11681 11683
Aphodius tasmaniae 348

Pochonia chlamydosporia

[Coleoptera: Scarabaeidae]
Unknown species 3314

Pochonia chlamydosporia var. **chlamydosporia**

[Coleoptera: Lagriidae]
Lagria vilosa 2218

Polycephalomyces sp.

[Coleoptera]
Unknown species 9496
[Coleoptera: Carabidae]
Unknown species 9497

Polycephalomyces formosus

[Coleoptera: Carabidae]
Calosoma 1424

Host by Fungus

Purpureocillium lilacinum

- [Coleoptera: Chrysomelidae]
Cerotoma 1951
[Coleoptera: Curculionidae]
Diaprepes abbreviata 410
[Coleoptera: Elateridae]
Unknown species 9524
[Coleoptera: Lagriidae]
Lagria vilosa 723 2952
[Coleoptera: Scarabaeidae]
Unknown species 6110
Popillia japonica 9371
[Coleoptera: Scolytidae]
Hypothenemus hampei 5876 5877 5880
5882 6188 6190
[Coleoptera: Tenebrionidae]
Tenebrio molitor 8918 8919 8920 8921
8922

Scopulariopsis sp.

- [Coleoptera: Cerambycidae]
Anoplophora glabripennis 8421
[Coleoptera: Chrysomelidae]
Leptinotarsa decemlineata 2327
[Coleoptera: Curculionidae]
Unknown species 2169
[Coleoptera: Tenebrionidae]
Tenebrio molitor 11652

Simplicillium lamellicola

- [Coleoptera: Carabidae]
Carabus 9479

Sorosporella uvella

- [Coleoptera: Curculionidae]
Curculio caryae 1123

Sporothrix sp.

- [Coleoptera: Buprestidae]
Chrysobothris chryseola 13426

Sporothrix insectorum

- [Coleoptera: Carabidae]
Carabus 9502

Sterile mycelium

- [Coleoptera: Cerambycidae]
Unknown species 4009
[Coleoptera: Curculionidae]
Anthonomus musculus 3038
[Coleoptera: Scarabaeidae]
Adoryphorus coulonii 4243

Stilbella buquetii

- [Coleoptera: Curculionidae]
Artipes 2915

Synnematium jonesii

- [Coleoptera: Hispinae]
Promecotheca papuana 5664

Tilachlidium sp.

- [Coleoptera: Chrysomelidae]
Unknown species 10132
[Coleoptera: Elateridae]
Unknown species 2415

Tolypocladium cylindrosporum

- [Coleoptera: Elateridae]
Unknown species 7456 7812

Tolypocladium inflatum

- [Coleoptera: Scarabaeidae: Aphodiinae]
Unknown species 4877 4878 4879 4880
4881 4882 4883 4884 4885 4886
4887 4888 4889 4890 4891 4892
4893 4894 4895 4896 4897 4898

Verticillium sp.

- [Coleoptera: Carabidae]
Unknown species 6501
[Coleoptera: Dermestidae]
Unknown species 6484
[Coleoptera: Scarabaeidae]
Unknown species 6486

Verticillium insectorum

- [Coleoptera: Curculionidae]
Otiiorhynchus sulcatus 3715

Verticillium lecanii

- [Coleoptera: Cantharidae]
Unknown species 4048
[Coleoptera: Chrysomelidae]
Agelastica alni 4022
[Coleoptera: Curculionidae]
Otiiorhynchus sulcatus 6545
[Coleoptera: Histeridae]
Carcinops pumilio 5856
[Coleoptera: Scarabaeidae]
Aphodius fimetarius 4047
[Coleoptera: Tenebrionidae]
Unknown species 6487
Alphitobius diaperinus 5849

Zoophthora sp.

- [Coleoptera: Curculionidae]
Hypera postica 2623

Zoophthora anglica

- [Coleoptera: Carabidae]
Trechus quadristriatus 1739
[Coleoptera: Elateridae]
Agriotes sputator 396 918 2505

Zoophthora phytonomi

- [Coleoptera: Curculionidae]
Hypera postica 544 545 3342 3343 3344
Hypera punctata 202 546 2188
Hypera variabilis 82 113 191 192

Animalia

Arthropoda • Insecta

Coleoptera

Argentina
Beauveria bassiana 7470
Belarus
Isaria sp. 9519
Brazil, Pará
Beauveria caledonica 2251
Brazil, Goiás
Beauveria bassiana 754
Canada, British Columbia
Beauveria bassiana 7972
Ethiopia
Beauveria bassiana 6692 6693 6695
6696 6697
France
Beauveria bassiana 1980
Unidentified sp. 1634 1667
Ghana
Unidentified / Hyphomycetes 8641
India
Beauveria brongniartii 2660
Metarhizium pingshaense 3210
Location not specified
Beauveria bassiana 293 4382
Mexico
Lecanicillium sp. 2(?) 2832
Philippines
Beauveria bassiana 3197 3198 3199
Isaria farinosa 2355 2379
Poland
Beauveria bassiana 301
PR China
Beauveria bassiana 7164
Isaria cateniolobliqua 6244
Isaria fumosorosea 9602
Mixed Culture sp. 11718
Republic of Georgia
Beauveria bassiana sensu stricto
13750 13751
Republic of Korea
Beauveria sp. 5697
Isaria fumosorosea 5694
Russian Federation
Beauveria bassiana 9444
Isaria fumosorosea 7716
Polycephalomyces sp. 9496
Turkey
Beauveria bassiana 10347
Beauveria pseudobassiana 5668
Beauveria sp. 5831
Ukraine
Beauveria sp. 7595
Isaria farinosa 9516
United Kingdom
Beauveria bassiana 6559 6560
USA, Florida
Beauveria bassiana 5979

USA, Texas
Isaria javanica 7119
USA, Vermont
Lecanicillium evansii(?) 11805
USA, New York
Beauveria bassiana 350
Solomon Islands
Metarhizium anisopliae sensu lato
4333 4334 4335 4336 4337 4338
4339 4341 4558 4572 4582
Metarhizium pingshaense 4290
4340 4342 4557 4610
Haplochelus marginalis
France
Metarhizium anisopliae sensu lato
3148

Coleoptera: Anthicidae

Anthicus floralis
Poland
Beauveria pseudobassiana 157

Coleoptera: Anthribidae

Araecerus fasciculatus
USA, Florida
Beauveria bassiana 413

Coleoptera: Bruchidae

Brazil, Goiás
Metarhizium anisopliae sensu lato
726 932
Brazil, Mato Grosso
Metarhizium anisopliae sensu lato
954
Caryedon serratus
France
Beauveria bassiana 1186

Coleoptera: Buprestidae

Kyrgyz Republic
Beauveria bassiana 6499
Agrius planipennis
Canada, Ontario
Beauveria bassiana 10393 10394
10395 10396 10397 10398 10399
10400 10401 10402 10403 10404
10405 10406 10407 10408 10409
10410 10411 10412 10413 10414
10415 10416 10417 10418 10419
10420 10421 10422 10423 10424
10425 10426 10427 10428 10429
10430 10431 10432 10433 10434
10435 10436 10437 10438 10439
10440 10441 10442 10443 10444
10445 10446 10447 10448 10449
10450 10451 10452 10453 10454
10455 10456 10457 10458 10459
10460 10461 10462 10463 10464
10465 10466 10467 10468

USA, Michigan
Beauveria bassiana 8771 8772 8773
8774
Beauveria sp. 8110 8111 8112 8113
8116 8117 8119 8120 8121 8122
8123 8124 8125 8126 8127 8128
8129 8130 8132 8133 8134 8135
8136 8137 8138 8139 8140 8141
8143 8144 8145 8146 8147 8148

8149 8150 8151 8152 8153 8154
8156 8158 8159 8160 8161 8164
8166 8167 8168 8169 8170 8171
8172 8173 8174 8175 8176 8177
8178 8180 8181 8182 8185 8186
8187 8188 8131
Isaria farinosa 9944 9945
Isaria fumosorosea 8142
Lecanicillium lecanii 8115
Lecanicillium muscarium 8114 8118
8157 8163 8165
Lecanicillium muscarium(?) 8162
Unidentified / Hyphomycetes 8155
8179 8183 8184
Chrysobothris chryseola
USA, Florida
Sporothrix sp. 13426

Coleoptera: Cantharidae

Denmark
Batkoa sp. 5810 2664
Verticillium lecanii 4048
USA, New York
Erynia sp. 5352
Rhagonycha fulva
Denmark
Erynia sp. 2525 2536 2537 2538
2539 2553 2662 2663
Rhagonycha lignosa
Poland
Unidentified sp. 1429

Coleoptera: Carabidae

Belarus
Polycephalomyces sp. 9497
Brazil, Goiás
Metarhizium anisopliae sensu lato
939
Brazil, Mato Grosso
Beauveria bassiana 952
Brazil, Pará
Metarhizium anisopliae sensu lato
1901
Ethiopia
Beauveria bassiana 6689
France
Beauveria bassiana 1975
Kazakhstan
Verticillium sp. 6501
Mexico
Metarhizium robertsii 2469
Republic of Korea
Beauveria bassiana 7241 7270
Beauveria brongniartii 7268
Russian Federation
Beauveria bassiana 7581
USA, Washington
Beauveria bassiana 3386
USA, Hawaii
Beauveria sp. 13370
USA, Vermont
Hirsutella thompsonii 11819
Isaria farinosa 11831
Uzbekistan
Beauveria bassiana 6059 6099

<i>Agonum dorsale</i>	USA, Connecticut	Coleoptera: Chrysomelidae
Denmark	<i>Beauveria bassiana</i> 6393	Australia
<i>Isaria farinosa</i> 4029 4044	USA, Illinois	<i>Beauveria bassiana</i> 8835 8836
<i>Amara familiaris</i>	<i>Beauveria bassiana</i> 7152 7153 7154	<i>Isaria fumosorosea</i> 8840
Denmark	USA, New York	Brazil, Goiás
<i>Beauveria bassiana</i> 4034	<i>Beauveria bassiana</i> 7158 7159 7179	<i>Beauveria bassiana</i> 1971 1451
<i>Amara plebeja</i>	8412 8413	Kazakhstan
Denmark	<i>Isaria farinosa</i> 8411	<i>Isaria farinosa</i> 6491
<i>Beauveria bassiana</i> 4031	USA, Connecticut	Mexico
<i>Bembidion lampros</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> (?) 6890 6891
Denmark	6388	Nepal
<i>Beauveria bassiana</i> 4032	USA, Massachusetts	<i>Cordyceps scarabaeicola</i> 7277 7278
<i>Isaria farinosa</i> 4043	<i>Metarhizium anisopliae</i> sensu lato	Republic of Kazakhstan
<i>Calosoma</i> sp.	6389	<i>Beauveria bassiana</i> 10350
Poland	USA, Illinois	Republic of Korea
<i>Polycephalomyces formosus</i> 1424	<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 7244 7247 7271
<i>Carabus</i> sp.	7180	7272
Russian Federation	USA, Connecticut	<i>Beauveria sungii</i> 7279 7280
<i>Sporothrix insectorum</i> 9502	<i>Metarhizium brunneum</i> 6392 7234	USA, Vermont
Ukraine	8415 8416 8417 8418 8419	<i>Beauveria bassiana</i> 11844
<i>Simplicillium lamellicola</i> 9479	USA, Michigan	<i>Metarhizium</i> sp. 11849
<i>Hapalus</i> sp.	<i>Mucor circinelloides</i> 6470	USA, Florida
Denmark	<i>Anoplophora malasiaca</i>	<i>Tilachlidium</i> sp. 10132
<i>Isaria farinosa</i> 4045	Japan	Vietnam
<i>Trechus quadristriatus</i>	<i>Beauveria brongniartii</i> 6235 6412	<i>Beauveria bassiana</i> sensu stricto
United Kingdom	<i>Aromia moschata</i>	751
<i>Zoophthora anglica</i> 1739	Italy	Yugoslavia, Serbia
Coleoptera: Cerambycidae	<i>Beauveria bassiana</i> 1559 1560 1561	<i>Beauveria bassiana</i> 504
Brazil, Ceará	1562 1563	<i>Agelastica alni</i>
<i>Beauveria bassiana</i> 785	<i>Dectes texanus</i>	Denmark
Denmark	USA, Kansas	<i>Verticillium lecanii</i> 4022
Sterile mycelium 4009	<i>Beauveria bassiana</i> 6471	Republic of Georgia
Ecuador	<i>Metarhizium robertsii</i> 6472	<i>Evlachovaea kintrischica</i> 7218 8058
<i>Beauveria pseudobassiana</i> 2557	<i>Enaphalodes rufulus</i>	Russian Federation
France	USA, Arkansas	<i>Metarhizium</i> sp. 7643
<i>Beauveria bassiana</i> 5072	<i>Beauveria bassiana</i> 7404	<i>Basilepta fulvicornis</i>
<i>Isaria farinosa</i> 5073 5074 5075 5080	<i>Moechotypa diphysis</i>	India
Japan	Japan	<i>Beauveria</i> sp. 8250
<i>Harposporium janus</i> 5601	<i>Beauveria bassiana</i> 1678	<i>Brontispa longissima</i>
Mexico	<i>Monochamus alternatus</i>	Australia
<i>Beauveria bassiana</i> 319	Japan	<i>Metarhizium anisopliae</i> sensu lato
Republic of Korea	<i>Beauveria bassiana</i> 1679	8745 8746 8747
<i>Beauveria bassiana</i> 6721 7251 7261	<i>Monochamus scutellatus</i>	Western Samoa
7266 7275	USA, Michigan	<i>Metarhizium anisopliae</i> sensu lato
<i>Isaria farinosa</i> 7276	<i>Beauveria bassiana</i> 7162 7163	1078
Russian Federation	<i>Niphonoclea</i> sp.	<i>Metarhizium anisopliae</i> sensu
<i>Beauveria bassiana</i> 9442	Philippines	stricto 2223
USA, Rhode Island	<i>Beauveria brongniartii</i> 1431	<i>Cerotoma</i> sp.
<i>Beauveria bassiana</i> 318	<i>Ortholeptura valida</i>	Brazil, Mato Grosso
<i>Agrianome spinicollis</i>	USA, Oregon	<i>Beauveria bassiana</i> 951
Australia	<i>Beauveria bassiana</i> 5997	Brazil, Paraná
<i>Metarhizium anisopliae</i> sensu lato	<i>Phoracantha semipunctata</i>	<i>Beauveria bassiana</i> 1458
7498 7499 7500	Malawi	Brazil, Rio de Janeiro
<i>Anoplophora glabripennis</i>	<i>Beauveria malawiensis</i> 7760	<i>Purpureocillium lilacinum</i> 1951
PR China	<i>Plectrodera scalator</i>	Brazil, Santa Catarina
<i>Beauveria amorpha</i> (?) 6827	USA, Michigan	<i>Beauveria bassiana</i> 1467
<i>Beauveria bassiana</i> 6387 6390 7155	<i>Beauveria bassiana</i> 7160 7161 7165	<i>Cerotoma arcuata</i>
7156 7157 7166 7167 7168 7169	<i>Lecanicillium lecanii</i> 7181 7182	Brazil, Amazonas
7170 7171 7172 7173 7174 7175	<i>Psacotheta hilaris</i>	<i>Beauveria bassiana</i> 731 732 756
7176 7177 7178 8414	Japan	Brazil, Bahia
<i>Metarhizium pingshaense</i> 8420	<i>Beauveria amorpha</i> 1680	<i>Beauveria bassiana</i> 2075
<i>Scopulariopsis</i> sp. 8421	<i>Beauveria bassiana</i> 1041	Brazil, Goiás
USA, Michigan	<i>Tetropium fuscum</i>	<i>Beauveria bassiana</i> 931 934
<i>Aspergillus flavus</i> 6469	Norway	<i>Metarhizium anisopliae</i> sensu lato
USA, New York	<i>Beauveria bassiana</i> 11660	760 2076 2077 2635 2941
<i>Beauveria bassiana</i> 6391		<i>Metarhizium robertsii</i> 724

<i>Crimissa</i> sp.	<i>Diabrotica virgifera virgifera</i>	USA, Washington
Brazil, Ceará	Mexico	<i>Beauveria bassiana</i> 344
<i>Beauveria bassiana</i> 786 788 805	<i>Beauveria bassiana</i> 9297 9298 9299	Yugoslavia
<i>Crimissa cruralis</i>	9300 9301 9302	<i>Beauveria bassiana</i> 505 506 507 510
Brazil, Ceará	USA, Nebraska	Yugoslavia, Croatia
<i>Beauveria bassiana</i> 4001	<i>Beauveria bassiana</i> sensu lato	<i>Beauveria bassiana</i> 509
<i>Diabrotica</i> sp.	14001	Yugoslavia, Vojvodina
Brazil	USA, Illinois	<i>Beauveria bassiana</i> 508
<i>Beauveria bassiana</i> 3219	<i>Beauveria bassiana</i> sensu lato	<i>Lilioceris lili</i>
Brazil, Amazonas	14002	<i>Beauveria bassiana</i> 5195
<i>Beauveria bassiana</i> 2512	<i>Galerucella calamariensis</i>	Denmark
Brazil, Goiás	USA, Rhode Island	<i>Fusarium</i> sp. 4011
<i>Beauveria bassiana</i> 956 2938 2942	<i>Paecilomyces</i> sp. 5196	<i>Maecolaspis monrosi</i>
<i>Metarhizium anisopliae</i> sensu lato	<i>Galerucella</i> sp.	Argentina
1885 2513	USA, Texas	<i>Beauveria bassiana</i> 2509
<i>Metarhizium robertsii</i> 2514	<i>Beauveria bassiana</i> 5465	<i>Notonata</i> sp.
Brazil, Mato Grosso	<i>Galerucina</i> sp.	Costa Rica
<i>Beauveria bassiana</i> 946 947 948 949	France	<i>Beauveria bassiana</i> 3437 3438 3439
950 982	<i>Beauveria bassiana</i> 2463	3441 3442 3444 3446 3447 3450
Colombia	<i>Leptinotarsa decemlineata</i>	3451 3452 3455
<i>Beauveria bassiana</i> 721	Canada, Ontario	<i>Odontota dorsalis</i>
Mexico	<i>Beauveria bassiana</i> 5807	<i>Beauveria bassiana</i> 5553
<i>Beauveria bassiana</i> 3287	Canada, Québec	<i>Oulema melanopus</i>
<i>Diabrotica balteata</i>	<i>Beauveria bassiana</i> 2987 2988 2989	France
Mexico	2990 2991	Unidentified sp. 3980
<i>Beauveria bassiana</i> 3309	Commonwealth of Independent States	<i>Pachybrachis pallicornis</i>
<i>Diabrotica barberi</i>	<i>Beauveria bassiana</i> 2695	Malaysia
USA, South Dakota	France	<i>Beauveria</i> sp. 547
<i>Beauveria bassiana</i> 2579	<i>Beauveria bassiana</i> 149 384 1982	<i>Paropsis charybdis</i>
<i>Diabrotica paranaensis</i>	<i>Scopulariopsis</i> sp. 2327	New Zealand
Brazil, Goiás	Germany	<i>Beauveria pseudobassiana</i> 3066
<i>Beauveria bassiana</i> 739 752 758 809	<i>Beauveria bassiana</i> 340	<i>Phyllotreta nigripes</i>
Brazil, Mato Grosso	Italy	Denmark
<i>Beauveria bassiana</i> 937 938	<i>Beauveria bassiana</i> 1106	Unidentified sp. 4037
<i>Diabrotica speciosa</i>	Location not specified	<i>Pyrrhalta fuscipennis</i>
Argentina	<i>Beauveria bassiana</i> 5286	Japan
<i>Beauveria bassiana</i> 2515 8373	Unidentified sp. 3724	<i>Mixed Culture</i> sp. 1043
Brazil, Alagoas	Russian Federation	<i>Pyrrhalta luteola</i>
<i>Beauveria bassiana</i> 1954	<i>Beauveria bassiana</i> 9441	France
Brazil, Bahia	USA, Michigan	<i>Beauveria bassiana</i> 1509 1510 1511
<i>Beauveria bassiana</i> 1961	<i>Aspergillus</i> sp. 6571	1518 1519
<i>Metarhizium anisopliae</i> sensu lato	USA, New York	<i>Isaria farinosa</i> 1507 1508
1958	<i>Beauveria bassiana</i> 534 535 1039	<i>Isaria fumosorosea</i> 1506
Brazil, Goiás	USA, Washington	<i>Lecanicillium lecanii</i> 1505
<i>Beauveria bassiana</i> 928 1476 2625	<i>Beauveria bassiana</i> 1079	<i>Pyrrhalta viburni</i>
2626	USA, New York	Russian Federation
Brazil, Paraná	<i>Beauveria bassiana</i> 1081 1619 1620	<i>Beauveria bassiana</i> 9449
<i>Beauveria bassiana</i> 958 1060 1453	1621 1622 1623 1624 1775 1776	<i>Spaethiella</i> sp.
1454 1455 1461 1462 1463 1466	1777 1778 1779 1780 1781 2030	Brazil, Amazonas
1469 2511 2520	2031 2032 5533 5534 5535 5536	<i>Isaria fumosorosea</i> 2956
<i>Metarhizium anisopliae</i> sensu lato	5537	<i>Systema</i> sp.
1056	USA, Michigan	Brazil, Goiás
Brazil, Rio Grande do Sul	<i>Beauveria bassiana</i> 5813	<i>Beauveria bassiana</i> 2079
<i>Beauveria bassiana</i> 1456 1459 1460	USA, New York	<i>Xanthogaleruca luteola</i>
1464 1465 1475	<i>Beauveria bassiana</i> 6986 6987 6988	Argentina
Brazil, Santa Catarina	USA, Maryland	<i>Beauveria bassiana</i> 5501
<i>Beauveria bassiana</i> 1470 1471 1472	<i>Beauveria bassiana</i> 8998	<i>Zygommatia bicolorata</i>
1473	USA, Maine	India
<i>Diabrotica undecimpunctata</i>	<i>Beauveria bassiana</i> 33 252 353	<i>Metarhizium pingshaense</i> 2231
USA, Oregon	USA, New York	
<i>Beauveria bassiana</i> 201	<i>Beauveria bassiana</i> 1704 1705 1706	
<i>Diabrotica virgifera</i>	1707 1708 1709 1710 1711 1712	
Mexico	1713 1721 1722 1723 1749 1750	
<i>Beauveria bassiana</i> 2330	USA, Rhode Island	
USA, Nebraska	<i>Beauveria bassiana</i> 317	
<i>Beauveria bassiana</i> 3111		

Coleoptera: Chrysomelidae: Hispinae
Beauveria bassiana 8494

Coleoptera: Coccinellidae

- Beauveria bassiana* 11878
 Republic of Korea
Beauveria sp. 4853
 Russian Federation
Beauveria sp. 7591
 Turkey
Beauveria pseudobassiana 5678
Beauveria sp. 5833
Isaria farinosa 5754 5834
 Unidentified / Hyphomycetes 5677
 Uzbekistan
Beauveria bassiana 6055 6061 6062
 6063 6074 6075 6092 6095 6111
 6112
Coccinella sp.
 USA, New York
Beauveria bassiana 2033 2034
Coccinella septempunctata
 Denmark
Beauveria bassiana 4018
Beauveria sp. 4027
 Location not specified
Beauveria bassiana 3534
 Ukraine
Isaria fumosorosea 9521
 USA, Michigan
Beauveria bassiana 2580
Coleomegilla maculata
 Brazil, Alagoas
Beauveria bassiana 1956
 Brazil, Goiás
Metarhizium anisopliae sensu lato
 808
Cycloneda sanguinea
 Argentina
Beauveria bassiana 2010 8372 8462
 8463
Henosepilachna vigintioctopunctata
 PR China
Beauveria lii 11741
Hippodamia convergens
 Mexico
 Unidentified sp. 3821
 USA, New York
Beauveria bassiana 4973 4974 4975
- Coleoptera: Cucujidae: Silvaninae**
Ahasverus advena
 Denmark
Beauveria bassiana 5857
- Coleoptera: Curculionidae**
Metarhizium anisopliae sensu lato
 8098 8099
 Argentina
Beauveria bassiana 7202 7466 7471
 8520 8521 8522 8523 8524 8525
 8526 8530
Beauveria sp. 7463
 Brazil, Goiás
Beauveria bassiana 930
 Brazil, Paraná
Beauveria bassiana 1061
 Denmark
Beauveria bassiana 4052
- Indonesia, Sulawesi Selatan, Celebes
Aspergillus parasiticus 2173
Metarhizium brunneum 2210
 Unidentified / Hyphomycetes 2225
 Papua New Guinea
Scopulariopsis sp. 2169
 PR China
Isaria cateniannulata 6241
 Republic of Korea
Beauveria bassiana 2040
Lecanicillium muscarium 7248
 Unidentified / Hyphomycetes 5695
 USA, New York
Beauveria bassiana 6216 6217
 USA, Hawai'i
Beauveria bassiana 8705
 USA, Oregon
Beauveria bassiana sensu lato
 13257
 USA, Vermont
Isaria farinosa 11830
Paecilomyces sp. 5184 5193
 Canada, British Columbia
Beauveria bassiana 7978
 Indonesia
Metarhizium brunneum 2224
 United Kingdom
Beauveria bassiana 7769
 USA, New York
Beauveria bassiana 3667
Anthonomus grandis
 Brazil
Beauveria sp. 1835
 Brazil, São Paulo
Beauveria bassiana 1966 2559 2638
 2639 2945 2946
 USA, Texas
Aspergillus sp. 7048
Beauveria bassiana 3097 7795
Anthonomus musculus
 USA, Massachusetts
Beauveria bassiana 3037
Penicillium sp. 3036
Metapochonia bulbilosa(?) 3035
 Sterile mycelium 3038 3034
 Unidentified / Hyphomycetes 3033
 USA, New Jersey
Fusarium sp. 3030 3031 3032
Apion sp.
 Denmark
Beauveria bassiana 4023
Aracanthus sp.
 Brazil, Ceará
Beauveria bassiana 753
 Brazil, Rio Grande do Sul
 Unidentified sp. 3478
Artipes sp.
 USA, Florida
Stilbella buquetii 2915
Barypeithes pellucida
 USA, New York
Beauveria brongniartii 6213 6214
 6215
- Blosyrus asellus*
 USA, Hawaii
Metarhizium anisopliae sensu lato
 9217 9218
Brachyderes incanus
 Netherlands
Hirsutella fusiformis 5474
 PR China
Isaria cateniannulata 6243
Ceutorhynchus litura
 Location not specified
Beauveria bassiana 3403
Ceutorhynchus macula-alba
 Czech Republic
Metarhizium flavoviride 2133
Ceutorhynchus napi
 Switzerland
Conidiobolus coronatus 1572 1573
 1574 1575
Chalcodermus sp.
 Brazil, Mato Grosso
Beauveria bassiana 941 942 943
 953
Chalcodermus aeneus
 Brazil, Goiás
Beauveria bassiana 733 734 735 736
 738
Metarhizium anisopliae sensu lato
 725 929
 USA, Georgia
Beauveria bassiana 336 337
Fusarium proliferatum 2568 2569
Chalcodermus bimaculatus
 Brazil, Goiás
Penicillium sp. 2950
Conotrachelus nenuphar
 Location not specified
Beauveria bassiana 1016
 USA, Michigan
Beauveria bassiana 8260 8261 8262
 8263
Fusarium proliferatum 8267
Fusarium sp. 8266
Lecanicillium muscarium(?) 8265
 Unidentified / Hyphomycetes
 8264
Cosmopolites sp.
 Brazil
Beauveria bassiana 1833
Cosmopolites sordidus
 Brazil, Espírito Santo
Beauveria bassiana 1483
 West Africa
Beauveria bassiana 4798 4799
Curculio caryae
 USA, South Carolina
Metarhizium robertsii 2575
 USA
Metarhizium robertsii 3608
 USA, Arkansas
Sorospora uvella 1123
 USA, Georgia
Beauveria bassiana 2676
Cyrtopistomus castaneus
 USA, Kentucky
Beauveria bassiana 2270

<i>Beauveria brongniartii</i> 2271	USA, Kentucky	Location not specified
<i>Desiantha diversipes</i>	<i>Zoophthora</i> sp. 2623	<i>Verticillium insectorum</i> 3715
<i>Metarhizium anisopliae</i> sensu lato	<i>Hypera punctata</i>	New Zealand
8568 8569	Location not specified	<i>Beauveria bassiana</i> 8078
<i>Diaprepes abbreviata</i>	<i>Zoophthora phytonomi</i> 546	<i>Beauveria pseudobassiana</i> 3065
Location not specified	USA, Delaware	United Kingdom
<i>Beauveria bassiana</i> 433	<i>Zoophthora phytonomi</i> 2188	<i>Beauveria bassiana</i> 6552 7763
USA, Florida	USA, New York	<i>Metarhizium anisopliae</i> sensu lato
<i>Aspergillus nidulans</i> (?) 6515	<i>Zoophthora phytonomi</i> 202	6549
<i>Cladosporium sphaerospermum</i>	<i>Hypera variabilis</i>	<i>Metarhizium anisopliae</i> sensu
6516	Israel	stricto 6546
<i>Metarhizium pingshaense</i> 5197	<i>Conidiobolus osmodes</i> 79	<i>Verticillium lecanii</i> 6545
<i>Beauveria bassiana</i> 412 416	<i>Conidiobolus</i> sp. 80 81	USA, Oregon
<i>Purpureocillium lilacinum</i> 410	<i>Zoophthora phytonomi</i> 82 113 191	<i>Isaria farinosa</i> 2431
<i>Geraeus senilis</i>	192	<i>Metarhizium anisopliae</i> sensu lato
Mexico	<i>Larinus</i> sp.	2432
<i>Beauveria bassiana</i> 3310 3311	Switzerland	<i>Isaria farinosa</i> 2937
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria varroae</i> 2694	<i>Phlyctinus callosus</i>
3305 3306 3308	<i>Listronotus maculicollis</i>	Australia
<i>Heilipodus erythropus</i>	USA, New York	<i>Beauveria bassiana</i> 8756 8757
Argentina	<i>Metarhizium anisopliae</i> sensu lato	<i>Phytonomus punctatus</i>
<i>Beauveria bassiana</i> 8461	9374	Poland
<i>Hylurgus ligniperda</i>	<i>Listronotus oregonensis</i>	Unidentified sp. 1430
Uruguay	Canada, Québec	<i>Pissodes strobi</i>
<i>Fusarium</i> sp. 12461	<i>Beauveria bassiana</i> 2983 2984 2985	Canada, British Columbia
<i>Hypera postica</i>	2986	<i>Lecanicillium muscarium</i> 8048 8049
Denmark	<i>Metarhizium robertsii</i> 2981	8050 8051 8052 8053 8054
<i>Beauveria bassiana</i> 4038 4049	<i>Litodactylus leucogaster</i>	<i>Lecanicillium pissodis</i> 8055 8056
France	USA, Florida	8057
<i>Acremonium furcatum</i> 1372	<i>Isaria javanica</i> 322	<i>Premnotryes latithorax</i>
<i>Aphanocladium album</i> 1329	<i>Metamasius</i> sp.	Peru
<i>Beauveria bassiana</i> 1389 1398 1399	Colombia	<i>Beauveria bassiana</i> 5983 5984
1515	<i>Beauveria bassiana</i> 842	<i>Premnotryes suturicallus</i>
<i>Beauveria</i> sp. 1327	<i>Metamasius callizona</i>	Peru
<i>Lecanicillium muscarium</i> 1328 1401	USA, Florida	<i>Beauveria amorpha</i> 1969
1402 1403	<i>Beauveria bassiana</i> 5986	<i>Premnotryes vorax</i>
Location not specified	<i>Metamasius hemipterus</i>	Colombia
Unidentified sp. 1437	Brazil, Paraná	<i>Beauveria bassiana</i> 2248
<i>Zoophthora phytonomi</i> 545	<i>Beauveria bassiana</i> 2642	<i>Isaria farinosa</i> 799
USA, Nebraska	<i>Myllocerus discolor</i>	<i>Rhabdoscelus obscurus</i>
<i>Beauveria bassiana</i> 2199	India	Australia
USA, South Carolina	<i>Metarhizium guizhouense</i> 3603	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 2200	<i>Oryzophagus oryzae</i>	8762 8828 8847
USA, Montana	Brazil, Rio Grande do Sul	<i>Rhynchites aequatus</i>
<i>Beauveria bassiana</i> sensu lato	<i>Beauveria bassiana</i> 3098	Denmark
12434 12435 12436 12437 12438	<i>Otiorynchus ligustici</i>	<i>Beauveria bassiana</i> 8037
12439 12440 12441 12442 12443	Hungary	<i>Rhynchites baccus</i>
USA, North Dakota	<i>Beauveria bassiana</i> 6884 6885	Turkey
<i>Beauveria bassiana</i> sensu lato	USA, New York	<i>Beauveria bassiana</i> 8668
12444	<i>Fusarium commune</i> 4825	<i>Rhynchophorus ferrugineus</i>
USA, Montana	<i>Metarhizium anisopliae</i> sensu lato	Iran
<i>Beauveria bassiana</i> sensu lato	4819 4820 4821 4822 4823 4824	<i>Beauveria bassiana</i> 6903
12445	<i>Otiorynchus sulcatus</i>	<i>Rhynchophorus palmarum</i>
USA, North Dakota	Australia	Mexico
<i>Beauveria bassiana</i> sensu lato	<i>Metarhizium brunneum</i> 4228	<i>Metarhizium anisopliae</i> sensu lato
12446 12447	France	2331
USA, Montana	<i>Beauveria bassiana</i> 815 1073 1074	Trinidad
<i>Beauveria bassiana</i> sensu lato	1075	<i>Beauveria bassiana</i> 13506
12448 12449 12450 12451 12517	<i>Beauveria pseudobassiana</i> 813 814	<i>Beauveria</i> sp. 13661
12518 12519 12520 12521 12522	<i>Metarhizium anisopliae</i> sensu lato	<i>Shirahoshizo insidiosus</i>
USA, West Virginia	818	Japan
<i>Zoophthora phytonomi</i> 544	<i>Metarhizium brunneum</i> 817 820	<i>Beauveria</i> sp. 1681
USA, Illinois	<i>Metarhizium flavoviride</i> 1184 2024	<i>Sitona</i> sp.
<i>Zoophthora phytonomi</i> 3342 3343	Germany	France
3344	<i>Metarhizium brunneum</i> 5198	<i>Beauveria bassiana</i> 1647
	<i>Metarhizium robertsii</i> 1910	

- New Zealand
Beauveria bassiana 8077
Beauveria pseudobassiana 3063
Sitona discoideus
France
Beauveria bassiana 816 1185 1191
Metarhizium guizhouense 819
Morocco
Beauveria bassiana 1153 1154 1155
1163 1164 1171 1172 1173 1174
1175 1176 1177 1178 1179 1180
1181 1183 1188 1189 1190 1309
1311 1312 1313 1811 1815 1816
1817 1818 1819 1820 1821
Fusarium proliferatum 1310
Sitona humeralis
France
Beauveria bassiana 1491
Sitona lineatus
Denmark
Beauveria bassiana 4013 4015 4016
4019 4021 4041
Isaria farinosa 4039
Lecanicillium muscarium 4033
Metarhizium brunneum 4020
France
Beauveria bassiana 1156 1157 1158
1159 1160 1161 1162 1165 1167
1168 1169 1170 1182 1192 1193
1194 1306
Sitophilus sp.
United Kingdom
Beauveria bassiana 7764 7773 7774
Sitophilus oryzae
Republic of Korea
Cordyceps sp. 4852
Sternechus subsignatus
Brazil, Paraná
Beauveria bassiana 1450
Metarhizium anisopliae sensu lato
1452 1989
Brazil, Rio Grande do Sul
Unidentified sp. 3471
- Coleoptera: Curculionidae: Apioninae**
Cylas formicarius elegantulus
Peru
Beauveria bassiana 5982
USA, Florida
Beauveria bassiana 5981
- Coleoptera: Curculionidae: Scolytinae**
Xylosandrus compactus
USA, Hawai'i
Beauveria bassiana 12620
- Coleoptera: Dermestidae**
Kazakhstan
Verticillium sp. 6484
- Coleoptera: Elateridae**
Australia
Metarhizium robertsii 8543 8544
8545 8546 8547 8548
Belarus
Purpureocillium lilacinum 9524
- Lecanicillium fungicola* 9483
Brazil, Ceará
Beauveria bassiana 784 804
Canada, British Columbia
Tolypocladium cylindrosporum
7456
France
Beauveria bassiana 150
Japan
Tilachlidium sp. 2415
Russian Federation
Beauveria brongniartii 9452
Beauveria sp. 7580 7635 7636
Tolypocladium cylindrosporum
7812
Turkey
Beauveria bassiana 5670
USA, New York
Lecanicillium nr. *aranearum* 11811
Metarhizium anisopliae sensu lato
11850
Agriotes sp.
Germany
Evlachovaea sp. 7403
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
Denmark
Zoophthora anglica 2505
Switzerland
Metarhizium anisopliae sensu lato
1377
Zoophthora anglica 396 918
Athalia rosae
Switzerland
Pandora blunckii 915 917 920 1715
1716 1717 1718
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: Hispinae**
Promecotheca papuana
Papua New Guinea
Synnematium jonesii 5664
- Coleoptera: Histeridae**
Carcinops pumilio
Denmark
Verticillium lecanii 5856
- Coleoptera: Lagriidae**
Lagria vilosa
Brazil
Isaria amoenerosea 4097
Brazil, Alagoas
Isaria farinosa 1957
Brazil, Goiás
Beauveria bassiana 2961
Isaria amoenerosea 741 744 2220
2958 2959 2960
Isaria fumosorosea 722 2216 2217
2219 2221
Purpureocillium lilacinum 723 2952
Pochonia chlamydosporia var.
chlamydosporia 2218
- Coleoptera: Lampyridae**
Russian Federation
Isaria coleopterorum 9509
Lecanicillium nr. *aranearum* 9460
USA, Vermont
Beauveria sp. 5186 5188
Cratomorphus diaphanus
Argentina
Beauveria bassiana 8464
- Coleoptera: Languriidae**
Costa Rica
Beauveria bassiana 3457
- Coleoptera: Meloidae**
Republic of Korea
Isaria amoenerosea 4849
- Coleoptera: Melolonthidae**
Hoplochelus marginalis
France
Beauveria hoplocheli 13021
- Coleoptera: Melyridae**
Malachius bipustulatus
Poland
Lecanicillium muscarium 1335
- Coleoptera: Nitidulidae**
Australia
Beauveria bassiana 325
- Coleoptera: Pythidae**
Pytho sp.
Canada, British Columbia
Beauveria bassiana 1854
- Coleoptera: Rhizophagidae**
Rhizophagus grandis
Belgium
Beauveria bassiana 1848

Coleoptera: Scarabaeidae	<i>Fusarium</i> sp. 11670 11671 11672	<i>Penicillium</i> sp. 348 4140
Australia	11673 11674 11675 11677 11679	New Zealand
<i>Metarhizium brunneum</i> 472	11680 11684	<i>Beauveria bassiana</i> 8079
Brazil, Distrito Federal	<i>Metarhizium guizhouense</i> 11668	<i>Beauveria pseudobassiana</i> 3070
<i>Metarhizium anisopliae</i> sensu lato	11669	<i>Cochliotia melolonthoides</i>
3479	<i>Mixed Culture</i> sp. 11676 11685	Tanzania
Ethiopia	11686 11681 11683	Unidentified / Hyphomycetes
<i>Beauveria bassiana</i> 6686	<i>Ancognatha scarabaeoides</i>	11666
Kazakhstan	Colombia	<i>Costelytra zealandica</i>
<i>Isaria farinosa</i> 6488 6489	<i>Beauveria bassiana</i> 2249 2250	Netherlands
Kyrgyz Republic	<i>Metarhizium robertsii</i> 797	<i>Beauveria brongniartii</i> 7761
<i>Verticillium</i> sp. 6486	<i>Anomala costata</i>	New Zealand
Location not specified	Japan	<i>Beauveria brongniartii</i> 3054
<i>Beauveria brongniartii</i> 4380 4381	<i>Beauveria amorphia</i> 1676	<i>Beauveria pseudobassiana</i> 3055
Nepal	<i>Beauveria brongniartii</i> 985	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium anisopliae</i> sensu lato	<i>Anomala cuprea</i>	3057
7527 7529	<i>Cordyceps brongniartii</i> 7517	<i>Metarhizium novozealandicum</i>
Papua New Guinea	Japan	3056
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 1683	<i>Metarhizium pingshaense</i> 7435
2163	<i>Beauveria</i> sp. 1682	<i>Cotinis nitida</i>
<i>Metarhizium pingshaense</i> 2162	<i>Cordyceps brongniartii</i> 7516	USA, Georgia
Poland	<i>Anomala</i> sp.	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium majus</i> 1858 1859	Myanmar	11951
PR China	<i>Metarhizium anisopliae</i> sensu	<i>Cyclocephala</i> sp.
<i>Metarhizium guizhouense</i> 683	stricto 8738	Australia
Republic of Korea	<i>Metarhizium pingshaense</i> 8739	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 7264	8740 8741 8742 8743	8837 8838
<i>Beauveria sungii</i> 5689	<i>Anoplognathus</i> sp.	<i>Cylcocephala signaticolis</i>
Russian Federation	Australia	Argentina
<i>Clonostachys rosea</i> 9491	<i>Beauveria bassiana</i> 8763	<i>Isaria farinosa</i> 2973
<i>Cordyceps</i> sp. 7848	<i>Metarhizium anisopliae</i> sensu lato	<i>Dasygnathus dejeani</i>
<i>Engyodontium rectidentatum</i> 7805	8764	Australia
Syria	<i>Metarhizium majus</i> 4566 4601 7505	<i>Metarhizium anisopliae</i> sensu lato
<i>Purpureocillium lilacinum</i> 6110	<i>Anoplognathus hirsutus</i>	8839
Turkey	Australia	<i>Dermolepida albohirtum</i>
<i>Beauveria pseudobassiana</i> 5669	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
USA, Vermont	4574 4779	7492
<i>Pochonia chlamydosporia</i> 3314	<i>Antitrogus consanguineus</i>	<i>Metarhizium</i> sp. 7493
Uzbekistan	Australia	Australia
<i>Beauveria bassiana</i> 6058	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> var. <i>lepid-</i>
<i>Adoryphorus</i> sp.	8761	<i>iotae</i> 7453
Australia	<i>Antitrogus mussoni</i>	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium frigidum</i> 4124	Australia	8744 8754 8755 10469
<i>Adoryphorus coulouii</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium lepidiotae</i> 7488
<i>Metarhizium anisopliae</i> sensu lato	7842 7865 7931	<i>Metarhizium pingshaense</i> 7452
4142 4239	<i>Metarhizium pingshaense</i> 7417	<i>Diloboderus abderus</i>
Australia	<i>Antitrogus parvulus</i>	Argentina
<i>Beauveria amorphia</i> 4149	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium brunneum</i> 6120
<i>Beauveria bassiana</i> 4135 4136 4642	8832 8893	<i>Heptophylla picca</i>
<i>Beauveria pseudobassiana</i> 4274	Australia	Japan
4721	<i>Metarhizium anisopliae</i> sensu lato	<i>Paecilomyces canadensis</i> 984
<i>Metarhizium anisopliae</i> sensu lato	7496 7819 7839 7854 7864 8833	<i>Heteronychia arator</i>
4137 4138 4141 4346 4677 4716	8834	Australia
4722 7815	<i>Metarhizium pingshaense</i> 7410	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium flavoviride</i> 4719 4720	<i>Aphodius fimetarius</i>	7932 7933 7934 7935 7936 8848
Sterile mycelium 4243	Denmark	8849
<i>Amphimallon majale</i>	<i>Verticillium lecanii</i> 4047	<i>Metarhizium pingshaense</i> 8555
USA, New York	<i>Aphodius howitti</i>	<i>Metarhizium robertsii</i> 7424 8549
<i>Metarhizium anisopliae</i> sensu lato	Location not specified	8550 8551 8552 8553 8554 8556
9373	<i>Ophiocordyceps aphodii</i> 5498	8557 8576
<i>Amphimallon solstitiale</i>	<i>Aphodius tasmaniae</i>	<i>Heteronyx</i> sp.
Denmark	Australia	Australia
<i>Beauveria caledonica</i> 8024	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
Turkey	347 4132 4133 4139 7845	7843 7844
<i>Clonostachys rosea</i> 11678 11682	<i>Metarhizium brunneum</i> 346 4125	<i>Metarhizium anisopliae</i> sensu
11687	4131	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 parallela
 China
Beauveria asiatica 4384 4474
Beauveria brongniartii 4385 4386 4388 4465 4466 4467 4468 4469 4470 4471 4472 4473 4475 4476 4477 4478
Mixed Culture sp. 4387
Holotrichia serrata
 India
Metarhizium anisopliae sensu stricto 10472 10476
Lachnosterna bidentata
 Malaysia
Metarhizium flavoviride 8737
Lachnosterna morosa
 Japan
Beauveria sungii 1685
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 sp.
 Germany
Beauveria brongniartii 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364
Melolontha melolontha
 France
Beauveria brongniartii 617 979
Metarhizium guizhouense 977
 Switzerland
Beauveria brongniartii 1067 1068 1069 1070 1071 1072 1076 1077 7528
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
Aspergillus flavus 6454
Beauveria bassiana 6669 6676 6681
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
 Papua New Guinea
Metarhizium guizhouense 4604
Phyllopertha horticola
 Norway
Metarhizium anisopliae sensu lato 6901
Metarhizium brunneum 6477
Phyllophaga sp.
 Mexico
Beauveria bassiana 5740 5741 5742 5743 5744 5745
 USA, Oklahoma
Beauveria sp. 12793 12794 12795
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
Phyllophaga menetriesi
 Colombia
Evlachovaea sp. 7551
Popillia japonica
 Azores
Beauveria amorpha 4990
Beauveria brongniartii 4991 4992 4993 4994 4995
 Japan
Beauveria brongniartii 4389 4458
Beauveria sp. 4390 4391 4392
Metarhizium robertsii 1046
 Unidentified / *Hyphomycetes* 5223 5224 5225 5226 5227
 Location not specified
Beauveria bassiana 3716 3717
Cordyceps sp. 3718 3714 3719
 Portugal
Beauveria bassiana 5148 5150
Isaria fumosorosea 2679
Metarhizium anisopliae sensu lato 3329 4907 4908
Metarhizium brunneum 3864
Metarhizium robertsii 5149
Metarhizium sp. 3863 3865 3841
 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
Purpureocillium lilacinum 9371
 USA, Connecticut
 Unidentified sp. 3722
 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

<i>Rhizotrogus majalis</i>	<i>Dendroctonus micans</i>	USA, Hawai'i
USA, New York	Denmark	<i>Beauveria bassiana</i> 12573 12574
<i>Metarhizium robertsii</i> 4123 2547	<i>Lecanicillium muscarium</i> 4036	12575 12576 12577 12578 12579
3108 3211	Turkey	12580 12581 12582 12583 12584
Unidentified / Hyphomycetes	<i>Beauveria bassiana</i> (?) 9271	12585 12586 12587 12588 12589
2999	<i>Beauveria</i> sp. 9272 9273 9274	12590 12591 12592 12593 12594
<i>Rhopaea magnicornis</i>	<i>Isaria farinosa</i> 9269 9270 9275 9276	12595 12596 12597 12598 12599
Australia	9277 9278	12600 12601 12602 12603 12604
<i>Beauveria bassiana</i> 4130 7813 8853	<i>Lecanicillium muscarium</i> 9267	12605 12606 12607 12608 12609
8854	9268	12610 12611 12612 12613 12614
<i>Isaria fumosorosea</i> 8892	<i>Dendroctonus ponderosae</i>	12615 12616 12617 12618 12619
<i>Metarhizium anisopliae</i> sensu lato	Canada, British Columbia	12805 12806 12807 12808 12809
8492 8765 8766 8767 8829 8844	<i>Beauveria bassiana</i> 1849 1853	12810 12811 12812 12813 12814
<i>Metarhizium</i> sp. 7495 8851 8852	<i>Dendroctonus rufipennis</i>	12815 12816 12821 12891 12892
8855 8856 8857	Canada, British Columbia	12893 12894
<i>Rhopaea verreauxii</i>	<i>Evlachovaea</i> sp. 1017	USA, Puerto Rico
Australia	<i>Dryocoetes confusus</i>	<i>Beauveria bassiana</i> 13402 13403
<i>Metarhizium anisopliae</i> sensu lato	Canada	13404 13405
8495	<i>Beauveria bassiana</i> 9184	USA, Hawaii
<i>Scapanes australis</i>	Canada, British Columbia	<i>Beauveria bassiana</i> 13515 13516
Papua New Guinea	<i>Beauveria bassiana</i> 1852	13517 13518 13519 13520 13521
<i>Metarhizium pingshaense</i> 3604	<i>Hypothenemus hampei</i>	USA, Hawai'i
<i>Sericesthis micans</i>	Benin	<i>Beauveria bassiana</i> 13522 13523
Australia	<i>Fusarium</i> sp. 5875 5878	13524 13525 13526 13527 13528
<i>Metarhizium anisopliae</i> sensu lato	<i>Purpureocillium lilacinum</i> 5876	13529 13530 13531 13532 13533
4568 4777 4778	5877 5880 5882 6188 6190	13534 13535
<i>Sericesthis nigrolineata</i>	Brazil, São Paulo	USA, Hawaii
Australia	<i>Beauveria bassiana</i> 1480	<i>Beauveria bassiana</i> 13536
<i>Beauveria bassiana</i> 7853	Cameroon	USA, Puerto Rico
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 6526 6527 6528	<i>Beauveria bassiana</i> 13541
4780 7814 7863	6529 6530 6531 6532	USA, Hawaii
<i>Sericesthis</i> sp.	Colombia	<i>Beauveria bassiana</i> 13542 13543
Australia	<i>Acremonium alternatum</i> 7282	13544 13545 13546 13547 13548
<i>Metarhizium anisopliae</i> sensu lato	<i>Fusarium nygamai</i> 6602	13549 13550 13551 13552
4134 4236	Indonesia, Sulawesi	USA, Hawai'i
<i>Strigoderma arboricola</i>	<i>Fusarium</i> sp. 7063	<i>Beauveria bassiana</i> 13553
USA, Michigan	Ivory Coast	USA, Hawaii
<i>Metarhizium robertsii</i> 1968	<i>Beauveria bassiana</i> 5436 5437 5438	<i>Beauveria bassiana</i> 13554 13555
<i>Xyloryctes jamaicensis</i>	5439 5440 5441 5442 5459 5460	13556 13557 13558 13559 13560
India	5477 5482 5483 5484 5485 5486	13561 13562 13563 13564 13565
<i>Beauveria</i> sp. 2412	5487	13566 13567 13568 13569 13572
Western Samoa	<i>Fusarium</i> sp. 5461	13573 13574 13575 13576 13577
<i>Metarhizium majus</i> 297 298	<i>Isaria fumosorosea</i> 6730	13578 13579 13580 13581 13582
Coleoptera: Scarabaeidae: Aphodiinae	Kenya	13583 13584 13585 13586 13587
USA, New York	<i>Beauveria bassiana</i> 2685 2686 2687	13588
<i>Tolytrocium inflatum</i> 4877 4878	Mexico	USA, Hawai'i
4879 4880 4881 4882 4883 4884	<i>Beauveria bassiana</i> 2693 3818 3819	<i>Beauveria bassiana</i> 13589 13590
4885 4886 4887 4888 4889 4890	<i>Isaria fumosorosea</i> 7284	13591 13592 13593 13594
4891 4892 4893 4894 4895 4896	Nicaragua	USA, Hawaii
4897 4898	<i>Beauveria bassiana</i> 3440 3443 3445	<i>Beauveria bassiana</i> 13596 13597
Coleoptera: Scarabaeidae: Melolonthinae	3448 3453	13598
<i>Antitrogus rugulosus</i>	Sri Lanka	USA, Hawai'i
Australia	<i>Beauveria bassiana</i> 7758	<i>Beauveria bassiana</i> sensu lato
<i>Paraisaria dubia</i> 5764	Togo	12982 12983 12984 12985 12986
Coleoptera: Scolytidae	<i>Beauveria bassiana</i> 2688 2689 2690	12987 12988 12989 12990 12991
Switzerland	2691 2692 5443 5444 5445 5446	12992 12993 12994 12995 12996
<i>Beauveria bassiana</i> 1566	5447 5448 5449 5450 5451 5452	12997 12998 12999 13000 13001
<i>Beauveria caledonica</i> 1567	5453 5454 5455 5456 5457 5458	13002 13003 13004 13005 13006
USA, Hawaii	5478 5479 5480 5481 5488 5489	13007 13008 13009 13010 13011
<i>Beauveria bassiana</i> 3040	5490	13012 13013 13014 13015 13016
	Uganda	13017 13018 13019 13020 13046
	<i>Fusarium</i> sp. 5879	13047 13048 13049 13050 13051
	USA, Hawaii	13052 13053 13054 13055 13056
	<i>Beauveria bassiana</i> 10471	13057 13058 13059 13060 13061
		13062 13063 13064 13065 13066
		13067 13068 13069 13070 13071

13072 13073 13074 13075 13076	<i>Tomicus pimperda</i>	<i>Pterohelaeus darlingensis</i>
13077 13078 13079 13080 13081	France	Australia
13082 13083 13084 13085 13086	<i>Beauveria</i> sp. 4909 4910 4911 4912	<i>Beauveria bassiana</i> 8065
13087 13089 13090 13091 13092	4913 4914 4915 4916 4917 4918	<i>Tenebrio molitor</i>
13093 13094		<i>Aspergillus flavus</i> 9381
<i>Beauveria</i> sp. 13377 13378 13379	Coleoptera: Scolytidae (Tribe Ipini)	Denmark
13380 13381	PR China	<i>Beauveria bassiana</i> 8038
USA, Hawaii	<i>Beauveria pseudobassiana</i> 6229	Finland
<i>Beauveria</i> sp. 13382 13383 13384	Coleoptera: Silphidae	<i>Beauveria bassiana</i> 5623
13385 13386 13387 13388 13389	Russian Federation	<i>Isaria fumosorosea</i> 5627
13390 13391 13392 13393 13394	<i>Isaria farinosa</i> 9511	<i>Metarhizium brunneum</i> 5626
13395	<i>Lecanicillium</i> sp. 9459	Mexico
USA, Hawai'i	Coleoptera: Staphylinidae	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria</i> sp. 13397	Australia	11945 11946 11947
USA, Hawaii	<i>Metarhizium anisopliae</i> sensu lato	Republic of China
<i>Beauveria</i> sp. 13398 13399	8734	<i>Isaria farinosa</i> 8917
USA, Hawai'i	Denmark	<i>Lecanicillium muscarium</i> 8923
<i>Beauveria</i> sp. 13407 13408 13409	<i>Beauveria bassiana</i> 4055	<i>Metarhizium anisopliae</i> sensu lato
13410 13411 13412	USA, New York	8775 8776 8777 8778 8779 8780
USA, Hawaii	<i>Metarhizium carneum</i> 11836	8781 8782 8783 8784 8785 8786
<i>Beauveria</i> sp. 13413 13414 13415	USA, Nebraska	8787 8788 8789 8790 8791 8792
13416 13417 13418 13419	<i>Beauveria bassiana</i> 3112	8793 8794 8795 8796 8797 8798
USA, Hawai'i	<i>Anotylus rugosus</i>	8799 8858 8859 8860 8861 8862
<i>Beauveria</i> sp. 13420	Denmark	8863 8864 8865 8866 8867 8868
USA, Hawaii	<i>Beauveria bassiana</i> 4051 4056	8869 8870 8871 8872 8873 8874
<i>Beauveria</i> sp. 13421 13422	<i>Anotylus</i> sp.	8875 8876 8877 8878 8879 8880
USA, Hawai'i	Denmark	8881 8882 8883 8884 8885 8886
<i>Beauveria</i> sp. 13423	<i>Beauveria bassiana</i> 4046	8887 8894 8895 8896 8897 8898
USA, Hawaii	<i>Gyrophynus angustatus</i>	8899 8900 8901 8902 8903 8904
<i>Beauveria</i> sp. 13424 13595	Denmark	8905 8906 8907 8908 8909 8910
USA, Texas	<i>Beauveria bassiana</i> 4054	8911 8912 8913 8914 8915 8916
<i>Candida</i> sp. 5729	<i>Staphylinus olens</i>	8941 8942 8943 8944 8945 8946
USA, Hawai'i	Denmark	8947 8948 8949 8950 8951 8952
<i>Hirsutella eleutheratorum</i> 13375	<i>Isaria farinosa</i> 4040	8953 8954 8955 9235 9236
<i>Metarhizium</i> sp. 13088	<i>Tachyporus hypnorum</i>	<i>Purpureocillium lilacinum</i> 8918
<i>Ips</i> sp.	Denmark	8919 8920 8921 8922
Canada, British Columbia	<i>Lecanicillium longisporum</i> 4050	<i>Scopulariopsis</i> sp. 11652
<i>Beauveria pseudobassiana</i> 1855	<i>Tachyporus</i> sp.	<i>Tribolium castaneum</i>
USA, Vermont	Denmark	Finland
<i>Lecanicillium</i> nr. <i>aranearum</i> 11799	<i>Beauveria bassiana</i> 4028	<i>Beauveria pseudobassiana</i> 5622
USA, New Hampshire	Coleoptera: Tenebrionidae	<i>Metarhizium anisopliae</i> sensu lato
<i>Lecanicillium muscarium</i> 11803	Brazil, Ceará	5624
<i>Ips stenographus</i>	<i>Beauveria bassiana</i> 757 783 787	<i>Metarhizium brunneum</i> 5625
Norway	Kazakhstan	USA, Washington
<i>Beauveria bassiana</i> 6900	<i>Beauveria bassiana</i> 6478 6483	<i>Metarhizium anisopliae</i> sensu lato
<i>Ips typographus</i>	<i>Verticillium lecanii</i> 6487	3389
Denmark	Republic of Korea	<i>Metarhizium robertsii</i> 3388
<i>Beauveria brongniartii</i> 4024	<i>Isaria farinosa</i> 5699	
Slovakia	USA, Vermont	
<i>Beauveria bassiana</i> 12957 12958	<i>Isaria farinosa</i> 11827	
12960 12961 12962 12964 12965	Uzbekistan	
12966 12967 12968 12970 12971	<i>Beauveria bassiana</i> 6057 6064 6077	
12973 12974 12975 12977 12978	6078 6096 6113	
12979 12980	<i>Alphitobius diaperinus</i>	
<i>Beauveria caledonica</i> 12963 12969	<i>Beauveria bassiana</i> 5836 5838 5839	
12972	5840 5843	
<i>Beauveria pseudobassiana</i> 12959	<i>Isaria fumosorosea</i> 5844 5845 5846	
12976 12981	5847	
Switzerland	<i>Metarhizium anisopliae</i> sensu lato	
<i>Beauveria bassiana</i> 7525 7526	5837 5841 5842 5848 5850	
<i>Tomicus minor</i>	<i>Verticillium lecanii</i> 5849	
France	Denmark	
<i>Beauveria bassiana</i> 4980 5071	<i>Isaria farinosa</i> 5858	
<i>Beauveria pseudobassiana</i> 4933	USA, West Virginia	
5070	<i>Beauveria bassiana</i> 7941	

Argentina

Buenos Aires
Beauveria bassiana 5501 7202 7466
 7471 8461 8520 8521 8522 8523 8524
 8525 8526 8530
Beauveria sp. 7463
Isaria farinosa 2973
Metarhizium brunneum 6120
 Corrientes
Beauveria bassiana 8464
 Tucumán
Beauveria bassiana 2010 2509 2515
 7470 8372 8373 8462 8463

Australia

Metarhizium brunneum 4125 4228
 Australian Capital Territory
Beauveria bassiana 7853
Metarhizium anisopliae sensu lato
 7863 8837 8838
 New South Wales
Beauveria bassiana 4130 7813 8763
 8853 8854
Isaria fumosorosea 8892
Metarhizium anisopliae sensu lato
 4568 4574 4777 4778 4779 4780 7498
 7499 7500 7814 8492 8495 8764 8765
 8766 8767 8829 8844
Metarhizium brunneum 472
Metarhizium majus 4566 4601
Metarhizium sp. 7495 8851 8852 8855
 8856 8857
 Northern Territory
Metarhizium anisopliae sensu lato
 8745 8746 8747
 Queensland
Beauveria bassiana 325 8065
Metarhizium anisopliae var. *lepidiotae*
 7453 8732
Metarhizium anisopliae sensu lato
 7451 7496 7504 7816 7819 7824 7825
 7826 7827 7828 7829 7830 7831 7832
 7839 7842 7843 7844 7846 7854 7864
 7865 7931 8564 8610 8620 8733 8734
 8744 8754 8755 8761 8762 8828 8833
 8834 8839 8845 8847 8850 10469
Metarhizium anisopliae sensu stricto
 7450 8500 8586 8615 8616 8617
Metarhizium lepidiotae 7411 7412
 7488
Metarhizium majus 7505
Metarhizium pingshaense 7410 7417
 7452 8566 8618 8619 8621
Metarhizium robertsii 7449 8558 8559
 8563 8565 8567 8577 8582 8583 8592
Paraisaria dubia 5764
 South Australia
Metarhizium anisopliae sensu lato
 347 4132 4133 4139 7845
Metarhizium brunneum 346 4131
Penicillium sp. 348
 Tasmania
Beauveria amorpha 4149
Beauveria bassiana 4135 4136 4642
 8835 8836
Beauveria pseudobassiana 4274 4721

Isaria fumosorosea 8840
Metarhizium anisopliae sensu lato
 4134 4137 4138 4141 4236 4346 4677
 4716 4722
Metarhizium flavoviride 4719 4720
 Sterile mycelium 4243
 Unidentified sp. 4140
 Victoria
Beauveria bassiana 8756 8757
Metarhizium anisopliae sensu lato
 7815
Metarhizium frigidum 4124
Metarhizium robertsii 8543 8544 8545
 8546 8547 8548
 Western 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

Azores

Beauveria amorpha 4990
Beauveria bronngiartii 4991 4992
 4993 4994 4995

Belarus

Isaria sp. 9519
Purpureocillium lilacinum 9524
Polycephalomyces sp. 9497
Lecanicillium fungicola 9483

Belgium

Beauveria bassiana 1848

Benin

Fusarium sp. 5875 5878
Purpureocillium lilacinum 5876 5877
 5880 5882 6188 6190

Brazil

Beauveria bassiana 1833 3219
Beauveria sp. 1835
Isaria amoenerosea 4097

Alagoas

Beauveria bassiana 1954 1956
Isaria farinosa 1957

Amazonas

Beauveria bassiana 731 732 756 2512
Isaria fumosorosea 2956

Bahia

Beauveria bassiana 1961 2075
Metarhizium anisopliae sensu lato
 1958

Ceará

Beauveria bassiana 753 757 783 784
 785 786 787 788 804 805 4001

Distrito Federal

Metarhizium anisopliae sensu lato
 3479

Espírito Santo

Beauveria bassiana 1483

Goiaés

Beauveria bassiana 733 734 735 736
 738 739 752 754 758 809 928 930 931
 934 956 1451 1476 1971 2079 2625
 2626 2938 2942 2961

Isaria amoenerosea 741 744 2220 2958
 2959 2960
Isaria fumosorosea 722 2216 2217
 2219 2221
Metarhizium anisopliae sensu lato
 725 726 760 808 929 932 939 1885
 2076 2077 2513 2635 2941
Metarhizium robertsii 724 2514
Purpureocillium lilacinum 723 2952
Penicillium sp. 2950
Pochonia chlamydosporia var.
chlamydosporia 2218
 Mato Grosso
Beauveria bassiana 937 938 941 942
 943 946 947 948 949 950 951 952
 953 982
Metarhizium anisopliae sensu lato
 954
 Pará
Beauveria caledonica 2251
Metarhizium anisopliae sensu lato
 1901
 Paraná
Beauveria bassiana 958 1060 1061
 1450 1453 1454 1455 1458 1461 1462
 1463 1466 1469 2511 2520 2642
Metarhizium anisopliae sensu lato
 1056 1452 1989
Metarhizium anisopliae sensu stricto
 3924
 Rio de Janeiro
Purpureocillium lilacinum 1951
 Rio Grande do Sul
Beauveria bassiana 1456 1459 1460
 1464 1465 1475 3098
 Unidentified sp. 3471 3478
 Santa Catarina
Beauveria bassiana 1467 1470 1471
 1472 1473
 São Paulo
Beauveria bassiana 1480 1966 2559
 2638 2639 2945 2946
Cameroon
 Centre-Sud
Beauveria bassiana 6526 6527 6528
 6529 6530 6531 6532
Canada
Beauveria bassiana 9184
Metarhizium anisopliae sensu lato
 2135 2136 2137 2138 2139 8499
Metarhizium robertsii 2134
 British Columbia
Beauveria bassiana 1849 1852 1853
 1854 7972 7978
Beauveria pseudobassiana 1855
Evlachovaea sp. 1017
Lecanicillium muscarium 8048 8049
 8050 8051 8052 8053 8054
Lecanicillium pissodis 8055 8056 8057
Tolypocladium cylindrosporium 7456
 Ontario
Beauveria bassiana 5807 10393 10394
 10395 10396 10397 10398 10399
 10400 10401 10402 10403 10404
 10405 10406 10407 10408 10409

Geographical Origin

10410 10411 10412 10413 10414	<i>Isaria farinosa</i> 5858	France
10415 10416 10417 10418 10419	<i>Verticillium lecanii</i> 5856	<i>Aphanocladium album</i> 1329
10420 10421 10422 10423 10424	Lammfjorden	<i>Beauveria bassiana</i> 149 150 384 1157
10425 10426 10427 10428 10429	<i>Erynia</i> sp. 2664	1159 1160 1165 1167 1168 1169 1170
10430 10431 10432 10433 10434	Storstrøm	1182 1186 1306 1389 1515 1982
10435 10436 10437 10438 10439	<i>Beauveria bassiana</i> 4015	<i>Beauveria brongniartii</i> 617 979
10440 10441 10442 10443 10444	Vestsjælland	<i>Lecanicillium muscarium</i> 1328 1401
10445 10446 10447 10448 10449	<i>Zoophthora anglica</i> 2505	1402 1403
10450 10451 10452 10453 10454	Zealand	<i>Metarhizium guizhouense</i> 977
10455 10456 10457 10458 10459	<i>Beauveria bassiana</i> 4013 4018 4023	<i>Metarhizium majus</i> 978 3145
10460 10461 10462 10463 10464	4034 4038 4041 4046 4049 4052 4054	Ardennes
10465 10466 10467 10468	8037 8038	<i>Beauveria bassiana</i> 1647
Québec	<i>Beauveria caledonica</i> 8024	Charente
<i>Beauveria bassiana</i> 2983 2984 2985	<i>Beauveria</i> sp. 4027	<i>Scopulariopsis</i> sp. 2327
2986 2987 2988 2989 2990 2991	<i>Fusarium</i> sp. 4011	Charente-Maritime
<i>Metarhizium robertsii</i> 2981	<i>Isaria farinosa</i> 4039 4045	<i>Beauveria bassiana</i> 1975 1980
China	<i>Lecanicillium longisporum</i> 4050	de Gourgas
<i>Beauveria asiatica</i> 4384 4474	Sterile mycelium 4009	<i>Beauveria bassiana</i> 4980
<i>Beauveria brongniartii</i> 4385 4386	Unidentified sp. 4037	<i>Beauveria pseudobassiana</i> 4933
4388 4465 4466 4467 4468 4469	<i>Verticillium lecanii</i> 4047 4048	<i>Isaria farinosa</i> 5080
4470 4471 4472 4473 4475 4476 4477	Zeeland	Drôme
4478	<i>Beauveria bassiana</i> 4016 4028 4032	<i>Beauveria bassiana</i> 1398 1399
<i>Mixed Culture</i> sp. 4387	<i>Erynia</i> sp. 2525 2536 2537 2538 2539	Eure
Colombia	2553 2662 2663	<i>Beauveria bassiana</i> 1073 1074 1075
<i>Beauveria bassiana</i> 842	<i>Isaria farinosa</i> 4029 4040	1158 1193
Caldas	<i>Lecanicillium muscarium</i> 4033	Eure-et-Loir
<i>Acremonium alternatum</i> 7282	Ecuador	<i>Beauveria bassiana</i> 1192
<i>Fusarium nygamai</i> 6602	<i>Beauveria pseudobassiana</i> 2557	Finistere
Cauca		<i>Beauveria bassiana</i> 815
<i>Eulachovaea</i> sp. 7551		<i>Beauveria pseudobassiana</i> 813 814
Cundinamarca		<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium robertsii</i> 797		818
Nariño		<i>Metarhizium brunneum</i> 817
<i>Beauveria bassiana</i> 2248 2249 2250		Haute-Savoie
<i>Isaria farinosa</i> 799		<i>Acremonium furcatum</i> 1372
Valle del Cauca		Hérault
<i>Beauveria bassiana</i> 721		<i>Beauveria bassiana</i> 816 1185 5071
Commonwealth of Independent States		5072
<i>Beauveria bassiana</i> 2695		<i>Beauveria pseudobassiana</i> 5070
Costa Rica		<i>Isaria farinosa</i> 5073 5074 5075
Cartago		<i>Metarhizium guizhouense</i> 819
<i>Beauveria bassiana</i> 3437 3438 3439		La Valette
3441 3442 3444 3446 3447 3450 3451		Unidentified sp. 3980
3452 3455 3457		Loire
Czech Republic		Unidentified sp. 1634 1667
<i>Metarhizium flavoviride</i> 2133		Loiret
Denmark		<i>Beauveria bassiana</i> 1191
<i>Batkoo</i> sp. 5810		Maine-et-Loire
<i>Beauveria bassiana</i> 4019		<i>Metarhizium brunneum</i> 820
<i>Beauveria brongniartii</i> 4024		Morbihan
<i>Isaria farinosa</i> 4043 4044		<i>Metarhizium flavoviride</i> 1184 2024
<i>Lecanicillium muscarium</i> 4036		Réunion
<i>Verticillium lecanii</i> 4022		<i>Metarhizium anisopliae</i> sensu lato
Århus		3148
<i>Metarhizium brunneum</i> 4020		Reunion Island
Funen		<i>Beauveria hoplocheli</i> 13021
<i>Beauveria bassiana</i> 5857		Vaucluse
Fyn		<i>Beauveria bassiana</i> 1509 1510 1511
<i>Beauveria bassiana</i> 4051 4055 4056		1518 1519
Jutland		<i>Beauveria</i> sp. 4909 4910 4911 4912
<i>Beauveria bassiana</i> 4021 4031		4913 4914 4915 4916 4917 4918
		<i>Isaria farinosa</i> 1507 1508
		<i>Isaria fumosorosea</i> 1506
		<i>Lecanicillium lecanii</i> 1505
		Vienne
		<i>Beauveria bassiana</i> 1491

Vosges <i>Beauveria</i> sp. 1327	Japan <i>Beauveria brongniartii</i> 6235 <i>Harposporium janus</i> 5601	Guanajuato State Unidentified sp. 3821
Yvelines <i>Beauveria bassiana</i> 1156 1161 1162 1194 2463	Aichi Prefecture <i>Beauveria bassiana</i> 1041	Jalisco <i>Beauveria bassiana</i> 2330 5741 5742 5743 5744 5745 <i>Metarhizium anisopliae</i> sensu lato 2331
Germany <i>Metarhizium brunneum</i> 5198 <i>Metarhizium robertsii</i> 1910	Aomori Prefecture <i>Mixed Culture</i> sp. 1043	Mexico <i>Metarhizium robertsii</i> 2469
Hesse <i>Beauveria bassiana</i> 340 <i>Beauveria brongniartii</i> 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364	Fukuoka Prefecture <i>Metarhizium majus</i> 12557	Nuevo León <i>Metarhizium anisopliae</i> sensu lato 11945
Rheinhessen-Pfalz <i>Evlachovaea</i> sp. 7403	Hokkaido <i>Beauveria brongniartii</i> 4389 4458 <i>Beauveria</i> sp. 4390 4391 4392 Unidentified / Hyphomycetes 5223 5224 5225 5226 5227	Oaxaca <i>Beauveria bassiana</i> 3818 3819
Ghana Unidentified / Hyphomycetes 8641	Ibaraki Prefecture <i>Beauveria brongniartii</i> 6412 <i>Beauveria sungii</i> 1685	Tabasco <i>Beauveria bassiana</i> (?) 6890 6891
Hungary Csongrád <i>Beauveria bassiana</i> 6884 6885	Kumamoto Prefecture <i>Beauveria bassiana</i> 1679	Veracruz <i>Metarhizium anisopliae</i> sensu lato 11946 11947
India <i>Beauveria brongniartii</i> 2660 <i>Beauveria</i> sp. 2412 <i>Metarhizium guizhouense</i> 3603 <i>Metarhizium pingshaense</i> 2231 3210	Nagano Prefecture <i>Beauveria amorpha</i> 1676 <i>Beauveria bassiana</i> 1683 <i>Beauveria</i> sp. 1682 <i>Cordyceps brongniartii</i> 7516	Morocco <i>Beauveria bassiana</i> 1153 1154 1155 1163 1164 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1183 1188 1189 1190 1309 1311 1312 1313 1811 1815 1816 1817 1818 1819 1820 1821 <i>Fusarium proliferatum</i> 1310
Tamil Nadu <i>Beauveria</i> sp. 8250 <i>Metarhizium anisopliae</i> sensu stricto 10472 10475 10476	Nagasaki Prefecture <i>Beauveria bassiana</i> 1678	Myanmar <i>Metarhizium anisopliae</i> sensu stricto 8738 <i>Metarhizium pingshaense</i> 8739 8740 8741 8742 8743
Indonesia <i>Metarhizium brunneum</i> 2224	Tokyo Prefecture <i>Beauveria amorpha</i> 1680 <i>Beauveria brongniartii</i> 985 <i>Beauveria</i> sp. 1681 <i>Metarhizium robertsii</i> 1046 <i>Paecilomyces canadensis</i> 984 <i>Tilachlidium</i> sp. 2415	Nepal <i>Cordyceps scarabaeicola</i> 7277 7278 Parbat District <i>Metarhizium anisopliae</i> sensu lato 7527 7529
Jawa Barat, Java <i>Metarhizium majus</i> 2151	Kazakhstan <i>Beauveria bassiana</i> 6478 6483 <i>Isaria farinosa</i> 6488 6489 6491 <i>Verticillium lecanii</i> 6487 <i>Verticillium</i> sp. 6484 6501	Netherlands <i>Beauveria brongniartii</i> 7761 <i>Hirsutella fusiformis</i> 5474
Sulawesi <i>Fusarium</i> sp. 7063	Kenya <i>Beauveria bassiana</i> 2685 2686 2687	New Zealand <i>Metarhizium anisopliae</i> sensu stricto 2518 South Island <i>Beauveria bassiana</i> 8077 8078 8079 <i>Beauveria brongniartii</i> 3054 <i>Beauveria pseudobassiana</i> 3055 3063 3065 3066 3070 <i>Metarhizium anisopliae</i> sensu lato 3057 <i>Metarhizium novozealandicum</i> 3056 <i>Metarhizium pingshaense</i> 7435
Sulawesi Selatan, Celebes <i>Aspergillus parasiticus</i> 2173 <i>Metarhizium brunneum</i> 2210 Unidentified / Hyphomycetes 2225	Kyrgyz Republic <i>Beauveria bassiana</i> 6499 <i>Verticillium</i> sp. 6486	Nicaragua <i>Beauveria bassiana</i> 3440 3443 3445 3448 3453
Iran Sistan Va Baluchestan <i>Beauveria bassiana</i> 6903	Malawi Southern <i>Beauveria malawiensis</i> 7760	Norway Akershus <i>Beauveria bassiana</i> 6900 11660 Østfold <i>Metarhizium anisopliae</i> sensu lato 6901 <i>Metarhizium brunneum</i> 6477
Israel <i>Conidiobolus osmodes</i> 79 <i>Conidiobolus</i> sp. 80 81 <i>Zoophthora phytonomi</i> 82 113 191 192	Malaysia <i>Beauveria</i> sp. 547 <i>Metarhizium flavoviride</i> 8737	
Italy <i>Beauveria bassiana</i> 1559 1560 1561 1562 1563	Mexico <i>Beauveria bassiana</i> 319 2693 3287 3309 3311 9297 9298 9299 9300 9301 9302 <i>Metarhizium anisopliae</i> sensu lato 3305 3306 3308	
Sicily <i>Beauveria bassiana</i> 1106	Chiapas <i>Isaria fumosorosea</i> 7284	
Ivory Coast <i>Beauveria bassiana</i> 5436 5437 5438 5439 5440 5441 5442 5459 5460 5477 5482 5483 5484 5485 5486 5487 <i>Fusarium</i> sp. 5461 <i>Isaria fumosorosea</i> 6730	Colima <i>Beauveria bassiana</i> 3310 5740	
	Durango <i>Lecanicillium</i> sp. 2(?) 2832	

Geographical Origin

Papau New Guinea

Morobe Province
Metarhizium guizhouense 4604

Papua New Guinea

Metarhizium anisopliae sensu lato
2156 2163 2165 2166 2167 8748
Metarhizium pingshaense 2162 3604
Scopulariopsis sp. 2169
Synnematium jonesii 5664

Peru

Beauveria bassiana 5982
Andes Mountains
Beauveria amorpha 1969
Junín
Beauveria bassiana 5983
La Libertad
Beauveria bassiana 5984

Philippines

Benguet
Beauveria bassiana 3197 3198 3199
Manila
Beauveria brongniartii 1431
Isaria farinosa 2355 2379
Quezon
Metarhizium majus 1914 1946

Poland

Beauveria bassiana 301
Beauveria pseudobassiana 157
Lecanicillium muscarium 1335
Metarhizium majus 1858 1859
Polycephalomyces formosus 1424
Unidentified sp. 1429 1430

Portugal

Azores
Beauveria bassiana 5148 5150
Isaria fumosorosea 2679
Metarhizium anisopliae sensu lato
3329 4907 4908
Metarhizium brunneum 3864
Metarhizium robertsii 5149
Metarhizium sp. 3863 3865
Unidentified sp. 3841

PR China

Beauveria bassiana 6387
Anhui
Beauveria amorpha(?) 6827
Beauveria bassiana 6390 8414
Isaria cateniannulata 6241 6243
Isaria cateniobliqua 6244
Metarhizium pingshaense 8420
Scopulariopsis sp. 8421
Gansu Province
Beauveria bassiana 7155 7164
Guizhou Province
Beauveria pseudobassiana 6229
Isaria fumosorosea 9602
Hebei Province
Beauveria bassiana 7156 7157 7166
7167 7168 7169 7170 7171 7172 7173
7174 7175 7176 7177 7178
Kwon Tung
Metarhizium guizhouense 683

Shaanxi Province

Beauveria lii 11741

Yunnan Province

Mixed Culture sp. 11718

Republic of China

Taiwan
Isaria farinosa 8917
Lecanicillium muscarium 8923
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
Purpureocillium lilacinum 8918 8919
8920 8921 8922
Scopulariopsis sp. 11652

Republic of Georgia

Autonomous Republic of Adjara
Eulachovaea kintrischica 7218 8058
Kvemo Kartli
Beauveria bassiana sensu stricto
13750 13751

Republic of Kazakhstan

Beauveria bassiana 10350

Republic of Korea

Beauveria bassiana 2040
Beauveria sp. 4853
Cordyceps sp. 4852
Chungnam Province
Beauveria sp. 5697
Gyeongbuk Province
Beauveria bassiana 7275
Gyeonggi Province
Beauveria bassiana 7266
Isaria farinosa 5699
Unidentified / Hyphomycetes 5695
Jeju Province
Beauveria bassiana 7241 7271 7272
Jheonnam
Beauveria bassiana 7270
Kangwon-do
Beauveria bassiana 6721 7244 7247
7251 7261 7264
Beauveria brongniartii 7268
Beauveria sungii 5689 7279 7280
Isaria amoenerosea 4849
Isaria farinosa 7276
Isaria fumosorosea 5694
Lecanicillium muscarium 7248

Russian Federation

Karachayev-Cherkessiya Republ
Beauveria brongniartii 9452
Isaria farinosa 9511
Lecanicillium sp. 9459
Krasnodarsky Krai
Beauveria bassiana 9444
Metarhizium sp. 7643
Moscow Region
Beauveria bassiana 9441 9449
Isaria coleopterorum 9509
Lecanicillium nr. *aranearum* 9460
Primorsky Krai
Beauveria bassiana 7581 9442
Beauveria sp. 7580 7591
Clonostachys rosea 9491
Cordyceps sp. 7848
Engyodontium rectidentatum 7805
Isaria fumosorosea 7716
Lecanicillium sp. 7635 7636
Polycephalomyces sp. 9496
Tolypocladium cylindrosporium 7812
Sakhalin Region
Sporothrix insectorum 9502

Slovakia

Beauveria bassiana 12957 12958
12960 12961 12962 12964 12965
12966 12967 12968 12970 12971
12973 12974 12975 12977 12978
12979 12980
Beauveria caledonica 12963 12969
12972
Beauveria pseudobassiana 12959
12976 12981

Solomon Islands

Metarhizium anisopliae sensu lato
4333 4334 4335 4336 4337 4338 4339
4341 4558 4572 4582
Metarhizium pingshaense 4290 4340
4342 4557 4610

Sri Lanka

Beauveria bassiana 7758

Switzerland

Beauveria brongniartii 1069
Beauveria varroae 2694
Conidiobolus coronatus 1572 1573
1574 1575
Metarhizium anisopliae sensu lato
1377
Metarhizium brunneum 1066
Pandora blunckii 915 917 920
Zoophthora anglica 396 918
Bern
Beauveria brongniartii 7528
Graubünden
Metarhizium anisopliae sensu lato
7524
Lucerne
Beauveria bassiana 7525 7526
Schaffhausen
Beauveria bassiana 1566
Beauveria caledonica 1567

Switzerland

USA

Thurgau
Beauveria brongniartii 1067 1068
1070 1071 1072 1076 1077

Uri
Metarhizium anisopliae sensu lato
7532

Zurich
Pandora blunckii 1715 1716 1717 1718

Syria

Purpureocillium lilacinum 6110

Tanzania

Unidentified / Hyphomycetes 11666

Thailand

Metarhizium pingshaense 538

Togo

Beauveria bassiana 2688 2689 2690
2691 2692 5443 5444 5445 5446 5447
5448 5449 5450 5451 5452 5453 5454
5455 5456 5457 5458 5478 5479 5480
5481 5488 5489 5490

Trinidad

Beauveria bassiana 13506
Beauveria sp. 13661

Turkey

Beauveria bassiana 10347

Gaziantep

Beauveria bassiana 5670
Beauveria pseudobassiana 5669 5678
Beauveria sp. 5833
Isaria farinosa 5754 5834

Gümüşhane

Beauveria bassiana 8668

Hatay

Beauveria pseudobassiana 5668
Unidentified / Hyphomycetes 5677

Kahraman Maras

Beauveria sp. 5831

Trabzon

Beauveria bassiana(?) 9271
Beauveria sp. 9272
Clonostachys rosea 11678 11682 11687
Fusarium sp. 9273 9274 11670 11671
11672 11673 11674 11675 11677
11679 11680 11684
Isaria farinosa 9269 9270 9275 9276
9277 9278
Lecanicillium muscarium 9267 9268
Metarhizium guizhouense 11668
11669
Mixed Culture sp. 11676
Metarhizium sp. 11685 11686
Penicillium sp. 11681 11683

Uganda

Fusarium sp. 5879

Ukraine

Autonomous Republic of Crimea
Simplicillium lamellicola 9479
Kherson Oblast
Beauveria sp. 7595
Isaria farinosa 9516
Isaria fumosorosea 9521

United Kingdom

Beauveria bassiana 6552 6559 6560
7764 7769 7773 7774
Metarhizium anisopliae sensu lato
6549 6551
Metarhizium anisopliae sensu stricto
6546
Verticillium lecanii 6545
England
Beauveria bassiana 7763
Metarhizium anisopliae sensu lato
13219 13221
Zoophthora anglica 1739

Uruguay

Fusarium sp. 12461

USA

Metarhizium anisopliae sensu lato
1903
Metarhizium robertsii 3608
Arkansas
Beauveria bassiana 7404
Sorosporella uwelli 1123
California
Metarhizium robertsii 1897
Connecticut
Beauveria bassiana 6393
Metarhizium anisopliae sensu lato
3713 3720 6388
Metarhizium brunneum 6392 7234
8415 8416 8417 8418 8419
Metarhizium robertsii 3721
Unidentified sp. 3722
Delaware
Zoophthora phytonomi 2188
Florida
Aspergillus nidulans(?) 6515
Beauveria bassiana 412 413 416 5979
5981 5986
Cladosporium sphaerospermum 6516
Isaria javanica 322
Metarhizium pingshaense 5197
Purpureocillium lilacinum 410
Sporothrix sp. 13426
Stilbella buquetii 2915
Tilachlidium sp. 10132

Georgia

Beauveria bassiana 336 337 2676
Fusarium proliferatum 2568 2569
Metarhizium anisopliae sensu lato
11951

Hawai'i

Beauveria bassiana 8705 12573 12574
12575 12576 12577 12578 12579
12580 12581 12582 12583 12584
12585 12586 12587 12588 12589
12590 12591 12592 12593 12594
12595 12596 12597 12598 12599
12600 12601 12602 12603 12604
12605 12606 12607 12608 12609
12610 12611 12612 12613 12614
12615 12616 12617 12618 12619
12620 12805 12806 12807 12808
12809 12810 12811 12812 12813
12814 12815 12816 12821 12891
12892 12893 12894 13522 13523

Geographical Origin

13524 13525 13526 13527 13528
13529 13530 13531 13532 13533
13534 13535 13536 13537 13538 13539
13591 13592 13593 13594
Beauveria bassiana sensu lato 12982
12983 12984 12985 12986 12987
12988 12989 12990 12991 12992
12993 12994 12995 12996 12997
12998 12999 13000 13001 13002
13003 13004 13005 13006 13007
13008 13009 13010 13011 13012
13013 13014 13015 13016 13017
13018 13019 13020 13046 13047
13048 13049 13050 13051 13052
13053 13054 13055 13056 13057
13058 13059 13060 13061 13062
13063 13064 13065 13066 13067
13068 13069 13070 13071 13072
13073 13074 13075 13076 13077
13078 13079 13080 13081 13082
13083 13084 13085 13086 13087
13089 13090 13091 13092 13093
13094
Beauveria sp. 13377 13378 13379
13380 13381 13397 13407 13408
13409 13410 13411 13412 13420
13423
Hirsutella eleutheratorum 13375
Metarhizium sp. 13088
Hawaii
Beauveria bassiana 3040 10471 13515
13516 13517 13518 13519 13520
13521 13536 13542 13543 13544
13545 13546 13547 13548 13549
13550 13551 13552 13554 13555
13556 13557 13558 13559 13560
13561 13562 13563 13564 13565
13566 13567 13568 13569 13572
13573 13574 13575 13576 13577
13578 13579 13580 13581 13582
13583 13584 13585 13586 13587
13588 13596 13597 13598
Beauveria sp. 13370 13382 13383
13384 13385 13386 13387 13388
13389 13390 13391 13392 13393
13394 13395 13398 13399 13413
13414 13415 13416 13417 13418
13419 13421 13422 13424 13595
Metarhizium anisopliae sensu lato
9217 9218
Illinois
Beauveria bassiana 7152 7153 7154
Beauveria bassiana sensu lato 14002
Metarhizium anisopliae sensu lato
7180
Zoophthora phytonomi 3342 3343
3344
Kansas
Beauveria bassiana 6471
Metarhizium robertsii 6472
Kentucky
Beauveria bassiana 2270
Beauveria brongniartii 2271
Zoophthora sp. 2623
Maine
Beauveria bassiana 33 252 353

Geographical Origin

Maryland	<i>Fusarium commune</i> 4825	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 8998	<i>Isaria farinosa</i> 8411	3389 7000 7001 7002 7003 7004 7005
Massachusetts	<i>Lecanicillium</i> nr. <i>aranearum</i> 11811	7006 7007 7008 7009
<i>Beauveria bassiana</i> 3037	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium robertsii</i> 3388
<i>Metarhizium anisopliae</i> sensu lato	1280 2548 3330 3331 3332 3333 3334	West Virginia
6389	3335 3336 3337 3338 3339 3340 4819	<i>Beauveria bassiana</i> 7941
<i>Penicillium</i> sp. 3036	4820 4821 4822 4823 4824 9372 9373	<i>Zoophthora phytonomi</i> 544
<i>Metapochonia bulbilosa</i> (?) 3035	9374 11850	
Sterile mycelium 3038	<i>Metarhizium robertsii</i> 1298 1878 2547	Uzbekistan
Unidentified sp. 3034	3108 3211 4123	<i>Beauveria bassiana</i> 6055 6057 6058
Unidentified / Hyphomycetes 3033	<i>Metarhizium carneum</i> 11836	6059 6061 6062 6063 6064 6074 6075
Michigan	<i>Purpureocillium lilacinum</i> 9371	6077 6078 6092 6095 6096 6099 6111
<i>Aspergillus flavus</i> 6469	<i>Tolyptocladium inflatum</i> 4877 4878	6112 6113
<i>Aspergillus</i> sp. 6571	4879 4880 4881 4882 4883 4884 4885	Vietnam
<i>Beauveria bassiana</i> 2580 5813 7160	4886 4887 4888 4889 4890 4891 4892	<i>Beauveria bassiana</i> sensu stricto 751
7161 7162 7163 7165 8260 8261 8262	4893 4894 4895 4896 4897 4898	
8263 8771 8772 8773 8774	Unidentified / Hyphomycetes 2999	
<i>Beauveria</i> sp. 8110 8111 8112 8113	<i>Zoophthora phytonomi</i> 202	Wales
8116 8117 8119 8120 8121 8122 8123	North Carolina	Carmarthenshire
8124 8125 8126 8127 8128 8129 8130	<i>Metarhizium robertsii</i> 23	<i>Metarhizium anisopliae</i> sensu lato
8132 8133 8134 8135 8136 8137 8138	North Dakota	13220
8139 8140 8141 8143 8144 8145 8146	<i>Beauveria bassiana</i> sensu lato 12444	West Africa
8147 8148 8149 8150 8151 8152 8153	12446 12447	Cape Verde Islands
8154 8156 8158 8159 8160 8161 8164	Oklahoma	<i>Beauveria bassiana</i> 4798 4799
8166 8167 8168 8169 8170 8171 8172	<i>Beauveria</i> sp. 12793 12794 12795	Western Samoa
8173 8174 8175 8176 8177 8178 8180	<i>Metarhizium anisopliae</i> sensu lato	Apia
8181 8182 8185 8186 8187 8188	12798	<i>Metarhizium anisopliae</i> sensu stricto
<i>Fusarium proliferatum</i> 8267	<i>Metarhizium robertsii</i> 12797 12799	2223
<i>Fusarium</i> sp. 8131 8266	<i>Metarhizium</i> sp. 12796	<i>Metarhizium majus</i> 297 298
<i>Isaria farinosa</i> 9944 9945	Oregon	Upolu Island
<i>Isaria fumosorosea</i> 8142	<i>Beauveria bassiana</i> 201 5997	<i>Metarhizium anisopliae</i> sensu lato
<i>Lecanicillium lecanii</i> 7181 7182 8115	<i>Beauveria bassiana</i> sensu lato 13257	1078
<i>Lecanicillium muscarium</i> 8114 8118	<i>Isaria farinosa</i> 2431 2937	Yugoslavia
8157 8163 8165	<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 505 506 507 510
<i>Lecanicillium muscarium</i> (?) 8162	2432 7494	Croatia
8265	<i>Metarhizium brunneum</i> 2107	<i>Beauveria bassiana</i> 509
<i>Metarhizium robertsii</i> 1968	Puerto Rico	Serbia
<i>Mucor circinelloides</i> 6470	<i>Beauveria bassiana</i> 13402 13403	<i>Beauveria bassiana</i> 504
Unidentified / Hyphomycetes 8155	13404 13405 13541	Voyvodina
8179 8183 8184 8264	Rhode Island	<i>Beauveria bassiana</i> 508
Montana	<i>Beauveria bassiana</i> 317 318	
<i>Beauveria bassiana</i> sensu lato 12434	<i>Paecilomyces</i> sp. 5196	
12435 12436 12437 12438 12439	South Carolina	
12440 12441 12442 12443 12445	<i>Beauveria bassiana</i> 2200	
12448 12449 12450 12451 12517	<i>Metarhizium robertsii</i> 2575	
12518 12519 12520 12521 12522	South Dakota	
Nebraska	<i>Beauveria bassiana</i> 2579	
<i>Beauveria bassiana</i> 2199 3111 3112	Texas	
<i>Beauveria bassiana</i> sensu lato 14001	<i>Aspergillus</i> sp. 7048	
New Hampshire	<i>Beauveria bassiana</i> 3097 5465 7795	
<i>Lecanicillium muscarium</i> 11803	<i>Candida</i> sp. 5729	
New Jersey	<i>Isaria javanica</i> 7119	
<i>Fusarium</i> sp. 3030 3031 3032	Vermont	
New York	<i>Beauveria bassiana</i> 11844	
<i>Beauveria bassiana</i> 350 534 535 1039	<i>Beauveria</i> sp. 5186	
1081 1619 1620 1621 1622 1623 1624	<i>Hirsutella thompsonii</i> 11819	
1704 1705 1706 1707 1708 1709 1710	<i>Isaria farinosa</i> 11827 11830 11831	
1711 1712 1713 1721 1722 1723 1749	<i>Lecanicillium</i> nr. <i>aranearum</i> 11799	
1750 1775 1776 1777 1778 1779 1780	<i>Lecanicillium evansii</i> (?) 11805	
1781 2030 2031 2032 2033 2034 3667	<i>Mixed Culture</i> sp. 5188	
4973 4974 4975 5533 5534 5535 5536	<i>Metarhizium</i> sp. 11849	
5537 6216 6217 6391 6986 6987 6988	<i>Paecilomyces</i> sp. 5184 5193	
7158 7159 7179 8412 8413	<i>Pochonia chlamydosporia</i> 3314	
<i>Beauveria brongniartii</i> 6213 6214	Washington	
6215	<i>Beauveria bassiana</i> 344 1079 3386	
<i>Erynia</i> sp. 5352		

Abbott Laboratories

89-201 *Beauveria bassiana* 2695

Agudelo-Silva, Fernando

10S87 *Isaria farinosa* 2431
20S87 *Metarhizium anisopliae* sensu lato
2432

Ahn, S.B.

E5-1 *Beauveria bassiana* 2040

Allee, Leslie

84-1 *Beauveria bassiana* 1704
84-10 *Beauveria bassiana* 1711
84-11 *Beauveria bassiana* 1712
84-12 *Beauveria bassiana* 1713
84-13 *Beauveria bassiana* 1721
84-16 *Beauveria bassiana* 1749
84-18 *Beauveria bassiana* 1750
84-19 *Beauveria bassiana* 1722
84-20 *Beauveria bassiana* 1723
84-22 *Beauveria bassiana* 1775
84-23 *Beauveria bassiana* 1776
84-24 *Beauveria bassiana* 1777
84-25 *Beauveria bassiana* 1778
84-26 *Beauveria bassiana* 1779
84-27 *Beauveria bassiana* 1780
84-28 *Beauveria bassiana* 1781
84-3 *Beauveria bassiana* 1705
84-4 *Beauveria bassiana* 1706
84-5 *Beauveria bassiana* 1707
84-7 *Beauveria bassiana* 1708
84-8 *Beauveria bassiana* 1709
84-9 *Beauveria bassiana* 1710

Alves, Sergio Batista

252 *Beauveria bassiana* 1480
267 *Beauveria bassiana* 1833
290 *Beauveria bassiana* 2559
290 *Beauveria bassiana* 2638
292 *Beauveria bassiana* 2639
295 *Beauveria* sp. 1835
61 *Beauveria bassiana* 1483
695 *Beauveria bassiana* 2642

Ansari, Minshad Ali

BNL102 *Metarhizium anisopliae* sensu
lato 13219
BNL103 *Metarhizium anisopliae* sensu
lato 13220
BNL104 *Metarhizium anisopliae* sensu
lato 13221

Aoki, Joji

Beau. 22 *Beauveria brongniartii* 985
Isa. 1 *Beauveria bassiana* 1041
Met. 6 *Metarhizium robertsii* 1046
Paec. 1 *Mixed Culture* sp. 1043
Paec. 6 *Paecilomyces canadensis* 984

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?1377 *Zoopthora anglica* 396
?396 *Metarhizium anisopliae* sensu lato
1377
?397 *Metarhizium brunneum* 1066
113 *Zoopthora phytonomi* 82
1184 *Metarhizium flavoviride* 2024
1451 (deaccessioned) *Beauveria bassiana*
1971
1452 (deaccessioned) *Metarhizium aniso-*
pliae sensu lato 1989
1634 Unidentified sp. 1667
1667 (deaccessioned) Unidentified sp.
1634
1989 *Metarhizium anisopliae* sensu lato
1452
2024 *Metarhizium flavoviride* 1184
2210 Unidentified / *Hyphomycetes* 2225
2225 *Metarhizium brunneum* 2210
2355 *Isaria farinosa* 2379
2379 (never frozen) *Isaria farinosa* 2355
252 *Beauveria bassiana* 5286
2547 *Metarhizium robertsii* 4123
2553 *Erynia* sp. 2662
2559 *Beauveria bassiana* 2638
2575 *Metarhizium robertsii* 3608
2638 *Beauveria bassiana* 2559
2662 (deaccessioned) *Erynia* sp. 2553
7453 *Metarhizium lepidiotae* 7488
7488 *Metarhizium anisopliae* var. *lepid-*
iotae 7453
82 (lost) *Zoopthora phytonomi* 113

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200994 *Tolyocladium inflatum* 4884
26156 *Beauveria brongniartii* 617
32804 *Hirsutella fusiformis* 5474
32969 *Metarhizium flavoviride* 2133
34178 *Ophiocordyceps aphodii* 5498
34292 *Zoopthora phytonomi* 82
34292 *Zoopthora phytonomi* 113
44767 *Synnematium jonesii* 5664
74040 *Beauveria bassiana* 7795
MYA-3093 *Metarhizium robertsii* 2575

Balazy, Stanislaw

1431 *Polycephalomyces formosus* 1424
1539 *Lecanicillium muscarium* 1335
1567 Unidentified sp. 1429
1573 Unidentified sp. 1430

Barta, Marek

IK10 *Beauveria bassiana* 12957
IK31 *Beauveria bassiana* 12958
IK38 *Beauveria pseudobassiana* 12959
IK44 *Beauveria bassiana* 12960
IK57 *Beauveria bassiana* 12961
MK11 *Beauveria caledonica* 12963
MK124 *Beauveria bassiana* 12967
MK129 *Beauveria bassiana* 12968
MK16 *Beauveria bassiana* 12964
MK205 *Beauveria caledonica* 12969
MK207 *Beauveria bassiana* 12970
MK236 *Beauveria bassiana* 12971
MK26 *Beauveria bassiana* 12965
MK263 *Beauveria caledonica* 12972
MK274 *Beauveria bassiana* 12973

MK299 *Beauveria bassiana* 12974
MK311 *Beauveria bassiana* 12975
MK331 *Beauveria pseudobassiana* 12976
MK336 *Beauveria bassiana* 12977
MK341 *Beauveria bassiana* 12978
MK380 *Beauveria bassiana* 12979
MK387 *Beauveria bassiana* 12980
MK39 *Beauveria bassiana* 12966
MK504 *Beauveria pseudobassiana* 12981
MK8 *Beauveria bassiana* 12962

Bauer, Leah S.

2UIC1817 *Aspergillus flavus* 6469
2UIC2463 *Mucor circinelloides* 6470
Legg Park 1 *Isaria farinosa* 9944
Legg Park 2 *Isaria farinosa* 9945

Bernal, M.C. Hugo Cesar Arredondo

BbGC1 *Beauveria bassiana* 5740
BbGC11 *Beauveria bassiana* 5745
BbGC2 *Beauveria bassiana* 5741
BbGC5 *Beauveria bassiana* 5742
BbGC8 *Beauveria bassiana* 5743
BbGC9 *Beauveria bassiana* 5744

Borisov, Boris A.

B.B. 2 *Evlachovaea kintrischica* 7218
B.B. 2 *Evlachovaea kintrischica* 8058

Brito, Jorge

14A *Beauveria bassiana* 4799
7A *Beauveria bassiana* 4798

Broadbent, A. Bruce

BB001 *Beauveria bassiana* 5807

Burjanadze, Medea

MB-094 *Beauveria bassiana* sensu stricto
13750
MB-095 *Beauveria bassiana* sensu stricto
13751

CAAS

4pl *Beauveria brongniartii* 4381
93.1 *Beauveria bassiana* 4382
CZN.9301 *Beauveria brongniartii* 4380

Castrillo, Louela A.

APMI1 *Beauveria bassiana* 8771
APMI2 *Beauveria bassiana* 8772
APMI3 *Beauveria bassiana* 8773
APMI4 *Beauveria bassiana* 8774
NY-1 *Beauveria bassiana* 6986
NY-11 *Beauveria bassiana* 6988
NY-5 *Beauveria bassiana* 6987

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1 *Beauveria bassiana* 3437
10 *Beauveria bassiana* 3446
11 *Beauveria bassiana* 3447
12 *Beauveria bassiana* 3448
14 *Beauveria bassiana* 3450
15 *Beauveria bassiana* 3451
16 *Beauveria bassiana* 3452
17 *Beauveria bassiana* 3453
19 *Beauveria bassiana* 3455
2 *Beauveria bassiana* 3438
21 *Beauveria bassiana* 3457
3 *Beauveria bassiana* 3439
4 *Beauveria bassiana* 3440

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- 5 *Beauveria bassiana* 3441
6 *Beauveria bassiana* 3442
7 *Beauveria bassiana* 3443
8 *Beauveria bassiana* 3444
9 *Beauveria bassiana* 3445
- CBS**
118231 *Lecanicillium pissodis* 8057
150.47 *Ophiocordyceps aphodii* 5498
205.33 *Hirsutella fusiformis* 5474
218.56 *Metarhizium flavoviride* 2133
305.95 *Tolypocladium inflatum* 4884
316.51 *Metarhizium brunneum* 2107
316.51 *Metarhizium anisopliae* sensu lato 7494
326.67 *Beauveria brongniartii* 7761
511.88 *Stilbella buquetii* 2915
700.74 *Metarhizium flavoviride* 1184
700.74 *Metarhizium flavoviride* 2024
- CCFC**
006988 *Tolypocladium inflatum* 4884
- CENARGEN**
CG 123 *Isaria fumosorosea* 2956
CG 162 *Isaria amoenerosea* 2958
CG 163 *Isaria amoenerosea* 2959
CG 164 *Isaria amoenerosea* 2960
CG 165 *Beauveria bassiana* 2961
CG 301 *Purpureocillium lilacinum* 1951
CG 304 Unidentified sp. 3471
CG 311 Unidentified sp. 3478
CG 339 *Metarhizium anisopliae* sensu lato 3479
CG 639 Unidentified / *Hyphomycetes* 8641
- CENICAFÉ**
Bb 9024 *Beauveria bassiana* 9184
- CEP**
059 *Beauveria bassiana* 7202
061 *Beauveria* sp. 7463
075 *Beauveria bassiana* 7466
083 *Beauveria bassiana* 7470
092 *Beauveria bassiana* 7471
112 *Beauveria bassiana* 8520
113 *Beauveria bassiana* 8521
114 *Beauveria bassiana* 8522
116 *Beauveria bassiana* 8523
117 *Beauveria bassiana* 8524
118 *Beauveria bassiana* 8525
119 *Beauveria bassiana* 8526
138 *Beauveria bassiana* 8461
141 *Beauveria bassiana* 8530
147 *Beauveria bassiana* 8372
148 *Beauveria bassiana* 8462
149 *Beauveria bassiana* 8463
150 *Beauveria bassiana* 8373
175 *Beauveria bassiana* 8464
- Chandler, David**
HRI 189.83 *Metarhizium anisopliae* sensu lato 6549
HRI 33.79 *Verticillium lecanii* 6545
HRI 335.92 *Metarhizium anisopliae* sensu lato 6551
HRI 342.92 *Beauveria bassiana* 6552
HRI 36.79 *Metarhizium anisopliae* sensu stricto 6546
HRI 386.93 *Beauveria bassiana* 6559
HRI 397.93 *Beauveria bassiana* 6560
- CIAT**
301 *Evlachovaea* sp. 7551
- CMPPB**
150 *Evlachovaea kintrischica* 7218
150 *Evlachovaea kintrischica* 8058
- CNPAF**
52 *Beauveria bassiana* 1450
53 *Metarhizium anisopliae* sensu lato 1452
53 *Metarhizium anisopliae* sensu lato 1989
81-11-25-04 *Beauveria bassiana* 756
81-11-25-05 *Beauveria bassiana* 731
81-11-25-07 *Beauveria bassiana* 732
82-07-27-01 *Beauveria bassiana* 928
82-1-15-02 *Beauveria bassiana* 735
82-1-15-05 *Isaria fumosorosea* 722
82-1-15-06 *Isaria amoenerosea* 741
82-1-6-01 *Beauveria bassiana* 733
82-1-6-02 *Metarhizium anisopliae* sensu lato 725
82-1-6-03 *Beauveria bassiana* 734
82-1-6-04 *Beauveria bassiana* 736
82-1-6-05 *Metarhizium anisopliae* sensu lato 726
82-1-6-10 *Purpureocillium lilacinum* 723
82-12-15-01 *Metarhizium anisopliae* sensu lato 929
82-12-15-02 *Beauveria bassiana* 930
82-12-20-01 *Beauveria bassiana* 931
82-12-20-02 *Metarhizium anisopliae* sensu lato 932
82-2-15-01 *Beauveria bassiana* 752
82-2-15-03 *Metarhizium anisopliae* sensu lato 760
82-2-15-04 *Metarhizium robertsii* 724
82-2-15-05 *Isaria amoenerosea* 744
82-2-3-01 *Beauveria bassiana* 739
82-2-9-01 *Beauveria bassiana* 738
82-3-1-03 *Beauveria bassiana* 758
82-3-23-01 *Beauveria bassiana* 757
82-3-24-01 *Beauveria bassiana* 753
82-4-29-01 *Beauveria bassiana* 785
82-4-30-01C *Beauveria bassiana* 784
82-4-30-01D *Beauveria bassiana* 804
82-4-4-01 *Beauveria bassiana* 754
82-5-3-01 *Beauveria bassiana* 805
82-5-3-03A *Beauveria bassiana* 788
82-5-3-03B *Beauveria bassiana* 786
82-5-6-01 *Beauveria bassiana* 787
82-5-6-02 *Beauveria bassiana* 783
82-6-28-01 *Beauveria bassiana* 809
- 82-7-23-01 *Metarhizium anisopliae* sensu lato 808
83-01-06A (CB 97) *Beauveria bassiana* 958
83-03-15-M *Beauveria bassiana* 947
83-03-15-O *Beauveria bassiana* 948
83-03-15-P *Beauveria bassiana* 949
83-03-15-Q *Beauveria bassiana* 950
83-03-15B *Beauveria bassiana* 951
83-03-15E *Beauveria bassiana* 946
83-03-15H *Beauveria bassiana* 952
83-03-16C *Beauveria bassiana* 941
83-03-16D *Beauveria bassiana* 942
83-03-16E *Beauveria bassiana* 943
83-03-16K *Beauveria bassiana* 953
83-03-16L *Metarhizium anisopliae* sensu lato 954
83-03-17B *Beauveria bassiana* 982
83-1-25-01 *Beauveria bassiana* 934
83-3-3-01 *Beauveria bassiana* 937
83-3-3-02 *Beauveria bassiana* 938
83-3-3-03 *Metarhizium anisopliae* sensu lato 939
83-5-27 *Beauveria bassiana* 956
84-02-30-2 *Beauveria bassiana* 1453
84-03-28-1E *Beauveria bassiana* 1458
84-03-28-1F *Beauveria bassiana* 1454
84-03-28-1G *Beauveria bassiana* 1462
84-03-28-1L *Beauveria bassiana* 1463
84-03-28-D *Beauveria bassiana* 1455
84-03-29-1 *Beauveria bassiana* 1461
84-03-31-2 *Beauveria bassiana* 1469
84-03-31-6 *Beauveria bassiana* 1466
84-04-02-1B *Beauveria bassiana* 1473
84-04-02-2 *Beauveria bassiana* 1472
84-04-02-3 *Beauveria bassiana* 1470
84-04-02-4 *Beauveria bassiana* 1471
84-04-02-5A *Beauveria bassiana* 1467
84-04-03-1A *Beauveria bassiana* 1465
84-04-03-1B *Beauveria bassiana* 1460
84-04-03-1C *Beauveria bassiana* 1475
84-04-03-1E *Beauveria bassiana* 1459
84-04-03-6A *Beauveria bassiana* 1456
84-04-03-6B *Beauveria bassiana* 1464
84-04-25-1 *Beauveria bassiana* 1476
84-3-12 *Beauveria bassiana* 1451
84-3-12 *Beauveria bassiana* 1971
85-05-02 *Purpureocillium lilacinum* 1951
85-7-22 *Beauveria bassiana* 1956
85-7-22-1 *Isaria farinosa* 1957
85-7-23-1 *Beauveria bassiana* 1954
85-7-24 *Beauveria bassiana* 2075
85-7-24-1 *Metarhizium anisopliae* sensu lato 1958
85-7-24-4 *Beauveria bassiana* 1961
86-06-02-2 *Isaria fumosorosea* 2217
86-06-05-1 *Isaria fumosorosea* 2216
86-06-05-1 *Isaria fumosorosea* 2221
86-06-05-3 *Isaria fumosorosea* 2219
86-06-05-4 *Isaria amoenerosea* 2220
86-06-05-6 *Pochonia chlamydosporia* var. *chlamydosporia* 2218
88-5-6 *Beauveria bassiana* 2625
88-5-6A *Beauveria bassiana* 2626
88-5-6B *Metarhizium anisopliae* sensu lato 2635

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- 25 *Metarhizium anisopliae* sensu lato 1056
- 31 *Beauveria bassiana* 1060
- 32 *Beauveria bassiana* 1061

Cortez Madrigal, Hipolito

- B1 *Beauveria bassiana*(?) 6890
- B2 *Beauveria bassiana*(?) 6891

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- 10 *Beauveria bassiana* 736
- 101 *Beauveria bassiana* 956
- 104 *Beauveria bassiana* 958
- 11 *Metarhizium anisopliae* sensu lato 726
- 124 *Beauveria bassiana* 1451
- 124 *Beauveria bassiana* 1971
- 125 *Beauveria bassiana* 1450
- 126 *Metarhizium anisopliae* sensu lato 1452
- 126 *Metarhizium anisopliae* sensu lato 1989
- 14 *Beauveria bassiana* 735
- 143 *Beauveria bassiana* 1453
- 144 *Beauveria bassiana* 1454
- 145 *Beauveria bassiana* 1455
- 146 *Beauveria bassiana* 1456
- 148 *Beauveria bassiana* 1458
- 149 *Beauveria bassiana* 1459
- 150 *Beauveria bassiana* 1460
- 151 *Beauveria bassiana* 1461
- 152 *Beauveria bassiana* 1462
- 153 *Beauveria bassiana* 1463
- 154 *Beauveria bassiana* 1464
- 155 *Beauveria bassiana* 1465
- 156 *Beauveria bassiana* 1466
- 157 *Beauveria bassiana* 1467
- 159 *Beauveria bassiana* 1469
- 160 *Beauveria bassiana* 1470
- 161 *Beauveria bassiana* 1471
- 162 *Beauveria bassiana* 1472
- 163 *Beauveria bassiana* 1473
- 165 *Beauveria bassiana* 1475
- 166 *Beauveria bassiana* 1476
- 168 *Beauveria bassiana* 1966
- 17 *Purpureocillium lilacinum* 723
- 174 *Metarhizium anisopliae* sensu lato 1885
- 176 *Purpureocillium lilacinum* 1951
- 179 *Beauveria bassiana* 1954
- 18 *Isaria fumosorosea* 722
- 181 *Beauveria bassiana* 1956
- 182 *Isaria farinosa* 1957
- 183 *Beauveria bassiana* 2075
- 184 *Metarhizium anisopliae* sensu lato 1958
- 187 *Beauveria bassiana* 1961
- 19 *Isaria amoenerosea* 741
- 194 *Metarhizium anisopliae* sensu lato 2076
- 195 *Metarhizium anisopliae* sensu lato 2077
- 198 *Beauveria bassiana* 2079
- 212 *Isaria fumosorosea* 2216
- 213 *Isaria fumosorosea* 2217

- 214 *Pochonia chlamydosporia* var. *chlamydosporia* 2218
- 215 *Isaria fumosorosea* 2219
- 216 *Isaria amoenerosea* 2220
- 217 *Isaria fumosorosea* 2221
- 221 *Beauveria bassiana* 2511
- 222 *Beauveria bassiana* 2520
- 224 *Metarhizium anisopliae* sensu stricto 2518
- 227 *Beauveria bassiana* 2515
- 229 *Beauveria bassiana* 2509
- 23 *Beauveria bassiana* 738
- 230 *Beauveria bassiana* 2559
- 230 *Beauveria bassiana* 2638
- 236A *Metarhizium anisopliae* sensu lato 2513
- 236B *Metarhizium robertsii* 2514
- 237 *Beauveria bassiana* 2512
- 240 *Beauveria bassiana* 2625
- 241 *Beauveria bassiana* 2626
- 25 *Metarhizium robertsii* 724
- 253 *Metarhizium anisopliae* sensu lato 2635
- 26 *Isaria amoenerosea* 744
- 27 *Beauveria bassiana* 739
- 270 *Beauveria bassiana* 2938
- 272 *Metarhizium anisopliae* sensu lato 2941
- 273 *Purpureocillium lilacinum* 2952
- 274 *Beauveria bassiana* 2942
- 278 *Penicillium* sp. 2950
- 281 *Beauveria bassiana* 2946
- 29 *Beauveria bassiana* 758
- 290 *Beauveria bassiana* 2945
- 31 *Metarhizium anisopliae* sensu lato 760
- 34 *Beauveria bassiana* 752
- 35 *Beauveria bassiana* 757
- 36 *Beauveria bassiana* 753
- 38 *Beauveria bassiana* 754
- 4 *Beauveria bassiana* 756
- 46 *Beauveria bassiana* 785
- 47 *Beauveria bassiana* 784
- 478(479?) *Beauveria bassiana* 3219
- 48 *Beauveria bassiana* 804
- 49 *Beauveria bassiana* 805
- 5 *Beauveria bassiana* 731
- 50 *Beauveria bassiana* 788
- 51 *Beauveria bassiana* 786
- 58 *Beauveria bassiana* 787
- 59 *Beauveria bassiana* 783
- 6 *Beauveria bassiana* 732
- 61 *Beauveria bassiana* 809
- 62 *Metarhizium anisopliae* sensu lato 808
- 63 *Beauveria bassiana* 928
- 67 *Metarhizium anisopliae* sensu lato 929
- 68 *Beauveria bassiana* 930
- 69 *Beauveria bassiana* 931
- 7 *Beauveria bassiana* 733
- 70 *Metarhizium anisopliae* sensu lato 932
- 72 *Beauveria bassiana* 934
- 76 *Beauveria bassiana* 937
- 77 *Beauveria bassiana* 938

- 78 *Metarhizium anisopliae* sensu lato 939
- 8 *Metarhizium anisopliae* sensu lato 725
- 82 *Beauveria bassiana* 941
- 83 *Beauveria bassiana* 942
- 84 *Beauveria bassiana* 943
- 87 *Beauveria bassiana* 946
- 88 *Beauveria bassiana* 947
- 89 *Beauveria bassiana* 948
- 9 *Beauveria bassiana* 734
- 90 *Beauveria bassiana* 949
- 91 *Beauveria bassiana* 950
- 92 *Beauveria bassiana* 951
- 93 *Beauveria bassiana* 952
- 95 *Beauveria bassiana* 982
- 98 *Beauveria bassiana* 953
- 99 *Metarhizium anisopliae* sensu lato 954

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- 35-79 *Metarhizium brunneum* 4228

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- FI-0001 *Beauveria bassiana* 7813
- FI-0012 *Metarhizium anisopliae* sensu lato 8492
- FI-0014 *Metarhizium anisopliae* sensu lato 7814
- FI-0018 *Beauveria bassiana* 8494
- FI-0019 *Metarhizium anisopliae* sensu lato 8495
- FI-0024 *Metarhizium anisopliae* sensu lato 7845
- FI-0038 *Metarhizium anisopliae* sensu lato 7815
- FI-0083 *Metarhizium anisopliae* sensu lato 7816
- FI-0111 *Metarhizium anisopliae* sensu lato 7819
- FI-0114 *Metarhizium pingshaense* 7410
- FI-0126 *Metarhizium anisopliae* sensu lato 7824
- FI-0143 *Metarhizium anisopliae* sensu lato 7825
- FI-0144 *Metarhizium anisopliae* sensu lato 7826
- FI-0147 *Metarhizium anisopliae* var. *lepidiotae* 8732
- FI-0148 *Metarhizium anisopliae* sensu lato 7827
- FI-0149 *Metarhizium anisopliae* sensu lato 7846
- FI-0150 *Metarhizium anisopliae* sensu lato 7828
- FI-0151 *Metarhizium lepidiotae* 7411
- FI-0152 *Metarhizium lepidiotae* 7412
- FI-0153 *Metarhizium anisopliae* sensu lato 8733
- FI-0154 *Metarhizium anisopliae* sensu lato 7829
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24 *Metarhizium anisopliae* sensu lato
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25 *Beauveria bassiana* 3309
26 *Beauveria bassiana* 3310
27 *Beauveria bassiana* 3311
3 *Beauveria bassiana* 3287

Hajek, Ann E.

02 NY 5-6-1 *Isaria farinosa* 8411
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2A *Beauveria brongniartii* 6214
3A *Beauveria brongniartii* 6215
5B *Beauveria bassiana* 6216
6B *Beauveria bassiana* 6217
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ST2 *Beauveria bassiana* 8413
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VD3 *Metarhizium brunneum* 8416
VD7 *Metarhizium brunneum* 8417
VD8 *Metarhizium brunneum* 8418
VD9 *Metarhizium brunneum* 8419
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WU50 *Beauveria bassiana* 8414
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C-1 *Verticillium insectorum* 3715
C-2 *Beauveria bassiana* 3716
C-3 *Beauveria bassiana* 3717
C-4 *Cordyceps* sp. 3718
C-5 *Metarhizium anisopliae* sensu lato
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C-5 Unidentified sp. 3714
W-2 Unidentified sp. 3719

Hatting, Justin L.

TPC 019 Unidentified / Hyphomycetes
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Hodge, Kathie T.

kth30A *Tolyposcladium inflatum* 4877
kth30B *Tolyposcladium inflatum* 4878
kth30C *Tolyposcladium inflatum* 4879
kth30D *Tolyposcladium inflatum* 4880
kth30E *Tolyposcladium inflatum* 4881
kth30F *Tolyposcladium inflatum* 4882
kth30G *Tolyposcladium inflatum* 4883
kth30H *Tolyposcladium inflatum* 4884
kth30I *Tolyposcladium inflatum* 4885
kth30J *Tolyposcladium inflatum* 4886
kth30K *Tolyposcladium inflatum* 4887
kth30L *Tolyposcladium inflatum* 4888
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kth30N *Tolyposcladium inflatum* 4890
kth30O *Tolyposcladium inflatum* 4891
kth30P *Tolyposcladium inflatum* 4892
kth30Q *Tolyposcladium inflatum* 4893
kth30R *Tolyposcladium inflatum* 4894
kth30S *Tolyposcladium inflatum* 4895
kth30T *Tolyposcladium inflatum* 4896
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Holdom, David G.

900118-01 *Paraisaria dubia* 5764

Hollingsworth, Robert G.

H2 *Beauveria bassiana* 8705

Hostetter, Donald L.

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T090 *Beauveria bassiana* 5148
T100 *Metarhizium robertsii* 5149
T103 *Beauveria bassiana* 5150

Humber, Richard A.

2A *Fusarium* sp. 7063

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152222 *Metarhizium guizhouense* 3603
170146 *Metarhizium flavoviride* 2133
205309 *Synnematium jonesii* 5664
228343 *Beauveria malawiensis* 7760
232818 *Beauveria brongniartii* 7761
298059 *Metarhizium pingshaense* 3604
327906 *Beauveria bassiana* 2693
327908 *Beauveria bassiana* 2685
327909 *Beauveria bassiana* 2686
327910 *Beauveria bassiana* 2688
328059 *Beauveria varroae* 2694
329064 *Beauveria bassiana* 2689
329065 *Beauveria bassiana* 2690
329066 *Beauveria bassiana* 2691
329067 *Beauveria bassiana* 2692
330194 *Beauveria bassiana* 2687
358840 *Beauveria bassiana* 7763
386243 *Beauveria bassiana* 7764
386367 *Beauveria bassiana* 7774
386368 *Beauveria bassiana* 7773
389521 *Beauveria bassiana* 7769
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I91-613 *Metarhizium robertsii* 3608

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Bb-195 *Beauveria bassiana* 1186
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lato 3148
Ma-51 *Metarhizium majus* 3145
Mf-88 *Metarhizium flavoviride* 1184
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NC2 *Beauveria bassiana* 7941

Jaronski, Stefan T.

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12434
11AW479 *Beauveria bassiana* sensu lato
12435
12AW323 *Beauveria bassiana* sensu lato
12436
12AW323-4 f3 *Beauveria bassiana* sensu
lato 12517
12AW332 *Beauveria bassiana* sensu lato
12437

12AW336 *Beauveria bassiana* sensu lato 12438
 12AW457 *Beauveria bassiana* sensu lato 12439
 12AW457-1 *Beauveria bassiana* sensu lato 12440
 12AW457-2 *Beauveria bassiana* sensu lato 12441
 12AW457-3 *Beauveria bassiana* sensu lato 12442
 12AW462-1 f3 *Beauveria bassiana* sensu lato 12518
 12AW483-2 f3 *Beauveria bassiana* sensu lato 12519
 12AW483-5 f3 *Beauveria bassiana* sensu lato 12520
 12AW483-6 f3 *Beauveria bassiana* sensu lato 12521
 12AW483-8 f3 *Beauveria bassiana* sensu lato 12522
 12AW491-1 *Beauveria bassiana* sensu lato 12443
 12AW491-2 *Beauveria bassiana* sensu lato 12444
 13AW336 *Beauveria bassiana* sensu lato 12445
 13AW340-1A *Beauveria bassiana* sensu lato 12446
 13AW340-2 *Beauveria bassiana* sensu lato 12447
 13AW344 *Beauveria bassiana* sensu lato 12448
 13AW447 *Beauveria bassiana* sensu lato 12449
 13AW473 *Beauveria bassiana* sensu lato 12450
 13AW483 *Beauveria bassiana* sensu lato 12451
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 NEB159 *Beauveria bassiana* sensu lato 14001

Jones, Wendy E.

SHB *Beauveria bassiana* 3040

Keller, Siegfried

117 *Beauveria brongniartii* 1067
 118 *Beauveria brongniartii* 1068
 119 *Beauveria brongniartii* 1069
 120 *Beauveria brongniartii* 1070
 125 *Beauveria brongniartii* 1071
 126 *Beauveria brongniartii* 1072
 131 *Beauveria brongniartii* 1076
 134 *Beauveria brongniartii* 1077
 425 *Pandora blunckii* 917
 426 *Pandora blunckii* 915
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 48 *Metarhizium anisopliae* sensu lato 1377
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 491 *Conidiobolus coronatus* 1573
 493 *Conidiobolus coronatus* 1574
 494 *Conidiobolus coronatus* 1575

500 *Metarhizium anisopliae* sensu lato 7532
 514 *Pandora blunckii* 1715
 515 *Pandora blunckii* 1716
 516 *Pandora blunckii* 1717
 517 *Pandora blunckii* 1718
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 727 *Beauveria bassiana* 7525
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 800 *Metarhizium anisopliae* sensu lato 7527
 812 *Beauveria brongniartii* 7528
 885 *Metarhizium anisopliae* sensu lato 7529
 92 *Metarhizium brunneum* 1066
 D155 *Beauveria bassiana* 1566
 D156 *Beauveria caledonica* 1567
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 77 *Beauveria bassiana* 7978

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HAG.99 *Metarhizium brunneum* 6477
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PFC 10 *Lecanicillium muscarium* 8051
 PFC 11 *Lecanicillium muscarium* 8052
 PFC 12 *Lecanicillium muscarium* 8053
 PFC 15 *Lecanicillium muscarium* 8054
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Krueger, Steve V.

MaEC1 *Metarhizium robertsii* 3108
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 MaJB13 *Metarhizium anisopliae* sensu lato 3340
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 MaJB7 *Metarhizium anisopliae* sensu lato 3334
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 L24A *Beauveria bassiana* 10400
 L25A-A *Beauveria bassiana* 10401
 L25BC *Beauveria bassiana* 10402
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LHY44A *Beauveria bassiana* 10463
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LHY48A *Beauveria bassiana* 10465
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LHY8A *Beauveria bassiana* 10450
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SY16A *Beauveria bassiana* 10468
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- Lacey, Lawrence A.**
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92140 *Metarhizium* sp. 3863
92141 *Metarhizium brunneum* 3864
92143 *Metarhizium* sp. 3865
93017 Unidentified sp. 3980
93038 *Beauveria bassiana* 4001
94007 *Isaria amoenerosea* 4097
94127 *Beauveria brongniartii* 4458
94131 *Beauveria brongniartii* 4389
94132 *Beauveria* sp. 4390
94133 *Beauveria* sp. 4391
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94140 *Beauveria bassiana* 4382
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94142 *Beauveria brongniartii* 4381
94143 *Beauveria brongniartii* 4465
94144 *Beauveria brongniartii* 4466
94145 *Beauveria brongniartii* 4467
94146 *Beauveria brongniartii* 4468
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94150 *Beauveria brongniartii* 4472
94151 *Beauveria brongniartii* 4473
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94153 *Beauveria brongniartii* 4475
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95011 *Beauveria* sp. 4909
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95013 *Beauveria* sp. 4911
95014 *Beauveria* sp. 4912
95015 *Beauveria* sp. 4913
95016 *Beauveria* sp. 4914
95017 *Beauveria* sp. 4915
95018 *Beauveria* sp. 4916
95019 *Beauveria* sp. 4917
95020 *Beauveria* sp. 4918
95035 *Beauveria pseudobassiana* 4933
95040 *Beauveria bassiana* 4980
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95050 *Beauveria brongniartii* 4992
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95054 *Beauveria brongniartii* 4995
95062 *Beauveria pseudobassiana* 5070
95063 *Beauveria bassiana* 5071
95064 *Beauveria bassiana* 5072
95065 *Isaria farinosa* 5073
95066 *Isaria farinosa* 5074
95067 *Isaria farinosa* 5075
95069 *Isaria farinosa* 5080
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96002 Unidentified / Hyphomycetes 5224
96003 Unidentified / Hyphomycetes 5225
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96015 *Beauveria brongniartii* 5355
96016 *Beauveria brongniartii* 5356
96017 *Beauveria brongniartii* 5357
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96019 *Beauveria brongniartii* 5359
96020 *Beauveria brongniartii* 5360
96021 *Beauveria brongniartii* 5361
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 F12 *Metarhizium anisopliae* sensu lato
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 F13 *Beauveria pseudobassiana* 3063
 F28 *Beauveria pseudobassiana* 3065
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HI-1751 <i>Beauveria</i> sp. 13391	HI-552 <i>Beauveria bassiana</i> 12808	HI-843 <i>Beauveria bassiana</i> sensu lato 13014
HI-1753 <i>Beauveria bassiana</i> 13515	HI-56 <i>Beauveria bassiana</i> 12593	HI-844A <i>Beauveria bassiana</i> sensu lato 13015
HI-1754 <i>Beauveria</i> sp. 13392	HI-57 <i>Beauveria bassiana</i> 12594	HI-844B <i>Beauveria bassiana</i> sensu lato 13016
HI-1755 <i>Beauveria</i> sp. 13399	HI-58 <i>Beauveria bassiana</i> 12595	
HI-1766 <i>Beauveria bassiana</i> 13578	HI-6 <i>Beauveria bassiana</i> 12574	
HI-1768 <i>Beauveria bassiana</i> 13579	HI-60 <i>Beauveria bassiana</i> 12596	
HI-1769a <i>Beauveria bassiana</i> 13580	HI-61 <i>Beauveria bassiana</i> 12597	
HI-1769b <i>Beauveria bassiana</i> 13581	HI-62 <i>Beauveria bassiana</i> 12598	
HI-1776b <i>Beauveria bassiana</i> 13582	HI-63 <i>Beauveria bassiana</i> 12599	
HI-1776c <i>Beauveria bassiana</i> 13583	HI-65A <i>Beauveria bassiana</i> 12600	
HI-1777b <i>Beauveria bassiana</i> 13584	HI-65b <i>Beauveria</i> sp. 13377	
HI-1777c <i>Beauveria bassiana</i> 13585	HI-67 <i>Beauveria bassiana</i> 12601	
HI-1780b <i>Beauveria bassiana</i> 13586	HI-68 <i>Beauveria bassiana</i> 12602	
HI-1780c <i>Beauveria bassiana</i> 13587	HI-685 <i>Beauveria bassiana</i> 12809	
HI-1781b <i>Beauveria bassiana</i> 13588	HI-695 <i>Beauveria bassiana</i> 12810	
HI-1784 <i>Beauveria bassiana</i> 13546	HI-70 <i>Beauveria bassiana</i> 12603	
HI-1785 <i>Beauveria bassiana</i> 13547	HI-711 <i>Beauveria bassiana</i> 12811	
HI-18 <i>Beauveria bassiana</i> 12580	HI-72 <i>Beauveria bassiana</i> 12604	
HI-1827 <i>Beauveria bassiana</i> 13548	HI-720 <i>Beauveria bassiana</i> 12812	
HI-1828 <i>Beauveria bassiana</i> 13549	HI-74 <i>Beauveria bassiana</i> 12605	
HI-1832 <i>Beauveria bassiana</i> 13551	HI-742 <i>Beauveria bassiana</i> 12894	
HI-1836 <i>Beauveria bassiana</i> 13552	HI-75 <i>Beauveria bassiana</i> 12606	
HI-204 <i>Beauveria bassiana</i> 12616	HI-751 <i>Beauveria bassiana</i> 12813	
HI-205 <i>Beauveria bassiana</i> 12617	HI-783 <i>Beauveria bassiana</i> 12814	
HI-206B <i>Beauveria bassiana</i> 12618	HI-785 <i>Beauveria bassiana</i> 12815	
HI-20A <i>Beauveria bassiana</i> 12581	HI-79 <i>Beauveria bassiana</i> 12607	
HI-211 <i>Beauveria bassiana</i> 12619	HI-793 <i>Beauveria bassiana</i> 12816	
HI-21C <i>Beauveria bassiana</i> 12582	HI-8 <i>Beauveria bassiana</i> 12575	
HI-22A <i>Beauveria bassiana</i> 12583	HI-805 <i>Beauveria bassiana</i> 12620	
HI-25 <i>Beauveria bassiana</i> 12584	HI-806 <i>Beauveria bassiana</i> sensu lato 12982	
HI-2688 <i>Beauveria bassiana</i> 13553	HI-807A <i>Beauveria bassiana</i> sensu lato 12983	
HI-27 <i>Beauveria bassiana</i> 12585	HI-807B <i>Beauveria bassiana</i> sensu lato 12984	
HI-2707b <i>Beauveria</i> sp. 13381		
HI-2720a <i>Beauveria bassiana</i> 13554		
HI-2720b <i>Beauveria bassiana</i> 13555		

- HI-846 *Beauveria bassiana* sensu lato
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HI-847 *Beauveria bassiana* sensu lato
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HI-848 *Beauveria bassiana* sensu lato
13019
HI-849 *Beauveria bassiana* sensu lato
13020
HI-850 *Beauveria bassiana* sensu lato
13046
HI-851 *Beauveria bassiana* sensu lato
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HI-852 *Beauveria bassiana* sensu lato
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HI-853 *Beauveria bassiana* sensu lato
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HI-855 *Beauveria bassiana* sensu lato
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HI-856 *Beauveria bassiana* sensu lato
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HI-859 *Beauveria bassiana* sensu lato
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HI-860 *Beauveria bassiana* sensu lato
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HI-861 *Beauveria bassiana* sensu lato
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HI-862 *Beauveria bassiana* sensu lato
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HI-863 *Beauveria bassiana* sensu lato
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HI-867 *Beauveria bassiana* sensu lato
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HI-868 *Beauveria bassiana* sensu lato
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HI-869 *Beauveria bassiana* sensu lato
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HI-870 *Beauveria bassiana* sensu lato
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HI-871 *Beauveria bassiana* sensu lato
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HI-872 *Beauveria bassiana* sensu lato
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HI-873 *Beauveria bassiana* sensu lato
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HI-874 *Beauveria bassiana* sensu lato
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HI-875 *Beauveria bassiana* sensu lato
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HI-876 *Beauveria bassiana* sensu lato
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HI-877 *Beauveria bassiana* sensu lato
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HI-878 *Beauveria bassiana* sensu lato
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HI-879 *Beauveria bassiana* sensu lato
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HI-880 *Beauveria bassiana* sensu lato
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HI-881 *Beauveria bassiana* sensu lato
13071
HI-882A *Beauveria bassiana* sensu lato
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HI-882B *Beauveria bassiana* sensu lato
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HI-883 *Beauveria bassiana* sensu lato
13074
HI-884 *Beauveria bassiana* sensu lato
13075
HI-885 *Beauveria bassiana* sensu lato
13076
HI-886A *Beauveria bassiana* sensu lato
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HI-886B *Beauveria bassiana* sensu lato
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HI-887 *Beauveria bassiana* sensu lato
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HI-888 *Beauveria bassiana* sensu lato
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HI-889 *Beauveria bassiana* sensu lato
13081
HI-890 *Beauveria bassiana* sensu lato
13082
HI-891 *Beauveria bassiana* sensu lato
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HI-892 *Beauveria bassiana* sensu lato
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HI-894 *Beauveria bassiana* sensu lato
13085
HI-895 *Beauveria bassiana* sensu lato
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HI-896 *Beauveria bassiana* sensu lato
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HI-897 *Metarhizium* sp. 13088
HI-899 *Beauveria bassiana* sensu lato
13089
HI-90 *Beauveria bassiana* 12610
HI-900 *Beauveria bassiana* sensu lato
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HI-901 *Beauveria bassiana* sensu lato
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HI-902 *Beauveria bassiana* sensu lato
13092
HI-904 *Beauveria bassiana* sensu lato
13093
HI-905 *Beauveria bassiana* sensu lato
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HI-99 *Beauveria bassiana* 12611
PR TA-1 *Beauveria bassiana* 13402
PR TA-4 *Beauveria bassiana* 13403
PR TP-5 *Beauveria bassiana* 13404
PR TP-7 *Beauveria bassiana* 13405
PR-TA6 *Beauveria bassiana* 13541
- Zimmermann, Gisbert**
E 1622/01 *Evlachovaea* sp. 7403
- Zou, Xiao**
9 *Isaria fumosorosea* 9602

23	<i>Metarhizium robertsii</i>	379	<i>Beauveria bassiana</i>	1046	<i>Metarhizium robertsii</i>
33	<i>Beauveria bassiana</i>	741	<i>Isaria amoenerosea</i>	1056	<i>Metarhizium anisopliae sensu lato</i>
79	<i>Conidiobolus osmodes</i>	744	<i>Isaria amoenerosea</i>	1060	<i>Beauveria bassiana</i>
80	<i>Conidiobolus sp.</i>	751	<i>Beauveria bassiana sensu stricto</i>	1061	<i>Beauveria bassiana</i>
81	<i>Conidiobolus sp.</i>	752	<i>Beauveria bassiana</i>	1066	<i>Metarhizium brunneum</i>
82	<i>Zoopphthora phytonomi</i>	753	<i>Beauveria bassiana</i>	1067	<i>Beauveria brongniartii</i>
113	<i>Zoopphthora phytonomi</i>	754	<i>Beauveria bassiana</i>	1068	<i>Beauveria brongniartii</i>
149	<i>Beauveria bassiana</i>	756	<i>Beauveria bassiana</i>	1069	<i>Beauveria brongniartii</i>
150	<i>Beauveria bassiana</i>	757	<i>Beauveria bassiana</i>	1070	<i>Beauveria brongniartii</i>
157	<i>Beauveria pseudobassiana</i>	758	<i>Beauveria bassiana</i>	1071	<i>Beauveria brongniartii</i>
191	<i>Zoopphthora phytonomi</i>	760	<i>Metarhizium anisopliae sensu lato</i>	1072	<i>Beauveria brongniartii</i>
192	<i>Zoopphthora phytonomi</i>	783	<i>Beauveria bassiana</i>	1073	<i>Beauveria bassiana</i>
201	<i>Beauveria bassiana</i>	784	<i>Beauveria bassiana</i>	1074	<i>Beauveria bassiana</i>
202	<i>Zoopphthora phytonomi</i>	785	<i>Beauveria bassiana</i>	1075	<i>Beauveria bassiana</i>
252	<i>Beauveria bassiana</i>	786	<i>Beauveria bassiana</i>	1076	<i>Beauveria brongniartii</i>
293	<i>Beauveria bassiana</i>	787	<i>Beauveria bassiana</i>	1077	<i>Beauveria brongniartii</i>
297	<i>Metarhizium majus</i>	788	<i>Beauveria bassiana</i>	1078	<i>Metarhizium anisopliae sensu lato</i>
298	<i>Metarhizium majus</i>	797	<i>Metarhizium robertsii</i>	1079	<i>Beauveria bassiana</i>
301	<i>Beauveria bassiana</i>	799	<i>Isaria farinosa</i>	1081	<i>Beauveria bassiana</i>
317	<i>Beauveria bassiana</i>	804	<i>Beauveria bassiana</i>	1106	<i>Beauveria bassiana</i>
318	<i>Beauveria bassiana</i>	805	<i>Beauveria bassiana</i>	1123	<i>Sorosporaella uvella</i>
319	<i>Beauveria bassiana</i>	808	<i>Metarhizium anisopliae sensu lato</i>	1153	<i>Beauveria bassiana</i>
322	<i>Isaria javanica</i>	809	<i>Beauveria bassiana</i>	1154	<i>Beauveria bassiana</i>
325	<i>Beauveria bassiana</i>	813	<i>Beauveria pseudobassiana</i>	1155	<i>Beauveria bassiana</i>
336	<i>Beauveria bassiana</i>	814	<i>Beauveria pseudobassiana</i>	1156	<i>Beauveria bassiana</i>
337	<i>Beauveria bassiana</i>	815	<i>Beauveria bassiana</i>	1157	<i>Beauveria bassiana</i>
340	<i>Beauveria bassiana</i>	816	<i>Beauveria bassiana</i>	1158	<i>Beauveria bassiana</i>
344	<i>Beauveria bassiana</i>	817	<i>Metarhizium brunneum</i>	1159	<i>Beauveria bassiana</i>
346	<i>Metarhizium brunneum</i>	818	<i>Metarhizium anisopliae sensu lato</i>	1160	<i>Beauveria bassiana</i>
347	<i>Metarhizium anisopliae sensu lato</i>	819	<i>Metarhizium guizhouense</i>	1161	<i>Beauveria bassiana</i>
348	<i>Penicillium sp.</i>	820	<i>Metarhizium brunneum</i>	1162	<i>Beauveria bassiana</i>
350	<i>Beauveria bassiana</i>	842	<i>Beauveria bassiana</i>	1163	<i>Beauveria bassiana</i>
353	<i>Beauveria bassiana</i>	915	<i>Pandora blunckii</i>	1164	<i>Beauveria bassiana</i>
384	<i>Beauveria bassiana</i>	917	<i>Pandora blunckii</i>	1165	<i>Beauveria bassiana</i>
396	<i>Zoopphthora anglica</i>	918	<i>Zoopphthora anglica</i>	1167	<i>Beauveria bassiana</i>
410	<i>Purpureocillium lilacinum</i>	920	<i>Pandora blunckii</i>	1168	<i>Beauveria bassiana</i>
412	<i>Beauveria bassiana</i>	928	<i>Beauveria bassiana</i>	1169	<i>Beauveria bassiana</i>
413	<i>Beauveria bassiana</i>	929	<i>Metarhizium anisopliae sensu lato</i>	1170	<i>Beauveria bassiana</i>
416	<i>Beauveria bassiana</i>	930	<i>Beauveria bassiana</i>	1171	<i>Beauveria bassiana</i>
433	<i>Beauveria bassiana</i>	931	<i>Beauveria bassiana</i>	1172	<i>Beauveria bassiana</i>
472	<i>Metarhizium brunneum</i>	932	<i>Metarhizium anisopliae sensu lato</i>	1173	<i>Beauveria bassiana</i>
504	<i>Beauveria bassiana</i>	934	<i>Beauveria bassiana</i>	1174	<i>Beauveria bassiana</i>
505	<i>Beauveria bassiana</i>	937	<i>Beauveria bassiana</i>	1175	<i>Beauveria bassiana</i>
506	<i>Beauveria bassiana</i>	938	<i>Beauveria bassiana</i>	1176	<i>Beauveria bassiana</i>
507	<i>Beauveria bassiana</i>	939	<i>Metarhizium anisopliae sensu lato</i>	1177	<i>Beauveria bassiana</i>
508	<i>Beauveria bassiana</i>	941	<i>Beauveria bassiana</i>	1178	<i>Beauveria bassiana</i>
509	<i>Beauveria bassiana</i>	942	<i>Beauveria bassiana</i>	1179	<i>Beauveria bassiana</i>
510	<i>Beauveria bassiana</i>	943	<i>Beauveria bassiana</i>	1180	<i>Beauveria bassiana</i>
534	<i>Beauveria bassiana</i>	946	<i>Beauveria bassiana</i>	1181	<i>Beauveria bassiana</i>
535	<i>Beauveria bassiana</i>	947	<i>Beauveria bassiana</i>	1182	<i>Beauveria bassiana</i>
538	<i>Metarhizium pingshaense</i>	948	<i>Beauveria bassiana</i>	1183	<i>Beauveria bassiana</i>
544	<i>Zoopphthora phytonomi</i>	949	<i>Beauveria bassiana</i>	1184	<i>Metarhizium flavoviride</i>
545	<i>Zoopphthora phytonomi</i>	950	<i>Beauveria bassiana</i>	1185	<i>Beauveria bassiana</i>
546	<i>Zoopphthora phytonomi</i>	951	<i>Beauveria bassiana</i>	1186	<i>Beauveria bassiana</i>
547	<i>Beauveria sp.</i>	952	<i>Beauveria bassiana</i>	1188	<i>Beauveria bassiana</i>
617	<i>Beauveria brongniartii</i>	953	<i>Beauveria bassiana</i>	1189	<i>Beauveria bassiana</i>
683	<i>Metarhizium guizhouense</i>	954	<i>Metarhizium anisopliae sensu lato</i>	1190	<i>Beauveria bassiana</i>
721	<i>Beauveria bassiana</i>	956	<i>Beauveria bassiana</i>	1191	<i>Beauveria bassiana</i>
722	<i>Isaria fumosorosea</i>	958	<i>Beauveria bassiana</i>	1192	<i>Beauveria bassiana</i>
723	<i>Purpureocillium lilacinum</i>	977	<i>Metarhizium guizhouense</i>	1193	<i>Beauveria bassiana</i>
724	<i>Metarhizium robertsii</i>	978	<i>Metarhizium majus</i>	1194	<i>Beauveria bassiana</i>
725	<i>Metarhizium anisopliae sensu lato</i>	979	<i>Beauveria brongniartii</i>	1280	<i>Metarhizium anisopliae sensu lato</i>
726	<i>Metarhizium anisopliae sensu lato</i>	982	<i>Beauveria bassiana</i>	1298	<i>Metarhizium robertsii</i>
731	<i>Beauveria bassiana</i>	984	<i>Paecilomyces canadensis</i>	1306	<i>Beauveria bassiana</i>
732	<i>Beauveria bassiana</i>	985	<i>Beauveria brongniartii</i>	1309	<i>Beauveria bassiana</i>
733	<i>Beauveria bassiana</i>	1016	<i>Beauveria bassiana</i>	1310	<i>Fusarium proliferatum</i>
734	<i>Beauveria bassiana</i>	1017	<i>Evlachovaea sp.</i>	1311	<i>Beauveria bassiana</i>
735	<i>Beauveria bassiana</i>	1039	<i>Beauveria bassiana</i>	1312	<i>Beauveria bassiana</i>
736	<i>Beauveria bassiana</i>	1041	<i>Beauveria bassiana</i>	1313	<i>Beauveria bassiana</i>
738	<i>Beauveria bassiana</i>	1043	<i>Mixed Culture sp.</i>	1327	<i>Beauveria sp.</i>

1328	<i>Lecanicillium muscarium</i>	1634	Unidentified sp.	1966	<i>Beauveria bassiana</i>
1329	<i>Aphanocladium album</i>	1647	<i>Beauveria bassiana</i>	1968	<i>Metarhizium robertsii</i>
1335	<i>Lecanicillium muscarium</i>	1667	Unidentified sp.	1969	<i>Beauveria amorpha</i>
1372	<i>Acremonium furcatum</i>	1676	<i>Beauveria amorpha</i>	1971	<i>Beauveria bassiana</i>
1377	<i>Metarhizium anisopliae sensu lato</i>	1678	<i>Beauveria bassiana</i>	1975	<i>Beauveria bassiana</i>
1389	<i>Beauveria bassiana</i>	1679	<i>Beauveria bassiana</i>	1980	<i>Beauveria bassiana</i>
1398	<i>Beauveria bassiana</i>	1680	<i>Beauveria amorpha</i>	1982	<i>Beauveria bassiana</i>
1399	<i>Beauveria bassiana</i>	1681	<i>Beauveria sp.</i>	1989	<i>Metarhizium anisopliae sensu lato</i>
1401	<i>Lecanicillium muscarium</i>	1682	<i>Beauveria sp.</i>	2010	<i>Beauveria bassiana</i>
1402	<i>Lecanicillium muscarium</i>	1683	<i>Beauveria bassiana</i>	2024	<i>Metarhizium flavoviride</i>
1403	<i>Lecanicillium muscarium</i>	1685	<i>Beauveria sungii</i>	2030	<i>Beauveria bassiana</i>
1424	<i>Polycephalomyces formosus</i>	1704	<i>Beauveria bassiana</i>	2031	<i>Beauveria bassiana</i>
1429	Unidentified sp.	1705	<i>Beauveria bassiana</i>	2032	<i>Beauveria bassiana</i>
1430	Unidentified sp.	1706	<i>Beauveria bassiana</i>	2033	<i>Beauveria bassiana</i>
1431	<i>Beauveria brongniartii</i>	1707	<i>Beauveria bassiana</i>	2034	<i>Beauveria bassiana</i>
1437	Unidentified sp.	1708	<i>Beauveria blunckii</i>	2040	<i>Beauveria bassiana</i>
1450	<i>Beauveria bassiana</i>	1709	<i>Beauveria bassiana</i>	2075	<i>Beauveria bassiana</i>
1451	<i>Beauveria bassiana</i>	1710	<i>Beauveria bassiana</i>	2076	<i>Metarhizium anisopliae sensu lato</i>
1452	<i>Metarhizium anisopliae sensu lato</i>	1711	<i>Beauveria bassiana</i>	2077	<i>Metarhizium anisopliae sensu lato</i>
1453	<i>Beauveria bassiana</i>	1712	<i>Beauveria bassiana</i>	2079	<i>Beauveria bassiana</i>
1454	<i>Beauveria bassiana</i>	1713	<i>Beauveria bassiana</i>	2107	<i>Metarhizium brunneum</i>
1455	<i>Beauveria bassiana</i>	1715	<i>Pandora blunckii</i>	2133	<i>Metarhizium flavoviride</i>
1456	<i>Beauveria bassiana</i>	1716	<i>Pandora blunckii</i>	2134	<i>Metarhizium robertsii</i>
1458	<i>Beauveria bassiana</i>	1717	<i>Pandora blunckii</i>	2135	<i>Metarhizium anisopliae sensu lato</i>
1459	<i>Beauveria bassiana</i>	1718	<i>Pandora blunckii</i>	2136	<i>Metarhizium anisopliae sensu lato</i>
1460	<i>Beauveria bassiana</i>	1721	<i>Beauveria bassiana</i>	2137	<i>Metarhizium anisopliae sensu lato</i>
1461	<i>Beauveria bassiana</i>	1722	<i>Beauveria bassiana</i>	2138	<i>Metarhizium anisopliae sensu lato</i>
1462	<i>Beauveria bassiana</i>	1723	<i>Beauveria bassiana</i>	2139	<i>Metarhizium anisopliae sensu lato</i>
1463	<i>Beauveria bassiana</i>	1739	<i>Zoophtora anglica</i>	2151	<i>Metarhizium majus</i>
1464	<i>Beauveria bassiana</i>	1749	<i>Beauveria bassiana</i>	2156	<i>Metarhizium anisopliae sensu lato</i>
1465	<i>Beauveria bassiana</i>	1750	<i>Beauveria bassiana</i>	2162	<i>Metarhizium pingshaense</i>
1466	<i>Beauveria bassiana</i>	1775	<i>Beauveria bassiana</i>	2163	<i>Metarhizium anisopliae sensu lato</i>
1467	<i>Beauveria bassiana</i>	1776	<i>Beauveria bassiana</i>	2165	<i>Metarhizium anisopliae sensu lato</i>
1469	<i>Beauveria bassiana</i>	1777	<i>Beauveria bassiana</i>	2166	<i>Metarhizium anisopliae sensu lato</i>
1470	<i>Beauveria bassiana</i>	1778	<i>Beauveria bassiana</i>	2167	<i>Metarhizium anisopliae sensu lato</i>
1471	<i>Beauveria bassiana</i>	1779	<i>Beauveria bassiana</i>	2169	<i>Scopulariopsis sp.</i>
1472	<i>Beauveria bassiana</i>	1780	<i>Beauveria bassiana</i>	2173	<i>Aspergillus parasiticus</i>
1473	<i>Beauveria bassiana</i>	1781	<i>Beauveria bassiana</i>	2188	<i>Zoophtora phytonomi</i>
1475	<i>Beauveria bassiana</i>	1811	<i>Beauveria bassiana</i>	2199	<i>Beauveria bassiana</i>
1476	<i>Beauveria bassiana</i>	1815	<i>Beauveria bassiana</i>	2200	<i>Beauveria bassiana</i>
1480	<i>Beauveria bassiana</i>	1816	<i>Beauveria bassiana</i>	2210	<i>Metarhizium brunneum</i>
1483	<i>Beauveria bassiana</i>	1817	<i>Beauveria bassiana</i>	2216	<i>Isaria fumosorosea</i>
1491	<i>Beauveria bassiana</i>	1818	<i>Beauveria bassiana</i>	2217	<i>Isaria fumosorosea</i>
1505	<i>Lecanicillium lecanii</i>	1819	<i>Beauveria bassiana</i>	2218	<i>Pochonia chlamydosporia var. chlamydosporia</i>
1506	<i>Isaria fumosorosea</i>	1820	<i>Beauveria bassiana</i>	2219	<i>Isaria fumosorosea</i>
1507	<i>Isaria farinosa</i>	1821	<i>Beauveria bassiana</i>	2220	<i>Isaria amoenerosea</i>
1508	<i>Isaria farinosa</i>	1833	<i>Beauveria bassiana</i>	2221	<i>Isaria fumosorosea</i>
1509	<i>Beauveria bassiana</i>	1835	<i>Beauveria sp.</i>	2223	<i>Metarhizium anisopliae sensu stricto</i>
1510	<i>Beauveria bassiana</i>	1848	<i>Beauveria bassiana</i>	2224	<i>Metarhizium brunneum</i>
1511	<i>Beauveria bassiana</i>	1849	<i>Beauveria bassiana</i>	2225	Unidentified / <i>Hyphomycetes</i>
1515	<i>Beauveria bassiana</i>	1852	<i>Beauveria bassiana</i>	2231	<i>Metarhizium pingshaense</i>
1518	<i>Beauveria bassiana</i>	1853	<i>Beauveria bassiana</i>	2248	<i>Beauveria bassiana</i>
1519	<i>Beauveria bassiana</i>	1854	<i>Beauveria bassiana</i>	2249	<i>Beauveria bassiana</i>
1559	<i>Beauveria bassiana</i>	1855	<i>Beauveria pseudobassiana</i>	2250	<i>Beauveria bassiana</i>
1560	<i>Beauveria bassiana</i>	1858	<i>Metarhizium majus</i>	2251	<i>Beauveria caledonica</i>
1561	<i>Beauveria bassiana</i>	1859	<i>Metarhizium majus</i>	2270	<i>Beauveria bassiana</i>
1562	<i>Beauveria bassiana</i>	1878	<i>Metarhizium robertsii</i>	2271	<i>Beauveria brongniartii</i>
1563	<i>Beauveria bassiana</i>	1885	<i>Metarhizium anisopliae sensu lato</i>	2327	<i>Scopulariopsis sp.</i>
1566	<i>Beauveria bassiana</i>	1897	<i>Metarhizium robertsii</i>	2330	<i>Beauveria bassiana</i>
1567	<i>Beauveria caledonica</i>	1901	<i>Metarhizium anisopliae sensu lato</i>	2331	<i>Metarhizium anisopliae sensu lato</i>
1572	<i>Conidiobolus coronatus</i>	1903	<i>Metarhizium anisopliae sensu lato</i>	2355	<i>Isaria farinosa</i>
1573	<i>Conidiobolus coronatus</i>	1910	<i>Metarhizium robertsii</i>	2379	<i>Isaria farinosa</i>
1574	<i>Conidiobolus coronatus</i>	1914	<i>Metarhizium majus</i>	2412	<i>Beauveria sp.</i>
1575	<i>Conidiobolus coronatus</i>	1946	<i>Metarhizium majus</i>	2415	<i>Tilachlidium sp.</i>
1619	<i>Beauveria bassiana</i>	1951	<i>Purpureocillium lilacinum</i>	2431	<i>Isaria farinosa</i>
1620	<i>Beauveria bassiana</i>	1954	<i>Beauveria bassiana</i>	2432	<i>Metarhizium anisopliae sensu lato</i>
1621	<i>Beauveria bassiana</i>	1956	<i>Beauveria bassiana</i>	2463	<i>Beauveria bassiana</i>
1622	<i>Beauveria bassiana</i>	1957	<i>Isaria farinosa</i>	2469	<i>Metarhizium robertsii</i>
1623	<i>Beauveria bassiana</i>	1958	<i>Metarhizium anisopliae sensu lato</i>	2505	<i>Zoophtora anglica</i>
1624	<i>Beauveria bassiana</i>	1961	<i>Beauveria bassiana</i>		

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2509	<i>Beauveria bassiana</i>	2989	<i>Beauveria bassiana</i>	3445	<i>Beauveria bassiana</i>
2511	<i>Beauveria bassiana</i>	2990	<i>Beauveria bassiana</i>	3446	<i>Beauveria bassiana</i>
2512	<i>Beauveria bassiana</i>	2991	<i>Beauveria bassiana</i>	3447	<i>Beauveria bassiana</i>
2513	<i>Metarhizium anisopliae</i> sensu lato	2999	Unidentified / <i>Hyphomycetes</i>	3448	<i>Beauveria bassiana</i>
2514	<i>Metarhizium robertsii</i>	3030	<i>Fusarium</i> sp.	3450	<i>Beauveria bassiana</i>
2515	<i>Beauveria bassiana</i>	3031	<i>Fusarium</i> sp.	3451	<i>Beauveria bassiana</i>
2518	<i>Metarhizium anisopliae</i> sensu stricto	3032	<i>Fusarium</i> sp.	3452	<i>Beauveria bassiana</i>
2520	<i>Beauveria bassiana</i>	3033	Unidentified / <i>Hyphomycetes</i>	3453	<i>Beauveria bassiana</i>
2525	<i>Erynia</i> sp.	3034	Unidentified sp.	3455	<i>Beauveria bassiana</i>
2536	<i>Erynia</i> sp.	3035	<i>Metapochonia bulbillosa</i> (?)	3457	<i>Beauveria bassiana</i>
2537	<i>Erynia</i> sp.	3036	<i>Penicillium</i> sp.	3471	Unidentified sp.
2538	<i>Erynia</i> sp.	3037	<i>Beauveria bassiana</i>	3478	Unidentified sp.
2539	<i>Erynia</i> sp.	3038	Sterile mycelium	3479	<i>Metarhizium anisopliae</i> sensu lato
2547	<i>Metarhizium robertsii</i>	3040	<i>Beauveria bassiana</i>	3534	<i>Beauveria bassiana</i>
2548	<i>Metarhizium anisopliae</i> sensu lato	3054	<i>Beauveria bronngniartii</i>	3603	<i>Metarhizium guizhouense</i>
2553	<i>Erynia</i> sp.	3055	<i>Beauveria pseudobassiana</i>	3604	<i>Metarhizium pingshaense</i>
2557	<i>Beauveria pseudobassiana</i>	3056	<i>Metarhizium novozealandicum</i>	3608	<i>Metarhizium robertsii</i>
2559	<i>Beauveria bassiana</i>	3057	<i>Metarhizium anisopliae</i> sensu lato	3667	<i>Beauveria bassiana</i>
2568	<i>Fusarium proliferatum</i>	3063	<i>Beauveria pseudobassiana</i>	3713	<i>Metarhizium anisopliae</i> sensu lato
2569	<i>Fusarium proliferatum</i>	3065	<i>Beauveria pseudobassiana</i>	3714	Unidentified sp.
2575	<i>Metarhizium robertsii</i>	3066	<i>Beauveria pseudobassiana</i>	3715	<i>Verticillium insectorum</i>
2579	<i>Beauveria bassiana</i>	3070	<i>Beauveria pseudobassiana</i>	3716	<i>Beauveria bassiana</i>
2580	<i>Beauveria bassiana</i>	3097	<i>Beauveria bassiana</i>	3717	<i>Beauveria bassiana</i>
2623	<i>Zoopthora</i> sp.	3098	<i>Beauveria bassiana</i>	3718	<i>Cordyceps</i> sp.
2625	<i>Beauveria bassiana</i>	3108	<i>Metarhizium robertsii</i>	3719	Unidentified sp.
2626	<i>Beauveria bassiana</i>	3111	<i>Beauveria bassiana</i>	3720	<i>Metarhizium anisopliae</i> sensu lato
2635	<i>Metarhizium anisopliae</i> sensu lato	3112	<i>Beauveria bassiana</i>	3721	<i>Metarhizium robertsii</i>
2638	<i>Beauveria bassiana</i>	3145	<i>Metarhizium majus</i>	3722	Unidentified sp.
2639	<i>Beauveria bassiana</i>	3148	<i>Metarhizium anisopliae</i> sensu lato	3724	Unidentified sp.
2642	<i>Beauveria bassiana</i>	3197	<i>Beauveria bassiana</i>	3818	<i>Beauveria bassiana</i>
2660	<i>Beauveria bronngniartii</i>	3198	<i>Beauveria bassiana</i>	3819	<i>Beauveria bassiana</i>
2662	<i>Erynia</i> sp.	3199	<i>Beauveria bassiana</i>	3821	Unidentified sp.
2663	<i>Erynia</i> sp.	3210	<i>Metarhizium pingshaense</i>	3841	Unidentified sp.
2664	<i>Erynia</i> sp.	3211	<i>Metarhizium robertsii</i>	3863	<i>Metarhizium</i> sp.
2676	<i>Beauveria bassiana</i>	3219	<i>Beauveria bassiana</i>	3864	<i>Metarhizium brunneum</i>
2679	<i>Isaria fumosorosea</i>	3287	<i>Beauveria bassiana</i>	3865	<i>Metarhizium</i> sp.
2685	<i>Beauveria bassiana</i>	3305	<i>Metarhizium anisopliae</i> sensu lato	3924	<i>Metarhizium anisopliae</i> sensu stricto
2686	<i>Beauveria bassiana</i>	3306	<i>Metarhizium anisopliae</i> sensu lato	3980	Unidentified sp.
2687	<i>Beauveria bassiana</i>	3308	<i>Metarhizium anisopliae</i> sensu lato	4001	<i>Beauveria bassiana</i>
2688	<i>Beauveria bassiana</i>	3309	<i>Beauveria bassiana</i>	4009	Sterile mycelium
2689	<i>Beauveria bassiana</i>	3310	<i>Beauveria bassiana</i>	4011	<i>Fusarium</i> sp.
2690	<i>Beauveria bassiana</i>	3311	<i>Beauveria bassiana</i>	4013	<i>Beauveria bassiana</i>
2691	<i>Beauveria bassiana</i>	3314	<i>Pochonia chlamydosporia</i>	4015	<i>Beauveria bassiana</i>
2692	<i>Beauveria bassiana</i>	3329	<i>Metarhizium anisopliae</i> sensu lato	4016	<i>Beauveria bassiana</i>
2693	<i>Beauveria bassiana</i>	3330	<i>Metarhizium anisopliae</i> sensu lato	4018	<i>Beauveria bassiana</i>
2694	<i>Beauveria varroae</i>	3331	<i>Metarhizium anisopliae</i> sensu lato	4019	<i>Beauveria bassiana</i>
2695	<i>Beauveria bassiana</i>	3332	<i>Metarhizium anisopliae</i> sensu lato	4020	<i>Metarhizium brunneum</i>
2832	<i>Lecanicillium</i> sp. 2(?)	3333	<i>Metarhizium anisopliae</i> sensu lato	4021	<i>Beauveria bassiana</i>
2915	<i>Stilbella buquetii</i>	3334	<i>Metarhizium anisopliae</i> sensu lato	4022	<i>Verticillium lecanii</i>
2937	<i>Isaria farinosa</i>	3335	<i>Metarhizium anisopliae</i> sensu lato	4023	<i>Beauveria bassiana</i>
2938	<i>Beauveria bassiana</i>	3336	<i>Metarhizium anisopliae</i> sensu lato	4024	<i>Beauveria bronngniartii</i>
2941	<i>Metarhizium anisopliae</i> sensu lato	3337	<i>Metarhizium anisopliae</i> sensu lato	4027	<i>Beauveria</i> sp.
2942	<i>Beauveria bassiana</i>	3338	<i>Metarhizium anisopliae</i> sensu lato	4028	<i>Beauveria bassiana</i>
2945	<i>Beauveria bassiana</i>	3339	<i>Metarhizium anisopliae</i> sensu lato	4029	<i>Isaria farinosa</i>
2946	<i>Beauveria bassiana</i>	3340	<i>Metarhizium anisopliae</i> sensu lato	4031	<i>Beauveria bassiana</i>
2950	<i>Penicillium</i> sp.	3342	<i>Zoopthora phytonomi</i>	4032	<i>Beauveria bassiana</i>
2952	<i>Purpureocillium lilacinum</i>	3343	<i>Zoopthora phytonomi</i>	4033	<i>Lecanicillium muscarium</i>
2956	<i>Isaria fumosorosea</i>	3344	<i>Zoopthora phytonomi</i>	4034	<i>Beauveria bassiana</i>
2958	<i>Isaria amoenerosea</i>	3386	<i>Beauveria bassiana</i>	4036	<i>Lecanicillium muscarium</i>
2959	<i>Isaria amoenerosea</i>	3388	<i>Metarhizium robertsii</i>	4037	Unidentified sp.
2960	<i>Isaria amoenerosea</i>	3389	<i>Metarhizium anisopliae</i> sensu lato	4038	<i>Beauveria bassiana</i>
2961	<i>Beauveria bassiana</i>	3403	<i>Beauveria bassiana</i>	4039	<i>Isaria farinosa</i>
2973	<i>Isaria farinosa</i>	3437	<i>Beauveria bassiana</i>	4040	<i>Isaria farinosa</i>
2981	<i>Metarhizium robertsii</i>	3438	<i>Beauveria bassiana</i>	4041	<i>Beauveria bassiana</i>
2983	<i>Beauveria bassiana</i>	3439	<i>Beauveria bassiana</i>	4043	<i>Isaria farinosa</i>
2984	<i>Beauveria bassiana</i>	3440	<i>Beauveria bassiana</i>	4044	<i>Isaria farinosa</i>
2985	<i>Beauveria bassiana</i>	3441	<i>Beauveria bassiana</i>	4045	<i>Isaria farinosa</i>
2986	<i>Beauveria bassiana</i>	3442	<i>Beauveria bassiana</i>	4046	<i>Beauveria bassiana</i>
2987	<i>Beauveria bassiana</i>	3443	<i>Beauveria bassiana</i>	4047	<i>Verticillium lecanii</i>
2988	<i>Beauveria bassiana</i>	3444	<i>Beauveria bassiana</i>	4048	<i>Verticillium lecanii</i>

4049	<i>Beauveria bassiana</i>	4558	<i>Metarhizium anisopliae</i> sensu lato	4980	<i>Beauveria bassiana</i>
4050	<i>Lecanicillium longisporum</i>	4566	<i>Metarhizium majus</i>	4990	<i>Beauveria amorpha</i>
4051	<i>Beauveria bassiana</i>	4568	<i>Metarhizium anisopliae</i> sensu lato	4991	<i>Beauveria brongniartii</i>
4052	<i>Beauveria bassiana</i>	4572	<i>Metarhizium anisopliae</i> sensu lato	4992	<i>Beauveria brongniartii</i>
4054	<i>Beauveria bassiana</i>	4574	<i>Metarhizium anisopliae</i> sensu lato	4993	<i>Beauveria brongniartii</i>
4055	<i>Beauveria bassiana</i>	4582	<i>Metarhizium anisopliae</i> sensu lato	4994	<i>Beauveria brongniartii</i>
4056	<i>Beauveria bassiana</i>	4601	<i>Metarhizium majus</i>	4995	<i>Beauveria brongniartii</i>
4097	<i>Isaria amoenerosea</i>	4604	<i>Metarhizium guizhouense</i>	5070	<i>Beauveria pseudobassiana</i>
4123	<i>Metarhizium robertsii</i>	4610	<i>Metarhizium pingshaense</i>	5071	<i>Beauveria bassiana</i>
4124	<i>Metarhizium frigidum</i>	4642	<i>Beauveria bassiana</i>	5072	<i>Beauveria bassiana</i>
4125	<i>Metarhizium brunneum</i>	4677	<i>Metarhizium anisopliae</i> sensu lato	5073	<i>Isaria farinosa</i>
4130	<i>Beauveria bassiana</i>	4716	<i>Metarhizium anisopliae</i> sensu lato	5074	<i>Isaria farinosa</i>
4131	<i>Metarhizium brunneum</i>	4719	<i>Metarhizium flavoviride</i>	5075	<i>Isaria farinosa</i>
4132	<i>Metarhizium anisopliae</i> sensu lato	4720	<i>Metarhizium flavoviride</i>	5080	<i>Isaria farinosa</i>
4133	<i>Metarhizium anisopliae</i> sensu lato	4721	<i>Beauveria pseudobassiana</i>	5148	<i>Beauveria bassiana</i>
4134	<i>Metarhizium anisopliae</i> sensu lato	4722	<i>Metarhizium anisopliae</i> sensu lato	5149	<i>Metarhizium robertsii</i>
4135	<i>Beauveria bassiana</i>	4777	<i>Metarhizium anisopliae</i> sensu lato	5150	<i>Beauveria bassiana</i>
4136	<i>Beauveria bassiana</i>	4778	<i>Metarhizium anisopliae</i> sensu lato	5184	<i>Paecilomyces</i> sp.
4137	<i>Metarhizium anisopliae</i> sensu lato	4779	<i>Metarhizium anisopliae</i> sensu lato	5186	<i>Beauveria</i> sp.
4138	<i>Metarhizium anisopliae</i> sensu lato	4780	<i>Metarhizium anisopliae</i> sensu lato	5188	Mixed Culture sp.
4139	<i>Metarhizium anisopliae</i> sensu lato	4798	<i>Beauveria bassiana</i>	5193	<i>Paecilomyces</i> sp.
4140	Unidentified sp.	4799	<i>Beauveria bassiana</i>	5195	<i>Beauveria bassiana</i>
4141	<i>Metarhizium anisopliae</i> sensu lato	4819	<i>Metarhizium anisopliae</i> sensu lato	5196	<i>Paecilomyces</i> sp.
4142	<i>Metarhizium anisopliae</i> sensu lato	4820	<i>Metarhizium anisopliae</i> sensu lato	5197	<i>Metarhizium pingshaense</i>
4149	<i>Beauveria amorpha</i>	4821	<i>Metarhizium anisopliae</i> sensu lato	5198	<i>Metarhizium brunneum</i>
4228	<i>Metarhizium brunneum</i>	4822	<i>Metarhizium anisopliae</i> sensu lato	5223	Unidentified / <i>Hyphomycetes</i>
4236	<i>Metarhizium anisopliae</i> sensu lato	4823	<i>Metarhizium anisopliae</i> sensu lato	5224	Unidentified / <i>Hyphomycetes</i>
4239	<i>Metarhizium anisopliae</i> sensu lato	4824	<i>Metarhizium anisopliae</i> sensu lato	5225	Unidentified / <i>Hyphomycetes</i>
4243	Sterile mycelium	4825	<i>Fusarium commune</i>	5226	Unidentified / <i>Hyphomycetes</i>
4274	<i>Beauveria pseudobassiana</i>	4849	<i>Isaria amoenerosea</i>	5227	Unidentified / <i>Hyphomycetes</i>
4290	<i>Metarhizium pingshaense</i>	4852	<i>Cordyceps</i> sp.	5286	<i>Beauveria bassiana</i>
4333	<i>Metarhizium anisopliae</i> sensu lato	4853	<i>Beauveria</i> sp.	5352	<i>Erynia</i> sp.
4334	<i>Metarhizium anisopliae</i> sensu lato	4877	<i>Tolypocladium inflatum</i>	5355	<i>Beauveria brongniartii</i>
4335	<i>Metarhizium anisopliae</i> sensu lato	4878	<i>Tolypocladium inflatum</i>	5356	<i>Beauveria brongniartii</i>
4336	<i>Metarhizium anisopliae</i> sensu lato	4879	<i>Tolypocladium inflatum</i>	5357	<i>Beauveria brongniartii</i>
4337	<i>Metarhizium anisopliae</i> sensu lato	4880	<i>Tolypocladium inflatum</i>	5358	<i>Beauveria brongniartii</i>
4338	<i>Metarhizium anisopliae</i> sensu lato	4881	<i>Tolypocladium inflatum</i>	5359	<i>Beauveria brongniartii</i>
4339	<i>Metarhizium anisopliae</i> sensu lato	4882	<i>Tolypocladium inflatum</i>	5360	<i>Beauveria brongniartii</i>
4340	<i>Metarhizium pingshaense</i>	4883	<i>Tolypocladium inflatum</i>	5361	<i>Beauveria brongniartii</i>
4341	<i>Metarhizium anisopliae</i> sensu lato	4884	<i>Tolypocladium inflatum</i>	5362	<i>Beauveria brongniartii</i>
4342	<i>Metarhizium pingshaense</i>	4885	<i>Tolypocladium inflatum</i>	5363	<i>Beauveria brongniartii</i>
4346	<i>Metarhizium anisopliae</i> sensu lato	4886	<i>Tolypocladium inflatum</i>	5364	<i>Beauveria brongniartii</i>
4380	<i>Beauveria brongniartii</i>	4887	<i>Tolypocladium inflatum</i>	5436	<i>Beauveria bassiana</i>
4381	<i>Beauveria brongniartii</i>	4888	<i>Tolypocladium inflatum</i>	5437	<i>Beauveria bassiana</i>
4382	<i>Beauveria bassiana</i>	4889	<i>Tolypocladium inflatum</i>	5438	<i>Beauveria bassiana</i>
4384	<i>Beauveria asiatica</i>	4890	<i>Tolypocladium inflatum</i>	5439	<i>Beauveria bassiana</i>
4385	<i>Beauveria brongniartii</i>	4891	<i>Tolypocladium inflatum</i>	5440	<i>Beauveria bassiana</i>
4386	<i>Beauveria brongniartii</i>	4892	<i>Tolypocladium inflatum</i>	5441	<i>Beauveria bassiana</i>
4387	Mixed Culture sp.	4893	<i>Tolypocladium inflatum</i>	5442	<i>Beauveria bassiana</i>
4388	<i>Beauveria brongniartii</i>	4894	<i>Tolypocladium inflatum</i>	5443	<i>Beauveria bassiana</i>
4389	<i>Beauveria brongniartii</i>	4895	<i>Tolypocladium inflatum</i>	5444	<i>Beauveria bassiana</i>
4390	<i>Beauveria</i> sp.	4896	<i>Tolypocladium inflatum</i>	5445	<i>Beauveria bassiana</i>
4391	<i>Beauveria</i> sp.	4897	<i>Tolypocladium inflatum</i>	5446	<i>Beauveria bassiana</i>
4392	<i>Beauveria</i> sp.	4898	<i>Tolypocladium inflatum</i>	5447	<i>Beauveria bassiana</i>
4458	<i>Beauveria brongniartii</i>	4907	<i>Metarhizium anisopliae</i> sensu lato	5448	<i>Beauveria bassiana</i>
4465	<i>Beauveria brongniartii</i>	4908	<i>Metarhizium anisopliae</i> sensu lato	5449	<i>Beauveria bassiana</i>
4466	<i>Beauveria brongniartii</i>	4909	<i>Beauveria</i> sp.	5450	<i>Beauveria bassiana</i>
4467	<i>Beauveria brongniartii</i>	4910	<i>Beauveria</i> sp.	5451	<i>Beauveria bassiana</i>
4468	<i>Beauveria brongniartii</i>	4911	<i>Beauveria</i> sp.	5452	<i>Beauveria bassiana</i>
4469	<i>Beauveria brongniartii</i>	4912	<i>Beauveria</i> sp.	5453	<i>Beauveria bassiana</i>
4470	<i>Beauveria brongniartii</i>	4913	<i>Beauveria</i> sp.	5454	<i>Beauveria bassiana</i>
4471	<i>Beauveria brongniartii</i>	4914	<i>Beauveria</i> sp.	5455	<i>Beauveria bassiana</i>
4472	<i>Beauveria brongniartii</i>	4915	<i>Beauveria</i> sp.	5456	<i>Beauveria bassiana</i>
4473	<i>Beauveria brongniartii</i>	4916	<i>Beauveria</i> sp.	5457	<i>Beauveria bassiana</i>
4474	<i>Beauveria asiatica</i>	4917	<i>Beauveria</i> sp.	5458	<i>Beauveria bassiana</i>
4475	<i>Beauveria brongniartii</i>	4918	<i>Beauveria</i> sp.	5459	<i>Beauveria bassiana</i>
4476	<i>Beauveria brongniartii</i>	4933	<i>Beauveria pseudobassiana</i>	5460	<i>Beauveria bassiana</i>
4477	<i>Beauveria brongniartii</i>	4973	<i>Beauveria bassiana</i>	5461	<i>Fusarium</i> sp.
4478	<i>Beauveria brongniartii</i>	4974	<i>Beauveria bassiana</i>	5465	<i>Beauveria bassiana</i>
4557	<i>Metarhizium pingshaense</i>	4975	<i>Beauveria bassiana</i>	5474	<i>Hirsutella fusiformis</i>

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5477	<i>Beauveria bassiana</i>	5856	<i>Verticillium lecanii</i>	6489	<i>Isaria farinosa</i>
5478	<i>Beauveria bassiana</i>	5857	<i>Beauveria bassiana</i>	6491	<i>Isaria farinosa</i>
5479	<i>Beauveria bassiana</i>	5858	<i>Isaria farinosa</i>	6499	<i>Beauveria bassiana</i>
5480	<i>Beauveria bassiana</i>	5875	<i>Fusarium</i> sp.	6501	<i>Verticillium</i> sp.
5481	<i>Beauveria bassiana</i>	5876	<i>Purpureocillium lilacinum</i>	6515	<i>Aspergillus nidulans</i> (?)
5482	<i>Beauveria bassiana</i>	5877	<i>Purpureocillium lilacinum</i>	6516	<i>Cladosporium sphaerospermum</i>
5483	<i>Beauveria bassiana</i>	5878	<i>Fusarium</i> sp.	6526	<i>Beauveria bassiana</i>
5484	<i>Beauveria bassiana</i>	5879	<i>Fusarium</i> sp.	6527	<i>Beauveria bassiana</i>
5485	<i>Beauveria bassiana</i>	5880	<i>Purpureocillium lilacinum</i>	6528	<i>Beauveria bassiana</i>
5486	<i>Beauveria bassiana</i>	5882	<i>Purpureocillium lilacinum</i>	6529	<i>Beauveria bassiana</i>
5487	<i>Beauveria bassiana</i>	5979	<i>Beauveria bassiana</i>	6530	<i>Beauveria bassiana</i>
5488	<i>Beauveria bassiana</i>	5981	<i>Beauveria bassiana</i>	6531	<i>Beauveria bassiana</i>
5489	<i>Beauveria bassiana</i>	5982	<i>Beauveria bassiana</i>	6532	<i>Beauveria bassiana</i>
5490	<i>Beauveria bassiana</i>	5983	<i>Beauveria bassiana</i>	6545	<i>Verticillium lecanii</i>
5498	<i>Ophiocordyceps aphodii</i>	5984	<i>Beauveria bassiana</i>	6546	<i>Metarhizium anisopliae sensu stricto</i>
5501	<i>Beauveria bassiana</i>	5986	<i>Beauveria bassiana</i>	6549	<i>Metarhizium anisopliae sensu lato</i>
5533	<i>Beauveria bassiana</i>	5997	<i>Beauveria bassiana</i>	6551	<i>Metarhizium anisopliae sensu lato</i>
5534	<i>Beauveria bassiana</i>	6055	<i>Beauveria bassiana</i>	6552	<i>Beauveria bassiana</i>
5535	<i>Beauveria bassiana</i>	6057	<i>Beauveria bassiana</i>	6559	<i>Beauveria bassiana</i>
5536	<i>Beauveria bassiana</i>	6058	<i>Beauveria bassiana</i>	6560	<i>Beauveria bassiana</i>
5537	<i>Beauveria bassiana</i>	6059	<i>Beauveria bassiana</i>	6571	<i>Aspergillus</i> sp.
5553	<i>Beauveria bassiana</i>	6061	<i>Beauveria bassiana</i>	6602	<i>Fusarium nygamai</i>
5601	<i>Harposporium janus</i>	6062	<i>Beauveria bassiana</i>	6669	<i>Beauveria bassiana</i>
5622	<i>Beauveria pseudobassiana</i>	6063	<i>Beauveria bassiana</i>	6670	<i>Metarhizium anisopliae sensu lato</i>
5623	<i>Beauveria bassiana</i>	6064	<i>Beauveria bassiana</i>	6671	<i>Metarhizium anisopliae sensu lato</i>
5624	<i>Metarhizium anisopliae sensu lato</i>	6074	<i>Beauveria bassiana</i>	6672	<i>Metarhizium anisopliae sensu lato</i>
5625	<i>Metarhizium brunneum</i>	6075	<i>Beauveria bassiana</i>	6673	<i>Metarhizium anisopliae sensu lato</i>
5626	<i>Metarhizium brunneum</i>	6077	<i>Beauveria bassiana</i>	6674	<i>Metarhizium anisopliae sensu lato</i>
5627	<i>Isaria fumosorosea</i>	6078	<i>Beauveria bassiana</i>	6675	<i>Metarhizium anisopliae sensu lato</i>
5664	<i>Synnematium jonesii</i>	6092	<i>Beauveria bassiana</i>	6676	<i>Beauveria bassiana</i>
5668	<i>Beauveria pseudobassiana</i>	6095	<i>Beauveria bassiana</i>	6677	<i>Metarhizium anisopliae sensu lato</i>
5669	<i>Beauveria pseudobassiana</i>	6096	<i>Beauveria bassiana</i>	6678	<i>Metarhizium anisopliae sensu lato</i>
5670	<i>Beauveria bassiana</i>	6099	<i>Beauveria bassiana</i>	6679	<i>Metarhizium anisopliae sensu lato</i>
5677	Unidentified / <i>Hyphomycetes</i>	6110	<i>Purpureocillium lilacinum</i>	6680	<i>Metarhizium anisopliae sensu lato</i>
5678	<i>Beauveria pseudobassiana</i>	6111	<i>Beauveria bassiana</i>	6681	<i>Beauveria bassiana</i>
5689	<i>Beauveria sungii</i>	6112	<i>Beauveria bassiana</i>	6682	<i>Metarhizium anisopliae sensu lato</i>
5694	<i>Isaria fumosorosea</i>	6113	<i>Beauveria bassiana</i>	6683	<i>Metarhizium anisopliae sensu lato</i>
5695	Unidentified / <i>Hyphomycetes</i>	6120	<i>Metarhizium brunneum</i>	6684	<i>Metarhizium anisopliae sensu lato</i>
5697	<i>Beauveria</i> sp.	6188	<i>Purpureocillium lilacinum</i>	6685	<i>Metarhizium anisopliae sensu lato</i>
5699	<i>Isaria farinosa</i>	6190	<i>Purpureocillium lilacinum</i>	6686	<i>Beauveria bassiana</i>
5729	<i>Candida</i> sp.	6213	<i>Beauveria brongniartii</i>	6689	<i>Beauveria bassiana</i>
5740	<i>Beauveria bassiana</i>	6214	<i>Beauveria brongniartii</i>	6692	<i>Beauveria bassiana</i>
5741	<i>Beauveria bassiana</i>	6215	<i>Beauveria brongniartii</i>	6693	<i>Beauveria bassiana</i>
5742	<i>Beauveria bassiana</i>	6216	<i>Beauveria bassiana</i>	6695	<i>Beauveria bassiana</i>
5743	<i>Beauveria bassiana</i>	6217	<i>Beauveria bassiana</i>	6696	<i>Beauveria bassiana</i>
5744	<i>Beauveria bassiana</i>	6229	<i>Beauveria pseudobassiana</i>	6697	<i>Beauveria bassiana</i>
5745	<i>Beauveria bassiana</i>	6235	<i>Beauveria brongniartii</i>	6721	<i>Beauveria bassiana</i>
5754	<i>Isaria farinosa</i>	6241	<i>Isaria cateniannulata</i>	6730	<i>Isaria fumosorosea</i>
5764	<i>Paraisaria dubia</i>	6243	<i>Isaria cateniannulata</i>	6827	<i>Beauveria amorpha</i> (?)
5807	<i>Beauveria bassiana</i>	6244	<i>Isaria cateniobliqua</i>	6884	<i>Beauveria bassiana</i>
5810	<i>Batkoa</i> sp.	6387	<i>Beauveria bassiana</i>	6885	<i>Beauveria bassiana</i>
5813	<i>Beauveria bassiana</i>	6388	<i>Metarhizium anisopliae sensu lato</i>	6890	<i>Beauveria bassiana</i> (?)
5831	<i>Beauveria</i> sp.	6389	<i>Metarhizium anisopliae sensu lato</i>	6891	<i>Beauveria bassiana</i> (?)
5833	<i>Beauveria</i> sp.	6390	<i>Beauveria bassiana</i>	6900	<i>Beauveria bassiana</i>
5834	<i>Isaria farinosa</i>	6391	<i>Beauveria bassiana</i>	6901	<i>Metarhizium anisopliae sensu lato</i>
5836	<i>Beauveria bassiana</i>	6392	<i>Metarhizium brunneum</i>	6903	<i>Beauveria bassiana</i>
5837	<i>Metarhizium anisopliae sensu lato</i>	6393	<i>Beauveria bassiana</i>	6986	<i>Beauveria bassiana</i>
5838	<i>Beauveria bassiana</i>	6412	<i>Beauveria brongniartii</i>	6987	<i>Beauveria bassiana</i>
5839	<i>Beauveria bassiana</i>	6454	<i>Aspergillus flavus</i>	6988	<i>Beauveria bassiana</i>
5840	<i>Beauveria bassiana</i>	6469	<i>Aspergillus flavus</i>	7000	<i>Metarhizium anisopliae sensu lato</i>
5841	<i>Metarhizium anisopliae sensu lato</i>	6470	<i>Mucor circinelloides</i>	7001	<i>Metarhizium anisopliae sensu lato</i>
5842	<i>Metarhizium anisopliae sensu lato</i>	6471	<i>Beauveria bassiana</i>	7002	<i>Metarhizium anisopliae sensu lato</i>
5843	<i>Beauveria bassiana</i>	6472	<i>Metarhizium robertsii</i>	7003	<i>Metarhizium anisopliae sensu lato</i>
5844	<i>Isaria fumosorosea</i>	6477	<i>Metarhizium brunneum</i>	7004	<i>Metarhizium anisopliae sensu lato</i>
5845	<i>Isaria fumosorosea</i>	6478	<i>Beauveria bassiana</i>	7005	<i>Metarhizium anisopliae sensu lato</i>
5846	<i>Isaria fumosorosea</i>	6483	<i>Beauveria bassiana</i>	7006	<i>Metarhizium anisopliae sensu lato</i>
5847	<i>Isaria fumosorosea</i>	6484	<i>Verticillium</i> sp.	7007	<i>Metarhizium anisopliae sensu lato</i>
5848	<i>Metarhizium anisopliae sensu lato</i>	6486	<i>Verticillium</i> sp.	7008	<i>Metarhizium anisopliae sensu lato</i>
5849	<i>Verticillium lecanii</i>	6487	<i>Verticillium lecanii</i>	7009	<i>Metarhizium anisopliae sensu lato</i>
5850	<i>Metarhizium anisopliae sensu lato</i>	6488	<i>Isaria farinosa</i>	7048	<i>Aspergillus</i> sp.

7063 <i>Fusarium</i> sp.	7456 <i>Tolyposcladium cylindrosporum</i>	7865 <i>Metarhizium anisopliae</i> sensu lato
7119 <i>Isaria javanica</i>	7463 <i>Beauveria</i> sp.	7931 <i>Metarhizium anisopliae</i> sensu lato
7152 <i>Beauveria bassiana</i>	7466 <i>Beauveria bassiana</i>	7932 <i>Metarhizium anisopliae</i> sensu lato
7153 <i>Beauveria bassiana</i>	7470 <i>Beauveria bassiana</i>	7933 <i>Metarhizium anisopliae</i> sensu lato
7154 <i>Beauveria bassiana</i>	7471 <i>Beauveria bassiana</i>	7934 <i>Metarhizium anisopliae</i> sensu lato
7155 <i>Beauveria bassiana</i>	7488 <i>Metarhizium lepidiotae</i>	7935 <i>Metarhizium anisopliae</i> sensu lato
7156 <i>Beauveria bassiana</i>	7492 <i>Metarhizium anisopliae</i> sensu lato	7936 <i>Metarhizium anisopliae</i> sensu lato
7157 <i>Beauveria bassiana</i>	7493 <i>Metarhizium</i> sp.	7941 <i>Beauveria bassiana</i>
7158 <i>Beauveria bassiana</i>	7494 <i>Metarhizium anisopliae</i> sensu lato	7972 <i>Beauveria bassiana</i>
7159 <i>Beauveria bassiana</i>	7495 <i>Metarhizium</i> sp.	7978 <i>Beauveria bassiana</i>
7160 <i>Beauveria bassiana</i>	7496 <i>Metarhizium anisopliae</i> sensu lato	8024 <i>Beauveria caledonica</i>
7161 <i>Beauveria bassiana</i>	7498 <i>Metarhizium anisopliae</i> sensu lato	8037 <i>Beauveria bassiana</i>
7162 <i>Beauveria bassiana</i>	7499 <i>Metarhizium anisopliae</i> sensu lato	8038 <i>Beauveria bassiana</i>
7163 <i>Beauveria bassiana</i>	7500 <i>Metarhizium anisopliae</i> sensu lato	8048 <i>Lecanicillium muscarium</i>
7164 <i>Beauveria bassiana</i>	7504 <i>Metarhizium anisopliae</i> sensu lato	8049 <i>Lecanicillium muscarium</i>
7165 <i>Beauveria bassiana</i>	7505 <i>Metarhizium majus</i>	8050 <i>Lecanicillium muscarium</i>
7166 <i>Beauveria bassiana</i>	7516 <i>Cordyceps brongniartii</i>	8051 <i>Lecanicillium muscarium</i>
7167 <i>Beauveria bassiana</i>	7517 <i>Cordyceps brongniartii</i>	8052 <i>Lecanicillium muscarium</i>
7168 <i>Beauveria bassiana</i>	7524 <i>Metarhizium anisopliae</i> sensu lato	8053 <i>Lecanicillium muscarium</i>
7169 <i>Beauveria bassiana</i>	7525 <i>Beauveria bassiana</i>	8054 <i>Lecanicillium muscarium</i>
7170 <i>Beauveria bassiana</i>	7526 <i>Beauveria bassiana</i>	8055 <i>Lecanicillium pissodis</i>
7171 <i>Beauveria bassiana</i>	7527 <i>Metarhizium anisopliae</i> sensu lato	8056 <i>Lecanicillium pissodis</i>
7172 <i>Beauveria bassiana</i>	7528 <i>Beauveria brongniartii</i>	8057 <i>Lecanicillium pissodis</i>
7173 <i>Beauveria bassiana</i>	7529 <i>Metarhizium anisopliae</i> sensu lato	8058 <i>Evlachovaea kintrischica</i>
7174 <i>Beauveria bassiana</i>	7532 <i>Metarhizium anisopliae</i> sensu lato	8065 <i>Beauveria bassiana</i>
7175 <i>Beauveria bassiana</i>	7551 <i>Evlachovaea</i> sp.	8077 <i>Beauveria bassiana</i>
7176 <i>Beauveria bassiana</i>	7580 <i>Beauveria</i> sp.	8078 <i>Beauveria bassiana</i>
7177 <i>Beauveria bassiana</i>	7581 <i>Beauveria bassiana</i>	8079 <i>Beauveria bassiana</i>
7178 <i>Beauveria bassiana</i>	7591 <i>Beauveria</i> sp.	8098 <i>Metarhizium anisopliae</i> sensu lato
7179 <i>Beauveria bassiana</i>	7595 <i>Beauveria</i> sp.	8099 <i>Metarhizium anisopliae</i> sensu lato
7180 <i>Metarhizium anisopliae</i> sensu lato	7635 <i>Lecanicillium</i> sp.	8110 <i>Beauveria</i> sp.
7181 <i>Lecanicillium lecanii</i>	7636 <i>Lecanicillium</i> sp.	8111 <i>Beauveria</i> sp.
7182 <i>Lecanicillium lecanii</i>	7643 <i>Metarhizium</i> sp.	8112 <i>Beauveria</i> sp.
7202 <i>Beauveria bassiana</i>	7716 <i>Isaria fumosorosea</i>	8113 <i>Beauveria</i> sp.
7218 <i>Evlachovaea kintrischica</i>	7758 <i>Beauveria bassiana</i>	8114 <i>Lecanicillium muscarium</i>
7234 <i>Metarhizium brunneum</i>	7760 <i>Beauveria malawiensis</i>	8115 <i>Lecanicillium lecanii</i>
7241 <i>Beauveria bassiana</i>	7761 <i>Beauveria brongniartii</i>	8116 <i>Beauveria</i> sp.
7244 <i>Beauveria bassiana</i>	7763 <i>Beauveria bassiana</i>	8117 <i>Beauveria</i> sp.
7247 <i>Beauveria bassiana</i>	7764 <i>Beauveria bassiana</i>	8118 <i>Lecanicillium muscarium</i>
7248 <i>Lecanicillium muscarium</i>	7769 <i>Beauveria bassiana</i>	8119 <i>Beauveria</i> sp.
7251 <i>Beauveria bassiana</i>	7773 <i>Beauveria bassiana</i>	8120 <i>Beauveria</i> sp.
7261 <i>Beauveria bassiana</i>	7774 <i>Beauveria bassiana</i>	8121 <i>Beauveria</i> sp.
7264 <i>Beauveria bassiana</i>	7795 <i>Beauveria bassiana</i>	8122 <i>Beauveria</i> sp.
7266 <i>Beauveria bassiana</i>	7805 <i>Engyodontium rectidentatum</i>	8123 <i>Beauveria</i> sp.
7268 <i>Beauveria brongniartii</i>	7812 <i>Tolyposcladium cylindrosporum</i>	8124 <i>Beauveria</i> sp.
7270 <i>Beauveria bassiana</i>	7813 <i>Beauveria bassiana</i>	8125 <i>Beauveria</i> sp.
7271 <i>Beauveria bassiana</i>	7814 <i>Metarhizium anisopliae</i> sensu lato	8126 <i>Beauveria</i> sp.
7272 <i>Beauveria bassiana</i>	7815 <i>Metarhizium anisopliae</i> sensu lato	8127 <i>Beauveria</i> sp.
7275 <i>Beauveria bassiana</i>	7816 <i>Metarhizium anisopliae</i> sensu lato	8128 <i>Beauveria</i> sp.
7276 <i>Isaria farinosa</i>	7819 <i>Metarhizium anisopliae</i> sensu lato	8129 <i>Beauveria</i> sp.
7277 <i>Cordyceps scarabaeicola</i>	7824 <i>Metarhizium anisopliae</i> sensu lato	8130 <i>Beauveria</i> sp.
7278 <i>Cordyceps scarabaeicola</i>	7825 <i>Metarhizium anisopliae</i> sensu lato	8131 <i>Fusarium</i> sp.
7279 <i>Beauveria sungii</i>	7826 <i>Metarhizium anisopliae</i> sensu lato	8132 <i>Beauveria</i> sp.
7280 <i>Beauveria sungii</i>	7827 <i>Metarhizium anisopliae</i> sensu lato	8133 <i>Beauveria</i> sp.
7282 <i>Acremonium alternatum</i>	7828 <i>Metarhizium anisopliae</i> sensu lato	8134 <i>Beauveria</i> sp.
7284 <i>Isaria fumosorosea</i>	7829 <i>Metarhizium anisopliae</i> sensu lato	8135 <i>Beauveria</i> sp.
7403 <i>Evlachovaea</i> sp.	7830 <i>Metarhizium anisopliae</i> sensu lato	8136 <i>Beauveria</i> sp.
7404 <i>Beauveria bassiana</i>	7831 <i>Metarhizium anisopliae</i> sensu lato	8137 <i>Beauveria</i> sp.
7410 <i>Metarhizium pingshaense</i>	7832 <i>Metarhizium anisopliae</i> sensu lato	8138 <i>Beauveria</i> sp.
7411 <i>Metarhizium lepidiotae</i>	7839 <i>Metarhizium anisopliae</i> sensu lato	8139 <i>Beauveria</i> sp.
7412 <i>Metarhizium lepidiotae</i>	7842 <i>Metarhizium anisopliae</i> sensu lato	8140 <i>Beauveria</i> sp.
7417 <i>Metarhizium pingshaense</i>	7843 <i>Metarhizium anisopliae</i> sensu lato	8141 <i>Beauveria</i> sp.
7424 <i>Metarhizium robertsii</i>	7844 <i>Metarhizium anisopliae</i> sensu lato	8142 <i>Isaria fumosorosea</i>
7435 <i>Metarhizium pingshaense</i>	7845 <i>Metarhizium anisopliae</i> sensu lato	8143 <i>Beauveria</i> sp.
7449 <i>Metarhizium robertsii</i>	7846 <i>Metarhizium anisopliae</i> sensu lato	8144 <i>Beauveria</i> sp.
7450 <i>Metarhizium anisopliae</i> sensu stricto	7848 <i>Cordyceps</i> sp.	8145 <i>Beauveria</i> sp.
7451 <i>Metarhizium anisopliae</i> sensu lato	7853 <i>Beauveria bassiana</i>	8146 <i>Beauveria</i> sp.
7452 <i>Metarhizium pingshaense</i>	7854 <i>Metarhizium anisopliae</i> sensu lato	8147 <i>Beauveria</i> sp.
7453 <i>Metarhizium anisopliae</i> var. <i>lepidiotae</i>	7863 <i>Metarhizium anisopliae</i> sensu lato	8148 <i>Beauveria</i> sp.
	7864 <i>Metarhizium anisopliae</i> sensu lato	8149 <i>Beauveria</i> sp.

8150	Beauveria sp.	8501	Metarhizium anisopliae sensu lato	8761	Metarhizium anisopliae sensu lato
8151	Beauveria sp.	8520	Beauveria bassiana	8762	Metarhizium anisopliae sensu lato
8152	Beauveria sp.	8521	Beauveria bassiana	8763	Beauveria bassiana
8153	Beauveria sp.	8522	Beauveria bassiana	8764	Metarhizium anisopliae sensu lato
8154	Beauveria sp.	8523	Beauveria bassiana	8765	Metarhizium anisopliae sensu lato
8155	Unidentified / Hyphomycetes	8524	Beauveria bassiana	8766	Metarhizium anisopliae sensu lato
8156	Beauveria sp.	8525	Beauveria bassiana	8767	Metarhizium anisopliae sensu lato
8157	Lecanicillium muscarium	8526	Beauveria bassiana	8771	Beauveria bassiana
8158	Beauveria sp.	8530	Beauveria bassiana	8772	Beauveria bassiana
8159	Beauveria sp.	8543	Metarhizium robertsii	8773	Beauveria bassiana
8160	Beauveria sp.	8544	Metarhizium robertsii	8774	Beauveria bassiana
8161	Beauveria sp.	8545	Metarhizium robertsii	8775	Metarhizium anisopliae sensu lato
8162	Lecanicillium muscarium(?)	8546	Metarhizium robertsii	8776	Metarhizium anisopliae sensu lato
8163	Lecanicillium muscarium	8547	Metarhizium robertsii	8777	Metarhizium anisopliae sensu lato
8164	Beauveria sp.	8548	Metarhizium robertsii	8778	Metarhizium anisopliae sensu lato
8165	Lecanicillium muscarium	8549	Metarhizium robertsii	8779	Metarhizium anisopliae sensu lato
8166	Beauveria sp.	8550	Metarhizium robertsii	8780	Metarhizium anisopliae sensu lato
8167	Beauveria sp.	8551	Metarhizium robertsii	8781	Metarhizium anisopliae sensu lato
8168	Beauveria sp.	8552	Metarhizium robertsii	8782	Metarhizium anisopliae sensu lato
8169	Beauveria sp.	8553	Metarhizium robertsii	8783	Metarhizium anisopliae sensu lato
8170	Beauveria sp.	8554	Metarhizium robertsii	8784	Metarhizium anisopliae sensu lato
8171	Beauveria sp.	8555	Metarhizium pingshaense	8785	Metarhizium anisopliae sensu lato
8172	Beauveria sp.	8556	Metarhizium robertsii	8786	Metarhizium anisopliae sensu lato
8173	Beauveria sp.	8557	Metarhizium robertsii	8787	Metarhizium anisopliae sensu lato
8174	Beauveria sp.	8558	Metarhizium robertsii	8788	Metarhizium anisopliae sensu lato
8175	Beauveria sp.	8559	Metarhizium robertsii	8789	Metarhizium anisopliae sensu lato
8176	Beauveria sp.	8563	Metarhizium robertsii	8790	Metarhizium anisopliae sensu lato
8177	Beauveria sp.	8564	Metarhizium anisopliae sensu lato	8791	Metarhizium anisopliae sensu lato
8178	Beauveria sp.	8565	Metarhizium robertsii	8792	Metarhizium anisopliae sensu lato
8179	Unidentified / Hyphomycetes	8566	Metarhizium pingshaense	8793	Metarhizium anisopliae sensu lato
8180	Beauveria sp.	8567	Metarhizium robertsii	8794	Metarhizium anisopliae sensu lato
8181	Beauveria sp.	8568	Metarhizium anisopliae sensu lato	8795	Metarhizium anisopliae sensu lato
8182	Beauveria sp.	8569	Metarhizium anisopliae sensu lato	8796	Metarhizium anisopliae sensu lato
8183	Unidentified / Hyphomycetes	8576	Metarhizium robertsii	8797	Metarhizium anisopliae sensu lato
8184	Unidentified / Hyphomycetes	8577	Metarhizium robertsii	8798	Metarhizium anisopliae sensu lato
8185	Beauveria sp.	8582	Metarhizium robertsii	8799	Metarhizium anisopliae sensu lato
8186	Beauveria sp.	8583	Metarhizium robertsii	8828	Metarhizium anisopliae sensu lato
8187	Beauveria sp.	8586	Metarhizium anisopliae sensu stricto	8829	Metarhizium anisopliae sensu lato
8188	Beauveria sp.	8592	Metarhizium robertsii	8830	Metarhizium anisopliae sensu lato
8250	Beauveria sp.	8610	Metarhizium anisopliae sensu lato	8831	Metarhizium anisopliae sensu lato
8260	Beauveria bassiana	8615	Metarhizium anisopliae sensu stricto	8832	Metarhizium anisopliae sensu lato
8261	Beauveria bassiana	8616	Metarhizium anisopliae sensu stricto	8833	Metarhizium anisopliae sensu lato
8262	Beauveria bassiana	8617	Metarhizium anisopliae sensu stricto	8834	Metarhizium anisopliae sensu lato
8263	Beauveria bassiana	8618	Metarhizium pingshaense	8835	Beauveria bassiana
8264	Unidentified / Hyphomycetes	8619	Metarhizium pingshaense	8836	Beauveria bassiana
8265	Lecanicillium muscarium(?)	8620	Metarhizium anisopliae sensu lato	8837	Metarhizium anisopliae sensu lato
8266	Fusarium sp.	8621	Metarhizium pingshaense	8838	Metarhizium anisopliae sensu lato
8267	Fusarium proliferatum	8641	Unidentified / Hyphomycetes	8839	Metarhizium anisopliae sensu lato
8372	Beauveria bassiana	8668	Beauveria bassiana	8840	Isaria fumosorosea
8373	Beauveria bassiana	8705	Beauveria bassiana	8844	Metarhizium anisopliae sensu lato
8411	Isaria farinosa	8732	Metarhizium anisopliae var. lepidiotae	8845	Metarhizium anisopliae sensu lato
8412	Beauveria bassiana	8733	Metarhizium anisopliae sensu lato	8847	Metarhizium anisopliae sensu lato
8413	Beauveria bassiana	8734	Metarhizium anisopliae sensu lato	8848	Metarhizium anisopliae sensu lato
8414	Beauveria bassiana	8737	Metarhizium flavoviride	8849	Metarhizium anisopliae sensu lato
8415	Metarhizium brunneum	8738	Metarhizium anisopliae sensu stricto	8850	Metarhizium anisopliae sensu lato
8416	Metarhizium brunneum	8739	Metarhizium pingshaense	8851	Metarhizium sp.
8417	Metarhizium brunneum	8740	Metarhizium pingshaense	8852	Metarhizium sp.
8418	Metarhizium brunneum	8741	Metarhizium pingshaense	8853	Beauveria bassiana
8419	Metarhizium brunneum	8742	Metarhizium pingshaense	8854	Beauveria bassiana
8420	Metarhizium pingshaense	8743	Metarhizium pingshaense	8855	Metarhizium sp.
8421	Scopulariopsis sp.	8744	Metarhizium anisopliae sensu lato	8856	Metarhizium sp.
8461	Beauveria bassiana	8745	Metarhizium anisopliae sensu lato	8857	Metarhizium sp.
8462	Beauveria bassiana	8746	Metarhizium anisopliae sensu lato	8858	Metarhizium anisopliae sensu lato
8463	Beauveria bassiana	8747	Metarhizium anisopliae sensu lato	8859	Metarhizium anisopliae sensu lato
8464	Beauveria bassiana	8748	Metarhizium anisopliae sensu lato	8860	Metarhizium anisopliae sensu lato
8492	Metarhizium anisopliae sensu lato	8748	Metarhizium anisopliae sensu lato	8861	Metarhizium anisopliae sensu lato
8494	Beauveria bassiana	8754	Metarhizium anisopliae sensu lato	8862	Metarhizium anisopliae sensu lato
8495	Metarhizium anisopliae sensu lato	8755	Metarhizium anisopliae sensu lato	8863	Metarhizium anisopliae sensu lato
8499	Metarhizium anisopliae sensu lato	8756	Beauveria bassiana	8864	Metarhizium anisopliae sensu lato
8500	Metarhizium anisopliae sensu stricto	8757	Beauveria bassiana	8865	Metarhizium anisopliae sensu lato

8866	Metarhizium anisopliae sensu lato	9184	Beauveria bassiana	10410	Beauveria bassiana
8867	Metarhizium anisopliae sensu lato	9217	Metarhizium anisopliae sensu lato	10411	Beauveria bassiana
8868	Metarhizium anisopliae sensu lato	9218	Metarhizium anisopliae sensu lato	10412	Beauveria bassiana
8869	Metarhizium anisopliae sensu lato	9235	Metarhizium anisopliae sensu lato	10413	Beauveria bassiana
8870	Metarhizium anisopliae sensu lato	9236	Metarhizium anisopliae sensu lato	10414	Beauveria bassiana
8871	Metarhizium anisopliae sensu lato	9267	Lecanicillium muscarium	10415	Beauveria bassiana
8872	Metarhizium anisopliae sensu lato	9268	Lecanicillium muscarium	10416	Beauveria bassiana
8873	Metarhizium anisopliae sensu lato	9269	Isaria farinosa	10417	Beauveria bassiana
8874	Metarhizium anisopliae sensu lato	9270	Isaria farinosa	10418	Beauveria bassiana
8875	Metarhizium anisopliae sensu lato	9271	Beauveria bassiana(?)	10419	Beauveria bassiana
8876	Metarhizium anisopliae sensu lato	9272	Beauveria sp.	10420	Beauveria bassiana
8877	Metarhizium anisopliae sensu lato	9273	Fusarium sp.	10421	Beauveria bassiana
8878	Metarhizium anisopliae sensu lato	9274	Fusarium sp.	10422	Beauveria bassiana
8879	Metarhizium anisopliae sensu lato	9275	Isaria farinosa	10423	Beauveria bassiana
8880	Metarhizium anisopliae sensu lato	9276	Isaria farinosa	10424	Beauveria bassiana
8881	Metarhizium anisopliae sensu lato	9277	Isaria farinosa	10425	Beauveria bassiana
8882	Metarhizium anisopliae sensu lato	9278	Isaria farinosa	10426	Beauveria bassiana
8883	Metarhizium anisopliae sensu lato	9297	Beauveria bassiana	10427	Beauveria bassiana
8884	Metarhizium anisopliae sensu lato	9298	Beauveria bassiana	10428	Beauveria bassiana
8885	Metarhizium anisopliae sensu lato	9299	Beauveria bassiana	10429	Beauveria bassiana
8886	Metarhizium anisopliae sensu lato	9300	Beauveria bassiana	10430	Beauveria bassiana
8887	Metarhizium anisopliae sensu lato	9301	Beauveria bassiana	10431	Beauveria bassiana
8892	Isaria fumosorosea	9302	Beauveria bassiana	10432	Beauveria bassiana
8893	Metarhizium anisopliae sensu lato	9371	Purpureocillium lilacinum	10433	Beauveria bassiana
8894	Metarhizium anisopliae sensu lato	9372	Metarhizium anisopliae sensu lato	10434	Beauveria bassiana
8895	Metarhizium anisopliae sensu lato	9373	Metarhizium anisopliae sensu lato	10435	Beauveria bassiana
8896	Metarhizium anisopliae sensu lato	9374	Metarhizium anisopliae sensu lato	10436	Beauveria bassiana
8897	Metarhizium anisopliae sensu lato	9381	Aspergillus flavus	10437	Beauveria bassiana
8898	Metarhizium anisopliae sensu lato	9441	Beauveria bassiana	10438	Beauveria bassiana
8899	Metarhizium anisopliae sensu lato	9442	Beauveria bassiana	10439	Beauveria bassiana
8900	Metarhizium anisopliae sensu lato	9444	Beauveria bassiana	10440	Beauveria bassiana
8901	Metarhizium anisopliae sensu lato	9449	Beauveria bassiana	10441	Beauveria bassiana
8902	Metarhizium anisopliae sensu lato	9452	Beauveria brongniartii	10442	Beauveria bassiana
8903	Metarhizium anisopliae sensu lato	9459	Lecanicillium sp.	10443	Beauveria bassiana
8904	Metarhizium anisopliae sensu lato	9460	Lecanicillium nr. araneorum	10444	Beauveria bassiana
8905	Metarhizium anisopliae sensu lato	9479	Simplicillium lamellicola	10445	Beauveria bassiana
8906	Metarhizium anisopliae sensu lato	9483	Lecanicillium fungicola	10446	Beauveria bassiana
8907	Metarhizium anisopliae sensu lato	9491	Clonostachys rosea	10447	Beauveria bassiana
8908	Metarhizium anisopliae sensu lato	9496	Polycephalomyces sp.	10448	Beauveria bassiana
8909	Metarhizium anisopliae sensu lato	9497	Polycephalomyces sp.	10449	Beauveria bassiana
8910	Metarhizium anisopliae sensu lato	9502	Sporothrix insectorum	10450	Beauveria bassiana
8911	Metarhizium anisopliae sensu lato	9509	Isaria coleopterorum	10451	Beauveria bassiana
8912	Metarhizium anisopliae sensu lato	9511	Isaria farinosa	10452	Beauveria bassiana
8913	Metarhizium anisopliae sensu lato	9516	Isaria farinosa	10453	Beauveria bassiana
8914	Metarhizium anisopliae sensu lato	9519	Isaria sp.	10454	Beauveria bassiana
8915	Metarhizium anisopliae sensu lato	9521	Isaria fumosorosea	10455	Beauveria bassiana
8916	Metarhizium anisopliae sensu lato	9524	Purpureocillium lilacinum	10456	Beauveria bassiana
8917	Isaria farinosa	9602	Isaria fumosorosea	10457	Beauveria bassiana
8918	Purpureocillium lilacinum	9944	Isaria farinosa	10458	Beauveria bassiana
8919	Purpureocillium lilacinum	9945	Isaria farinosa	10459	Beauveria bassiana
8920	Purpureocillium lilacinum	10132	Tilachlidium sp.	10460	Beauveria bassiana
8921	Purpureocillium lilacinum	10347	Beauveria bassiana	10461	Beauveria bassiana
8922	Purpureocillium lilacinum	10350	Beauveria bassiana	10462	Beauveria bassiana
8923	Lecanicillium muscarium	10393	Beauveria bassiana	10463	Beauveria bassiana
8941	Metarhizium anisopliae sensu lato	10394	Beauveria bassiana	10464	Beauveria bassiana
8942	Metarhizium anisopliae sensu lato	10395	Beauveria bassiana	10465	Beauveria bassiana
8943	Metarhizium anisopliae sensu lato	10396	Beauveria bassiana	10466	Beauveria bassiana
8944	Metarhizium anisopliae sensu lato	10397	Beauveria bassiana	10467	Beauveria bassiana
8945	Metarhizium anisopliae sensu lato	10398	Beauveria bassiana	10468	Beauveria bassiana
8946	Metarhizium anisopliae sensu lato	10399	Beauveria bassiana	10469	Metarhizium anisopliae sensu lato
8947	Metarhizium anisopliae sensu lato	10400	Beauveria bassiana	10471	Beauveria bassiana
8948	Metarhizium anisopliae sensu lato	10401	Beauveria bassiana	10472	Metarhizium anisopliae sensu stricto
8949	Metarhizium anisopliae sensu lato	10402	Beauveria bassiana	10475	Metarhizium anisopliae sensu stricto
8950	Metarhizium anisopliae sensu lato	10403	Beauveria bassiana	10476	Metarhizium anisopliae sensu stricto
8951	Metarhizium anisopliae sensu lato	10404	Beauveria bassiana	11652	Scopulariopsis sp.
8952	Metarhizium anisopliae sensu lato	10405	Beauveria bassiana	11660	Beauveria bassiana
8953	Metarhizium anisopliae sensu lato	10406	Beauveria bassiana	11666	Unidentified / Hyphomycetes
8954	Metarhizium anisopliae sensu lato	10407	Beauveria bassiana	11668	Metarhizium guizhouense
8955	Metarhizium anisopliae sensu lato	10408	Beauveria bassiana	11669	Metarhizium guizhouense
8998	Beauveria bassiana	10409	Beauveria bassiana	11670	Fusarium sp.

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11671	Fusarium sp.	12581	Beauveria bassiana	12963	Beauveria caledonica
11672	Fusarium sp.	12582	Beauveria bassiana	12964	Beauveria bassiana
11673	Fusarium sp.	12583	Beauveria bassiana	12965	Beauveria bassiana
11674	Fusarium sp.	12584	Beauveria bassiana	12966	Beauveria bassiana
11675	Fusarium sp.	12585	Beauveria bassiana	12967	Beauveria bassiana
11676	Mixed Culture sp.	12586	Beauveria bassiana	12968	Beauveria bassiana
11677	Fusarium sp.	12587	Beauveria bassiana	12969	Beauveria caledonica
11678	Clonostachys rosea	12588	Beauveria bassiana	12970	Beauveria bassiana
11679	Fusarium sp.	12589	Beauveria bassiana	12971	Beauveria bassiana
11680	Fusarium sp.	12590	Beauveria bassiana	12972	Beauveria caledonica
11681	Penicillium sp.	12591	Beauveria bassiana	12973	Beauveria bassiana
11682	Clonostachys rosea	12592	Beauveria bassiana	12974	Beauveria bassiana
11683	Penicillium sp.	12593	Beauveria bassiana	12975	Beauveria bassiana
11684	Fusarium sp.	12594	Beauveria bassiana	12976	Beauveria pseudobassiana
11685	Metarhizium sp.	12595	Beauveria bassiana	12977	Beauveria bassiana
11686	Metarhizium sp.	12596	Beauveria bassiana	12978	Beauveria bassiana
11687	Clonostachys rosea	12597	Beauveria bassiana	12979	Beauveria bassiana
11718	Mixed Culture sp.	12598	Beauveria bassiana	12980	Beauveria bassiana
11741	Beauveria lii	12599	Beauveria bassiana	12981	Beauveria pseudobassiana
11799	Lecanicillium nr. aranearum	12600	Beauveria bassiana	12982	Beauveria bassiana sensu lato
11803	Lecanicillium muscarium	12601	Beauveria bassiana	12983	Beauveria bassiana sensu lato
11805	Lecanicillium evansii(?)	12602	Beauveria bassiana	12984	Beauveria bassiana sensu lato
11811	Lecanicillium nr. aranearum	12603	Beauveria bassiana	12985	Beauveria bassiana sensu lato
11819	Hirsutella thompsonii	12604	Beauveria bassiana	12986	Beauveria bassiana sensu lato
11827	Isaria farinosa	12605	Beauveria bassiana	12987	Beauveria bassiana sensu lato
11830	Isaria farinosa	12606	Beauveria bassiana	12988	Beauveria bassiana sensu lato
11831	Isaria farinosa	12607	Beauveria bassiana	12989	Beauveria bassiana sensu lato
11836	Metarhizium carneum	12608	Beauveria bassiana	12990	Beauveria bassiana sensu lato
11844	Beauveria bassiana	12609	Beauveria bassiana	12991	Beauveria bassiana sensu lato
11849	Metarhizium sp.	12610	Beauveria bassiana	12992	Beauveria bassiana sensu lato
11850	Metarhizium anisopliae sensu lato	12611	Beauveria bassiana	12993	Beauveria bassiana sensu lato
11878	Beauveria bassiana	12612	Beauveria bassiana	12994	Beauveria bassiana sensu lato
11945	Metarhizium anisopliae sensu lato	12613	Beauveria bassiana	12995	Beauveria bassiana sensu lato
11946	Metarhizium anisopliae sensu lato	12614	Beauveria bassiana	12996	Beauveria bassiana sensu lato
11947	Metarhizium anisopliae sensu lato	12615	Beauveria bassiana	12997	Beauveria bassiana sensu lato
11951	Metarhizium anisopliae sensu lato	12616	Beauveria bassiana	12998	Beauveria bassiana sensu lato
12434	Beauveria bassiana sensu lato	12617	Beauveria bassiana	12999	Beauveria bassiana sensu lato
12435	Beauveria bassiana sensu lato	12618	Beauveria bassiana	13000	Beauveria bassiana sensu lato
12436	Beauveria bassiana sensu lato	12619	Beauveria bassiana	13001	Beauveria bassiana sensu lato
12437	Beauveria bassiana sensu lato	12620	Beauveria bassiana	13002	Beauveria bassiana sensu lato
12438	Beauveria bassiana sensu lato	12793	Beauveria sp.	13003	Beauveria bassiana sensu lato
12439	Beauveria bassiana sensu lato	12794	Beauveria sp.	13004	Beauveria bassiana sensu lato
12440	Beauveria bassiana sensu lato	12795	Beauveria sp.	13005	Beauveria bassiana sensu lato
12441	Beauveria bassiana sensu lato	12796	Metarhizium sp.	13006	Beauveria bassiana sensu lato
12442	Beauveria bassiana sensu lato	12797	Metarhizium robertsii	13007	Beauveria bassiana sensu lato
12443	Beauveria bassiana sensu lato	12798	Metarhizium anisopliae sensu lato	13008	Beauveria bassiana sensu lato
12444	Beauveria bassiana sensu lato	12799	Metarhizium robertsii	13009	Beauveria bassiana sensu lato
12445	Beauveria bassiana sensu lato	12805	Beauveria bassiana	13010	Beauveria bassiana sensu lato
12446	Beauveria bassiana sensu lato	12806	Beauveria bassiana	13011	Beauveria bassiana sensu lato
12447	Beauveria bassiana sensu lato	12807	Beauveria bassiana	13012	Beauveria bassiana sensu lato
12448	Beauveria bassiana sensu lato	12808	Beauveria bassiana	13013	Beauveria bassiana sensu lato
12449	Beauveria bassiana sensu lato	12809	Beauveria bassiana	13014	Beauveria bassiana sensu lato
12450	Beauveria bassiana sensu lato	12810	Beauveria bassiana	13015	Beauveria bassiana sensu lato
12451	Beauveria bassiana sensu lato	12811	Beauveria bassiana	13016	Beauveria bassiana sensu lato
12461	Fusarium sp.	12812	Beauveria bassiana	13017	Beauveria bassiana sensu lato
12517	Beauveria bassiana sensu lato	12813	Beauveria bassiana	13018	Beauveria bassiana sensu lato
12518	Beauveria bassiana sensu lato	12814	Beauveria bassiana	13019	Beauveria bassiana sensu lato
12519	Beauveria bassiana sensu lato	12815	Beauveria bassiana	13020	Beauveria bassiana sensu lato
12520	Beauveria bassiana sensu lato	12816	Beauveria bassiana	13021	Beauveria hoplocheli
12521	Beauveria bassiana sensu lato	12821	Beauveria bassiana	13046	Beauveria bassiana sensu lato
12522	Beauveria bassiana sensu lato	12891	Beauveria bassiana	13047	Beauveria bassiana sensu lato
12557	Metarhizium majus	12892	Beauveria bassiana	13048	Beauveria bassiana sensu lato
12573	Beauveria bassiana	12893	Beauveria bassiana	13049	Beauveria bassiana sensu lato
12574	Beauveria bassiana	12894	Beauveria bassiana	13050	Beauveria bassiana sensu lato
12575	Beauveria bassiana	12957	Beauveria bassiana	13051	Beauveria bassiana sensu lato
12576	Beauveria bassiana	12958	Beauveria bassiana	13052	Beauveria bassiana sensu lato
12577	Beauveria bassiana	12959	Beauveria pseudobassiana	13053	Beauveria bassiana sensu lato
12578	Beauveria bassiana	12960	Beauveria bassiana	13054	Beauveria bassiana sensu lato
12579	Beauveria bassiana	12961	Beauveria bassiana	13055	Beauveria bassiana sensu lato
12580	Beauveria bassiana	12962	Beauveria bassiana	13056	Beauveria bassiana sensu lato

13057	Beauveria bassiana sensu lato	13407	Beauveria sp.	13569	Beauveria bassiana
13058	Beauveria bassiana sensu lato	13408	Beauveria sp.	13572	Beauveria bassiana
13059	Beauveria bassiana sensu lato	13409	Beauveria sp.	13573	Beauveria bassiana
13060	Beauveria bassiana sensu lato	13410	Beauveria sp.	13574	Beauveria bassiana
13061	Beauveria bassiana sensu lato	13411	Beauveria sp.	13575	Beauveria bassiana
13062	Beauveria bassiana sensu lato	13412	Beauveria sp.	13576	Beauveria bassiana
13063	Beauveria bassiana sensu lato	13413	Beauveria sp.	13577	Beauveria bassiana
13064	Beauveria bassiana sensu lato	13414	Beauveria sp.	13578	Beauveria bassiana
13065	Beauveria bassiana sensu lato	13415	Beauveria sp.	13579	Beauveria bassiana
13066	Beauveria bassiana sensu lato	13416	Beauveria sp.	13580	Beauveria bassiana
13067	Beauveria bassiana sensu lato	13417	Beauveria sp.	13581	Beauveria bassiana
13068	Beauveria bassiana sensu lato	13418	Beauveria sp.	13582	Beauveria bassiana
13069	Beauveria bassiana sensu lato	13419	Beauveria sp.	13583	Beauveria bassiana
13070	Beauveria bassiana sensu lato	13420	Beauveria sp.	13584	Beauveria bassiana
13071	Beauveria bassiana sensu lato	13421	Beauveria sp.	13585	Beauveria bassiana
13072	Beauveria bassiana sensu lato	13422	Beauveria sp.	13586	Beauveria bassiana
13073	Beauveria bassiana sensu lato	13423	Beauveria sp.	13587	Beauveria bassiana
13074	Beauveria bassiana sensu lato	13424	Beauveria sp.	13588	Beauveria bassiana
13075	Beauveria bassiana sensu lato	13426	Sporothrix sp.	13589	Beauveria bassiana
13076	Beauveria bassiana sensu lato	13506	Beauveria bassiana	13590	Beauveria bassiana
13077	Beauveria bassiana sensu lato	13515	Beauveria bassiana	13591	Beauveria bassiana
13078	Beauveria bassiana sensu lato	13516	Beauveria bassiana	13592	Beauveria bassiana
13079	Beauveria bassiana sensu lato	13517	Beauveria bassiana	13593	Beauveria bassiana
13080	Beauveria bassiana sensu lato	13518	Beauveria bassiana	13594	Beauveria bassiana
13081	Beauveria bassiana sensu lato	13519	Beauveria bassiana	13595	Beauveria sp.
13082	Beauveria bassiana sensu lato	13520	Beauveria bassiana	13596	Beauveria bassiana
13083	Beauveria bassiana sensu lato	13521	Beauveria bassiana	13597	Beauveria bassiana
13084	Beauveria bassiana sensu lato	13522	Beauveria bassiana	13598	Beauveria bassiana
13085	Beauveria bassiana sensu lato	13523	Beauveria bassiana	13661	Beauveria sp.
13086	Beauveria bassiana sensu lato	13524	Beauveria bassiana	13750	Beauveria bassiana sensu stricto
13087	Beauveria bassiana sensu lato	13525	Beauveria bassiana	13751	Beauveria bassiana sensu stricto
13088	Metarhizium sp.	13526	Beauveria bassiana	14001	Beauveria bassiana sensu lato
13089	Beauveria bassiana sensu lato	13527	Beauveria bassiana	14002	Beauveria bassiana sensu lato
13090	Beauveria bassiana sensu lato	13528	Beauveria bassiana		
13091	Beauveria bassiana sensu lato	13529	Beauveria bassiana		
13092	Beauveria bassiana sensu lato	13530	Beauveria bassiana		
13093	Beauveria bassiana sensu lato	13531	Beauveria bassiana		
13094	Beauveria bassiana sensu lato	13532	Beauveria bassiana		
13219	Metarhizium anisopliae sensu lato	13533	Beauveria bassiana		
13220	Metarhizium anisopliae sensu lato	13534	Beauveria bassiana		
13221	Metarhizium anisopliae sensu lato	13535	Beauveria bassiana		
13257	Beauveria bassiana sensu lato	13536	Beauveria bassiana		
13370	Beauveria sp.	13541	Beauveria bassiana		
13375	Hirsutella eleutheratorum	13542	Beauveria bassiana		
13377	Beauveria sp.	13543	Beauveria bassiana		
13378	Beauveria sp.	13544	Beauveria bassiana		
13379	Beauveria sp.	13545	Beauveria bassiana		
13380	Beauveria sp.	13546	Beauveria bassiana		
13381	Beauveria sp.	13547	Beauveria bassiana		
13382	Beauveria sp.	13548	Beauveria bassiana		
13383	Beauveria sp.	13549	Beauveria bassiana		
13384	Beauveria sp.	13550	Beauveria bassiana		
13385	Beauveria sp.	13551	Beauveria bassiana		
13386	Beauveria sp.	13552	Beauveria bassiana		
13387	Beauveria sp.	13553	Beauveria bassiana		
13388	Beauveria sp.	13554	Beauveria bassiana		
13389	Beauveria sp.	13555	Beauveria bassiana		
13390	Beauveria sp.	13556	Beauveria bassiana		
13391	Beauveria sp.	13557	Beauveria bassiana		
13392	Beauveria sp.	13558	Beauveria bassiana		
13393	Beauveria sp.	13559	Beauveria bassiana		
13394	Beauveria sp.	13560	Beauveria bassiana		
13395	Beauveria sp.	13561	Beauveria bassiana		
13397	Beauveria sp.	13562	Beauveria bassiana		
13398	Beauveria sp.	13563	Beauveria bassiana		
13399	Beauveria sp.	13564	Beauveria bassiana		
13402	Beauveria bassiana	13565	Beauveria bassiana		
13403	Beauveria bassiana	13566	Beauveria bassiana		
13404	Beauveria bassiana	13567	Beauveria bassiana		
13405	Beauveria bassiana	13568	Beauveria bassiana		