

2nd GARA Scientific Workshop, 10-14 November 2014

Draft Meeting Programme

Monday 10th November evening: Registration and drinks reception

Tuesday 11th November

9.00 -9.15

1. Introduction Session

Meeting and GARA organisation- Livio Heath (Other EC members)

- Housekeeping and meeting organisation, introduction of executive committee
- Aims and Programme of Meeting – Background and progress of GARA, aims of scientific sessions

Scientific sessions

Scientific sessions will be organised by 2 selected people. These will be responsible for presenting a summary of state of the field including the gaps identified from Plum Island Meeting.

They will also select presentations from submitted abstracts for presentation of recent and current research and chair the session.

Chairs:

Virology and pathogenesis – Covadonga Alonso, INIA, Madrid, Spain, Sandra Blome, FLI, Germany

Epidemiology- Karl Stahl, SVA, Sweden, Daniel Beltran-Belcrudo, FAO, Rome, Italy

Diagnosis –Carmina Gallardo, CISA/INIA, Madrid, Spain, Amanda Bastos, University Pretoria, S Africa

Vaccine Discovery- Fernando Rodriguez, CReSA, Barcelona, Spain, Manuel Borca, PIADC, USA

Discussion Groups

1. NGS –Richard Bishop, ILRI, Nairobi, Kenya.
2. Genetics of host responses – Bob Rowland, BRI, Kansas State University, USA

2. Virology and Pathogenesis

9.15 – 13.00

9.15 - 10.00 State of the field and gaps identified – virology and pathogenesis: Covadonga Alonso, INIA, Madrid, Spain, Sandra Blome, FLI, Germany

10.00- 11.00 Presentations from submitted abstracts (20 mins plus 5 minutes discussion)



10:00 – 10:25 C. Alonso: African swine fever virus entry mechanism in porcine macrophages

10:25 – 10:50 O. Fasina: Can Thymidine Kinase Gene Predict the Genotypes and Pathogenicities of African swine fever Virus?

10:50 – 11:15 E. Sanchez: Study of different porcine cell lines as models for African Swine Fever Virus infection and production

11.15 - 11.45 Coffee Break

11.45- 13.00 Presentations from submitted abstracts continued

11:45 – 12:10 W. Loeffen: Quantitative excretion and transmission rates of African Swine Fever virus under experimental conditions

12:10 – 12:35 L. Dixon and S. Blome: Transmission parameters for African swine fever virus among domestic pigs and wild boars

12:35 – 13:00 D. Kolbasov: Comparison of genotype and serogroup classification of African swine fever virus

Lunch 13.00- 14.00

3. Epidemiology

14.00- 14.45 Epidemiology state of the field and gaps: Karl Stahl and Daniel Beltran-Alcrudo

14.45- 15.10 D. Beltran-Alcrudo: ASF in Georgia

15.10- 15.35 E. Etter: Assessments of domestic-wild pigs interaction in a specific insular environment: epidemiological role in ASF risk

15.30-16.00 Coffee Break and poster viewing

16.00- 16.25 F. Jori: Assessment of wild boar/domestic pig interactions through the use of questionnaires in Corsica

16.25- 16.50 E. Chenais: Knowledge, attitudes and practices related to African swine fever within smallholder pig production in northern Uganda

16.50- 17.15 T. Kabuuka: Risk factors for African swine fever virus in Uganda, 2012-2013

17.15- 17.40 J. Van Heerden: Epidemiology of African Swine Fever Virus in South Africa from 2000 – 2011

18.05- 19.00 Poster viewing

Wednesday 12th November

4. Diagnostics

9.00- 9.45 Diagnostics state of the field and gaps. Carmina Gallardo and Amanda Bastos

9.45- 11.00 Presentations selected from abstracts

9.45- 10.10 A. Bastos: Tracing transmission routes of African swine fever viruses: Are we getting the most out of the central variable region?

10.10- 10.35 C. Boshoff: Occurrence and molecular characterization of African swine fever virus in Ornithodoros ticks from selected game parks in South Africa

10.35- 11.00 I. Raselabe: An Immunological assay of African swine fever virus proteins p30, p54 and p72

11.00-11.30 Coffee Break

11.30-11. 55 T. Kabuuka: Multi-locus typing of African swine fever viruses from domestic pigs in Uganda using PACT

11.55- 12.20 D. Beltran-Alcrudo: The ASF Genetic Module – Status and Needs

12.20- 12.45 D. Beltran Alcrudo: Regional strategy for the control of African swine fever in Africa

13.00- 14.00 Lunch

5. Vaccine Discovery

14.00- 14.45 Vaccine Discovery state of the field and gaps. Manuel Borca and Fernando Rodriguez

14.45- 15.10 L. Dixon: Deletion of multiple genes from a virulent African swine fever virus strain results in attenuation and induction of a protective immune response

15.10-15.35 M. Borca: African swine fever virus strain Georgia lacking 9GL gene induces protection against the challenge with the virulent parental virus

15.35- 16.05 Coffee break and poster viewing

16.05- 16.30 M. Murgia: Immunogenicity of alphavirus-expressed African swine fever virus p30, p54 and p72 proteins in pigs

16.30- 16.55 FM Mabetlela: Purification of African swine fever Virus Proteins for immunological application

18.00 Departure for Banquet

Thursday 13th November

Vaccine discovery ctd.

9.00- 9.25 S. Babiuk: Vaccine development for African swine fever

9.25- 11.00 6. Discussion Group: Genetics of host responses to infection. Led by Bob Rowland

11.00-11.30 Coffee Break

11.30-13.00 7. Discussion Group: Next generation sequencing. Led by Richard Bishop

13.00-14.00 Lunch

14.00- 15.30 8 Summaries from session and discussion group chairs: Include progress made and future priorities identified (15 minutes each)

15.30-16.00 Coffee Break

16.00- 17.30 GARA Business: Review what has been accomplished to date and what are the next steps for supporting ASF research and the needs of stakeholder.

Friday 14th November

9.00-11.00

The day is open for discussions in small groups

Poster Presentations

Diagnosis

Development and validation of an Immune Peroxidase Monolayer Assay for the detection of antibodies against African Swine Fever: *Willie Loeffen, Bernie Moonen-Leusen, Sjaak Quak, Eefke Weesendorp*

Building capability in African swine fever diagnosis and research at the Australian Animal Health Laboratory. *David T. Williams, Andrea Certoma, Michelle Mazur, Leah Frazer, Jianning Wang, Cameron Stewart, Daniel Layton, Andrew Bean, Dayna Johnson, John Bingham, Deborah Middleton, Sam McCullough, Kurt Zuelke*

Epidemiology

African Swine Fever Threat Reduction Through Surveillance in Ukraine: Assessing the presence of soft ticks in Ukraine (preliminary results) *Adalberto A. Pérez de León¹, Allan Showler¹, Diane Kammlah¹, Roman Oleksiyovich Kucheryavenko^{2*}, Andrew Li³, Sergii Filatov², Viktoriya Kucheryavenko^{2*}, Pavlo Shutchenko², Pete Teel⁴, and Scott McVey⁵*

Estimating the basic reproductive number (R_0) for African swine fever virus (ASFV) transmission between pig herds in Uganda. *M.B. Barongo, K. Stahl, A. Ssematimba, R.P. Bishop, E.M. Fèvre, T. Aliro, C. Maseembe, E. Okoth, D. Knobel and B. Bett*

Virology

Defining mechanisms used by African swine fever virus to evade the host stress response. *Claire Barber¹, Chris Netherton¹, Lynnette Goatley¹, Linda Dixon¹*