



PROGRAM

TRAINING COURSE ON AFRICAN SWINE FEVER (ASF) EPIDEMIOLOGY AND LABORATORY DIAGNOSIS (ASF EPI-LAB)

June 27th to July 1st, 2011

VENUE

**Facultad de Veterinaria
Universidad Complutense de Madrid (UCM)
OIE Reference Laboratory for ASF
Avenida Puerta de Hierro
28040 Madrid, Spain
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and

**Centro de Investigación en Sanidad Animal (CISA-INIA)
European Union and FAO Reference Laboratory for ASF
CISA-INIA. Valdeolmos, Madrid, SPAIN
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controlling the risk of African swine fever in the EU” (ASFRISK)**



Organised in collaboration between

**Facultad de Veterinaria
Universidad Complutense de Madrid (UCM)
OIE Reference Laboratory for ASF
and
Centro de Investigación en Sanidad Animal (CISA-INIA)
European Union Reference Laboratory for ASF**

TEAM

- Prof. José Manuel Sánchez-Vizcaíno, UCM
- Dr. Marisa Arias, CISA-INIA
- Dr. Beatriz Martínez-López, UCM
- Dr. Fernando Sánchez-Vizcaíno, UCM
- Lina Mur, UCM
- Victor Rodríguez, UCM
- Dr. Carmina Gallardo, CISA-INIA
- Alejandro Soler, CISA-INIA
- Gonzalo Pascual, Biosafety and Biocontainment BSL3 Head, CISA-INIA.
- Virginia Pelayo, CISA-INIA
- Dr. Raquel Martín, CISA-INIA
- Raquel Nieto, CISA-INIA
- Dra. Jovita Fernández, CISA-INIA
- Raquel Vargas Álvarez, UCM.

Invited Speakers:

- Dr. Antonio Pina (Portugal)
- Dr. Francesco Feliziani (Italy)
- Dr. Denis Kolbasov (Russia)
- Daniel Beltrán (FAO)
- Evgeny Aganin (Russia)



OBJECTIVES

This is a practical course aiming at training veterinarians specialized in control and laboratory diagnostic of animal infectious diseases, on the principal topics of ASF for the early detection and the control of the disease.

The training course will cover hands-on practices and theoretical lectures and discussions to be held at Veterinary Faculty (UCM), and at Centre for Research on Animal Health (CISA-INIA), Valdeolmos, in Madrid, Spain, during the period of June 27 to July 1, 2011.

Participants from the Caucasian Region, Russian Federation and neighboring countries and from some EU Members will attend the Course.

PROFILE OF PARTICIPANTS

Participants will be organized in two groups:

GROUP A) - Specialists on Epidemiology and in Control of Animal Infectious Diseases.

GROUP B) - Specialists on Laboratory Diagnostics of Animal Infectious Diseases

Fourteen participants supported by the ASFRISK project (7 Epidemiology, 7 Laboratory)



PROGRAM

DAY I, JUNE 27th

MAIN BUILDING at the Veterinary Faculty (UCM)

Both Groups of participants (A and B) will attend the sessions

9:30 Registration

10:00 Welcome to the ASF Training Course, by the Dean of the Veterinary Faculty (UCM)

10:15 Presentation of the Course

- Prof. JM. Sánchez-Vizcaíno (UCM)
- Dr. Marisa Arias (CISA-INIA)

11:30 - Coffee Break

12:00-13:30 - Lecture: African swine fever: An State of Art and Future Trends.

General discussion.

- Prof. JM. Sanchez-Vizcaino (UCM)

13.30 – 14.30 Lunch Break

15:00 - 16:30 - Lecture: African Swine Fever Diagnosis: A general overview, and recent developments.

- Dr. Marisa Arias (CISA-INIA). Discussion.
- Dra. Jovita Fernández (CISA-INIA).

16:30 - 18:00. Lectures: Experience of ASF control in several countries:

Presentations by invited speakers from Portugal (Antonio Pina), Italy (Francesco Feliziani), Russia (Denis Kolbasov), FAO (Daniel Beltrán), Russia (Evgeny Aganin).

18:00 - 19:00 - Introductory Lectures by participants.



DAY II, JUNE 28th

GROUP A:

Venue: Veterinary Faculty (UCM)

SUBJECT: DESCRIPTIVE EPIDEMIOLOGY AND DATA COLLECTION

9:00 – 10:30 - Lecture: Epidemiological Key points of ASF
Training I: Risk factor identification exercise

10:30 -11:00 - Coffee Break

11:00 – 13:00 – Lecture: Descriptive Epidemiology of ASF
Training II: Descriptive Epidemiology practical aspects

13:00 -14:30 - Lunch Break

14:30 – 15:30 - Lecture: Use of GIS for evaluation of ASF epidemiology
Lecture: ASF, Worries of Bulgaria. Dr. Tsviatsko Alexandrov.

15:30 -16:00 - Coffee Break

16:00.- 18:00 – Training II: GIS exercise

Experts: Prof. JM. Sánchez-Vizcaíno; Dr. Beatriz Martínez-López; Lina Mur (UCM); Victor Rodríguez (UCM) and Dr. Fernando Sánchez-Vizcaíno (UCM).

GROUP B:

Venue: Centre for Research on Animal Health (CISA-INIA)

SUBJECT: ASF DIAGNOSIS: HANDS-ON DIAGNOSTIC SIMULATION OR REAL SAMPLES ON ASF SUSPICIOUS SAMPLES.

9:15– 10:00 - Lecture: ASF Diagnostic techniques .Dr. Carmina Gallardo (CISA-INIA)

10:00 – 10:30 - Lecture: Biosafety Training . Access to BSL-3 Facilities.
Gonzalo Pascual, Biosafety and Biocontainment BSL3 Head, (CISA-INIA)



10:30 – 16:30 – Training I: ASFV Isolation (I).

– **Training II:** ASFV Detection. Molecular Techniques: PCR (I) - DNA extraction and PCR.

(13:00 -14:30 - Lunch Break) 16,30 – BUS. Back to Madrid.

Experts: Dr. Carmina Gallardo, Virginia Pelayo, Alejandro Soler (CISA-INIA), Raquel Martín, Raquel Nieto.



DAY III: JUNE 29th

GROUP A:

Venue: Veterinary Faculty (UCM)

SUBJECT: RISK ASSESSMENT AND OTHER EPIDEMIOLOGICAL TOOLS

9:00 – 10:30 - Lecture: New tools for prevention and control of ASF

10:30 -11:00 - Coffee Break

11:00 – 13:00 – Lecture: Risk assessment for ASF: routes of entrance and potential spread

13:00 -14:30 - Lunch Break

14:30 – 17:00 – Training III: Risk assessment exercise (15:30-16:00 - Coffee Break)

17:00.- 18:00 – Lecture: Videos/simulations on ASF – Training exercises

Experts: Prof. JM. Sánchez-Vizcaíno; Dr. Beatriz Martínez-López; Dr. Fernando Sánchez-Vizcaíno, Víctor Rodríguez and Lina Mur (UCM).

GROUP B:

Venue: Centre for Research on Animal Health (CISA-INIA)

SUBJECT: ASF DIAGNOSIS: HANDS-ON DIAGNOSTIC ON ASF SUSPICIOUS SAMPLES (II): ASF VIRUS AND ANTIBODY DETECTION.

9:00 – 16:30 – Training III: ASF Virus Isolation (II)

– **Training IV:** ASF Virus detection: Molecular detection Techniques, conventional and Realtime PCR (II)

– **Training V:** ASFV Antigen detection by Direct Immunofluorescence (DIF). Limitations.

– **Training VI:** ASF Antibody detection by ELISA Tests.

(13:00 -14:30 - Lunch Break)

16,30 – BUS. Back to Madrid.

Experts: Dr. Carmina Gallardo, Virginia Pelayo, Alejandro Soler, Dr. Raquel Martin (CISA-INIA), Dr. Raquel Nieto.



DAY IV, JUNE 30th

GROUP A:

Venue: Veterinary Faculty (UCM)

SUBJECT: SURVEILLANCE STRATEGIES. FINAL ASSIGNMENT.

9:00 – 10:30 - Lecture: Data collection: surveys and sampling.

10:30 -11:00 - Coffee Break

11:00 – 12:00 – Training IV: Data collection exercise

12:00 -13:30 - Lunch Break

13:30 – 18:00 – Training V: Assignment: Field program for early detection of ASF adapted to the specific situation in each country*. (15:30-16:00 - Coffee Break)

Experts: Prof. JM. Sánchez-Vizcaíno; Dr. Beatriz Martínez-López; Dr. Fernando Sánchez-Vizcaíno, Víctor Rodríguez and Lina Mur (UCM)

GROUP B

Venue: Centre for Research on Animal Health (CISA-INIA)

SUBJECT: ASF DIAGNOSIS: HANDS-ON DIAGNOSTIC ON ASF SUSPICIOUS SAMPLES (III).: ASF ANTIBODY DETECTION. CONFIRMATORY TECHNIQUES.

9:00 – 16:30 – Training VII: ASF Virus Isolation (II)

– **Training VIII:** ASF Antibody detection by immunoblotting test,IB.

– **Training IX:**ASF Antibody detection by Indirect Immunoperoxidase test,IPT.

(13:00 -14:30 - Lunch Break)

16,30 – BUS. Back to Madrid.

Experts: Dr. Carmina Gallardo, Virginia Pelayo, Alejandro Soler, Dr.Raquel Martin (CISA-INIA), Dr. Raquel Nieto.



DAY V, JULY 1st

MAIN BUILDING at the Veterinary Faculty (UCM)

GROUPS A + B

09:00 - 10:30 - Lecture: Control strategies of African Swine Fever. Models for eradication. Prof. JM. Sánchez-Vizcaino (UCM)

10:30 - 11:30 - Lecture: Operating, Duties and Main Activities of Reference Laboratories
Dra. Marisa Arias (CISA-INIA) and Prof. JM. Sánchez-Vizcaíno (UCM)

11:30 -12:00 - Coffee Break

12:00-13:45 - Training: ASF EPI-LAB Simulations. Final conclusions.

13:45-14:30 - Training: ASF DIAGNOSIS: Hands-on diagnostic simulation. Final conclusions.

14:30 -15:30 - Lunch Break

16:00 – 18:30 Conclusions and Recommendations.

Experts: Prof. JM. Sánchez-Vizcaino, Dr. Beatriz Martínez-López, Dr. Fernando Sánchez, Victor Rodriguez and Lina Mur (UCM).

Dr. Marisa Arias, Dr. Carmina Gallardo, Dr. Raquel Martin, Dr. Raquel Nieto. (CISA-INIA).

Invited Speakers.