



5th ISHAM-International Veterinary Mycology Course (16-19 October 2023) Faculty of Veterinary Medicine Iasi, Romania

Course Directors:

- **Mihai MARES. DVM, PhD, FECMM**
University of Life Sciences, Faculty of Veterinary Medicine, Iasi, Romania
- **Jacques GUILLOT. DVM, PhD, dipl. EVPC**
Oniris, Veterinary College of Nantes, France
- **Amir SEYEDMOUSAVI. DVM, PhD, FECMM**
National Institutes of Health Clinical Center, Bethesda, MD, United States of America

Course Faculty:

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| • Bernard Mignon. Belgium | • Daniele Marini. Italy |
| • Eduardo Bagagli. Brazil | • Andrea Peano. Italy |
| • Sandra Bosco. Brazil | • Patrizia Danesi. Italy |
| • Marcus Teixeira. Brazil | • Sybren de Hoog. The Netherlands |
| • Vania Vicente. Brazil | • Paul Verwei. The Netherlands |
| • Vit Hubka. Czech Republic | • Hans de Cock. The Netherlands |
| • Henrik Elvang Jensen. Denmark | • Mihai MARES. Romania |
| • Pascal Arné. France | • Matthew Fisher. United Kingdom |
| • Jacques GUILLOT. France | • Bridget Barker. USA |
| • Ramona Guillot Moraru. France | • Leonel Mendoza. USA |
| • Gudrun Wibbelt. Germany | • Amir SEYEDMOUSAVI. USA |
| • Ilse Jacobsen. Germany | |



Day 1

Monday 16 October 2023

8:00-8:30 **Arrival and Registration**

8:30-8:45 **Opening of the course, welcome**
Mihai Mares, Jacques Guillot, Amir Seyedmousavi

Principles of fungal biology, Fungal and fungal-like infections, Diagnostic Mycology

8:45-9:30 **Lecture 1. Sybren de Hoog**
Introduction of the Kingdom Fungi, taxonomy and classification, identification (barcoding, proteomics), biosafety classification, Atlas of clinical fungi

9:30-10:15 **Lecture 2. Jacques Guillot**
Overview of fungal infections in animals. Classification of mycoses, relative importance, clinical manifestations

10:15–10:45 Coffee break

10:45-11:30 **Lecture 3. Amir Seyedmousavi**
Diagnostic Mycology in Practice (Conventional Mycology Work up, Direct Smears, MALDI-TOF, Molecular Diagnostics)

11:30-12:00 **Lecture 4. Amir Seyedmousavi**
Fungal Serodiagnostics

12:00-13:30 Lunch

13:30-15:00 **Practical 1. Amir Seyedmousavi, Jacques Guillot, Andrea Peano, Mihai Mares**
Identification of Yeasts (general principles, use of the Atlas of clinical fungi)

15:00-15:30 Coffee break

15:30-17:00 **Practical 2. Amir Seyedmousavi, Jacques Guillot, Andrea Peano, Mihai Mares**
Identification of Molds (*Aspergillus*, Mucorales, dematiaceous fungi, Emerging species)

17:00-17:30 **Lecture 5. Leonel Mendoza**
Paracoccidioidomycosis ceti in dolphins



Day 2

Tuesday 17 October 2023

Deep mycoses in animals

8:30-9:00 **Lecture 6.** Jacques Guillot
Aspergillosis in mammals

9:00-9:30 **Lecture 7.** Hans de Cock
Characterization of *A. fumigatus* isolates from dogs with SNA reveals in-host adaptation

9:30-10:00 **Lecture 8.** Pascal Arné
Aspergillosis in birds

10:00–10:30 Coffee break

10:30-11:00 **Lecture 9.** Patrizia Danesi
Cryptococcosis in animals

11:00-11:30 **Lecture 10.** Ilse Jacobsen
Lecture. Animal Model of Fungal Infections

11:30-12:30 **Lecture 11.** Amir Seyedmousavi
Overview of Antifungal Agents for Use in Humans and Animals

12:00-13:30 Lunch

13:30-14:00 **Lecture 12.** Paul Verweij
Antifungal resistance

14:00-15:30 **Practical 3.** Amir Seyedmousavi, Mihai Mares
Antifungal susceptibility testing: yeasts and filamentous fungi (Overview of laboratory procedures and guidelines)

15:00-15:30 Coffee break

15:30-17:30 **Practical 4.** Henrik E. Jensen
Histopathological diagnosis of mycoses

17:30-18:00 **Lecture 13.** Vania Vicente
Infections by melanized fungi in cold blooded animals



Day 3

Wednesday 18 October 2023

Cutaneous mycoses in domestic animals

8:30-9:00 **Lecture 14. Amir Seyedmousavi**
Veterinary relevant and zoonotic fungal infections

9:00-9:30 **Lecture 15. Vit Hubka**
Biology, classification, and genetic diversity of dermatophytes

9:30-10:00 **Lecture 16. Bernard Mignon**
Virulence factors, pathogenesis of dermatophytoses

10:00–10:30 **Coffee break**

10:30-11:30 **Lecture 17. Andrea Peano**
Epidemiology, clinical signs, and identification of dermatophytoses in animals

11:30-12:00 **Lecture 18. Jacques Guillot**
Malassezia yeasts and *Malassezia* dermatitis in animals

12:00-1:00 **Lunch**

1:00-14:00 **Lecture 19. Andrea Peano, Jacques Guillot, Ramona Guillot Moraru**
Interactive clinical cases

14:00-15:30 **Andrea Peano, Jacques Guillot, Vit Hubka, Ramona Guillot Moraru**
Practical 5. Identification of dermatophytes

15:30–16:00 **Coffee break**

16:00-16:30 **Lecture 20. Eduardo Bagagli**
Endemic Mycoses in Animals

16:30-17:00 **Lecture 21. Sandra Bosco**
Pythiosis in Equids and Ruminants

17:00-17:30 **Lecture 22. Bridget Barker**
Coccidioidomycoses in Animals

17:30-18:00 **Lecture 23. Markus Teixeira**
Comparative genomics of the pathogenic fungi of human and animal origin



Day 4

Thursday 19 October 2023

Mycoses in wildlife

8:30-9:00 **Lecture 24. Matthew Fisher**
Chytridiomycosis

9:00-9:30 **Lecture 25. Gudrun Wibbelt**
Bat White Nose Syndrome

9:30-10:00 **Lecture 26. Daniele Marini**
Ophidiomycosis

10:00–10:30 Coffee break

10:30-11:00 Final Exam

11:00-11:30 **Mihai Mares, Jacques Guillot, Amir Seyedmousavi**
Course summary & closing remarks

11:30–12:00 Certification ceremony, Lunch and Farewell