



4th ISHAM-International Veterinary Mycology Course (7-11 September 2020) Faculty of Veterinary Medicine Iasi, Romania

Course Directors:



Jacques GUILLOT. DVM, PhD, dipl. EVPC
Veterinary College of Alfort, France

Amir SEYEDMOUSAVI. DVM, PhD, FECMM
National Institutes of Health, Bethesda, MD, USA

Mihai MARES, DVM, PhD, FECMM
Faculty of Veterinary Medicine, Iasi, Romania



Course Faculty:

Richard Malik, Australia

Vanessa Barrs, Australia

Bernard Mignon, Belgium

Cindy Staerck, Belgium

Emilie Faway, Belgium

Vit Hubka, Czech Republic

Henrik E. Jensen, Denmark

Jacques Guillot, France

Pascal Arné, France

Ramona Moraru, France

Ilse Jacobsen, Germany

Gudrun Wibbelt, Germany

Andrea Peano, Italy

Paul Verweij, Netherlands

Willem Melchers, Netherlands

Hein van der Lee, Netherlands

Mihai Mares, Romania

Elena Piecková, Slovenia

Matthew Fisher, United Kingdom

Amir Seyedmousavi, USA



Preliminary Program

Monday 7 September 2020

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

BASIC ASPECTS OF FUNGAL BIOLOGY / OVERVIEW OF VETERINARY MYCOLOGY

8:45-9:30 Amir Seyedmousavi
Lecture 1. Introduction of the Kingdom Fungi, taxonomy and classification, identification (barcoding, proteomics), biosafety

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

10:15–10:45 Coffee break

10:45-11:45 Mihai Mares
Lecture 3. Overview of diagnostic procedures in veterinary mycology

11:45-12:30 Willem Melchers
Lecture 4. Overview of molecular diagnostics and commercial assays

12:30-14:00 Lunch

MYCOLOGY LABORATORY DIAGNOSIS

14:00-14:30 Paul Verweij / Hein van der Lee
Lecture 5. Mycology laboratory: Introduction and principles

14:30-15:30 Hein van der Lee / Amir Seyedmousavi
Practical 1. Mould identification

15:30–16:00 Coffee break

16:00-17:30 Hein van der Lee / Amir Seyedmousavi
Practical 2. Identification of the main species of *Aspergillus* and Mucorales

.....



Preliminary Program

Tuesday 8 September 2020

CUTANEOUS MYCOSES IN ANIMALS

8:00-8:30 Vit Hubka
Lecture 6. Biology, classification, and genetic diversity of dermatophytes

8:30-10:30 Vit Hubka, Andrea Peano, Jacques Guillot
Practical 3. Identification of dermatophytes

10:30–11:00 Coffee break

11:00-12:00 Bernard Mignon, Cindy Staerck, Emilie Faway (videoconference)
Lecture 7. Virulence factors, pathogenesis of dermatophytoses

12:00-13:00 Lunch

MYCOLOGY LABORATORY DIAGNOSIS

13:00-14:30 Andrea Peano
Lecture 8. Epidemiology, clinical signs of dermatophytoses in animals

14:30-15:00 Jacques Guillot
Lecture 9. *Malassezia* yeasts and *Malassezia* dermatitis in animals

15:00–15:30 Coffee break

15:30-16:00 Jacques Guillot
Practical 4. Identification of *Malassezia* yeasts

.....



Preliminary Program

Wednesday 9 September 2020

SYSTEMIC MYCOSES IN ANIMALS

8:30-9:15 **Vanessa Barrs (videoconference)**
Lecture 10. Aspergillosis in dogs and cats

9:15-10:00 **Pascal Arné (videoconference)**
Lecture 11. Aspergillosis in birds

10:00–10:30 **Coffee break**

10:30-11:15 **Richard Malik**
Lecture 12. Cryptococcosis in animals

11:15-12:00 **Amir Seyedmousavi**
Lecture 13. Phaeohyphomycoses in animals

12:00-13:00 **Lunch**

LABORATORY DIAGNOSIS

13:00-15:30 **Henrik E. Jensen**
Lecture 14. Histopathology of animal mycoses

15:30-16:00 **Coffee break**

16:00-17:00 **Hein van der Lee / Amir Seyedmousavi**
Practical 5. Yeast identification and direct microscopy of clinical samples

.....

Preliminary Program



Thursday 10 September 2020

ANIMAL MODELS AND MYCOTOXICOSES

8:30-9:15 Ilse Jacobsen
Lecture 15. Experimental animal / alternative models of fungal infections

9:15-10:00 Elena Piecková (videoconference)
Lecture 16. Mycotoxins and mycotoxicoses in animals

10:00–10:30 Coffee break

ANTIFUNGAL DRUGS AND ANTIFUNGAL SUSCEPTIBILITY

10:30-11:15 Amir Seyedmousavi
Lecture 17. Antifungal drugs in veterinary medicine and resistance to antifungal drugs

11:15-12:00 Paul Verweij
Lecture 18. Azole resistance in *Aspergillus fumigatus*

12:00-13:30 Lunch

MYCOLOGY LABORATORY DIAGNOSIS

13:30-15:00 Hein van der Lee / Amir Seyedmousavi / Mihai Mares
Practical 6. Antifungal susceptibility testing: yeasts and filamentous fungi (Overview of laboratory procedures and guidelines)

OVERVIEW OF CLINICAL CASES

15:00-16:15 Ramona Moraru
Lecture 19. Clinical case reports (part 1: cutaneous mycoses)

16:15–16:45 Coffee break

16.45-18.00 Jacques Guillot
Lecture 20. Clinical case reports (part 2: deep mycoses)



Preliminary Program

Friday 11 September 2020

MYCOSES IN WILDLIFE

8:30-9:45 **Matthew Fisher (videoconference)**
Lecture 21. NGS in Mycology Diagnostics and Research

9:45-10:30 **Matthew Fisher (videoconference)**
Lecture 22. Chytridiomycosis

10:00–10:30 **Coffee break**

10:30-11:15 **Gudrun Wibbelt**
Lecture 23. Bat White Nose Syndrome

11:15-12:00 **Final Exam**

12:00-12:30 **Jacques Guillot / Amir Seyedmousavi / Mihai Mares**
Course summary & closing remarks

12:30–13:30 **Certification ceremony, Lunch and Farewell**

.....

Deadline for application: July 5th, 2020

Registration fee for ISHAM members:

EURO 500 for students, postdocs
EURO 750 for academia
EURO 1000 for Industry participants
(Accommodation is not included)

Registration fee for non-members:

EURO 700 for students, postdocs
EURO 1000 for academia
EURO 1250 for Industry participants
(Accommodation is not included)

Registration link: <https://forms.gle/ghcTV9U1makkaGv89>.

For more information: please contact (veterinarymycology@gmail.com)
or course directors: Jacques Guillot (jacques.guillot@vet-alfort.fr), Amir Seyedmousavi
(Seyedmousavi@nih.gov), Mihai Mares (mycomedica@gmail.com).