

Target Audience

- Physicians and trainees in infectious disease, critical care, transplantation, haemato-oncology, dermatology, pediatrics, and other clinical specialties dealing with fungal infections
- Clinical microbiology laboratory directors/consultants
- CPEP microbiology fellows
- Clinical laboratory scientists (diagnostic microbiology/mycology)
- PhD students and Postdoctoral researchers
- Scientists from infectious disease in vitro diagnostics (IVD) industry or pharmaceutical companies

Faculty

Cornelia Lass-Flörl, Austria
Martin Hönig, Austria
Flavio Queiroz Telles, Brazil
Philippe Dufresne, Canada
Maiken Arendrup, Denmark
Arunaloke Chakrabarti, India
Masoud Mardani, Iran
Paul Verweij, Netherlands
Rita Oladele, Nigeria
Malcolm Richardson, UK
Riina Richardson, UK
Darius Armstrong-James, UK
John Bennett, USA
John Perfect, USA
June Kwon-Chung, USA
Dimitrios Kontoyiannis, USA
Kieren Marr, USA
Mahmoud Ghannoum, USA
Juan Gea-Banacloche, USA
Steven Holland, USA
Mihalis Lionakis, USA
Nathan Wiederhold, USA
Joe Wheat, USA
Gary Procop, USA
Niaz Banaei, USA
Shawn Lockhart, USA
Amir Seyedmousavi, USA

ISHAM-Postgraduate Workshop

Fungal Dx 2024

“FUNGAL DIAGNOSTICS IN CLINICAL PRACTICE”

Dec 4-5, 2024
Bethesda, MD, USA



The following topics will be covered:

Practical algorithms for diagnosis and surveillance of fungal infections, fungal nomenclature, epidemiology and global burden of fungal infections, direct microscopic examination of clinical samples, culture, cytology and histopathology, serology, antigen detection and point of care testing, molecular diagnostics, MALDI-TOF (Yeast vs. Mold), antifungal susceptibility testing (phenotypic and molecular assays to identify resistance), novel therapeutics, and infection-prevention of medically important fungi.

Executive Directors

Amir Seyedmousavi. PhD, D(ABMM), F(ECMM)
National Institutes of Health Clinical Center
Bethesda, MD, USA
Tel: +1 301 8277314
E-mail: Seyedmousavi@nih.gov

Malcolm Richardson. PhD, F(ECMM)
University of Manchester, Manchester, UK
Tel: +44 7545994936
E-mail: malcolm.richardson@manchester.ac.uk

Organizer

'Fungal Diagnostics' working group of International Society for Human and Animal Mycology (ISHAM)

Venue

THE BETHESDAN HOTEL, TAPESTRY COLLECTION
BY HILTON
8120 Wisconsin Avenue, Bethesda, MD, 20814, USA

Program

The final program is available at:
<https://fungaldx.com/program>

Registration

- Early Bird Registration (Feb 5-May 31, 2024)
- Standard Registration (June 1-Sept 20, 2024)
- Late Registration (Sept 21-Nov 20, 2024)
- Reduced fee registration for 'Low-income & Lower-middle-income countries'

Timing

ISHAM-Fungal Dx 2024 will start at 8.00 AM on Wednesday (December 4th, 2024) and will end on Thursday (December 5th, 2024) at 6.00 PM.

Workshop language

The workshop language will be English.

Contact

E-mail: isham@fungaldx.com
Tel: +1 301 284-8350
Web: www.fungaldx.com

Program – Day 1

Fungal Dx 2024
December 4-5, 2024
Bethesda, USA
www.fungaldx.com

4 December 2024

08:00–08:30	Registration & Refreshments
08:30–08:45	Welcome and introductions <i>Amir Seyedmousavi & Malcolm Richardson</i>
Session 1.	Chairs: John Bennett, Gary Procop
08:45–09:10	Case study 1: Why it's important to know local epidemiology of fungal infections? <i>John Bennett</i>
09:10–09:35	Opportunistic fungal disease in normal and abnormal hosts, ICU patients, and children: underlying risk factors <i>John Perfect</i>
09:35–10:00	Global burden of fungal diseases (updates on Latin America, African countries, Europe, and Asia) <i>Malcolm Richardson</i>
10:00–10:25	Importance of fungal identification to species level <i>June Kwon-Chung</i>
10:25–10:40	Q&A
10:40–11:00	Comfort Break
Session 2.	Chairs: Shawn Lockhart, Cornelia Lass-Flörl
11:00–11:25	Case study 2: Why is it important to collect specimens properly if fungal diseases are suspected? <i>Juan Gea-Banacloche</i>
11:25–11:50	Cytology and histopathology of Fungal Diseases <i>Gary Procop</i>
11:50–12:15	Detection of Pneumocystis pneumonia in HIV associated and non-HIV patients <i>Riina Richardson</i>
12:15–12:30	Q&A
12:30–13:30	Lunch

4 December 2024

Session 3.	Chairs: Paul Verweij, Malcolm Richardson
13:30–13:55	Case study 4: Fungal nomenclature (medically important fungi)-WHO fungal priority list, emerging fungal pathogens <i>Shawn Lockhart</i>
13:55–14:20	Diagnostic work up for yeast infections <i>Maiken Arendrup</i>
14:20–14:45	Diagnostic work up for mould infections <i>Cornelia Lass-Flörl</i>
14:45–15:10	Diagnostic work up for dimorphic fungal infections <i>Nathan Wiederhold</i>
15:10–15:25	Q&A
15:25–15:45	Comfort Break
Session 4.	Chairs: Dimitrios Kontoyiannis, Maiken Arendrup
15:45–16:10	Case study 4: Fungal molecular testing, and how to use next-generation sequencing in diagnostic laboratories <i>Niaz Banaei</i>
16:10–16:35	Benefits and Limitations of MALDI-TOF for fungal identification <i>Darius Armstrong-James</i>
16:35–17:00	Clinical sampling, Processing and Direct microscopic examination <i>Arunaloke Chakrabarti</i>
17:00–17:15	Q&A
17:15–18:00	Closing remarks <i>Amir Seyedmousavi & Malcolm Richardson</i>

Program – Day 2

Fungal Dx 2024
December 4-5, 2024
Bethesda, USA
www.fungaldx.com

5 December 2024

08:00 – 08:30	Registration, Welcome & Refreshments
Session 5:	Chairs: Mihalios Lionakis, John Perfect
08:30–08:55	Case study 5: Antifungal host defenses Steven Holland
08:55–09:20	Antifungals and their mechanisms of action: currently available and new antifungal drugs Mihalios Lionakis
09:20–09:45	Antifungal susceptibility testing (EUCAST versus CLSI) Nathan Wiederhold
09:45–10:10	Mechanism of antifungal resistance in yeasts and currently available phenotypic and genotyping laboratory assays Mahmoud Ghannoum
10:10–10:35	Mechanism of antifungal resistance in molds and currently available phenotypic and genotyping laboratory assays Paul Verweij
10:35–10:50	Q&A
10:50–11:10	Comfort Break
Session 6:	Chairs: Juan Gea-Banacloche, Riina Richardson
11:10–11:35	Case study 6: Fungal diagnostic assays that clinicians need in resource-limited countries Rita Oladele
11:35–12:00	Testing for <i>Candida auris</i> colonization screening: Philippe Dufresne
12:00–12:25	Infection prevention for zoonotic dimorphs and other emerging fungal disease Flavio Queiroz Telles
12:25–12:40	Q&A
12:40–13:30	Lunch

5 December 2024

Session 7:	Chairs: Flavio De Queiroz Telles Filho, Kieren Marr
13:30–13:55	Case study 7: A clinician's view of point of care diagnostics for invasive mold disease: promises, challenges, and prospects Dimitrios Kontoyiannis
13:55–14:20	Serodiagnosis of histoplasmosis, blastomycosis and <i>Coccidioides</i> infection Joe Wheat
14:20–14:45	Non-culture-based diagnosis of <i>Aspergillus</i> vs. <i>Candida</i> infections Martin Hönigl
14:45–15:10	Cryptococcosis antigen detection Amir Seyedmousavi
15:10–15:25	Q&A
15:25–15:45	Comfort Break
Session 8:	Chairs: Arunaloake Chakrabarti, Darius Armstrong-James
15:45–16:10	Case study 8: Fungal cell-free DNA (cfDNA) detection Niaz Banaei
16:10–16:35	Non-invasive surrogate markers under development Kieren Marr
16:35–16:50	Q&A
16:50–18:00	Closing remarks and certification ceremony. Amir Seyedmousavi & Malcolm Richardson

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