

XV Congress of Molecular and Cellular Biology of Fungi

Mérida, Yucatán, México

Dates: October 13th to 16th, 2025

Venue: Auditorio Manuel Cepeda Peraza, Centro Cultural Universitario, Universidad Autónoma de Yucatán

Centro Cultural Universitario UADY

Monday, October 13

11:00 - 16:30 Registration

16:45 - 17:00 Open ceremony

17:00 – 17:45 Cultural talk – Dr. Felipe Ruan Soto, Universidad de Ciencias y Artes de Chiapas, "Fungi and the Mayas: an integrated vision from arqueology, history and entography"

17:45 - 18:45 Plenary talk 1 – Dr. Richard A. Wilson, University of Nebraska-Lincoln, "Cracking the codon code for phytopathogen effector secretion and evolution"

18:45 - 20:15 Networking activities

20:15 Welcome reception

Tuesday, October 14

8:30 - 9:30 Plenary talk 2: Dra. Soledad Funes, Instituto de Fisiología - UNAM, “Ribosomal Chaperones at the Crossroads of Proteostasis and Mitochondrial Protein Transport”

9:30 - 11:30 Symposium 1: "Cellular and developmental biology" (Leonardo Peraza)

Invited talk: Diego L. Delgado Álvarez, CICESE, “Refining the View: Computational Superresolution for the Study of Fungal Biology”

Invited talk: Wilhelm Hansberg, Instituto de Fisiología – UNAM, “Hydrophobins as barriers to the permeation of O₂ into the cell”

11:30 - 12:00 Coffee Break

12:00 - 14:00 Symposium 2: Advances in fungal biotechnology (Jorge Verdín / Darío Rafael Olicón)

Invited talk: Herminia Loza Tavera, Facultad de Química – UNAM, “How can *Cladosporium tenuissimum* A3.I.1 grow in a polyester polyurethane (PU) varnish as the only carbon source? Insights from RNA-Seq will support the development of PU biorecycling”

Invited talk: Darío Rafael Olicón Hernández, Instituto Politécnico Nacional, “Extreme fungi and enzymes: a solid-state fermentation approach”

14:00 - 14:30 Flash talks (10 talks, each of 3 minutes)

14:30 - 16:00 Lunch

16:00 - 18:00 Symposium 3: Omic Sciences: Recent Advances (José Manuel Villalobos)

Invited talk: Pablo Cruz Morales, Technical University of Denmark, “How fungi will save us from the climate change apocalypse”

Invited talk: Luisa María Trejo Alarcón, Tec de Monterrey, “Genomic and metabolomic insights into *Trichoderma harzianum* T9, a resilient biocontrol fungus from arid environments”

18:00 – 20:00 Poster Session (Odd numbers) - Coffee Break

Wednesday, October 15

8:30 - 9:30 Plenary talk 3: Dra. Lourdes Villa Tanaka, Instituto Politécnico Nacional, “Ergosterol Biosynthesis in Pathogenic Yeasts of the Genus *Candida*: Therapeutic Targets, Resistance, Antifungal Agents, and Omics Sciences”

9:30 - 11:30 Symposium 4: Host-fungus interactions (Diana Sánchez / Laila Partida)

Invited talk: Francisco Javier Plasencia de la Parra, Facultad de Química- UNAM, “Oxidative stress response during *Fusarium* – maize interaction influences mycotoxin production”

Invited talk: Ingrid Richter, HKI-Jena y Cinvestav-UGA, “Friends or Foes? Endosymbiont-Driven Modulation of Fungal Virulence at the Molecular Level”

11:30 - 12:00 Coffee Break

12:00 - 14:00 Symposium 5: Evolution and ecology of fungi (Lucía Morales Reyes / Eugenio Mancera Ramos)

EMBO Global Investigator Lecture, Francisco Cubillos, Universidad de Santiago de Chile, “Deciphering the Hidden Yeast Diversity in Patagonia”

Invited talk: Patricia Vélez Aguilar, Instituto de Biología - UNAM, “Fungi of the Deep: A Molecular Perspective on Marine Life and its Future Utilization”

14:00 - 14:30 Flash talks (10 talks, each of 3 minutes)

14:30 - 16:00 Lunch

16:00 - 18:00 Symposium 6: Epigenetics and regulation in fungi (Sergio Casas / Irene Castaño)

Invited talk: Alejandro Juárez Reyes, IPICYT, "Profiling of *Candida glabrata* evolved under in vitro and in vivo fluconazole exposure and roles of histone modifying enzymes”.

Invited talk: Alfredo Herrera Estrella, Cinvestav-UGA, "Regulation of gene expression in secondary metabolite production and hormonal signaling in *Trichoderma*".

18:00 - 20:00 Poster Session (Even numbers) - Coffee Break

20:00 – 20:30 Business session

Thursday, October 16

8:30 - 9:30 Plenary talk 4: Dra. Leila Lopes-Bezerra, BIDIagnosics, "From the bench to the bedside: how biotechnology can bring diagnostic solutions to fungal infections"

9:30 - 11:30 Symposium 7: Medical and pharmaceutical applications of fungi (Héctor Mora/ Luis Antonio Pérez García)

Invited talk: Domingo Martínez-Soto, CICESE, "*Fusarium oxysporum* Species Complex. Analyzing their interactions and resistance to fungicides"

Invited talk: Luis Antonio Pérez-García, UASLP, "Strategies for the Management of Priority Fungal Infections: Approaches to *Candida* and Eumycetoma"

11:30 - 12:00 Coffee Break

12:00 - 14:00 Symposium 8: Fungi in bioremediation and climate change (Jorge Ramírez/ Martha Dolores Bibbins Martínez)

Invited talk: Jorge Luis Folch Mallol, UAM, "Bioremediation of hydrocarbons by a new species of the genus *Exophiala* isolated from an oil polluted soil"

Invited talk: Sara Elena Solís Pereira, IT de Mérida, "Contribution of fungi to the removal of xenobiotic compounds from industrial effluents"

14:00 - 15:30 Lunch

15:30 – 16:30 Jeopardy (40 min) and awards (20 min)

16:30 – 17:15 Award: Outstanding scientists in the field of fungal biology (Dr. Salomón Bartnicki)

17:15 - 18:15 Plenary talk 5 - Dr. Victoriano Garre, University of Murcia, "Adenine methylation: an essential epigenetic mark in basal fungi"

20:00 Closing Dinner