

33<sup>rd</sup>

# Fungal Genetics Conference

March 17-22, 2026 | Pacific Grove, CA | #Fungal26



PROGRAM BOOK

 **GSA**

## Table of Contents

Genetics Society of America .....	2
Fungal 2026 Organizers and Fungal Genetics Policy Committee .....	3
Conference Sponsors .....	4
General Information	
Conference App .....	5
Wifi Access .....	5
Registration .....	5
Oral Presentations/Speaker Ready Room .....	6
Poster Presentations .....	6
Job and Meeting Postings .....	7
Meals .....	7
Parking .....	7
Security/Lost and Found .....	7
Quiet Space .....	7
Exhibits .....	8
Conference Policies	
Code of Conduct .....	10
Accessibility .....	11
Diversity and Inclusion .....	11
Social Media/Photo/Video Policy .....	12
Family Policy .....	12
General Safety Tips .....	12
Schedule of Events .....	113
Oral Presentations and Workshop Session Listings	
Tuesday, March 17 .....	16
Wednesday, March 18 .....	17
Thursday, March 19 .....	21
Friday, March 20 .....	26
Saturday, March 21 .....	30
Poster Session Listings	
Biochemistry and Metabolism .....	35
Biotechnology .....	37
Cell Biology .....	38
Developmental Biology .....	41
Evolutionary/Comparative Genomics .....	42
Functional Genomics .....	46
Fungal Diversity .....	48
Fungal Ecology .....	49
Gene Regulation .....	50
Initiatives in Education and Pedagogy .....	52
Pathogenic and Mutualistic Interactions .....	52
Population Genomics .....	57
Synthetic Biology .....	58
Ads .....	59
Asilomar Conference Grounds Map .....	62



GSA is an international scientific society representing more than 5,000 researchers and educators around the world. In addition to connecting researchers through conferences and career programs, we publish two peer-reviewed scholarly journals, GENETICS and G3: Genes | Genomes | Genetics. We encourage you to join GSA so you can make use of exclusive member benefits and get involved in the Society's many programs, including professional development training, awards, advocacy, and more. Join us as we work to advance the field and serve our community. Visit [genetics-gsa.org](http://genetics-gsa.org) for more information.

# GENETICS

GENETICS has been innovating since 1916, publishing high quality original research across the breadth of the field.



G3: Genes | Genomes | Genetics is an open access journal that publishes high quality, useful results regardless of perceived impact.

## 2026 GSA Board of Directors

### Officers

Cassandra Extavour, *President*

David Greenstein, *Vice President*

Brenda Andrews, *Immediate Past President*

Maureen Barr, *Secretary*

Mary Mullins, *Treasurer*

### Directors

Heather Bennett

Monica Colaiacovo

Kirk Lohmueller

Eyleen O'Rourke

Tania Reis

Jeffrey Ross-Ibarra

Jeff Sekelsky

Arun Sethuraman

Jason Stajich

Judith Yanowitz

### Journal Editors

Howard Lipshitz, Editor in Chief, GENETICS

Lauren McIntyre, Editor in Chief, G3: Genes | Genomes | Genetics

### Early Career Representatives

Peiwei Chen

Taylor Mouton

### Executive Director

Tracey DePellegrin

## Scientific Organizers

Merixell Riquelme, CICESE

Antonis Rokas, Vanderbilt University

## Fungal Genetics Policy Committee

Xiaorong Lin, University of Georgia (2019–2026) *Chair*

Luis Corrochano, Universidad de Sevilla (2024–2030)

Reinhard Fischer, Karlsruhe Institute of Technology (KIT) (2022–2028)

Alex Idnurm, University of Melbourne (2024–2030)

Luis Larrondo, Pontificia Universidad Católica de Chile (2019–2026)

Li-Jun Ma, University of Massachusetts Amherst (2022–2028), *Poster Award Chair*

Vera Meyer, Technical University of Berlin (2019–2026)

Rebecca Shapiro, University of Guelph (2024–2030)

Oded Yarden, The Hebrew University of Jerusalem (2022–2028)

John Leslie, Fungal Genetics Stock Center, *Ex Officio*

## Exhibit and Sponsor Committee

Deborah Bell-Pedersen, Texas A&M University, *Chair*

Antonio di Pietro, Universidad de Cordoba

Kevin Fuller, University of Oklahoma Health Sciences Center

Bing Zhai, Shenzhen Institute of Advanced Technology

Genetics Society of America gratefully acknowledges the following sponsors:

## Gold Sponsors

---

**GENETICS**



**US Biological**  
Life Sciences

## Silver Sponsors

---



**Fungal  
Biology and  
Biotechnology**



Journal of  
*Fungi*

an Open Access Journal by MDPI

## Sponsor

---



## Conference App

---

Download the GSA Conference App to your smartphone (available on both iOS and Android) to have meeting information at your fingertips. Once you download the app, you will only need access to the internet for program updates. You will not need an internet connection to access previously downloaded information. Full access to the Program is also available through the web version on the conference website.

Your registration badge ID is needed to access the App. The badge ID was sent in a registration confirmation email from the address [NoReply@Convention-Mail.com](mailto:NoReply@Convention-Mail.com) and is on your conference badge.

## Wifi Access

---

Complimentary Wifi is available in the meeting rooms and Fireside Pavilion. Below are instructions on how to access the network.

1. Select Asilomar Conference from the list of available networks in their Wifi Settings
2. Enter your personal email address
3. Enter the Promo Code on the Gateway Page
4. Promo Code: conference2026
5. Accept terms and conditions

## Registration

---

Registrants were emailed their badge to print at home. Show your pre-printed badge to the registrar to collect your badge holder and lanyard in Surf and Sand. For admission to the sessions, posters, exhibits, and receptions, you must have your official conference badge.

The Program Book, Abstract Book, and Certificates of Attendance and Participation are all available online. The Registration Desk will be open in Surf and Sand during the hours noted below.

Tuesday, March 17	4:00 p.m.–9:30 p.m.
Wednesday, March 18	8:00 a.m.–5:00 p.m.
Thursday, March 19	8:30 a.m.–4:00 p.m.
Friday, March 20	8:30 a.m.–4:00 p.m.

## Oral Presentations/Speaker Ready Room

All plenary and concurrent session speakers must go to the Speaker Ready Room located in Triton 24 hours before the start of your session to upload and review your presentation and become familiar with the equipment that will be in the session room. You will not be able to use your own computer or upload your presentation in the session room. The day of your presentation, arrive 20 minutes before the start of your session (not your talk) to let the session chair know you are there and to get any last minute instructions. The Speaker Ready Room will be open during the hours noted below.

Tuesday, March 17	4:00 p.m.–7:30 p.m.
Wednesday, March 18	7:30 a.m.–5:00 p.m.
Thursday, March 19	8:00 a.m.–5:00 p.m.
Friday, March 20	8:00 a.m.–5:00 p.m.
Saturday, March 21	8:00 a.m.–2:00 p.m.

## Poster Sessions

All posters will be displayed in the Fireside Pavilion located in the garage under the Fred Farr Forum. Display your poster after 9:00 a.m. the day of your presentation. All posters will be up for one day. Posters must be removed at 10:30 p.m. After that time, remaining posters will be removed and recycled. The meeting does not take responsibility for posters that are not removed on time. Authors will present according to the following schedule:

<b>Wednesday, March 18</b>	All "A" posters must be displayed.	
	7:00 p.m.–7:30 p.m.	Open Viewing
	7:30 p.m.–8:30 p.m.	Odd-numbered posters
	8:30 p.m.–9:30 p.m.	Even-numbered posters
	9:30 p.m.–10:30 p.m.	Open Viewing
<b>Thursday, March 19</b>	All "B" posters must be displayed.	
	7:00 p.m.–7:30 p.m.	Open Viewing
	7:30 p.m.–8:30 p.m.	Odd-numbered posters
	8:30 p.m.–9:30 p.m.	Even-numbered posters
	9:30 p.m.–10:30 p.m.	Open Viewing
<b>Friday, March 20</b>	All "C" posters must be displayed.	
	7:00 p.m.–7:30 p.m.	Open Viewing
	7:30 p.m.–8:30 p.m.	Odd-numbered posters
	8:30 p.m.–9:30 p.m.	Even-numbered posters
	9:30 p.m.–10:30 p.m.	Open Viewing

## Job and Meeting Postings

---

Individuals and institutions offering or seeking employment and organizers of meetings may post notices and resumes on the Community Notices bulletin board, which is located in the Fireside Pavilion.

## Meals

---

Meals are not included in the registration fee. Guests staying at Asilomar, or in a off-site hotel reserved through Asilomar and those who purchased a meal plan are invited to eat at Crocker Dining Hall. If you prefer to eat outside, you can pick up a to-go meal in Crocker Dining Hall and sit at the picnic tables available in the meadow. Phoebe Cafe, located in the Social Hall, has a limited menu available for those that did not purchase a meal plan. Meals are offered at the following times:

Breakfast	7:30 a.m.–8:30 a.m.
Lunch	12:00 p.m.–1:00 p.m.
Dinner	6:00 p.m.–7:00 p.m.

## Parking

---

Parking on the Asilomar Conference Grounds is complimentary.

## Security/Lost and Found

---

For all emergencies and lost and found items, contact Asilomar security by dialing 0 from any house phone. The conference Registration Desk will be able to assist you as well.

## Quiet Space

---

There are living rooms available in Lodge, Afterglow, Pirates Den, and Stuck-Up Inn for those who are looking for a quiet space to recharge.

GSA wishes to thank our fantastic group of exhibitor partners. Be sure to visit the companies that have come to support your science and show you how they can help advance your research. You can renew current relationships or meet potential future suppliers.

### **BioSense Solutions**

<https://biosensesolutions.dk/>

info@biosensesolutions.dk

oCelloScope™ Live-Cell Imaging – Automated Microbial Growth Kinetics and Morphology Analysis. The oCelloScope™ platform is used by microbiologists all over the world to study growth and morphology. We use image analysis and machine learning to provide a time-lapse technology 250 times more sensitive than using OD (plate readers).

### **Cultivarium**

[cultivarium.org](http://cultivarium.org)

kenneth@cultivarium.org

Cultivarium empowers life scientists to access the biosphere's genetic potential by creating tools for engineering novel microorganisms. We aim to provide essential resources—including culture recipes, DNA delivery parameters, and genome engineering methods—enabling researchers to discover and tune microbes to solve pressing global challenges and push biotechnology frontiers faster than ever.

### **FungiDB**

[www.fungidb.org](http://www.fungidb.org)

FungiDB accommodates diverse genomic-scale datasets on hundreds of fungal/oomycete species, including genome sequences and annotation, transcriptomic and other functional data, phenotypic information, orthology tools for comparative analysis and functional inference, and more. Advanced tools (now supported by AI) enable users to ask their own questions, expediting hypothesis generation and testing.

### **Mycology Journal**

<https://www.tandfonline.com/journals/tmyc20>

[hanl@im.ac.cn](mailto:hanl@im.ac.cn)

*Mycology: An International Journal on Fungal Biology* (ISSN 2150-1203) is a quarterly, open-access journal published by Taylor & Francis. The journal dedicates itself to publishing high-quality research across all subdisciplines of mycology. It aims to establish a robust academic platform to foster scholarly communication and constructive dialogue within the global mycological community.

**Nikon Instruments Inc**

<https://www.microscope.healthcare.nikon.com/>  
[thomsen@nikon.com](mailto:thomsen@nikon.com)

**PhytoAB Inc**

[www.phytoab.com](http://www.phytoab.com)  
[frank@phytoab.com](mailto:frank@phytoab.com)

**Union Biometrica, Inc.**

[sales@unionbio.com](mailto:sales@unionbio.com)  
[www.unionbio.com](http://www.unionbio.com)

Union Biometrica provides flow cytometry for objects that are too large for traditional cytometers, such as fungal pellets, and offers an alternative to manual sorting. These instruments analyze and dispense objects based on size and fluorescent parameters. Automating this process offers increased speed, sensitivity, quantification, and repeatability of experiments.

## Code of Conduct

---

This Code of Conduct covers in-person conferences, online conferences, and other online events hosted by the Genetics Society of America. GSA conferences include plenary presentations, concurrent sessions, poster presentations, workshops.

GSA Conferences foster an international community of geneticists and provide an opportunity to discuss scientific advances and form new collaborations.

GSA values your attendance and wants to make your experience productive and inspiring by fostering an open exchange of ideas in a professional setting. Our Code of Conduct was established to communicate a transparent set of standards and guidelines for acceptable behavior at GSA Conferences and to provide a positive, safe, and welcoming environment for all attendees, vendors, volunteers, and staff.

All conference participants (regardless of their role) are expected to follow the Code of Conduct while attending any portion of the conference, including but not limited to keynote presentations, concurrent sessions, live poster Q&A sessions, and workshops. Because there is also a virtual nature to the conference, our Code of Conduct extends to communications related to the meeting and its attendees, presenters, exhibitors, sponsors, staff, and vendors. These types of communications include Zoom chat, Zoom Q&A window, live poster Q&A, email, social media, and texts.

### Unacceptable Behaviors

Unacceptable behaviors include, but are not limited to:

- Intimidating, harassing, abusive, discriminatory, derogatory, or demeaning speech or actions by any participant and at all related events
- Harmful or prejudicial verbal or written comments or visual images related to gender, gender expression, gender identity, marital status, sexual orientation, race, religion, political orientation, socioeconomic standing, disability or ability status, or other personal characteristics, including those protected by law
- Inappropriate use of nudity and/or sexual images (including presentation slides, posters, Slack channels, or Zoom chat)
- Deliberate intimidation or stalking
- Violating the rules and regulations of the online provider, Zoom
- Sustained disruption of scientific sessions or other events
- Unwelcome and uninvited attention or contact
- Real or implied threat of physical harm
- Real or implied threat of professional or financial damage or harm
- Photographing or reproducing slides of oral presentations and posters without permission

- Recording of scientific and other sessions without permission

### **Taking Action or Making a Report**

To confidentially report a Code of Conduct violation or to file a complaint, including a complaint about a GSA volunteer or GSA staff member, please visit [genetics-gsa.ethicspoint.com](https://genetics-gsa.ethicspoint.com). Please email Tracey DePellegrin, GSA Executive Director, at [tracey.depellegrin@genetics-gsa.org](mailto:tracey.depellegrin@genetics-gsa.org). GSA staff is available to assist participants in making a report.

### **Consequences of Non-compliance**

Anyone asked by GSA staff, Organizer, Session Chair, Workshop Leader, Moderator, Presenter, or Zoom representative to stop unacceptable behavior is expected to comply immediately. Retaliation toward GSA or toward someone reporting an incident or after experiencing any of the following consequences will not be tolerated and may result in additional sanctions.

The consequences of non-compliance with GSA's Code of Conduct may include:

- Immediate removal from in-person meeting
- Immediate removal from accessing the online meeting
- Immediate removal from Slack channels and the meeting app without warning
- Restrictions from future GSA meeting attendance
- Termination of GSA membership or positions on GSA Boards or Committees
- Incidents may be reported to the proper authorities

### **Accessibility**

---

GSA is committed to assisting attendees with special needs. If you have accessibility questions or requests please email [gsaconferences@genetics-gsa.org](mailto:gsaconferences@genetics-gsa.org). If you have difficulty walking long distances, consider renting a scooter from Scoot Around. They will deliver your scooter to your hotel and pick it up when you no longer need it. For more details, visit [www.scootaround.com](http://www.scootaround.com) or call (888) 441-7575.

### **Diversity and Inclusion**

---

GSA is committed to foregrounding equity, accessibility, and inclusion alongside scientific content, education, and professional development at each step of conference planning. We seek to create opportunities for all individuals to fulfill their scientific potential, regardless of their background, identity, or circumstances.

A commitment to inclusion leads to innovation by attracting the widest possible talent to the community and fostering greater diversity of ideas, approaches, and perspectives. The Allied Program Committee and the Community Organizers aim to select speakers and session chairs that represent the breadth and diversity of the discipline and of conference participants. GSA especially encourages the Committee and

Organizers to select excellent speakers from groups that have been historically excluded or marginalized in science.

### **Social Media/Photo/Video Policy**

---

Live posting of presentations on social media is allowed unless the speaker explicitly opts out by stating so at the start of the talk. Taking or sharing photos or videos of posters is permitted only with the presenter's consent during the assigned poster session. Taking photos of posters while the presenter is not present is strictly prohibited. By attending a GSA Conference, you grant GSA the right to use your photograph, video, name, and likeness for use in GSA educational, news, or promotional materials.

### **Family Policy**

---

Fungal 2026 welcomes attendees with children!

Children are allowed in plenary, concurrent, and poster sessions; this includes babywearing of young children. Those travelling with family members or caregivers who are not in the scientific community and not registered for the meeting can obtain a guest pass from the conference Registration Desk so that they can accompany children into the poster sessions. All guests will be asked to agree to the Conference Code of Conduct and will need a name badge to enter the sessions. Guests must obtain their pass during posted registration hours.

To ensure the safety of all children in attendance and to create a productive and fulfilling meeting atmosphere for all attendees, we ask all parents and caregivers to abide by the following guidelines:

- Children ages 12 and under must be accompanied by an adult in all meeting areas.
- Parents and caregivers should do their best to ensure that children are not disruptive to any sessions they attend (including poster sessions).
- For safety reasons, children are not allowed in the Exhibit/Poster Hall during set-up or break-down times.

### **General Safety Tips for Attending Meetings**

---

You should practice common sense safety guidelines when attending any conference:

- Be aware of your surroundings at all times, and don't get distracted by your phone.
- Use the buddy system when leaving the hotel, especially during early morning and late evening hours.
- Don't wear your meeting badge outside of the designated meeting space or when you leave the hotel.
- Don't carry a lot of cash or credit cards.
- Don't leave personal property unattended anywhere, at any time.

All times are listed in Pacific Standard Time (PST)

Monday, March 16, 2026		
7:00 p.m. – 10:00 p.m.	22nd International Aspergillus Meeting	Merrill Hall
Tuesday, March 17, 2026		
8:30 a.m. – 3:00 p.m.	22nd International Aspergillus Meeting	Merrill Hall
9:00 a.m. – 5:30 p.m.	Fusarium Workshop	Chapel
9:00 a.m. – 5:30 p.m.	4th Symposium on Zygosporic and Zoosporic Fungi	Fred Farr Forum
9:00 a.m. – 5:00 p.m.	Magnafest	Kiln
9:00 a.m. – 5:30 p.m.	Dothideomycetes Genetics Workshop	Nautilus
1:00 p.m. – 2:00 p.m.	Conference Success Tips and Welcome from the Early Career Leadership Program	Scripps
2:30 p.m. – 3:00 p.m.	Getting Involved in GSA's Early Career Professional Development	Scripps
3:30 p.m. – 4:30 p.m.	Individual Development Plan	Scripps
4:00 p.m. – 9:30 p.m.	Registration	Surf and Sand
4:00 p.m. – 7:30 p.m.	Speaker Ready Room	Triton
6:00 p.m. – 7:00 p.m.	Dinner (for those staying at Asilomar or bought a meal plan)	Crocker Dining Hall
7:30 p.m. – 9:00 p.m.	Opening Social	Merrill Hall
Wednesday, March 18, 2026		
7:30 a.m. – 8:00 a.m.	Netwalking	Meet at Crocker Dining Hall
7:30 a.m. – 5:00 p.m.	Speaker Ready Room	Triton
8:00 a.m. – 5:00 p.m.	Registration	Surf and Sand
8:45 a.m. – 12:00 p.m.	Welcome and <b>Plenary Session 1: From Signals to Systems: Fungal Cell Regulation and Development</b>	Merrill Hall and Chapel
12:00 p.m. – 1:00 p.m.	Lunch (for those staying at Asilomar or bought a meal plan)	Crocker Hall and Box lunches on patio
12:30 p.m. – 1:45 p.m.	Scientific Journeys & Community	Chapel
1:00 p.m. – 2:00 p.m.	Meet up with morning plenary session speakers	Social Hall Deck
3:00 p.m. – 6:00 p.m.	Concurrent Sessions	
	Antifungal Drugs and Resistance	Merrill Hall
	Artificial Intelligence in Fungal Research	Fred Farr Forum
	Ecology of Fungal Communities	Kiln
	Genomics of Environmental Opportunism: Fungal Adaptation at the Edge of Pathogenicity	Chapel
	Lipid Homeostasis in Fungal Pathogenesis and Drug Resistance	Scripps
	Multicellular Development	Heather
	Nutrient Sensing	Nautilus
6:00 p.m. – 7:00 p.m.	Dinner (for those staying at Asilomar or bought a meal plan)	Crocker Dining Hall
7:00 p.m. – 10:30 p.m.	"A" Poster Presentations and Exhibit Session (cash bar available)	Fireside Pavilion

Thursday, March 19, 2026		
7:30 a.m. – 8:00 a.m	Netwalking	Meet at Crocker Dining Hall
8:00 a.m. – 4:00 p.m.	Speaker Ready Room	Triton
8:30 a.m. – 4:00 p.m.	Registration	Surf and Sand
9:00 a.m. – 12:00 p.m.	Plenary Session 2: Dangerous Liaisons: Fungal Pathogens in Host Interactions	Merrill Hall and Chapel
12:00 p.m. – 1:00 p.m.	Lunch (for those staying at Asilomar or bought a meal plan)	Crocker Hall and Box lunches on patio
12:30 p.m. – 1:45 p.m.	Navigating the National Science Foundation and the Directorate of Biological Sciences	Chapel
1:00 p.m. – 2:00 p.m.	Meet up with morning plenary session speakers	Social Hall Deck
3:00 p.m. –6:00 p.m.	<b>Concurrent Sessions</b>	
	Cell Wall Synthesis and Remodeling	Scripps
	Fungal Strain Heterogeneity & Pangenomes	Chapel
	Fungi and their Interactions with Animals and Microbes	Fred Farr Forum
	Genomic Technologies	Kiln
	Host Pathogen Interactions	Merrill Hall
	Sensing and Signaling	Heather
	Sexual and Asexual Development	Nautilus
6:00 p.m. – 7:00 p.m.	Dinner (for those staying at Asilomar or bought a meal plan)	Crocker Dining Hall
7:00 p.m. – 10:30 p.m.	"B" Poster Presentations and Exhibit Session (cash bar available)	Fireside Pavilion
Friday, March 20, 2026		
7:30 a.m. – 8:00 a.m	Netwalking	Meet at Crocker Dining Hall
8:00 a.m. – 5:00 p.m.	Speaker Ready Room	Triton
8:30 a.m. – 4:00 p.m.	Registration	Surf and Sand
8:55 a.m. – 12:00 p.m.	Plenary Session 3: Fungal Evolution, Genomics, and Cellular Adaptations	Merrill Hall and Chapel
12:00 p.m. – 1:00 p.m.	Lunch (for those staying at Asilomar or bought a meal plan)	Crocker Hall and Box lunches on patio
12:30 p.m. – 1:45 p.m.	Toward 10,000 fungal genomes and phenotypes	Chapel
12:30 p.m. – 1:45 p.m.	Neurospora Business Meeting	Merrill Hall
1:00 p.m. – 2:00 p.m.	Meet up with morning plenary session speakers	Social Hall Deck
3:00 p.m. –6:00 p.m.	<b>Concurrent Sessions</b>	
	Clocks and Light Sensing	Fred Farr Forum
	Effectors and Defense Mechanisms	Chapel
	Fungal Genome Evolution	Merrill Hall
	Genomic and Ecological Perspectives on Fungal Symbiosis across the Parasitism-mutualism Spectrum	Scripps
	Mycotechnology	Nautilus
	The Plasticity of Fungal Genome Organization	Kiln
	The Spatial Organization of Fungal Cells	Heather

Friday, March 2026 continued		
6:00 p.m. – 7:00 p.m.	Dinner (for those staying at Asilomar or bought a meal plan)	Crocker Dining Hall
7:00 p.m. – 10:30 p.m.	"C" Poster Presentations and Exhibit Session (cash bar available)	Fireside Pavilion
Saturday, March 21, 2026		
8:00 a.m. – 2:00 p.m.	Speaker Ready Room	Triton
8:55 a.m. – 12:00 p.m.	Plenary Session 4: Systems Biology and Ecological Interactions of Fungi	Merrill Hall and Chapel
12:00 p.m. – 1:00 p.m.	Lunch (for those staying at Asilomar or bought a meal plan)	Crocker Hall and Box lunches on patio
12:30 p.m. – 2:00 p.m.	Fungal Policy Committee Meeting (invitation only)	Surf and Sand
1:00 p.m. – 1:45 p.m.	Meet up with morning plenary session speakers	Social Hall Deck
2:00 p.m. – 5:00 p.m.	Concurrent Sessions	
	Bioengineering and Fungal Biology	Kiln
	Chromatin Biology and Epigenomics	Scripps
	Emerging and Re-emerging Fungal Pathogens	Merrill Hall
	Fungal Adaptation to Infection-relevant Traits	Fred Farr Forum
	Life in the Water: Freshwater and Marine Fungi	Nautilus
	RNA Biology in Fungi	Chapel
	Secondary Metabolites and Volatile Compounds in Fungal Communications	Heather
5:30 p.m. – 5:45 p.m.	GSA Student Poster Awards and Fungal26 Postdoc Poster Awards	Merrill Hall and Chapel
5:45 p.m. – 6:30 p.m.	Perkins/Metzenberg Lecture, Nancy Keller	Merrill Hall and Chapel
6:30 p.m. – 7:30 p.m.	Dinner (for those staying at Asilomar or bought a meal plan)	Crocker Dining Hall
8:30 p.m. – 11:00 p.m.	Closing Party with the Amplified DNA Band Hosted Bar 8:30 p.m. – 9:30 p.m. Cash Bar 9:30 p.m. – 11: 00 p.m.	Merrill Hall
Sunday, March 22, 2026		
7:30 a.m. – 8:30 a.m.	Breakfast	Crocker Hall

## Concurrent and Workshop Session Listings

### Monday, March 16, 2026

7:00 p.m. – 8:30 p.m.

Merrill Hall

#### **22nd International Aspergillus Meeting**

### Tuesday, March 17, 2026

8:30 a.m. – 2:30 p.m.

Merrill Hall

#### **22nd International Aspergillus Meeting**

Organizer: Mike Bromley

9:00 a.m. – 5:30 p.m.

Fred Farr Forum

#### **4th Symposium on Zygosporic and Zoosporic Fungi**

Organizers: Luis Corrochano, Victor Garre, Joseph Heitman and Joey Spatafora

9:00 a.m. – 6:00 p.m.

Nautilus

#### **Dothideomycetes Genetics Workshop**

Organizers: Burt Bluhm, Stephen B. Goodwin and Megan McDonald

9:00 a.m. – 5:30 p.m.

Chapel

#### **Fusarium Workshop**

Organizers: Domingo Martinez-Soto, Manuel Sanchez Lopez-Berges and Dilay Hazal Ayhan

9:00 a.m. – 6:00 p.m.

Kiln

#### **Magnafest**

Organizers: Franke Menke and Miriam Oses-Ruiz

1:00 p.m. – 2:00 p.m.

Scripps

#### **Conference Success Tips and Welcome from the Early Career Leadership Program**

The purpose of this event is to help first-time conference attendees and early career scientists make the most of the conference and provide a chance to meet other attendees in an informal setting. Topics covered may include introductions to organizers of the meeting, advice on having meaningful interactions, and an introduction to scientific events and other conference programming.

2:30 p.m. – 3:00 p.m.

Scripps

#### **Getting Involved in GSA's Early Career Professional Development**

GSA Early Career Leadership Program (ECLP) members will join us in sharing how to get involved in GSA's professional development programming for early career scientists. GSA will walk through upcoming events and programs including how and when to apply to join the ECLP.

3:30 p.m. – 4:30 p.m.

Scripps

#### **Individual Development Plan**

This workshop will walk participants through the career exploration process by combining self-assessment exercises with IDP-informed strategies to break participants out of the linear career path. Participants will leave with a better understanding of their personal goals and how to ensure that their professional goals align with their values and needs.

## Wednesday, March 18, 2026

8:45 a.m. – 12:00 p.m.  
Merrill Hall and Chapel

### Welcome and Plenary Session 1: From Signals to Systems: Fungal Cell Regulation and Development

*Session Chairs:* Martine Bassilana, University Cote d'Azur/CNRS/INSERM, France; and Kap-Hoon Han, Woosuk University, Republic of Korea

8:45 a.m. GSA Welcome **Jason Stajich**

8:55 a.m. Fungal Policy Chair Welcome **Xiaorong Lin**

8:58 a.m. Organizer Welcome **Meritxell Riquelme and Antonis Rokas**

**1** 9:05 a.m. Microtubule-dependent endosomal mRNA transport **Michael Feldbrügge** Heinrich-Heine University Duesseldorf

**2** 9:35 a.m. Control of conidiation in *Aspergillus nidulans*: On the centrality and specificity of the master regulator BrlA **Oier Etxebeste** University of the Basque Country

**3** 10:05 a.m. Circadian clock control of mRNA translation, translation fidelity, and aging **Deborah Bell-Pedersen** Texas A&M University

10:35 a.m. Coffee break

**4** 11:00 a.m. Emergent behaviour of mycelial networks **Mark Fricker** University of Oxford

**5** 11:30 a.m. Structural insights into mechanisms of zinc scavenging by the *Candida albicans* zincophore **Johanna Syrjanen** University of Helsinki

## Concurrent and Workshop Session Listings

### Wednesday, March 18, 2026

12:30 p.m. – 1:45 p.m.  
Chapel

### Scientific Journeys & Community

Session Chair: Javier Tabima, Clark University

This session aims to highlight personal scientific trajectories and the ways in which background, training, mentorship, institutional context, and lived experience influence:

- Research questions and approaches
- Mentorship and lab culture
- Engagement with students, collaborators, and the broader fungal genetics community
- Outreach, education, and community-building efforts

12:30 p.m. Introduction, Javier Tabima, Clark University

12:35 p.m. Korena K. Mafune, University of Washington

12:45 p.m. Lotus Lofgren, University of California, Berkeley

12:55 p.m. Terry Torres-Cruz, Purdue University

1:05 p.m. Juliana Gonzalez-Tobón, Cornell University

1:15 Roundtable Discussion - Moderated Q&A and community dialogue

1:40 p.m. Closing

## Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Kiln

### Ecology of Fungal Communities

*Session Chairs:* Natalie Christian, University of Louisville, United States; and Adriana Romero, University of California, Riverside, United States

**6** 3:00 p.m. Impact of global change drivers on dryland fungi: Implications for public health and biodiversity **Katharine Gottwald** New Mexico State University

**7** 3:20 p.m. Global patterns of diversity and distribution in *Aspergillus* fungi are driven by human and environmental influences **Olivia Riedling** Vanderbilt University

**8** 3:40 p.m. Annual grass invasion is associated with differences in the community structure and abundance of biocrusts, arbuscular mycorrhizal fungi, and general fungi **Rachel Berner** Washington State University

**9** 4:00 p.m. Metatranscriptomics of natural communities reveals functional differentiation and seasonal nutrient transport in the Populus soil microbiome **Keaton Tremble** Duke University

4:20 p.m. Coffee break

**10** 4:40 p.m. A 150-Year Record of Foliar Fungal Endophyte Dynamics in Norway Spruce (*Picea abies*) Across Finland **Fred Asiegbu** University of Helsinki

**11** 5:00 p.m. Tissue specificity, ecological function, and salinity tolerance of fungi associated with the pneumatophores and leaves of black mangrove (*Avicennia germinans*) **Justin Shaffer** California State University, Fresno

**12** 5:20 p.m. Direct and indirect effects of the keystone fungal endophyte *Epichloë amarillans* under anthropogenic global change **Natalie Christian** University of Louisville

**13** 5:40 p.m. Assessing the Ecological and Genomic Determinants of Facultative Pathogenicity Through *Colletotrichum siamense* on Strawberry **Libby Indermaur** Connecticut Agricultural Experiment Station

## Concurrent and Workshop Session Listings

## Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Merrill Hall

### Antifungal Drugs and Resistance

*Session Chairs:* Judith Berman, Tel Aviv University, Israel; and Jeffrey Rybak, St. Jude Children's Research Hospital, United States

**14** 3:00 p.m. *Candida auris* can acquire echinocandin tolerance via HOG-MAPK pathway modulation and cell-wall remodeling that escapes routine AFST, reduces in vivo treatment efficiency, and facilitates resistance evolution **Hans Carolus** Université Laval

**15** 3:20 p.m. Functional Genomic Mapping Illuminates the Network Architecture of Drug Resistance in *Candida glabrata* **Catrin Williams** University of Exeter

**16** 3:40 p.m. Proteomic profiling of antifungal drug responses of *Aspergillus fumigatus* indicates drug-specific signatures and modes of action **Olaf Kniemeyer** Leibniz Institute for Natural Product Research and Infection Biology (HKI)

**17** 4:00 p.m. An *Aspergillus fumigatus* homeobox transcription factor provides resistance to copper stress and alters lipid metabolism through oxylipin signaling **Harrison Estes** University of Wisconsin-Madison

4:20 p.m. Coffee break

**18** 4:40 p.m. Digging into organic waste: Environmental selection of azole-resistant *Aspergillus fumigatus*. **Bo Briggeman** Wageningen University & Research

**19** 5:00 p.m. Rapid Emergence of Highly Fungicide-Persistent Variants During Cryptococcal Infections **Yuyan Xie** Institute of Microbiology, Chinese Academy of Sciences (IMCAS)

**20** 5:20 p.m. Evolutionary adaptation of *Candidozyma auris* during human infection **Jeffrey Rybak** St. Jude Children's Research Hospital

**21** 5:40 p.m. ColonyPy: A python-based image analysis pipeline to quantify tolerance and heteroresistance in *Cryptococcus neoformans* **Priscilla Atim** Virginia Tech University

## Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Fred Farr Forum

### Artificial Intelligence in Fungal Research

*Session Chairs:* Orlando Arguello-Miranda, North Carolina State University, United States; and Abbe LaBella, UNC Charlotte, United States

**22** 3:00 p.m. Quantitative imaging of fungal life cycle transitions through generative deep learning **Orlando Arguello-Miranda** North Carolina State University

**23** 3:20 p.m. AI-driven protein design to understand effector function within the *Magnaporthe oryzae* rice pathosystem **Angus Bucknell** The Sainsbury Laboratory

**24** 3:40 p.m. Allopolyploidization as a driver of structural, functional, and phenotypic diversification in *Brettanomyces bruxellensis* **Joseph Schacherer** University of Strasbourg / CNRS

**25** 4:00 p.m. Deep Learning and Generative AI for Fungal Genomics **Carson Andorf** USDA-Agricultural Research Service

4:20 p.m. Coffee break

**26** 4:40 p.m. Interrogating yeast biodiversity by analyzing “silent” synonymous codon bias with machine learning **Abbe LaBella** University of North Carolina, Charlotte

**27** 5:00 p.m. Characterization of *de novo* miniproteins targeting *Candida albicans* virulence traits **Evelyne Côté** University of Toronto

**28** 5:20 p.m. AI-Driven *Fusarium* Databases: identify key genetic variation and target to combat agricultural threats and aid development of crops resistant to disease and mycotoxin contamination **Hye-Seon Kim** USDA-Agricultural Research Service

**29** 5:40 p.m. AI-Driven Phenotyping Uncovers Predominantly Antagonistic Dynamics in Poplar Root Bacterial–Fungal Interactions **Tomas Rush** Oak Ridge National Laboratory

## Concurrent and Workshop Session Listings

## Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Chapel

### Genomics of Environmental Opportunism: Fungal Adaptation at the Edge of Pathogenicity

*Session Chairs:* Iuliana Ene, Institut Pasteur, France; and Andrei Steindorff, Lawrence Berkeley National Laboratory, United States

**30** 3:00 p.m. Heat adaptation in the pathogenic yeast *Cryptococcus deneoformans* **Asiya Gusa** Duke University

**31** 3:20 p.m. Evolutionary Analysis of Pmk1 MAPK-dependent fungal pathogenesis across the Fungal Tree of Life **Neha Sahu** The Sainsbury Laboratory

**32** 3:40 p.m. Investigating the repeated evolution of pathogenesis in *Aspergillus* section *Fumigati* **Thomas Sauters** Vanderbilt University

**33** 4:00 p.m. Single-cell genomics of Freshwater Zoospore Fungi **Steven Ahrendt** DOE Joint Genome Institute

4:20 p.m. Coffee break

**34** 4:40 p.m. When Preparedness Meets Opportunity – A Genomic Perspective on the Ecological Plasticity of *Trichoderma* **Irina Druzhinina** The Royal Botanic Garden Kew

**35** 5:00 p.m. High-throughput genetics in the *Cryptococcus* genus **Blake Billmyre** University of Georgia

**36** 5:20 p.m. The Evolution of Host Preference Across the *Botrytis* Genus **Lori Pradhan** Louisiana State University

**37** 5:40 p.m. Recent lineage diversification and gene flow shape climate adaptation in the Swiss needle cast pathogen of Douglas-fir **Richard Hamelin** University of British Columbia

## Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Scripps

### Lipid Homeostasis in Fungal Pathogenesis and Drug Resistance

*Session Chairs:* Kai Heimel, Georg-August-University, Germany; and Chaoyang Xue, Rutgers University, nited States

**38** 3:00 p.m. A ceramide synthase is important for filamentous fungal biofilm morphology and antifungal drug resistance **Robert Cramer** Geisel School of Medicine at Dartmouth

**39** 3:20 p.m. Genomic and transcriptomic profiling of *Hanseniaspora guilliermondii*'s ethanol stress response **Diogo Santos** iBB, Institute for Bioengineering and Biosciences, Instituto Superior Técnico, University of Lisbon

**40** 3:40 p.m. Tolerance to the antifungal drug fluconazole is mediated by tuning cytoplasmic fluidity **Robert Arkowitz** CNRS/INSERM/University Cote d'Azur

**41** 4:00 p.m. Lipid homeostasis in antifungal resistance of *Cryptococcus neoformans* **Shoily Khondker** Public Health Research Institute, New Jersey Medical School, Rutgers University

4:20 p.m. Coffee break

**42** 4:40 p.m. Powdery Mildew Fungi Manipulate Plant Lipid Metabolism for their Growth & Reproduction **Mary Wildermuth** University of California Berkeley

**43** 5:00 p.m. Evolution of short amino-acid insertions in Gcn4 rewires metabolic gene regulation in the *Candida* lineage **Megan Garber** University of California, San Francisco

**44** 5:20 p.m. Membrane fluidity control by the *Magnaporthe oryzae* acyl-CoA binding protein sets the thermal range for host rice cell colonization **Richard Wilson** University of Nebraska at Lincoln

**45** 5:40 p.m. Elucidation of fluconazole resistance in the emerging fungal pathogen *Candida auris* **Tamaki Tatesaka** Chiba University

## Concurrent and Workshop Session Listings

## Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Heather

### Multicellular Development

*Session Chairs:* Yen-Ping Hsueh, Max Planck Institute for Biology, Germany; and Anita Sil, University of California, San Francisco, United States

**46** 3:00 p.m. Large-scale transcriptomics reveal a kexin protease required for the formation of the multicellular host morphology of the fungal pathogen *Coccidioides* **Christina Homer** Oregon Health & Science University

**47** 3:20 p.m. Transcriptional regulation during vegetative reproduction in the Mucoral fungus *Phycomyces blakesleeanus* **María Corrochano-Luque** University of Sevilla

**48** 3:40 p.m. Cellularization in chytrid fungi uses distinct mechanisms from conventional cytokinesis and cellularization in animals and yeast **Edgar Medina** University of Massachusetts Amherst

**49** 4:00 p.m. Cell polarity and the making of a trap for nematode predation **Yen-Ping Hsueh** Max Planck Institute for Biology

4:20 p.m. Coffee break

**50** 4:40 p.m. A cytokinetic contractile-ring-associated short kinesin-3 motor is required for sexual development in *Podospora anserina* **Leonardo Peraza-Reyes** National Autonomous University of Mexico

**51** 5:00 p.m. Environmental drivers and cellular mechanisms of development in the fungal pathogen *Coccidioides* **Rachel Brem** University of California, Berkeley

**52** 5:20 p.m. Phosphoproteomic analysis of the Target of Rapamycin (TOR) signalling pathway in the rice blast fungus *Magnaporthe oryzae* **Matthew Wengler** The Sainsbury Laboratory

**53** 5:40 p.m. From dormancy to disease: a life cycle proteome atlas of *Cryptococcus neoformans* **Benjamin Chadwick** University of Macau

## Concurrent and Workshop Session Listings

### Wednesday, March 18, 2026

3:00 p.m. – 6:00 p.m.

Nautilus

#### Nutrient Sensing

*Session Chairs:* James Konopka, Stony Brook University, United States; and James Kronstad, University of British Columbia, Canada

**54** 3:00 p.m. Ubiquinone promotes nutrient sensing in the fungal pathogen *Candida albicans* **James Konopka** Stony Brook University

**55** 3:20 p.m. Metabolic crosstalk between the opportunistic pathogen *Candida albicans* and the gastrointestinal tumor microenvironment **Rosana Alves** Universidade do Minho

**56** 3:40 p.m. Copper homeostasis links plant colonization and trap formation in the nematode-trapping fungus *Arthrobotrys flagrans* **Rafael Palos Fernandez** Karlsruhe Institute of Technology

**57** 4:00 p.m. Fungal Foundries: Differential Nutrient Uptake Across the Fungal Kingdom **Jack Orebaugh** Oak Ridge National Lab

4:20 p.m. Coffee break

**58** 4:40 p.m. Fungi at the buffet: The regulatory landscape of nutrient sensing **Lori Huberman** Cornell University

**59** 5:00 p.m. The High Cost of Assimilation: How Wood-Decaying Fungi Balance Transcriptional Investment Between Extracellular Deconstruction and Intracellular Metabolism **Idoia Jimenez** Public University of Navarre

**60** 5:20 p.m. Fire-adapted fungi: specialists, generalists, and charcoal chompers **Monika Fischer** University of British Columbia

**61** 5:40 p.m. A candidate effector modulates virulence dependent on temperature and host phosphate status by regulating root colonization **Jacy Newfeld** The University of Tokyo

### Thursday, March 19, 2026

9:00 a.m. – 12:00 p.m.

Merrill Hall and Chapel

#### Plenary Session 2: Dangerous Liaisons: Fungal Pathogens in Host Interactions

*Session Chairs:* Robert Cramer, Geisel School of Medicine at Dartmouth, United States; and Eva Stukenbrock, Max Planck Institute of Evolutionary Biology, Germany

9:00 a.m. GSA Journals Update **Lauren McIntyre** Florida State University

**62** 9:10 a.m. Life in the Burrow: Vertebrate Hosts and the Maintenance of Coccidioides in Desert Ecosystems **Bridget Barker** Northern Arizona University

**63** 9:40 a.m. Deciphering the effector code of a gall-inducing fungus **Armin Djamei** University of Bonn

**64** 10:10 a.m. Dissecting Wheat Tandem Kinase-Mediated Immunity Using a Rice Blast Model **Yi-Chang Sung** University of California Davis

10:40 a.m. Coffee break

11:10 a.m. Spore Lecture Introduction **Jay Dunlap** Geisel School of Medicine at Dartmouth

**65** 11:20 a.m. The Spore Factory: Evolutionary experiments in the Anthropocene **Matthew Fisher** Imperial College London

## Thursday, March 19, 2026

12:30 p.m. – 1:45 p.m.

Chapel

### Navigating the National Science Foundation and the Directorate of Biological Sciences

Organizer: Sara Branco, University of Colorado

## Concurrent and Workshop Session Listings

## Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Scripps

### Cell Wall Synthesis and Remodeling

*Session Chairs:* Jennifer Lodge, Duke University, United States; and Frederico Lopez, Universidad de Alicante, Spain

**66** 3:00 p.m. Deletion of septin AspB unlocks caspofungin fungicidal potential in the human pathogen *Aspergillus fumigatus* **Jose Vargas-Muniz** Virginia Tech

**67** 3:20 p.m. Mitochondrial Drug-Binding Strategy Underlies Caspofungin Resistance in *Cryptococcus neoformans* **Anna Lokszejn** Duke University School of Medicine

**68** 3:40 p.m. Architecture of Fungal Cell Wall and Remodeling by Antifungals: New Insight from Solid-State NMR Spectroscopy **Tuo Wang** Michigan State University

**69** 4:00 p.m. A Coordinated Breakdown of Cell Wall Homeostasis Underlies the Antifungal Action of Chitosan **Federico Lopez-Moya** University of Alicante

4:20 p.m. Coffee break

**70** 4:40 p.m. Pmk1-dependent regulation of a Mst12-Bip1 transcriptional network governing pathogenesis by the rice blast fungus, *Magnaporthe oryzae* **Camilla Molinari** The Sainsbury Laboratory

**71** 5:00 p.m. Deciphering the Role of Carbohydrate-Active Enzymes in the Pathogenicity and cell degradation of *Fusarium oxysporum* Infecting Banana Plant **Mst Shamim Ara Supty** Georgia Southern University

**72** 5:20 p.m. Elucidation of basidiomycete-specific chitin synthase roles in the white-rot fungus *Pleurotus ostreatus* **Kim Schiphof** Kyoto University

**73** 5:40 p.m. Invading in full force: substantial pressure from Botrytis cinerea infection cushions breaches plant surfaces **Frank Pieterse** Wageningen University & Research

## Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Chapel

### Fungal Strain Heterogeneity & Pangenomes

*Session Chairs:* Daniel Croll, University of Neuchatel, Switzerland; and Aleeza Gerstein, University of Manitoba, Canada

**74** 3:00 p.m. The role of mutation rate and drug stress in the evolution of antifungal resistance

within *Aspergillus fumigatus* **Michael**

**Bottery** University of Manchester

**75** 3:20 p.m. A genomic view of hypermutation potential in *Candida auris* drug resistance **David**

**Firer** Brown University

**76** 3:40 p.m. A new reference graph-pangenome for *Aspergillus fumigatus* recovers gene expression of accessory genes absent from the reference strain **Marion Perrier** Friedrich Schiller University Jena

**77** 4:00 p.m. *Candida albicans* genetic parallelism in recurrent vulvovaginal candidiasis **Aleeza**

**Gerstein** University of Manitoba

4:20 p.m. Coffee break

**78** 4:40 p.m. Global analysis of genotypic and phenotypic variation in an NIH collection of 160 *Candida albicans* patient-derived isolates with paired clinical metadata **Jessie MacAlpine** National Institutes of Health

**79** 5:00 p.m. Evolution of invasive *Phytophthora ramorum* populations in Oregon's coastal forests **Steph Chase** Oregon State University

**80** 5:20 p.m. Stage-specific transposase activation as mechanism of genetic variation in the clonally propagating pathogen *Fusarium oxysporum* **Ana Rodriguez Lopez** University of Córdoba

**81** 5:40 p.m. Tracking plant pathogen emergence using thousand-genome panels **Daniel Croll** University of Neuchatel

## Concurrent and Workshop Session Listings

## Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Fred Farr Forum

### Fungi and their Interactions with Animals and Microbes

*Session Chairs:* Stephen Dolan, Clemson University, United States; and Alisha Quandt, University of Colorado Boulder, United States

**82** 3:00 p.m. Illuminating *in vivo* macrophage-*A. fumigatus* interactions across multiple days of infection **Emily Rosowski** Clemson University

**83** 3:20 p.m. Machine learning identifies novel hallmarks of symbiotic evolution in *Burkholderia*-related bacterial endosymbionts of Mucoromycota fungi **Jessie Uehling** Oregon State University

**84** 3:40 p.m. Signal Reliability and Nutritional Rewards Drive Divergent Evolutionary Trajectories in Nematode-Trapping Fungus *Arthrobotrys oligospora* **Hung-Che Lin** Max Planck Institute for Biology Tübingen

**85** 4:00 p.m. Mycangial ultrastructure, temporal transcriptomics of fungal colonization, and engineering of the fungal symbiont community in *Xyleborus affinis* ambrosia beetles **Ross Joseph** University of Illinois Chicago

4:20 p.m. Coffee break

**86** 4:40 p.m. Environmental impacts on gene expression in the amphibian gut fungus *Basidiobolus* **Kimberly Syring** Oregon State University

**87** 5:00 p.m. Understanding *Basidiobolus*-bacterial interactions using multi-replicated enrichment communities **Joseph Spatafora** Oregon State University

**88** 5:20 p.m. Understanding Diversity of Endohyphal Bacteria in Clinical Mucorales Isolates **Jack Gregory** University of Exeter

**89** 5:40 p.m. Analyzing differences in codon usage patterns in *Rhizopus microsporus*, its bacterial endosymbiont *Mycetohabitans* sp., and the novel prophages residing in the bacterial genome **Caroline West** University of North Carolina Charlotte

## Concurrent and Workshop Session Listings

### Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Kiln

#### Genomic Technologies

*Session Chairs:* Rhys Farrer, University of Exeter, United Kingdom; and Melania Figueroa, CSIRO, Australia

**90** 3:00 p.m. Linker histone H1.52 governs facultative heterochromatin and metabolic adaptation in *Cryptococcus neoformans* **Grace Paul** Medical Research Council Centre for Medical Mycology

**91** 3:20 p.m. Beyond a reference genome: how cereal rusts pangenomes are changing our research approaches **Melania Figueroa** CSIRO

**92** 3:40 p.m. Distribution of haploid chromosomes into separate nuclei in two pathogenic fungi **Jinyi Tan** University of British Columbia

**93** 4:00 p.m. Computational tools for chromosome conformation capture **Geoffrey Fudenberg** University of Southern California

4:20 p.m. Coffee break

**94** 4:40 p.m. A CRISPR activation platform to identify genes involved in trisomy-associated antifungal drug resistance in *Candida albicans* **Rebecca Shapiro** University of Guelph

**95** 5:00 p.m. FLASH, a new statistical machine learning algorithm, can accurately predict and link novel genes to antifungal resistance in diverse clinical and environmental fungi **Marie-Claire Harrison** Stanford University

**96** 5:20 p.m. Development of a synthetic biology toolkit for heterologous gene expression in the oyster mushroom, *Pleurotus ostreatus* **Panward Prasongpholchai** University of Warwick

**97** 5:40 p.m. Facultative heterochromatin mediated by core and accessory chromosome-encoded H3K27-specific methyltransferases controls virulence in a fungal phytopathogen **Slavica Janevska** Leibniz-HKI

### Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Merrill Hall

#### Host Pathogen Interactions

*Session Chairs:* Gert Bange, University of Marburg, Germany; and Teresa O'Meara, University of Michigan, United States

**98** 3:00 p.m. Towards a mechanistic understanding of novel defense proteins from maize against *U. maydis* **Gert Bange** SYNMIKRO

**99** 3:20 p.m. Cross-kingdom Interaction with *Candida albicans* Promotes Gut Colonization and Pathogenesis of *Salmonella* Typhimurium **Judith Behnsen** University of Illinois Chicago

**100** 3:40 p.m. Uncovering cell-specific responses of barley during *Magnaporthe oryzae* infection **Louisa Wirtz** RWTH Aachen University

**101** 4:00 p.m. Epigenetic rewiring of the low-oxygen response by an Inhibitor of Growth (ING) family Protein drives *Aspergillus fumigatus* disease progression **Sandeep Vellanki** Geisel School of Medicine at Dartmouth

4:20 p.m. Coffee break

**102** 4:40 p.m. How fungi exploit host defense activity for pathogenic development: Insights from a new peptide-GPCR system **Florian Altegoer** Heinrich-Heine University

**103** 5:00 p.m. Trehalose biosynthesis pathway-mediated thermotolerance via tight regulation of glycolytic flux **Erica Washington** Duke University

**104** 5:20 p.m. Training a pathogen: Uncovering the molecular strategies of host adaptation in a human fungal pathogen **Zoe Hilbert** Boston College

**105** 5:40 p.m. Dissecting turgor-sensing mechanisms required for appressorium-mediated plant infection by the rice blast fungus *Magnaporthe oryzae* **Lauren Ryder** The Sainsbury Laboratory

## Concurrent and Workshop Session Listings

### Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Heather

#### Sensing and Signaling

*Session Chairs:* David Canovas, University of Sevilla, Spain; and Frank Menke, The Sainsbury laboratory, United Kingdom

**106** 3:00 p.m. Light-dependent regulation of development by the velvet complex in *Neurospora crassa* **David Canovas** University of Sevilla

**107** 3:20 p.m. A co-evolved peptide-GPCR system senses host entry to drive fungal infection **Cesar Gabriel Mendoza Rojas** Heinrich Heine University of Düsseldorf

**108** 3:40 p.m. TORC1 integrates multiple environmental cues to regulate appressoria formation in the rice blast fungus **Nathaniel Jakobov** University of Geneva

**109** 4:00 p.m. From spore to attack mode: what molecular switches trigger appressorium development in *Magnaporthe oryzae*? **Miriam Osés Ruiz** Public University of Navarre (UPNA)

4:20 p.m. Coffee break

**110** 4:40 p.m. Phosphoproteomic analysis of appressorium development identifies Vts1, a novel RNA-binding protein required for pathogenicity in the blast fungus *Magnaporthe oryzae* **Frank Menke** The Sainsbury Laboratory

**111** 5:00 p.m. Capture of the SmSTRIPAK proteome identifies the Greenbeard proteins SmDOC1/2 as regulators of sexual development in *Sordaria macrospora* **Stefanie Poeggeler** Georg-August University of Göttingen

**112** 5:20 p.m. Bridging Continuum Mechanics and Fungal Biology to Enable Mycelium-Based Biosensing Technologies **Meredith Silberstein** Cornell University

**113** 5:40 p.m. RNA isoforms and structure rapidly respond to temperature changes in *Histoplasma* **Murat Can Kalem** University of California, San Francisco

### Thursday, March 19, 2026

3:00 p.m. – 6:00 p.m.

Nautilus

#### Sexual and Asexual Development

*Session Chairs:* Sven Krappmann, University Hospital Erlangen, Germany; and Brenda Wingfield, University of Pretoria, South Africa

**114** 3:00 p.m. The (mis)use of sex categories in fungi **Anne Pringle** University of Wisconsin-Madison

**115** 3:20 p.m. The complex evolution and genomic dynamics of mating-type loci in *Cryptococcus* and *Kwoniella* **Marco Dias Coelho** Duke University Medical Center

**116** 3:40 p.m. Unidirectional mating-type switching as a programmed genome-editing system in filamentous fungi **Markus Wilken** University of Pretoria

**117** 4:00 p.m. Adding pieces to the puzzle of *Aspergillus fumigatus* sexuality **Sven Krappmann** University Hospital Erlangen

4:20 p.m. Coffee break

**118** 4:40 p.m. Signs of ongoing reproductive incompatibility in *Aspergillus fumigatus* **Ben Auxier** Wageningen University

**119** 5:00 p.m. *Malassezia* parasexual hybridization, yeast-to-hyphae transition, and pathogenesis **Giuseppe Ianiri** University of Molise

**120** 5:20 p.m. Genetic variation in health and aging in spores isolated from *Schizosaccharomyces pombe* **Nicole Nuckolls** Stowers Institute for Medical Research

**121** 5:40 p.m. A Bitter Tug-of-War: Exploiting fungal sexual reproduction for better blue cheese **Jonathan Heale** University of Nottingham

## Concurrent and Workshop Session Listings

### Friday, March 20, 2026

8:55 a.m. – 12:00 p.m.

Merrill Hall and Chapel

#### **Plenary Session 3: Fungal Evolution, Genomics, and Cellular Adaptations**

*Session Chairs:* Amelia Barber, Universitat Jena, Germany; and David Hibbett, Clark University, United States

8:55 a.m. Fungal Policy Committee Election **Xiaorong Lin** University of Georgia

**122** 9:00 a.m. Evolution of complex life cycles in Pucciniales **M. Catherine Aime** Purdue University

**123** 9:30 a.m. Hidden in plain air: mapping airborne fungal resistance through citizen science **Eveline Snelders** Wageningen University

**124** 10:00 a.m. Disentangling the evolutionary history of yeasts near its geographical origin **Isheng Jason Tsai** Academia Sinica

10:30 a.m. Coffee break

**125** 11:00 a.m. *Starship* transposons and the makings of a new framework to study fungal evolution **Emile Gluck-Thaler** University of Wisconsin-Madison

**126** 11:30 a.m. The shattered genome of *Basidiobolus*: a fungus from the gut of reptiles and amphibians **Lluvia Vargas Gastélum** Oregon State University

### Friday, March 20, 2026

12:30 p.m. – 1:45 p.m.

Merrill Hall

#### **Neurospora Business Meeting**

12:30 p.m. – 1:45 p.m.

Chapel

#### **JGI\_EMSL Workshop -Toward 10,000 Fungal Genomes and Phenotypes**

Organizer: Igor Grigoriev, US DEO Joint Genome Institute

## Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Nautilus

### Mycotechnology

*Session Chairs:* Gloria Muzzi-Erichsen, 21st Bio, United States; and Jacob Steenwyk, University of California, Berkeley and HHMI, United States

**127** 3:00 p.m. Harnessing Filamentous Fungi for Biomanufacturing of Animal-Free Milk Proteins **Lucy Sullivan** 21st.Bio

**128** 3:20 p.m. Production of hen egg ovalbumin by *Trichoderma reesei* using precision fermentation technology and testing of its techno-functional properties **Chris Landowski** Onego Bio

**129** 3:40 p.m. The impact of developmental structures on pure mycelial materials made from *Aspergillus nidulans* **Mark Marten** University of Maryland, Baltimore County

**130** 4:00 p.m. A fungal community driven development of the oCelloScope™ image analysis platform to quantify growth using deep learning in Medical-, Crop Sci-, Food research and Strain Development **Soren Busch** BioSense Solutions

4:20 p.m. Coffee break

**131** 4:40 p.m. Building the Future of Roads: Biotechnological optimization of mycelium-based binder **Line Kloster Pedersen** Visibuilt

**132** 5:00 p.m. Deciphering the chemical language of the fungal-microbiome interactions using computational omics **Marnix Medema** Wageningen University

**133** 5:20 p.m. A high(er) throughput method for using CRISPR/Cas9 to delete genes from *Coccidioides posadasii* **Katrina Jackson** Northern Arizona University

**134** 5:40 p.m. Empowering Fungal Research: Cultivarium tools to accelerate study and engineering of non-model fungi **Nili Ostrov** Cultivarium

## Concurrent and Workshop Session Listings

## Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Fred Farr Forum

### Clocks and Light Sensing

*Session Chairs:* Christina Kelliher, University of Massachusetts Boston, United States; and Zhenzhong Yu Nanjing, Agricultural University, Peoples Republic of China

**135** 3:00 p.m. Light regulates alternative splicing and cell wall remodeling in *Trichoderma guizhouense* **Zhenzhong Yu** Nanjing Agricultural University

**136** 3:20 p.m. A Guardian of the Cell: How Cryptochrome Balances Stress Responses in *A. nidulans* **Alexander Landmark** KIT Institute of Applied Biosciences

**137** 3:40 p.m. Evaluation of a candidate MAT locus for *Linnemannia elongata* (Mortierellomycotina) using quantitative PCR methods **Kyle Mondron** Oregon State University

**138** 4:00 p.m. DNA damage tolerant colonies of a fungal plant pathogen acquire mutator phenotype **Shay Covo** Hebrew University

4:20 p.m. Coffee break

**139** 4:40 p.m. Circadian clock control of translation fidelity in *Neurospora crassa* **Griffin Best** Texas A&M University

**140** 5:00 p.m. Circadian clock is critical for regulating pathogenicity in *Fusarium oxysporum* **Xiao Liu** Institute of Microbiology, Chinese Academy of Sciences

**141** 5:20 p.m. Evidence that *Entomophthora muscae* controls the timing of host death via its own circadian clock **Leslie Torres Ulloa** Harvard University

**142** 5:40 p.m. Illuminating transcriptional dynamics underlying circadian clock regulation and photoentrainment. **Luis F. Larrondo** Pontificia Universidad Catolica de Chile

## Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Chapel

### Effectors and Defense Mechanisms

*Session Chairs:* Gustavo Goldman, Universidade de São Paulo, Brazil; and Suzanne Noble, University of California, San Francisco, United States

**143** 3:00 p.m. *Aspergillus fumigatus* conidial surface-associated proteome reveals factors for fungal evasion and host immunity modulation **Gustavo Goldman** Universidade de Sao Paulo

**144** 3:20 p.m. The immune system of the mushroom *Schizophyllum commune*: identification of transcriptional regulators and effectors **Erik Beijen** Utrecht University

**145** 3:40 p.m. Genetic dissection of the chemical defense of ink cap mushroom *Coprinopsis cinerea* against fungivorous nematodes **Shurui Mai** ETH Zurich

**146** 4:00 p.m. Phytoalexins as host cues: convergent evolution of detoxification mechanisms in polyxenous pathogens *Botrytis cinerea* and *Colletotrichum tropicale* **Akira Ashida** Nagoya University

4:20 p.m. Coffee break

**147** 4:40 p.m. The emerging fungal pathogen *Candida auris* induces IFN $\gamma$  to colonize mammalian hair follicles **Suzanne Noble** University of California, San Francisco

**148** 5:00 p.m. Identification and functional validation of avirulence effectors in wheat rusts **Camilla Langlands-Perry** CSIRO

**149** 5:20 p.m. Identification and characterization of *Cercospora beticola* effector candidates associated with adaptation to the sugarbeet resistance gene *BvCr4* **Nathan Wyatt** USDA-Agricultural Research Service

**150** 5:40 p.m. Spp1-mediated processing of substrate proteins promotes plant defence suppression and virulence of fungal biotrophs **Nora Marie Kühne** University of Goettingen

## Concurrent and Workshop Session Listings

## Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Merrill Hall

### Fungal Genome Evolution

*Session Chairs:* Christina Cuomo, Brown University, United States; and Aaron Vogan, Uppsala University, Sweden

**151** 3:00 p.m. Investigating genetic and environmental factors driving *Starship*-mediated gene transfer in fungi **Anna Mirandola** Uppsala University

**152** 3:20 p.m. Comparative genomics using long-read sequencing of clinical *Candida auris* isolates reveals transmission dynamics and drug resistance mechanisms **Sinem Beyhan** J. Craig Venter Institute

**153** 3:40 p.m. Selfish genetic element promotes mitotic stability of a dispensable chromosome in the fungal pathogen *Fusarium oxysporum* **Gema Puebla Planas** University of Cordoba

**154** 4:00 p.m. Phyletic Patterns of c-NHEJ Genes Are Reflected in Genomic Signatures in Fungal Genomes **Einat Hazkani-Covo** The Open University of Israel.

4:20 p.m. Coffee break

**155** 4:40 p.m. Dissecting the fitness effects of copy number variants using CRISPR-activation across diverse strains and environments **Petra Vande Zande** University of Minnesota

**156** 5:00 p.m. Chromosomal translocation of a horizontally-acquired gene cluster and virus-like elements in a cosmopolitan yeast **Jassim Al-Oboudi** University of Wisconsin-Madison

**157** 5:20 p.m. Comparative genomics of plant associated fungi to assess endophytic genome signatures **Joss Ety** University of Bath

**158** 5:40 p.m. Population-Specific Transcriptomic Rewiring Underlies Secondary Metabolic Diversification in *Aspergillus flavus* and the Domestication of *Aspergillus oryzae* **Milton Drott** USDA-Agricultural Research Service

## Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Scripps

### Genomic and Ecological Perspectives on Fungal Symbiosis across the Parasitism-mutualism Spectrum

*Session Chairs:* Francismar Marcelino-Guimarães, Brazilian Agricultural Research Corporation, Brazil; and Lotus Lofgren, Duke University, United States

**159** 3:00 p.m. Hi-C and HiFi Sequencing Unveils Genome Compartmentalization and RNA Operon Physical Interactions in *Gigaspora margarita* **Nicolas Corradi** University of Ottawa

**160** 3:20 p.m. Integrative structural genomics of the secretome in a plant pathogenic fungus provides insights into effector evolution and functional diversification **Eva Stukenbrock** Kiel University

**161** 3:40 p.m. Host Association and Secondary Metabolism in a Widespread Amphibian Gut Symbiont **Javier Tabima** Clark University

**162** 4:00 p.m. Transcriptomic variation explains *Suillus tomentosus* zinc tolerance in the absence of population structure **Jessica Fletcher** University of Colorado Denver

4:20 p.m. Coffee break

**163** 4:40 p.m. Genomic, transcriptomic and molecular study of lichenization in the model lichen *Xanthoria parietina* **Camille Puginier** The Sainsbury Laboratory

**164** 5:00 p.m. Host-specific isocyanide natural product diversification in the pathogenic mold *Fusarium sporotrichioides* **Livia Oster** University of Minnesota Twin Cities

**165** 5:20 p.m. The core and accessory gene repertoire of rust fungi (pucciniales): Genomic insights into their adaptive evolution **Francismar Marcelino-Guimarães** Brazilian Agricultural Research Corporation - Embrapa Soybean

**166** 5:40 p.m. Among Us: Cheaters and transposons drive adaptations in experimental evolution of *Botrytis cinerea* **Suraj Hassan Muralidhar** Wageningen University and Research

## Concurrent and Workshop Session Listings

## Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Kiln

### The Plasticity of Fungal Genome Organization

*Session Chairs:* Henrik De Fine Licht, University of Copenhagen, Denmark; and Michael Habig, University Kiel, Germany

**167** 3:00 p.m. *Starship* transposons mediate horizontal gene transfer between fungi **Andrew Urquhart** The University of Melbourne

**168** 3:20 p.m. Starship-mediated horizontal transfer of transposable elements across fungi **Hanne Griem-Krey** Kiel University

**169** 3:40 p.m. Experimental evolution reveals new mechanism of niche adaptation in *Fusarium oxysporum* **Cristina López-Díaz** University of Cordoba

**170** 4:00 p.m. Evolution of supernumerary chromosomes in blast fungal pathogens **Sanzhen Liu** Kansas State University

4:20 p.m. Coffee break

**171** 4:40 p.m. Transposable elements drive evolution and alternative virulence strategies in *Colletotrichum lupini* **Andrea Menicucci** University of Bologna

**172** 5:00 p.m. Roles of aneuploidy in *Aspergillus fumigatus* unstable adaptation and antifungal resistance **Anna Lehmann** Duke University School of Medicine

**173** 5:20 p.m. Beyond the lab: The variable landscape of genomic instability in yeast isolates **María Angélica Bravo Núñez** Cornell University

**174** 5:40 p.m. The genetics of speciation in *Saccharomyces* **Jasmine Ono** University of Nottingham

## Concurrent and Workshop Session Listings

### Friday, March 20, 2026

3:00 p.m. – 6:00 p.m.

Heather

#### The Spatial Organization of Fungal Cells

*Session Chairs:* Johannes Freitag, University of Marburg, Germany; and Lillian Fritz-Laylin, University of Massachusetts, United States

**175** 3:00 p.m. Inducing novel endosymbioses in the filamentous fungus *Rhizopus microsporus* **Alannah Holderbusch** ETH Zurich

**176** 3:20 p.m. Polarized cell wall growth during exit tube assembly in the chytrid *Batrachomyces dendrobatidis* **Kirsten Underwood** University of Massachusetts Amherst

**177** 3:40 p.m. The dynein light chains differentially affect cargo movement in *Aspergillus nidulans* **Jenna Christensen** Northwestern University

**178** 4:00 p.m. Acyl-coA binding protein AcbdA regulates peroxisome movement via hitchhiking on early endosomes in *Aspergillus nidulans* **John Salogiannis** University of Vermont

4:20 p.m. Coffee break

**179** 4:40 p.m. A Bipartite Complex Coordinates Glucan Synthesis and Remodeling to Build the Fungal Cell Wall **Alaina Willet** Vanderbilt University

**180** 5:00 p.m. Regulation of cell polarity in a multibudding fungus **Luyang Wang** Massachusetts Institute of Technology

**181** 5:20 p.m. Peroxisomal targeting via organellar transit **Johannes Freitag** University of Marburg

**182** 5:40 p.m. The role of eisosomal proteins in pathogenesis of *Cryptococcus neoformans* **Lukasz Kozubowski** Clemson University

### Saturday, March 21, 2026

8:55 a.m. – 12:00 p.m.

Merrill Hall and Chapel

#### Plenary Session 4: Systems Biology and Ecological Interactions of Fungi

*Session Chairs:* Nina Gunde-Cimerman, University of Ljubljana, Slovenia; and Richard Hamelin, University of British Columbia, Canada

8:55 a.m. Fungal Genetics Policy Committee Election Results **Xiaorong Lin** University of Georgia

**183** 9:00 a.m. Evolution of form, function and cross-kingdom interactions in Pezizales **Gregory Bonito** Michigan State University

**184** 9:30 a.m. Trait tradeoffs drive survival of pyrophilous fungi after wildfires **Sydney Glassman** University of California, Riverside

**185** 10:00 a.m. Microbial symbioses and their role in fungal biology **Laila P. Partida-Martinez** Cinvestav Irapuato

10:30 a.m. Coffee break

**186** 11:00 a.m. What is the ecology of *Penicillium* species? Insights from Fleming, forests, and fromage **Benjamin Wolfe** Tufts University

**187** 11:30 a.m. Genome-scale model, *in vitro* experimentation, and stable cultures of algae, cyanobacteria, and fungi support a symbiotic exchange of amino acids for melanin **Erin Carr** University of Nebraska-Lincoln

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Kiln

### Bioengineering and Fungal Biology

*Session Chairs:* Debora Lyn Porter, University of California Merced, United States; and Claire Stanley, Imperial College London, United Kingdom

**188** 2:00 p.m. Microfluidic “Fungi-on-a-Chip” platforms for probing fungal interactions **Claire Stanley** Imperial College London

**189** 2:20 p.m. Unravelling the molecular mechanisms of bacterial–fungal endosymbiosis **Ingrid Richter** Unidad de Genómica Avanzada - CINVESTAV

**190** 2:40 p.m. Dissecting the root-fungal interface in 3D reveals spatially distinct signalling landscapes **Amey Redkar** National Centre for Biological Sciences (NCBS)

**191** 3:00 p.m. *Lichtheimia*: An emerging fungal pathogen in human mucormycosis – insights from lung-on-chip and invertebrate models **Kerstin Voigt** University of Jena

3:20 p.m. Coffee break

**192** 3:40 p.m. Fungal structure as inspiration for advanced engineering materials **Debora Lyn Porter** University of California Merced

**193** 4:00 p.m. Mycotechnology to the rescue: biosustainable Production of secondary metabolites by filamentous fungi using carbon sourced from polystyrene and polyethylene plastic waste **Clay Wang** University of Southern California

**194** 4:20 p.m. Toward a platform for space mycotecture **Rolando Perez** Blue Marble Space Institute of Science

**195** 4:40 p.m. Engineering filamentous fungi for waste-to-food conversion **Vayu Hill-Maini** Stanford University

## Concurrent and Workshop Session Listings

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Scripps

### Chromatin Biology and Epigenomics

*Session Chairs:* Andrew Klocko, University of Colorado Colorado Springs, United States; and Zachary Lewis, University of Georgia, United States

**196** 2:00 p.m. Stress-driven emergence of heritable non-genetic drug resistance **Jing Lin (Lucy) Xie** Stanford University

**197** 2:20 p.m. Epimutations driven by RNAi or heterochromatin evoke transient antimicrobial drug resistance in fungi **Yeeun Son** Duke University Medical Center

**198** 2:40 p.m. Death or disomy: perturbing spindle checkpoint kinases in the fungal pathogen *Cryptococcus neoformans* **Kevin Hardwick** University of Edinburgh

**199** 3:00 p.m. Functional dissection of the RNAi pathway in the oomycete *Phytophthora sojae* **Francis Fang** The Ohio State University

3:20 p.m. Coffee break

**200** 3:40 p.m. Paralogs of the *Candida albicans* TLO (telomere-associated) gene family form interconnected functional networks through incomplete redundancy **Emily Simonton** University of Wisconsin - Madison

**201** 4:00 p.m. Epigenetic regulation of *Starship* activity in *Pyricularia oryzae* **Aidan McVey** Kansas State University

**202** 4:20 p.m. ATRX/SAD-6 enables a versatile system for genome surveillance and defense in fungi **Eugene Gladyshev** Institut Pasteur

**203** 4:40 p.m. DNA adenine methylation as a key epigenetic switch in non-Dikarya fungi **Victoriano Garre** Universidad de Murcia

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Merrill Hall

### Emerging and Re-emerging Fungal Pathogens

*Session Chairs:* Matthew Fisher, Imperial College London, United Kingdom; and Ilan Schwartz, Duke University, United States

**204** 2:00 p.m. From Environmental Microbiomes to Human Health: Fungal Pathogen Ecology Across Scales **Amelia Barber** Friedrich Schiller University

**205** 2:20 p.m. Fitness effects of multi-fungicide resistances in *Aspergillus fumigatus* **Ben Auxier** Wageningen University

**206** 2:40 p.m. Genomics insights into the *Bipolaris gigantea* host range expansion from grasses to hemp **Flavia Rogério** University of Florida

**207** 3:00 p.m. Re-parameterising wheat stem rust (*Puccinia graminis* f. sp. *tritici*) epidemiological models to explore disease dynamics in a changing climate **Cesaree Morier-Gxoyiya** John Innes Centre

3:20 p.m. Coffee break

**208** 3:40 p.m. The last of cats: Zoonotic spillover, evolution, and the continental expansion of *Sporothrix brasiliensis* **Anderson Messias Rodrigues** Federal University of Sao Paulo

**209** 4:00 p.m. Human-mediated hybrid zones between amphibian-killing chytrid lineages produce second generation recombination **Thomas Jenkinson** California State University, East Bay

**210** 4:20 p.m. Contrasting environmental and clinical isolates of *Coccidioides*, the causative agent of Valley Fever **Lisa Couper** University of California, Berkeley

**211** 4:40 p.m. Reductive evolution in *Paracoccidioides lobogeorgii*, causing Jorge Lobo's disease **Marcus Teixeira** University of Brasilia

## Concurrent and Workshop Session Listings

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Fred Farr Forum

### Fungal Adaptation to Infection-relevant Traits

*Session Chairs:* Jiorgos Kourelis, Imperial College London, United Kingdom; and Damian Krysan, University of Iowa, United States

**212** 2:00 p.m. Environmental triggers, including immune responses, enhance morphotype formation and dissemination in a CD4+ T Cell-Deficient model of cryptococcosis **Jessica Brown** University of Utah

**213** 2:20 p.m. On the origins and evolution of the necrotrophic effector *ToxA* within giant Starship transposons **Megan McDonald** University of Birmingham

**214** 2:40 p.m. Pikobodies: What does it take to bioengineer NLR immune receptor-nanobody fusions **Jiorgos Kourelis** Imperial College London

**215** 3:00 p.m. Intracellular metabolism of the fungal pathogen *Histoplasma capsulatum* **Chad Rappleye** Ohio State University

3:20 p.m. Coffee break

**216** 3:40 p.m. Understanding how *Candida albicans*, a fungal species, is adapted for survival in the human gut microbiome **Manjari Shrivastava** University of California, San Francisco

**217** 4:00 p.m. Dissecting appressorium-mediated plant infection by FIB-SEM Volumetric EM and Cryogenic Electron Tomography **Juan Carlos De la Concepcion** ZMBP, University of Tübingen

**218** 4:20 p.m. IL-17 derepresses cytokine translation to induce immunity against candidiasis **Jianfeng Lin** The Lundquist Institute

**219** 4:40 p.m. Translational Control of *Cryptococcus neoformans*: Uncovering Mechanisms of Latency, Reactivation, and Pathogenesis in the Immunocompromised Host **Maia Mazzaferro** University at Buffalo

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Nautilus

### Life in the Water: Freshwater and Marine Fungi

*Session Chairs:* Ramon Alberto Batista Garcia, Universidad de Jaén, Mexico; and Huzefa Raja, University of North Carolina Greensboro, United States

**220** 2:00 p.m. Bioprospecting marine and freshwater fungi from Mexico **Mario Figueroa** National Autonomous University of Mexico

**221** 2:20 p.m. Benthic and beyond: Genomic, biogeographic, and experimental insights into the aquatic and terrestrial lifestyles of *Tetracladium* **Jennifer Anderson** Swedish University of Agricultural Sciences

**222** 2:40 p.m. Genomic and phenotypic comparison of terrestrial and aquatic *Rhodotorula* yeasts **Jason E. Stajich** University of California, Riverside

**223** 3:00 p.m. Extremely halotolerant black yeast *Hortaea werneckii* in the Arabian Gulf: Novel thermotolerant genotypes from one of the World's most extreme marine environments **Nina Gunde - Cimerman** University of Ljubljana, BF

3:20 p.m. Coffee break

**224** 3:40 p.m. Fungal diversity and their involvement in the decomposition of deep-sea submerged plants **Yuriko Nagano** Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

**225** 4:00 p.m. Genomic insights into the melanized fungus *Exophiala pacifica* ETNP2018 reveals adaptation to the open ocean **Xuefeng Peng** University of South Carolina

**226** 4:20 p.m. Actin-based cell crawling in chytrid zoospores illuminates potential mechanisms of ancestral fungal locomotion **Stephanie Brody** University of Massachusetts Amherst

**227** 4:40 p.m. Quantitative multi-omics reveal functional diversity and carbohydrate-active enzyme activity of marine fungi in the Eastern tropical South Pacific OMZ **Madeleine Thompson** University of South Carolina

## Concurrent and Workshop Session Listings

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Chapel

### RNA Biology in Fungi

*Session Chairs:* Alessia Buscaino, Quadram Institute, United Kingdom; and Baoye He, Texas A & M University, United States

**228** 2:00 p.m. Mechanisms of RNA interference in *Cryptococcus* **Elizabeth Bayne** University of Edinburgh

**229** 2:20 p.m. RNAi restriction of a novel mycovirus prevents viral induced alterations in transcription and virulence in a critical human fungal pathogen **Jun Huang** Duke University

**230** 2:40 p.m. Mitochondrial translation elongation speed controls OXPHOS biogenesis by coordinating the synthesis and folding of mitochondrially encoded proteins **Zhipeng Zhou** Huazhong Agricultural University

**231** 3:00 p.m. Extracellular vesicle-mediated RNA transfer across cell-wall barriers in plant-fungal pathogen communication **Baoye He** Texas A&M University

3:20 p.m. Coffee break

**232** 3:40 p.m. A long non-coding RNA mediates crosstalk between fungal thermal adaptation and azole drug response in *Aspergillus fumigatus* **Sourabh Dhingra** Clemson University

**233** 4:00 p.m. tRNA modification and codon usage underlie phytopathogen effector evolution and secretion **Nawaraj Dulal** University of Nebraska-Lincoln

**234** 4:20 p.m. The role of RNA interference in the human fungal pathogen *Candida albicans* **Alessia Buscaino** Quadram Institute

**235** 4:40 p.m. Fungi-wide explorations show unique paradigms found in sRNA processing and function **Nate Johnson** Universidad Mayor

## Saturday, March 21, 2026

2:00 p.m. – 5:00 p.m.

Heather

### Secondary Metabolites and Volatile Compounds in Fungal Communications

*Session Chairs:* Joan Bennett, Rutgers Univ, United States; and Linda Johnson, AgResearch Limited, New Zealand

**236** 2:00 p.m. Dissection of the epoxyanthitrem pathway in *Epichloë* sp. *LpTG-3* strain AR37 by CRISPR gene editing to deliver improved SDN-1 type endophytes for grasses **Linda Johnson** Bioeconomy Science Institute

**237** 2:20 p.m. Potential roles of volatile metabolite-mediated plant-fungal interactions in plant growth and health and custom-designed tools for investigating such interactions below ground **Seogchan Kang** Penn State

**238** 2:40 p.m. Gas-mediated plant-microbial interactions: impacts to plant germination and growth **Adriana Romero-Olivares** University of California, Riverside

**239** 3:00 p.m. Genome-wide association of Specialized metabolism in *Botrytis cinerea* **Jordan Dowell** Louisiana State University

3:20 p.m. Coffee break

**240** 3:40 p.m. MERCK complex and downstream regulatory genes operate development and secondary metabolism in *Aspergillus nidulans* **Pranay Agarwal** Maynooth University

**241** 4:00 p.m. A biosynthetic survey and a heterologous production platform for molecules from biocontrol fungi **Pablo Cruz-Morales** Technical University of Denmark

**242** 4:20 p.m. GATA-type regulator NsdD-mediated species-specific rewiring of gene regulatory networks in *Aspergillus* **Kap-Hoon Han** Woosuk University

**243** 4:40 p.m. Biosynthetic pathway of the volatile toxin 3-octanone in the oyster mushroom *Pleurotus ostreatus* **Yi-Yun Lee** Max Planck Institute for Biology Tübingen

## Concurrent and Workshop Session Listings

### Saturday, March 21, 2026

5:30 p.m. – 5:45 p.m.

Merrill Hall and Chapel

### GSA Student Poster Awards and Fungal26 Postdoc Poster Awards

Chair: **Li-Jun Ma**, University of Massachusetts Amherst

5:30 p.m. GSA Student Poster Awards

5:40 p.m. Fungal Meeting Postdoc Poster Awards Sponsored by *Fungal Biology and Biotechnology*

### Saturday, March 21, 2026

5:45 p.m. – 6:30 p.m.

Merrill Hall and Chapel

### Perkins/Metzenberg Lecture

5:45 p.m. Introduction, **Clay Wang** University of Southern California

5:50 p.m. Lecture **Nancy Keller** University of Wisconsin, Madison

Biochemistry and Metabolism .....	244 – 277
Biotechnology.....	278 – 317
Cell Biology .....	318 – 372
Developmental Biology .....	373 – 397
Evolutionary/Comparative Genomics.....	398 – 486
Functional Genomics .....	487 – 539
Fungal Diversity.....	540 – 560
Fungal Ecology.....	561 – 589
Gene Regulation.....	590 – 637
Initiatives in Education and Pedagogy.....	638
Pathogenic and Mutualistic Interactions.....	639 – 753
Population and Evolutionary Genetics.....	754 – 776
Synthetic Biology.....	777 – 793

## Biochemistry and Metabolism

---

**244A** The DEAD Box RNA Helicase PRD-1 Links Glucose Availability to Circadian Period and Nutritional Compensation in *Neurospora crassa* **Sharon Veron Akisa** University of Massachusetts Boston

**245A** Unravelling the biosynthetic pathway and bioactivity of pleurotin **Fabrizio Alberti** University of Warwick

**246A** Transition to an oxygen-limited phase in stirred-tank fermentation causes a transient increase in intracellular ROS and triggers respiratory rebalancing including an alternative oxidase-mediated bypass in *Aspergillus oryzae* **Soma Araki\*** Tohoku University

**247A** Circadian clock control of translation fidelity in *Neurospora crassa* **Griffin Best** Texas A&M University

**248A** Secreted family of proteins required for high levels of mycotoxin synthesis and corn disease **Daren Brown** USDA-ARS

**249A** Investigation of pathways that operate downstream of G proteins to regulate cellulase production in *Neurospora crassa* **May Campbell** University of California

**250A** Genome-wide association of Specialized metabolism in *Botrytis cinerea* **Jordan Dowell** Louisiana State University

**251A** Cryo-ET reveals the structural cell biology microsporidian parasites **Damian Ekiert** Johns Hopkins University

**252A** An *Aspergillus fumigatus* homeobox transcription factor provides resistance to copper stress and alters lipid metabolism through oxylipin signaling **Harrison Estes** University of Wisconsin-Madison

**253A** Ergot Alkaloid Biosynthesis in *Aspergillus asparensis* **Jessica Fuss** West Virginia University

**254A** Rhythmic interaction between ZUOTIN and ribosomes may promote daily rhythms in protein

folding and activity **Madhusree Gangopadhyay** Texas A&M University

**255A** Reconstructing the evolution of a widespread fungal isocyanide megasynthase using genomes of lichenized fungi **Grant Nickles** University of Wisconsin-Madison

**256B** Natural products from aquatic fungi as novel treatments for neurodegenerative disease. **Jordan Havert** High Point University

**257B** The High Cost of Assimilation: How Wood-Decaying Fungi Balance Transcriptional Investment Between Extracellular Deconstruction and Intracellular Metabolism **Idoia Jimenez** Institute of Multidisciplinary Research in Applied Biology, Public University of Navarre

**258B** A glucose-dependent defects in a CHV1-, sectorization-associated mutant of *Cryphonectria parasitica* **Yo-Han Ko** Jeonbuk National University

**259B** Biosynthetic pathway of the volatile toxin 3-octanone in the oyster mushroom *Pleurotus ostreatus* **Yi-Yun Lee** Max Planck Institute for Biology Tübingen

**260B** Translational Control of *Cryptococcus neoformans*: Uncovering Mechanisms of Latency, Reactivation, and Pathogenesis in the Immunocompromised Host **Maia Mazzaferro** University at Buffalo

**261B** Subcellular deep proteomics reveals extensive circadian clock regulation of the proteome, phosphoproteome, and translation fidelity in *Neurospora crassa* **Sidharth Mohan** Texas A&M University

**262B** Interplay between mitochondrial dysfunction and metabolic adaptation to non glucose carbon source in engineered yeast for improved biofuel production **Heungyun Moon** University of Wisconsin-Madison

**263B** Genetic variation in health and aging in spores isolated from *Schizosaccharomyces pombe* **Nicole Nuckolls** Stowers Institute for Medical Research

**264B** Fungal Foundries: Differential Nutrient Uptake Across the Fungal Kingdom **Jack Orebaugh** Oak Ridge National Lab

**265B** Global Proteomic and Phosphoproteomic Analysis Reveals Potential Calcineurin-Dependent Effectors in Cell Wall and Membrane Organization in *Aspergillus fumigatus* **Aron Osakina** University of Arkansas for Medical Sciences

**266B** Strain-specific redox balancing for *Aspergillus fumigatus* pathoadaptation and antifungal drug susceptibility **Katherine Quinn** Geisel School of Medicine, Dartmouth College

**267C** Delineation of the sterigmatocystin biosynthetic gene cluster in *Aspergillus nidulans* through functional analysis of *stcX* **Kiminori Shimizu** Tokyo University of Science

**268C** Automated discovery of stress-responsive natural products from anaerobic gut fungi in extreme environments **Rafael Solorzano** University of California, Santa Barbara

**269C** Investigating the biosynthetic capacity of *Trichoderma koningiopsis* to combat papaya dieback disease caused by *Erwinia mallotivora* **Kim Summers** University of Warwick

**270C** Structural insights into mechanisms of zinc scavenging by the *Candida albicans* zincophore 1 **Johanna Syrjanen** University of Helsinki

**271C** Genetic characterization of N-acetylglucosamine utilization in *Aspergillus nidulans* **Richard Todd** Kansas State University

**272C** Elucidating Cell Wall Architecture in Rhizopus and Mucor Species and Melanin Structure in Lichtheimia via Solid-State NMR Spectroscopy **Tuo Wang** Michigan State University

**273C** Trehalose biosynthesis pathway-mediated thermotolerance via tight regulation of glycolytic flux **Erica Washington** Duke University

**274C** Powdery Mildew Fungi Manipulate Plant Lipid Metabolism for their Growth & Reproduction **Mary Wildermuth** University of California Berkeley

**275C** Intentionally left blank

**276C** Large-scale transcriptomics reveal a kexin protease required for the formation of the multicellular host morphology of the fungal pathogen *Coccidioides* **Christina Homer** Oregon Health & Science University

**277C** Mitochondrial Drug-Binding Strategy Underlies Caspofungin Resistance in *Cryptococcus neoformans* **Anna Lokszejn** Duke University School of Medicine

### Biotechnology

**278A** Semi-automated high-throughput screening accelerates strain development in *Trichoderma reesei* **Norman Adlung** Technical Research Centre of Finland

**279A** Synthetic nuclease gene drives as a novel mode of plant pathogen biocontrol **Ben Auxier** Wageningen University

**280A** From lab to table: Harnessing fungi to convert globally abundant food and agricultural byproducts into sustainable food **Braydon Black** Stanford University

**281A** CrispR/Cas9 mediated co-editing strategy in genetically recalcitrant fungi **Lenny Bonadei** University of Geneva

**282A** Empowering Fungal Research: Cultivarium tools to accelerate study and engineering of non-model fungi **Nili Ostrov** Cultivarium

**283A** A fungal community driven development of the oCelloScope™ image analysis platform to quantify growth using deep learning in Medical-, Crop Sci-, Food research and Strain Development **Soren Busch** BioSense Solutions

**284A** OMICS analyses to disclose tolerance mechanisms to the antimicrobial SO<sub>2</sub> in the wine spoilage yeast *Saccharomyces ludwigii* **Bárbara Coelho** Institute for Bioengineering and Biosciences, Instituto Superior Técnico

**285A** Breaking Barriers in Fungal Engineering: Development of the Serine Recombinase-Assisted Genome Engineering (SAGE) Toolkit **Kyle Davis** Oak Ridge National Laboratory

**286A** Utilizing the FIND-IT technology to accelerate strain development across microbial species **Stephen Fuchs** Traitomic

**287A** Asymmetric mitonuclear interactions trigger transgressive inheritance and mitochondria-dependent heterosis in hybrids of the model

system *Pleurotus ostreatus* **Edurne Garde** Public University of Navarre

**288A** Genetic Engineering of *Trichoderma atroviride* for Functional Studies in the Rhizosphere **Jaqueline Gerhardt** Stanford

**289A** A Bitter Tug-of-War: Exploiting fungal sexual reproduction for better blue cheese **Jonathan Heale** University of Nottingham

**290A** The impact of developmental structures on pure mycelial materials made from *Aspergillus nidulans* **Mark Marten** University of Maryland, Baltimore County

**291B** Laboratory evolution of the all-rounder yeast *Metschnikowia pulcherrima* shows different mechanisms of adaptation depending on genotype and ploidy **Daniel Henk** University of Bath

**292B** Improved recombinant protein production and culture rheology in pure oxygen aeration fermentation using a hyphal dispersion strain of *Aspergillus oryzae* **Satoshi Ishibashi** Tohoku University

**293B** Transcriptomic Insights into Isomaltose-induced amylolytic enzyme production in *Aspergillus nidulans* **Da Min Jeong** Tohoku University

**294B** Quantification of Viable Fungal Spores Using a PMAx Dye-Based Viability-qPCR Assay **Junseong Kang** Texas A&M University

**295B** Building the Future of Roads: Biotechnological Optimization of Mycelium-Based Binder **Line Kloster Pedersen** Visibuilt

**296B** Functional analysis of Mbp1 in cell wall synthesis and mycelium material properties in *Pleurotus ostreatus* **Hayase Kojima** Kyoto University

**297B** Episomal maintenance of introduced plasmid with or without AMA1 sequence in the basidiomycete *Pleurotus ostreatus* **Daishiro Koshi** Kyoto University

**298B** Azole-resistant development in *Aspergillus fumigatus* and its related antifungal strategy with novel nano-salt particles used as the aerosolized disinfectant **Ling Lu** Nanjing Normal University

**299B** Genetic Modulation of Glycosylation Pathways Enhances Protein Stability and Activity in Filamentous Fungi **Yun Luo** IFF

**300B** Role of hydrophobins in gas entrainment/foaming during fungal fermentations **Lori Maggio-Hall** IFF

**301B** Harnessing the edible fungus *Neurospora intermedia* to convert waste into food **Alessandra Massa** Stanford University

**302B** A biosynthetic survey and a heterologous production platform for molecules from biocontrol fungi **Pablo Pablo Cruz-Morales** Technical University of Denmark

**303B** Fungal Biocomposites from Regolith Simulant and Whole or Lipid-Extracted Microalgae for Circular Resource Use in Space Habitats **Caleb Bedsole** Texas A&M University

**304C** Genetic library screening in filamentous fungal cells using a genome integration system restrictive for single variant expression **Jonathan Palmer** IFF

**305C** Toward a platform for space mycotecture **Rolando Perez** Blue Marble Space Institute of Science

**306C** Employing Machine Learning Methods to Explore Thermotolerance Genetics in Saccharomycotina Yeasts **Taylor Powell** University of North Carolina at Charlotte

**307C** Development of genetic transformation methods in anaerobic gut fungi **Hugh Purdy** University of California, Santa Barbara

**308C** Implementation of robotics and high-throughput imaging to capture growth rate data for *Neurospora crassa* cultured under different conditions. **Monique Quinn** University of California, Riverside

**309C** Construction of the *Aspergillus oryzae* strain producing high levels of kojic acid by CRISPR/Cas9-mediated multicopy gene integration **Sohta Sagara** Tohoku University

**310C** Less environmental bitterness: filamentous fungi as a valorisation route for coffee bean wet-processing effluents **Eszter Sas** Maynooth University

**311C** Elucidation of basidiomycete-specific chitin synthase roles in the white-rot fungus *Pleurotus ostreatus* **Kim Schiphof** Kyoto University

**312C** Bridging Continuum Mechanics and Fungal Biology to Enable Mycelium-Based Biosensing Technologies **Meredith Silberstein** Cornell University

**313C** The increase in cell volume and nuclear number of the koji-fungus *Aspergillus oryzae* contributes to its high enzyme productivity. **Norio Takeshita** University of Tsukuba

**314C** Discovery and Characterization of Novel Endogenous Protease Inhibitors from *Trichoderma reesei* for Enhanced Heterologous Protein Production **Mari Valkonen** VTT Technical Research Centre of Finland

**315C** Mycototechnology to the rescue: Biosustainable Production of secondary metabolites by filamentous fungi using carbon sourced from Polystyrene and Polyethylene Plastic Waste **Clay Wang** University of Southern California

**316C** CRISPR/Cas9-Mediated Multicopy Integration into 13 Chromosomal Loci Enables Hyperproduction of Xylanase in *Aspergillus oryzae* **Silai Zhang** Tohoku University

**317C** Production of hen egg ovalbumin by *Trichoderma reesei* using precision fermentation technology and testing of its techno-functional properties **Chris Landowski** Onego Bio

## Cell Biology

---

**318A** Novel Cysteine bZIP Transcription Factors and Their Role in the Oomycete *Phytophthora infestans* **Alicia Acevedo** University of California, Riverside

**319A** The role of atypical Thioredoxins in *Candida albicans* **Luiz Alberti** Stony Brook University

**320A** Metabolic crosstalk between the opportunistic pathogen *Candida albicans* and the gastrointestinal tumor microenvironment **Rosana Alves** Universidade do Minho

**321A** The RNA-binding protein Psc1 sequesters transcripts in biomolecular condensates to regulate

cryptococcal tolerance to CO<sub>2</sub> **Emma Blackburn** University of Georgia

**322A** Actin-based cell crawling in chytrid zoospores illuminates potential mechanisms of ancestral fungal locomotion **Stephanie Brody** University of Massachusetts Amherst

**323A** Exploring the interaction between the septin cytoskeleton and the cell wall integrity pathway MAPKs MpkA and MkkA in *Aspergillus fumigatus* **Rebecca Busch** Virginia Tech

**324A** Short-term experimental adaptation of *Fusarium oxysporum* f. sp. *mori* to respiratory inhibitors fungicides **Erisneida Campos Jiménez** Center for Scientific Research and Higher Education of Ensenada (CICESE)

**325A** Multilayered regulation of TORC1 signaling by Ait1, Gcn2, and SEAC/GATOR during nitrogen limitation and starvation **Andrew Capaldi** University of Arizona

**326A** Quantitative single-molecule FISH reveals differential subcellular localization of *flb* family mRNA in the filamentous fungus *Aspergillus niger* **Xiaoyi Chen** Utrecht University

**327A** Echinocandin Resistance: Mapping CWI-SIN Crosstalk in *Aspergillus nidulans* **Alexander Doan** UMBC

**328A** Crosstalk between nonsense-mediated decay (NMD) and Tor alters fluconazole susceptibility of *Cryptococcus neoformans* **Sean Duffy** SUNY at Buffalo

**329A** Characterization of *Histoplasma* micro- and macroconidia reveals key distinguishing features **Bevin English** University of California San Francisco

**330A** How a shapeshifting fungus builds hyphal networks: hyphal initiation and growth in polymorphic fungus *Aureobasidium pullulans* **Clara Fikry** Massachusetts Institute of Technology

**331A** Characterization of the galactosaminogalactan pathway genes in *Neurospora crassa* **Stephen Free** SUNY University at Buffalo

**332A** Peroxisomal targeting via organellar transit **Johannes Freitag** University of Marburg

**333A** How fungal antigen subcellular localization affects translation and antigen processing in macrophages **Madeline Giner** University of Georgia

**334A** Trk1 potassium transport is crucial for effective *Candida (Candidozyma) auris* pathogenesis **Adam Glawe** University of Wisconsin - Madison

**335A** Mutants escaping from growth inhibition between colonies of the same strain in filamentous fungi **Yuya Hamanaka** The University of Tokyo

**336B** Death or disomy: perturbing spindle checkpoint kinases in the fungal pathogen *Cryptococcus neoformans* **Kevin Hardwick** University of Edinburgh

**337B** Expanding experimental tractability across the *Schizosaccharomyces* clade of fission yeast **Rachel Helston** Stowers Institute for Medical Research

**338B** A novel beta-propeller protein in *Aspergillus nidulans* required for microtubule stability **Steven James** Gettysburg College

**339B** Lipid homeostasis in antifungal resistance of *Cryptococcus neoformans* **Shoily Khondker** Public Health Research Institute, New Jersey Medical School, Rutgers University

**340B** The role of eisosomal proteins in pathogenesis of *Cryptococcus neoformans* **Lukasz Kozubowski** Clemson University

**341B** DIA-PASEF Proteomic Profiling Reveals MpkA-Dependent Iron Stress Responses and Metabolic Reprogramming that Influence Siderophore Biosynthesis in *Aspergillus nidulans* **JungHun Lee** University of Maryland Baltimore County

**342B** Dynamic localization of the septin Cdc3 in the predator yeast *Saccharomycopsis schoenii* **Justin Leonhardt** Clemson University

**343B** Septins and cytokinesis in the polymorphic fungus *Aureobasidium pullulans* **Daniel Lew** MIT

**344B** Cryptococcal mRNA vaccine development based on GPI-anchored mannoproteins **Yeqi Li** University of Georgia

**345B** Circadian clock is critical for regulating pathogenicity in *Fusarium oxysporum* **Xiao Liu** Institute of Microbiology, Chinese Academy of Sciences

- 346B** Quantification of *Aspergillus nidulans* Actin Dynamics during Early Growth and Septum Formation **Mark Marten** UMBC
- 347B** FluG confers conidial heterogeneity in *Aspergillus fumigatus* **Ken Miyazawa** National Institute of Infectious Diseases
- 348B** The *Aspergillus fumigatus* growth determinant Afu6g07200 is the first granulin described in fungi **Uxue Perez Cuesta** University of Tennessee Health Science Center
- 349B** The general repressor Ssn6 suppresses biofilm formation in *C. neoformans* **Nhu Pham** University of Georgia
- 350B** Antifungal resistance: formation of heterochromatin-dependent epimutations in fission yeast **Alison Pidoux** University of Edinburgh
- 351B** Spatial coordination of growth and division in *Ashbya gossypii* **Taylor Pompan** Duke University
- 352B** Small but mighty: Defining the *Cryptococcus neoformans* titanide morphotype as a driver of fungal pathogenesis **Abigail Potton** University of Exeter
- 353B** Anaerobic Gut Fungi Produce Extracellular Vesicle-Like Particles **Artury Ramirez** University of California Santa Barbara
- 354B** Characterization of two *Neurospora crassa* GH72 family enzymes and their roles in cell wall biogenesis **Stephen Free** SUNY University at Buffalo
- 355C** Dissecting turgor-sensing mechanisms required for appressorium-mediated plant infection by the rice blast fungus *Magnaporthe oryzae* **Lauren Ryder** The Sainsbury Laboratory
- 356C** New tools to tweak the appressorial MoTOR **Yvonne Scamarcia** University of Geneva
- 357C** Characterization of the Structure and Function of the Septal Pore Apparatus in *Coprinopsis cinerea* **Blanka Sokolowska** ETH Zürich
- 358C** A novel functional cell biology platform for the fungal symbiont domesticated by leafcutter ants **Ayoub Stelate** University of Copenhagen
- 359C** Unisexual reproduction in the global human fungal pathogen *Cryptococcus neoformans* **Sheng Sun** Duke University Medical Center
- 360C** Investigating the role of the Nuclear Dbf2-related (NDR) kinase Cot1 in polarized growth and infection-related development in the blast fungus *Magnaporthe oryzae* **Rachel Taylor** University of Arkansas
- 361C** Identification of *Aspergillus fumigatus* Septation Effectors through Proximity-labeling with TurboID **Harrison Thorn** University of Tennessee Health Science Center
- 362C** Polarized cell wall growth during exit tube assembly in the chytrid *Batrachomyces dendrobatidis* **Kirsten Underwood** University of Massachusetts Amherst
- 363C** The RNA virome of *Saccharomyces cerevisiae* **Robert Valencia** University of Toronto
- 364C** The role of beta 1,6-glucans in *Cryptococcus neoformans* cell wall organization **Joseph Vasselli** Duke University
- 365C** Regulation of cell polarity in a multibudding fungus **Luyang Wang** Massachusetts Institute of Technology
- 366C** Architecture of Fungal Cell Wall and Remodeling by Antifungals: New Insight from Solid-State NMR Spectroscopy **Tuo Wang** Michigan State University
- 367C** A Bipartite Complex Coordinates Glucan Synthesis and Remodeling to Build the Fungal Cell Wall **Alaina Willet** Vanderbilt University
- 368C** Stress-driven emergence of heritable non-genetic drug resistance **Jing Lin (Lucy) Xie** Stanford University
- 369C** Heterologous expression of *Bipolaris maydis* hydrophobins in *Aspergillus nidulans* and characterization of major hydrophobins in *Aspergillus oryzae* **Akira Yoshimi** Graduate School of Global Environmental Studies, Kyoto University
- 370C** Cell cycle control in the unconventional multi-budding yeast *Aureobasidium pullulans* **Yiqiao Zheng** Massachusetts Institute of Technology
- 371C** Acyl-coA binding protein AcbdA regulates peroxisome movement via hitchhiking on early

endosomes in *Aspergillus nidulans* **John Salogiannis** University of Vermont

**372C** Intra-conidial Development Stages Together with Sir5-Mediated Metabolic Checkpoint Shape UV Response Outcomes **Shay Covo** Hebrew University

## Developmental Biology

**373A** The conserved C-terminus of the non-receptor GEF RIC8 is important for GDP-GTP exchange on Ga subunits *in vitro* and regulation of growth and development *in vivo* **Katherine Borkovich** University of California

**374A** Comprehensive Role of the MylA in Fungal Development, Stress Response, and Toxicity in *Aspergillus flavus* **He-Jin Cho** Kyungpook National University

**375A** The GTP exchange factor Ric8 controls alternative morphogenetic fates in pathogenic *Cryptococcus* **Yeseul Choi** Duke University

**376A** Transcriptional regulation during vegetative reproduction in the Mucorale fungus *Phycomyces blakesleeana* **María Corrochano-Luque** University of Sevilla

**377A** Conservation of the regulatory pathway for conidiophore development across species of the *Aspergillus* genus **Antonio Franco-Cano** University of Sevilla

**378A** Autophagy in the filamentous fungus *Sordaria macrospora*: The roles of SmATG11 and SmATG17 in selective and non-selective degradation **Svenja Groth** University of Goettingen

**379A** From dormancy to disease: a life cycle proteome atlas of *Cryptococcus neoformans* **Benjamin Chadwick** University of Macau

**380A** Quantitative imaging of fungal life cycle transitions through generative deep learning **Orlando Arguello-Miranda** North Carolina State University

**381A** Phosphoproteomic analysis of the Target of Rapamycin (TOR) signalling pathway in the rice blast fungus *Magnaporthe oryzae* **Matthew Wengler** The Sainsbury Laboratory

**382B** Identification and Characterization of Pathogenicity-Related Transcription Factor

in *Aspergillus flavus* **He-Jin Cho** Kyungpook National University

**383B** The sole putative leucine-rich repeat receptor Lrr1 in *Cryptococcus neoformans* facilitates conjugation during mating **Nathan Glueck** Mercer University

**384B** GATA-type regulator NsdD-mediated species-specific rewiring of gene regulatory networks in *Aspergillus* **Kap-Hoon Han** Woosuk University

**385B** Analysis of the effects of *wc-2* disruption using CRISPR/Cas9 on fruiting body formation in *Pleurotus ostreatus* **Yoichi Honda** Kyoto University

**386B** Homeodomain Transcription Factor is Essential for Toxocyst Formation in the Oyster Mushroom *Pleurotus ostreatus* **Sheng-Chian Juan** Max Planck Institute for Biology Tübingen

**387B** Mating-type transcription factors from *Aspergillus fumigatus* and *Penicillium chrysogenum*: crystallization of the DNA binding domain and determination of MAT protein DNA binding motifs. **Ulrich Kück** Ruhr-University Bochum

**388B** Unraveling toxocyst development in the oyster mushroom *Pleurotus ostreatus* **Yi-Yun Lee** Max Planck Institute for Biology Tübingen

**389B** Decoding hyphal constriction in *Magnaporthe oryzae* using a simple assay **Song Hee Lee** Yeungnam University

**390C** A tissue-resolved developmental transcriptome of the mushroom-forming fungus *Psilocybe cubensis* **Matthew Meyer** The Ohio State University

**391C** A Yak1 ortholog (Dkl) orchestrates dimorphism and global gene expression in *Mucor lusitanicus* **Gabriel Navarro-Del Saz** Departamento de Genética y Microbiología, Facultad de Biología, Universidad de Murcia

**392C** The role of chromatin modifiers and transcription factors during fruiting body development in the filamentous ascomycete *Sordaria macrospora* **Minou Nowrousian** Ruhr-University Bochum

**393C** Capture of the SmSTRIPAK proximiome identifies the Greenbeard proteins SmDOC1/2 as regulators of sexual development in *Sordaria macrospora* **Stefanie Poeggeler** Georg-August University of Göttingen

**394C** Investigating the Effects of Temperature and Mycelial Culture Age on *Coccidioides* Arthroconidia Physiology **Matthew Tate** Veterans Affairs San Diego Healthcare System

**395C** Identification of the early sequestered germline lineage in *Marasmius oreades* **Peter Jan Vonk** Stockholm University

**396C** Characterization of the roles of the *UmAA7* and *UmAA10* CAZymes in the morphogenesis and pathogenesis of *Ustilago maydis* **Sara Vujakovic** The University of British Columbia

**397C** Environmental drivers and cellular mechanisms of development in the fungal pathogen *Coccidioides* **Rachel Brem** University of California, Berkeley

### Evolutionary/Comparative Genomics

**398A** Comparative transcriptomics of *Paracoccidioides* and *Histoplasma* reveals a conserved hyphal regulon **Romina Abbasian** UCSF

**399A** Opening Pandora's Box: The giant genome of *Pandora neoaphidis* **Meaghan Adler** University of North Carolina, at Chapel Hill

**400A** Linking genomic functional traits to lifestyles and hosts in hypocrealean fungi via machine learning **Brooke Allen** USDA-ARS

**401A** Chromosomal translocation of a horizontally-acquired gene cluster and virus-like elements in a cosmopolitan yeast **Jassim Al-Oboudi** University of Wisconsin-Madison

**402A** Exploring the biosynthetic potential of *Theobroma cacao* fungal endophytes of the *Bionectriaceae*. **Luis Mejía** Instituto de Investigaciones Científicas y Servicios de Alta Tecnología (INDICASAT)

**403A** Adaptation mechanisms of the human pathogenic fungus, *Fusarium oxysporum* MRL8996 **Dilay Hazal Ayhan** Acibadem University

**404A** Integrative Sequence-Structure Mining of Fungal Polyurethane-Degrading Enzymes Through a One Health Framework **Gunseli Bayram Akcapinar** Acibadem University Graduate School of Health Sciences

**405A** Genomic dynamics of *Magnaporthe oryzae* through sequential *in vitro* subculture and *in planta* infection cycles **Ravi Bika** Kansas State University

**406A** Rapid shift in azole resistance of *Aspergillus fumigatus* during isolate processing **Balazs Brankovics** Westerdijk Fungal Biodiversity Institute – KNAW

**407A** Beyond the lab: The variable landscape of genomic instability in yeast isolates **María Angélica Bravo Núñez** Cornell University

**408A** Integrated genomic and cytological approaches reveal mini-chromosome variation in *Pyricularia oryzae* **Lidia Calderon** Kansas State University

**409A** Evolution of invasive *Phytophthora ramorum* populations in Oregon's coastal forests **Steph Chase** Oregon State University

**410A** Haplotype-level assembly for a hybrid species *Saccharomyces bayanus* reveal substantial introgression from multiple species **Junhao Chen** Saint Louis University

**411A** Evolutionary history of the transition of *Kluyveromyces* budding yeast from terrestrial to aquatic environments **Kaylee Christensen** University of Hawai'i, Manoa

**412A** Genome evolution of homothallic and heterothallic members of the genus *Sordaria* **Chi-Ting Chung** Georg-August-University-Goettingen

**413A** Telomere-to-Telomere Reference Genome for *Septoria glycines* Highlights Shared and Species-Specific Virulence Factors Among Soybean Foliar Fungal Pathogens **Lily Cooper** University of Tennessee

**414A** DNA damage tolerant colonies of a fungal plant pathogen acquire mutator phenotype **Shay Covo** Hebrew U

**415A** Contrasting environmental and clinical isolates of *Coccidioides*, the causative agent of Valley Fever **Lisa Couper** University of California, Berkeley

**416A** Identification of genetic elements related to thermotolerance across the *Cryptococcus* clade **Madeline Cusick** University of Georgia

**417A** Genomic diversity and rapid phenotypic adaptation following serial infection of a specialist fungal pathogen in a novel host **Henrik De Fine Licht** University of Copenhagen

**418A** Population-Specific Transcriptomic Rewiring Underlies Secondary Metabolic Diversification in *Aspergillus flavus* and the Domestication of *Aspergillus oryzae* **Milton Drott** USDA-ARS

**419A** Life cycle plasticity in *Cronartium ribicola*, the causal agent of white pine blister rust **Brian Duarte** University of British Columbia

**420A** Comparative genomics using long-read sequencing of clinical *Candida auris* isolates reveals transmission dynamics and drug resistance mechanisms **Jacob Durazo** J. Craig Venter Institute

**421A** Comparative genomics of plant associated fungi to assess endophytic genome signatures **Joss ETTY** University of Bath

**422A** A genomic view of hypermutation potential in *Candida auris* drug resistance **David Firer** Brown University

**423A** Genome evolution of lichen-forming fungi associated with a major photobiont switch from a green algal to a cyanobacterial symbiont **Diego Garfias Gallegos** Duke University

**424A** Evaluating the role of bacterial endosymbionts in evolution and diversity of plant associated Mortierellomycotina fungal communities **Daniyal Gohar** Oregon State University

**425A** Biofilm regulatory network divergence in *Candida* species is driven by cis-acting variations **Deepika Gunasekaran** University of California Merced

**426A** Pan-genomics of the *Laccaria* species complex reveal a two-speed evolution of the "mycorrhizal-toolkit" **Keaton Tremble** Duke University

**427B** ABAQS: A Comprehensive Scoring Method for Assessing Genome Annotation Quality **Sajeet Haridas** DOE Joint Genome Institute

**428B** FLASH, a new statistical machine learning algorithm, can accurately predict and link novel genes to antifungal resistance in diverse clinical and

environmental fungi **Marie-Claire Harrison** Stanford University

**429B** Characterization of global isolates of *Penicillium rubens* and *Penicillium chrysogenum* reveals differing strategies for maintenance of genome plasticity **Anne Hatmaker** University of Minnesota

**430B** Living with a killer: how coevolved *Saccharomyces cerevisiae* become killer toxin resistant **Michelle Hays** University of Michigan

**431B** Phyletic Patterns of c-NHEJ Genes Are Reflected in Genomic Signatures in Fungal Genomes **Einat Hazkani-Covo** The Open University of Israel

**432B** Alternative evolutionary trajectories following RNAi loss in *Cryptococcus* **Joseph Heitman** Duke University

**433B** Phased nuclear and mitochondrial genome assemblies of *Cryptococcus A/D* hybrids using long-read sequencing and trio-binning **Nicolas Helmstetter** University of Exeter

**434B** *Malassezia* parasexual hybridization, yeast-to-hyphae transition, and pathogenesis **Giuseppe Ianiri** University of Molise

**435B** Human-mediated hybrid zones between amphibian-killing chytrid lineages produce second generation recombination **Thomas Jenkinson** California State University, East Bay

**436B** PCR-based differentiation of *Aspergillus oryzae* and aflatoxigenic *Aspergillus flavus* targeting the aflatoxin biosynthesis gene cluster **Eunji Jeong** Soongsil University

**437B** De novo chromosomal-level assemblies of *Coccidioides* species reveal inter-species and intra-species genomic rearrangements **Melanie Jimenez** Veterans Affairs San Diego Healthcare System

**438B** Whole genome similarity provides a robust framework for classification of fungal species and their variants **Hayden Johnson** Oregon State University

**439B** Telomere-to-telomere pangenome of 60 *Aspergillus oryzae* strains enabled by a new robust DNA extraction protocol **Achille Julienne** DTU Biosustain

**440B** Signs of ongoing reproductive incompatibility in *Aspergillus fumigatus* **Spyros Kanellopoulos** Wageningen University

**441B** Estimating the distribution of fitness effects of loss of heterozygosity (LOH) events using an engineered library of *Saccharomyces cerevisiae* **Yi-Hong Ke** University of Michigan

**442B** Genome-wide association of nutrient-use and pathogenicity in *Botrytis cinerea* **Belinda Kincade** Louisiana State University

**443B** Comparative genomic approaches between cuticular wax composition of *Populus* species and germ tube length of *Sphaerulina musiva* enlightened promising genomic regions. **Alexandre Lassagne** Oregon State University

**444B** Global analysis of genotypic and phenotypic variation in an NIH collection of 160 *Candida albicans* patient-derived isolates with paired clinical metadata **Jessie MacAlpine** National Institutes of Health

**445B** Homothallic or heterothallic? A genomic investigation into the sexual capabilities of the ascomycete fungus *Clonostachys rosea* **David Manyara** Swedish University of Agricultural Sciences

**446B** Epigenetic regulation of *Starship* activity in *Pyricularia oryzae* **Aidan McVey** Kansas State University

**447B** Transposable elements drive evolution and alternative virulence strategies in *Colletotrichum lupini* **Andrea Menicucci** University of Bologna

**448B** Lineage-specific expansion of MoTeRs shapes subtelomeric architecture in *Magnaporthe oryzae* **Astha Mishra** Tennessee Technological University

**449B** Evaluation of a candidate MAT locus for *Linnemannia elongata* (Mortierellomycotina) using quantitative PCR methods **Kyle Mondron** Oregon State University

**450B** Genomic characterization of Japanese *Syzygites* strains, mycoparasitic Mucoromycetous fungi **Chise Moriya** National Institute of Technology and Evaluation

**451B** Genetics of thermotolerance in *Neurospora discreta* **Donald Natvig** University of New Mexico

**452B** A telomere-to-telomere gapless genome assembly and mycotoxin potential of *Fusarium sporotrichioides* from Barley (*Hordeum vulgare*) **Abbeah Mae Navasca** North Dakota State University

**453B** *Aspergillus fumigatus* Af293/CEA10 community sequencing initiative **Grant Nickles** University of Wisconsin-Madison

**454B** WTF: What the *Fusarium* is happening on winegrapes? **Drew Olson** University of Georgia

**455B** Recent lineage diversification and gene flow shape climate adaptation in the Swiss needle cast pathogen of Douglas-fir **Richard Hamelin** University of British Columbia

**456B** Losses of Deeply Conserved Genes in the Mitotic Exit Network Led to Multiple Rewiring Events in Budding Yeasts **Xiaoxue Zhou** New York University

**457C** The genetics of speciation in *Saccharomyces* **Jasmine Ono** University of Nottingham

**458C** Genomic insights into the melanized fungus *Exophiala pacifica* ETNP2018 reveals adaptation to the open ocean **Xuefeng Peng** University of South Carolina

**459C** A new reference graph-pangenome for *Aspergillus fumigatus* recovers gene expression of accessory genes absent from the reference strain **Marion Perrier** Friedrich Schiller University Jena

**460C** Secondary Metabolism as a Source of Functional Diversity in *Colletotrichum* **Irene Picicci** University of Parma

**461C** Pangeneric analysis of the oyster mushroom family illuminates the mechanisms of evolution of carnivorous mushrooms **Prasanth Prakash Prabhu** Clark University

**462C** The Evolution of Host Preference Across the *Botrytis* Genus **Lori Pradhan** Louisiana State University

**463C** Selfish genetic element promotes mitotic stability of a dispensable chromosome in the fungal

pathogen *Fusarium oxysporum* **Gema Puebla Planas** University of Cordoba

**464C** Integrative Multi-Omics Analysis of *Candida albicans* Isolates from Distinct Human Niches **Piyapat Rintarhat** Chung-Ang University

**465C** Stage-specific transposase activation as mechanism of genetic variation in the clonally propagating pathogen *Fusarium oxysporum* **Ana Rodriguez Lopez** University of Córdoba

**466C** A supergene underlies evolution of a novel secotioid phenotype in the dimorphic mushroom *Lentinus squamulosus* **Thomas Roehl** Clark University

**467C** Using TN-seq to identify genes required for yeast survival against amoeba predation **Emily Rush** University of Georgia

**468C** Evolutionary Analysis of Pmk1 MAPK-dependent fungal pathogenesis across the Fungal Tree of Life **Neha Sahu** The Sainsbury Laboratory

**469C** Evolutionary Mechanisms Shaping Chromosome Architecture in *Fusarium* **Sahar Salimi** Tennessee Tech University

**470C** A large-scale phylogenomic analysis of host-specificity of entomopathogenic fungi via automated data retrieval **Kelsey Scott** USDA-ARS

**471C** Lineage-specific rules for protein architecture at fungal scale **Sadikshya Sharma** University of California, Riverside

**472C** Linking phenotype to genome: Integrating bioassays and genome comparison reveals candidate virulence factors in a highly pathogenic *Beauveria* isolate **Somraj Shrestha** Auburn University

**473C** Uncovering Mitochondrial Plasmid Diversity in Fungi with GenomeOcean Embeddings **Andrei Steindorff** DOE Joint Genome Institute - Lawrence Berkeley National Laboratory

**474C** Deciphering the Role of Carbohydrate-Active Enzymes in the Pathogenicity and cell degradation of *Fusarium oxysporum* Infecting Banana Plant **Mst Shamim Ara Supty** Georgia Southern University

**475C** Elucidation of fluconazole resistance in the emerging fungal pathogen *Candida auris* **Tamaki Tatesaka** Chiba University

**476C** Evidence of actively-transposing *Starship* elements in *Sclerotinia sclerotiorum* **Chanel Thomas** Forestry & Agricultural Biotechnology Institute (FABI), University of Pretoria

**477C** Unraveling a metabolic mystery: A novel galactose catabolism pathway in yeasts **Emily Ubbelohde** University of Wisconsin - Madison

**478C** Investigation of a novel azole-resistance mechanism through sexual reproduction in *Aspergillus fumigatus* **Momotaka Uchida** Chiba University

**479C** In genomes we trust: assessing genomic reliability within the family Nectriaceae **Alessandra Villani** National Research Council of Italy

**480C** Non-coding sequence conservation correlates to the gene expression evolution and sheds light to the evolution of Sordariomycetes **Yen-Wen Wang** Yale University

**481C** Diversity of Major Surface Glycoprotein Copies Encoded Within the Expression Cassette of *Pneumocystis carinii* **Nicholas Wolf** University of Cincinnati

**482C** Genomic insights into resistance-breaking strains of *Anisogramma anomala* causing Eastern filbert blight in the Pacific Northwest **Alex Zaccaron** Oregon State University

**483C** Investigating the repeated evolution of pathogenesis in *Aspergillus* section *Fumigati* **Thomas Sauters** Vanderbilt University

**484C** Comparative Genomics Analysis Sheds Light on Pathogenicity Determinants in Cotton Fusarium Wilt Fungi **Yi Zhou** Texas A&M University

**485C** Phenotyping of *Rhodotorula* tolerance to heavy metal contamination for bioremediation applications **Christian Ona** University of California Riverside

**486C** Developing Genomic, Taxonomic, and Biodiversity Resources for the USDA-ARS Entomopathogenic Fungi Collection **Kathryn Bushley** USDA-Agricultural Research Service

## Functional Genomics

---

**487A** Deep Learning and Generative AI for Fungal Genomics **Carson Andorf** USDA-Agricultural Research Service

**488A** High-throughput screening reveals mechanisms of environmental control of germination in a fungal thermophile **Rachel Brem** UC Berkeley

**489A** Fungal Factory for Terpenoid Production: Genome Editing of *Coprinopsis cinerea* **Sandra Breuer** Fraunhofer-Institut für Molekularbiologie und Angewandte Oekologie IME

**490A** KERS Complex and Downstream Regulators Control Development and Secondary Metabolism in *Aspergillus nidulans* **Thuc Bui** Maynooth University

**491A** Tracing host-specificity in *Magnaporthe oryzae* pathotype *Triticum*: Functional genomics of lineage-specific genes **Florencia Casanova** RWTH Aachen University

**492A** Functional Assessment of *Sporisorium reilianum* a2 Mating Genes, *lga2* and *rga2*, in *Ustilago maydis* **Dennis Doe** University of Louisville

**493A** The dynamic idiomorph – a new role in heterokaryon incompatibility and diversification of mating-type regions **Paul Dyer** University of Nottingham

**494A** Fungal *Starships* as Hotbeds of Sub-functionalization: Divergent Roles of the LaeA Paralogs on *Starship Janus* **Justin Eagan** University of Wisconsin-Madison

**495A** Transcriptomic variation explains *Suillus tomentosus* zinc tolerance in the absence of population structure **Jessica Fletcher** University of Colorado Denver

**496A** Genome assembly, functional annotation, and secondary metabolite potential of *Akanthomyces lecanii*, a mycoparasite with biocontrol capacity of the coffee rust fungus *Hemileia vastatrix* **Wendhy Fuentes** Universidad Tecnológica de Panamá

**497A** FunDLM, a fungal-specific large DNA language model for genetic research **Nikesh Gyawali** Kansas State University

**498A** Fungal standoff: Interaction-responsive gene expression in co-cultured white- and brown-rot fungi **Adam Haag** University of Minnesota

**499A** Frequent and Specific Horizontal Chromosome Transfer Between *Metarhizium* Species *in Vitro* and in the Field **Michael Habig** University Kiel

**500A** FungiDB: Tools for Genomic-Scale Data Exploration, Integration, and Discovery **Omar Harb** University of Pennsylvania

**501A** Development of a high-throughput functional genomics platform for filamentous fungi **Lori Huberman** Cornell University

**502A** Assessing the role of the histone variant H2A.Z on histone PTM distribution and genome organization in *Neurospora crassa* **Taylor Hutter** University of Colorado Colorado Springs

**503A** A high(er) throughput method for using CRISPR/Cas9 to delete genes from *Coccidioides posadasii* **Katrina Jackson** Northern Arizona University

**504A** Extracellular vesicle-mediated delivery of genetic material for transformation and CRISPR/Cas9-based gene editing in *Pneumocystis murina* **Steven Sayson** University of Cincinnati College of Medicine

**505B** The target specificity of a heterochromatic histone deacetylase complex in *Neurospora crassa* **Farh Kaddar** University of Colorado Colorado Springs

**506B** Fitness effects of multi-fungicide resistances in *Aspergillus fumigatus* **Ben Auxier** Wageningen University

**507B** Investigating fungicide mode of action using high-throughput functional genomics **Joshua Kerkaert** Cornell University

**508B** AI-Driven *Fusarium* Databases: identify key genetic variation and target to combat agricultural threats and aid development of crops resistant to disease and mycotoxin contamination **Hye-Seon Kim** USDA-Agricultural Research Service

**509B** Functional characterization of peptidase G1 in *Cryphonectria parasitica* **GeonMin Kim** Jeonbuk national University

**510B** Topological Consequences of Large-Scale Genome Rearrangements in *Neurospora crassa* **Andrew Klocko** University of Colorado Colorado Springs

**511B** Investigating Drug Resistance in *C. neoformans* using Diploid TN-seq **Amy Kuhn** University of Georgia

**512B** Establishing gene essentiality and incorporation in *Candidozyma auris* **Ajay Larkin** University of Michigan

**513B** Unraveling the regulatory network of Zeb2 in zearalenone biosynthesis **Nahyun Lee** Seoul National University

**514B** Roles of aneuploidy in *Aspergillus fumigatus* unstable adaptation and antifungal resistance **Anna Lehmann** Duke University School of Medicine

**515B** *Aureobasidium pullulans* as a genetic model for phyllosphere commensalism and enhancing crop resilience **Julian Liber** Duke University

**516B** Genetic Manipulation of the Dermatophytes *Trichophyton mentagrophytes* and *Trichophyton rubrum* **Thea Lunden** Aalborg University

**517B** Mating hormone biosynthesis and mating type determination in *Phytophthora* are controlled by a conserved gene cluster **Milan Milenovic** University of California Riverside

**518B** SIR2 is Required for Spore Development and Infection Capability in *Pyricularia oryzae* **Ari Mortensen** Tennessee Technological University

**519B** Energy Trade-Off via Ribosome Biogenesis Control Underlies Early Plant Penetration in Plant Pathogenic Fungi **Jinhwan Oh** Seoul National University

**520B** Assessment of exudate-triggered responses driving *Fusarium solani* species complex dominance in the soybean spermosphere **Arpan Parajuli** Auburn University

**521B** The US NIAID Genomic and Bioinformatic Resources for Fungal Research **Liliana Brown** NIAID

**522B** Development of a Genetic Transformation System for *Pseudopithomyces toxicarius* **Neriman Yilmaz** Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria (UP)

**523C** Meta-analysis of *Pleurotus ostreatus* Transcriptomes: Global Transcriptomic Architecture and Transcriptional Effort Allocation in Basidiomycetes **Antonio Pisabarro** Public University of Navarre (UPNA)

**524C** Adaptations in the polyextremophilic yeast, *Naganishia friedmannii*. Surprises from comparative genomics and a series of freeze thaw RNA Seq experiments. **Alisha Quandt** University of Colorado Boulder

**525C** Dissecting the root-fungal interface in 3D reveals spatially distinct signalling landscapes **Amey Redkar** National Centre for Biological Sciences (NCBS)

**526C** Genomic and transcriptomic profiling of *Hanseniaspora guilliermondii*'s ethanol stress response **Diogo Santos** iBB, Institute for Bioengineering and Biosciences, Instituto Superior Técnico, University of Lisbon

**527C** A CRISPR activation platform to identify genes involved in trisomy-associated antifungal drug resistance in *Candida albicans* **Rebecca Shapiro** University of Guelph

**528C** Understanding how *Candida albicans*, a fungal species, is adapted for survival in the human gut microbiome **Manjari Shrivastava** University of California, San Francisco

**529C** Paralogs of the *Candida albicans* TLO (telomere-associated) gene family form interconnected functional networks through incomplete redundancy **Emily Simonton** University of Wisconsin - Madison

**530C** Staying Dry: The Peptidic Architecture of Fungal Hydrophobicity **Teis Esben Sondergaard** Aalborg University

**531C** Environmental impacts on gene expression in the amphibian gut fungus *Basidiobolus* **Kimberly Syring** Oregon State University

**532C** Saturation mutagenesis of fungal *pyrE* to identify variants that endow resistance to DHODH inhibitors

without impacting fitness **Jamie Tindale** University of Manchester

**533C** Role of pyrimidines transport in the adaptation to the novel antifungal olorofim in *Aspergillus fumigatus* **Clara Valero** The University of Manchester

**534C** Spore Whiteout – Depigmentation of *Apiospora arundinis* Conidia **klaus Westphal** Aalborg University

**535C** Dissecting the homeodomain *MAT* locus and engineering novel tripolar and bipolar mating systems in *Cryptococcus amylolentus* **Liping Xiong** Duke University

**536C** Can genes “knock-in/out” resolve the “loss-for-gain” paradox of brown-rot fungal wood decomposition? **Jiwei Zhang** University of Minnesota

**537C** How does genetic background influence phenotypes? **Lea Lortal** UCSF

**538C** Functional characterization of a SAM-dependent methyltransferase implicated in sectorization of MAPK mutants in *Cryphonectria parasitica* **Jeesun Chun** Jeonbuk National University

**539C** *CpFre1*-mediated iron homeostasis in relation to hypovirus infection and sectorization **Yo-Han Ko** Jeonbuk National University

## Fungal Diversity

**540A** Genomic features of parasexual reproduction among two genetically distinct hybrid groups of *Cryptococcus neoformans* **Rahul Anand** University of Exeter

**541A** Uncovering Cultivable Fungal Diversity from Cabbage Microhabitats Through Selective Media Strategies **Sunmin An** Suncheon National University

**542A** A 150-Year Record of Foliar Fungal Endophyte Dynamics in Norway Spruce (*Picea abies*) Across Finland **Fred Asiegbu** University of Helsinki

**543A** ColonyPy: A python-based image analysis pipeline to quantify tolerance and heteroresistance in *Cryptococcus neoformans* **Priscilla Atim** Virginia Tech University

**544A** Insights into the Taxonomic Diversity and Genome Complexity of the *Fusarium* Bean Root Rot

Complex **Irene Blanco-Casallas** Michigan State University

**545A** Diversity and Functions of Zoosporic Pathogens of Invertebrates **Kathryn Bushley** USDA-ARS

**546A** The Macroevolution of Filamentation Morphology Across the *Saccharomycotina* Yeast Subphylum **Christina Chavez** Vanderbilt University

**547A** High-Throughput Phenotyping Systems for Resistance Screening Against Bipolaris Brown Spot and Rhizoctonia Sheath Blight in Long-Grain Rice **Seo yeon Kim** Suncheon National University

**548B** Save the Ketchup! Population genetics and phylogenomics reveal clones from two obscure taxa in the *Fusarium solani* Species Complex that cause a devastating disease on California processing tomato **David Geiser** Penn State University

**549B** Inhibitor of Apoptosis Proteins are highly conserved across fungi, with notable expansions in Lecanoromycetes **Miette Hennessy** University of Wisconsin - Madison

**550B** Mycodnaviridae: a new group of giant viruses discovered as past and present infections of zoosporic fungi **Timothy James** University of Michigan

**551B** Selective Media Reveal Hidden Cultivable Fungal Diversity in Soybean Microhabitats **Seo yeon Kim** Suncheon National University

**552B** Fungal diversity and their involvement in the decomposition of deep-sea submerged plants **Yuriko Nagano** Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

**553B** Transcriptional differences related to thermotolerance in *Cryptococcus neoformans* and related species **Hanna Roucka** University of Georgia

**554B** Fungi from Plants and the Soil They Were Growing In **Inisa Shrestha** Kansas State University

**555C** A fungal volatile organic compound shifts fungal communities to enhance drought resilience in pasture systems **Sereyboth Soth** Lincoln University

**556C** Integrated Genomic and Metabolomic Evidence for Divergent Fumonisin and Beauvericin Production in *Fusarium proliferatum* **Antonia Susca** National Research Council of Italy

**557C** Quantitative Multi-Omics Reveal Functional Diversity and Carbohydrate-active Enzyme Activity of Marine Fungi in the Eastern Tropical South Pacific OMZ **Madeleine Thompson** University of South Carolina

**558C** Revision of the *Pseudopithomyces* (Pleosporales) genus supports the identification of a new toxigenic species, *Pseudopithomyces toxicarius* sp. nov., responsible for facial eczema in livestock **Christine Voisey** Bioeconomy Science Institute of New Zealand

**559C** *Fusarium* Strikes Back: Expanding the Diversity of Fumonisin Producers in South African Maize **Neriman Yilmaz** Forestry and Agricultural Biotechnology Institute (FABI) - University of Pretoria (UP)

**560C** Genetic and ecological diversity of *Fusarium falciforme* as a circumglobal plant pathogen of crop and landscape plants **Kacey Zimmerman** University of California, Davis

## Fungal Ecology

---

**561A** Assessment of filamentous fungi with dye-degrading potential isolated from Basque estuaries **Ziortza Agirrezabala Urkia** University of the Basque Country

**562A** Enhanced Competitiveness of Neck-Derived Magnaporthe oryzae Isolates Across Rice Tissues **Sunmin An** Suncheon National University

**563A** Cellular responses of *Aspergillus sydowii* to growth at extreme chaotropic concentrations of MgCl<sub>2</sub> **Ramon Alberto Batista Garcia** Universidad Autónoma del Estado de Morelos

**564A** Fungal responses under stress: Contrasting trophic strategies over time **Brittany Byford** New Mexico State University

**565A** Genome-scale model, *in vitro* experimentation, and stable cultures of algae, cyanobacteria, and fungi support a symbiotic exchange of amino acids for melanin **Erin Carr** University of Nebraska-Lincoln

**566A** The impact of geospatial variables and local mycobiota on the landscape of drug-resistant *Aspergillus fumigatus* in the United Kingdom **Harry Chown** Imperial College London

**567A** Fungal trait responses under global change drivers **Maya Clausen** New Mexico State University

**568A** Influential fungi: arbuscular mycorrhizal fungal genomic identity drives shifts in soil bacterial community structure in two agricultural crop species **Robert Ferguson** University of Ottawa

**569A** Disrupting Microbial Communities: Investigating Patulin as a Driving Force of Microbiome Community Dynamics **Ben Haefner** University of Wisconsin - Madison

**570B** Born wild, acting sus: Cheating *re-shapes* fungal virulence and antifungal resistance **Suraj Hassan Muralidhar** Wageningen University and Research

**571B** Interactions between arbuscular mycorrhizal and ergot alkaloid-producing endophytic symbionts in morning glories. **Garrett Hicks** West Virginia University

**572B** Opposing Roles of Nitrogen and Potassium in Modulating Rice Brown Spot Severity **Seol-Hwa Jang** Suncheon National University

**573B** Emergence of Alternaria-Induced Leaf Spot on Rice Under High-Temperature, High-Humidity Conditions in Korea **Seol-Hwa Jang** Suncheon National University

**574B** Many sites, many stories: context-dependent fungal responses to global change drivers **Inoka Jayasundara** New Mexico State University

**575B** Re-parameterising wheat stem rust (*Puccinia graminis* f. sp. *tritici*) epidemiological models to explore disease dynamics in a changing climate **Cesaree Morier-Gxoyiya** John Innes Centre

**576B** Resistance of *B. cinerea* to Different Methods of Specialized Metabolites **Jenna Moseley** Louisiana State University

**577B** A Novel Fungal Association Characterizes Crohn's Disease in a South Korean Cohort **Katherine Mueller** Texas Tech University Health Sciences Center

**578B** Gene expression analysis of *Neurospora discreta* strains isolated from burnt Joshua trees after the Cima Dome fire in California **Katherine Borkovich** University of California

**579C** Shedding light on the growth pattern of the fairy ring fungus *Marasmius oreades* **Boel Olsson** Stockholm University

**580C** Global patterns of diversity and distribution in *Aspergillus* fungi are driven by human and environmental influences **Olivia Riedling** Vanderbilt University

**581C** Roadkill Wildlife Reveals Potential Reservoirs of Pathogenic *Sporothrix* Species from Paraná, Brazil (2017–2023) **Anderson Messias Rodrigues** Federal University of Sao Paulo

**582C** Accumulation and localization of europium in the filamentous fungus *Podospira anserina* **Gwenael Ruprich-Robert** Universite Paris Cite

**583C** Ergot alkaloids in the fungus *Aspergillus leporis* affect the foraging behavior of the slime mold *Physarum polycephalum* **Jordan Sexstone** West Virginia University

**584C** Tissue specificity, ecological function, and salinity tolerance of fungi associated with the pneumatophores and leaves of black mangrove (*Avicennia germinans*) **Justin Shaffer** California State University, Fresno

**585C** The floral mycobiome of the foundational dryland shrub *Larrea tridentata* (creosote): how pollinator exclusion and climate variability shape fungal community assembly **Shelby Showalter** University of New Mexico

**586C** Metatranscriptomics of natural communities reveals functional differentiation and seasonal nutrient transport in the Populus soil microbiome **Keaton Tremble** Duke University

**587C** Assessing fungal growth and health risks in post-flooded facilities following Hurricane Helene **Gabrielle Walker** Duke University

**588C** Incidence of Fungal Infections in the United States over the Last 10 Years using Electronic Health Records **Theodore White** University of Missouri-Kansas City

**589C** Seasonal Mating-Type Imbalance Suggests Restricted Sexual Reproduction in Field Populations of *Bipolaris oryzae* in Korea **Seo yeon Kim** Suncheon National University

## Gene Regulation

---

**590A** MERCK complex and downstream regulatory genes operate development and secondary metabolism in *Aspergillus nidulans* **Pranay Agarwal** Maynooth University

**591A** The Unfolded Protein Response is involved in antibacterial defense in fungi **Emma Alessandri** ETH Zürich

**592A** Decoding Stress-Specific Roles of Ribosome-Associated Quality Control Initiation in *Cryptococcus neoformans* **Alexandra Benedetto** SUNY University at Buffalo

**593A** Transcription factors encoded by non-clustered genes directly activate biosynthetic gene cluster expression during *Epichloë*-grass symbiosis **Daniel Berry** Victoria University of Wellington

**594A** Identification of potential DNA N6-methyladenine readers uncovers a broad regulatory role of adenine methylation in non-dikarya fungi **Pablo Carrillo Marín** Departamento de Genética y Microbiología, Facultad de Biología, Universidad de Murcia, 30100, Murcia, Spain

**595A** Deciphering of the non-canonical unfolded protein response (UPR) pathway governs the pathogenicity of *Candidozyma auris* (*Candida auris*) **Hyunjin Cha** Yonsei University

**596A** Comparative Transcriptome and Mutational Analysis Reveal Nitrogen-Responsive Regulators of Filamentation in *Ustilago maydis* **Rebecca Dangol** University of Louisville

**597A** Tissue-specific activation of genes regulated by Polycomb Repressive Complex 2 in *N. crassa* fruiting bodies **Abigail Deaven** University of Georgia

**598A** A long non-coding RNA mediates crosstalk between fungal thermal adaptation and azole drug response in *Aspergillus fumigatus* **Sourabh Dhingra** Clemson University

**599A** Dynamics of Alternative Polyadenylation (APA) at 3' UTR regions in wild-type *Neurospora crassa* and CFIm mutants to investigate a short circadian clock period length defect **Katelyn Diune** UMass Boston

**600A** Can the presence of a fungal volatile organic compound improve plant resilience to abiotic stress? **Jesus Francisco Echaide Aquino** Lincoln University

**601A** Functional dissection of the RNAi pathway in the oomycete *Phytophthora sojae* **Francis Fang** The Ohio State University

**602A** Post-transcriptional regulation of the *C. neoformans* stress response by the RNA-binding protein Gis2 **Julia Furfaro** Witebsky Center for Microbial Pathogenesis and Immunology, Jacobs School of Medicine and Biomedical Sciences, University at Buffalo

**603A** Evolution of short amino-acid insertions in Gcn4 rewires metabolic gene regulation in the *Candida* lineage **Megan Garber** University of California, San Francisco

**604A** Chromatin dynamics of ergosterol biosynthetic gene regulation in wild-type and azole-resistant *Aspergillus fumigatus* **Sarah Beth Griffin** University of Georgia

**605A** *sit1* regulates morphological development and aflatoxin biosynthesis in *Aspergillus flavus* **Airin Gulshan** Northern Illinois University

**606A** Gene Regulatory Network Inference Reveals Novel Regulators of Cellulose Degradation in *Neurospora crassa* **Luis F. Larrondo** Pontificia Universidad Catolica de Chile

**607B** Retrotransposon-mediated transition from sexual to asexual development in the katsuobushi fungus, *Aspergillus chevalieri* **Kentaro Hiramatsu** The United Graduate School of Agricultural Sciences, Kagoshima University

**608B** Role of the *osaA* transcription factor gene in development, secondary metabolism and virulence in the mycotoxigenic fungus *Aspergillus flavus* **Farzana Ehetasum Hossain** Northern Illinois University

**609B** RNAi restriction of a novel mycovirus prevents viral induced alterations in transcription and virulence in a critical human fungal pathogen **Jun Huang** Duke University

**610B** Mapping nuclear cooperation in fungal syncytia **Ameya Jalihal** Duke University

**611B** Facultative heterochromatin mediated by core and accessory chromosome-encoded H3K27-specific methyltransferases controls virulence in a fungal phytopathogen **Slavica Janevska** Leibniz-HKI

**612B** RNA isoforms and structure rapidly respond to temperature changes in *Histoplasma* **Murat Can Kalem** University of California San Francisco

**613B** Evolution of RNA binding in the fungal regulatory protein Ssd1 **Benny Kleiner** University of Edinburgh

**614B** Mechanisms behind nitrous oxide production and lignocellulose degradation in anaerobic salt marsh sediment fungi deduced through transcriptomics **Birch Lazo-Murphy** University of South Carolina

**615B** Developing transposable element reporter systems in *Cryptococcus* **Cheyenne Lee** Duke University

**616B** Genome-wide CRISPRi Exploration of Plant-derived Compounds for Antifungal Potential **Ofri Levi** Tel-Hai academic college

**617B** Light controls gene functions through alternative splicing in fungi **Yifan Li** Nanjing Agricultural University

**618B** Response of *Candida albicans* white and opaque cells to phagocytosis by macrophages suggests that opaque cells are "pre-adapted" **Matthew Lohse** University of California, San Francisco

**619B** Pmk1-dependent regulation of a Mst12-Bip1 transcriptional network governing pathogenesis by the rice blast fungus, *Magnaporthe oryzae* **Camilla Molinari** The Sainsbury Laboratory

**620B** Acute temperature shifts drive rapid remodeling of the morphogenetic program in *Histoplasma* **Anna Morrison** UCSF

**621B** Comparative transcriptome analysis among *roc1* mutants in the white-rot fungus *Pleurotus ostreatus* **Takehito Nakazawa** Kyoto University

**622C** Cys-bZIP transcription factors function as redox sensors regulating development and stress responses in the oomycete *Phytophthora infestans* **Thuy Nguyen** University of California Riverside

**623C** Deletion of Elongator Protein 1 (Elp1) relieves heterochromatin defects in a Pol II mutant of *Schizosaccharomyces pombe* **Mamta Nirmal** Michigan State University

**624C** The regulatory network of 186 transcription factors of a model mushroom during development and cellulose degradation **Robin Ohm** Utrecht University

**625C** AtrR Interaction Network and Its Role in Azole Resistance in *Aspergillus fumigatus* **Sanjoy Paul** The University of Iowa

**626C** Upregulation of a mobile carotenoid gene cluster during fungal plant infection **Annika Pratt** University of Wisconsin-Madison

**627C** Epigenetic control of cellulase gene expression via HDA-2/SIF-2-mediated regulation of MAK-1 phosphorylation and CLR-2 activity in *Neurospora crassa* **Lina Qin** Fujian Normal University

**628C** Telomere anchoring to the nuclear envelope through Lem2 is required for *Ustilago maydis* pathogenicity **Estela Sanz Marti** Universidad Pablo de Olavide / Centro Andaluz de Biología del Desarrollo

**629C** Transcriptome analysis in response to beech wood sawdust to identify a new regulator for lignocellulose-degrading enzyme-encoding genes in the white-rot fungus *Pleurotus ostreatus* **Rio Sato** Kyoto University

**630C** Investigating Uniparental Inheritance of Mitochondrial DNA During Sexual Reproduction in *Cryptococcus neoformans* **Ran Shi** University of Georgia

**631C** Ssb1 chaperone orchestrates stress-induced transcriptome reprogramming and virulence regulation in *Cryptococcus neoformans* **Prabhakar Singh** University at Buffalo, New York

**632C** tRNA-m1A methylation supports hyphal growth of *Neurospora crassa* through controlling cellular energy metabolism **ziquing Wang** Huazhong Agricultural University

**633C** From Energy Sensing to Epigenetic Activation: The AMPK/TrSnf1-ACE3-MST2 Pathway Orchestrates

Cellulase Synthesis in *Trichoderma reesei* **Wei Wang** East China University of Science and Technology

**634C** QTL Mapping to identify the mechanisms of extreme CO<sub>2</sub> tolerance in *Cryptococcus neoformans* **Yuhang Wang** University of Georgia

**635C** Assessing impact of temperature on growth and transcriptional codon usage bias across Saccharomycotina yeasts **Audrey Ward** University of North Carolina at Charlotte

**636C** Regulation of the mannanase genes by multiple transcription factors in *Aspergillus nidulans* **Haruno Watanabe** Graduate School of Bioresources, Mie University

**637C** Pseudouridine modification regulates development, azole resistance and genome stability in *Aspergillus fumigatus* **Yuanwei Zhang** Nanjing Normal University

## Initiatives in Education and Pedagogy

---

**638A** Laboratory Evolution of a Non-Model Yeast for Citizen Science and Education **Bethany Teale** University of Bath

## Pathogenic and Mutualistic Interactions

---

**639A** Characterization of Colletotrichum isolates from symptomatic dry bean fields in North Dakota and western Minnesota **John A Teixeira** North Dakota State University

**640A** Finding genes essential for bacterial-fungal symbiosis using transposon insertion sequencing **Bhuwan Abbot** UNC Charlotte

**641A** Unravelling the Molecular Mechanisms of Bacterial-Fungal Endosymbiosis **Ingrid Richter** Unidad de Genómica Avanzada - CINVESTAV

**642A** The sealing domain of tRNA ligase (Trl1) is a potential antifungal drug target **Khondakar Sayef Ahammed** Ohio State University

**643A** Exploring biocontrol potential of a bacterial strain against Fusarium root rot in pulses through transcriptomic approaches **Suruchi Aryal** North Dakota State University

**644A** Phytoalexins as host cues: convergent evolution of detoxification mechanisms in polyxenous pathogens *Botrytis cinerea* and *Colletotrichum tropicale* **Akira Ashida** Nagoya University

**645A** Comparative phosphoproteomics identifies a novel group of Pmk1-regulated effectors deployed by the rice blast fungus *Magnaporthe oryzae* during plant infection **Mark Jave Bautista** The Sainsbury Laboratory

**646A** Splash Dispersal of *Colletotrichum* Conidia on Host and Nonhost Leaf Architectures **Caleb Bedsole** Texas A&M University

**647A** The polyketide synthase, Ctb1, is required for cercosporin biosynthesis but not virulence in the maize pathogen *Cercospora zea-maydis* **Burt Bluhm** University of Arkansas Division of Agriculture

**648A** Identification and characterization of *Cercospora beticola* effector candidates associated with adaptation to the sugarbeet resistance gene *BvCr4* **Nathan Wyatt** USDA - ARS

**649A** A single laccase is essential for cell wall construction and environmental sensing in *Sclerotinia sclerotiorum* **Madeline Bondy** University of Wisconsin - Madison

**650A** Host transcriptomic and metabolic pathway shifts imposed by intracellular bacteria within *Mortierellaceae* **Gregory Bonito** Michigan State University

**651A** AI-driven protein design to understand effector function within the *Magnaporthe oryzae* rice pathosystem **Angus Bucknell** The Sainsbury Laboratory

**652A** Pmk1-driven signal integration and developmental control in the rice blast fungus *Magnaporthe oryzae* **Euan Cawston** The Sainsbury Laboratory, Norwich

**653A** Large scale proteome mapping of multidrug resistant *Candida auris* isolates **Benjamin Chadwick** University of Macau

**654A** Hypovirus-mediated enhancement of *Trichoderma harzianum* biocontrol activity through virus-fungus-plant interactions **Jeesun Chun** Jeonbuk National University

**655A** Characterization of *de novo* mini-proteins targeting *Candida albicans* virulence traits **Evelyne Côté** University of Toronto

**656A** Role and regulation of dispersal in *Candida albicans* commensalism and pathogenicity **Eli Cytrynbaum** University of Wisconsin - Madison

**657A** Characterizing macrophage dependent spherulation in *Coccidioides* **Apoorva Dabholkar** UCSF

**658A** Molecular Basis of a Bacterial 'Toxin Sponge' that Protects its Fungal Partner from Antimicrobial Compounds **Kurt Dahlstrom** University of Georgia

**659A** Influence of pathogen carbon metabolism on host immunity **Bright Owusu Danso** Liberty University

**660A** Characterization of Extracellular Vesicles in *Fusarium oxysporum* f. sp. *vasinfectum* **Brisa Davila** Texas A&M University

**661A** Dissecting appressorium-mediated plant infection by FIB-SEM Volumetric EM and Cryogenic Electron Tomography **Juan Carlos De la Concepcion** ZMBP, University of Tübingen

**662A** Interspecific interactions and virulence variation among *Fusarium* species causing root rot in pulse crops **Anmol Dhaliwal** North Dakota State University

**663A** A novel *Starship* transposon in a broad host range pathogen mediates host-specialized virulence on strawberry **Christine Jade Dilla-Ermita** University of California, Davis

**664A** Determining the Sln1-mediated turgor sensing pathway and phospho-histidine landscape in the blast fungus *Magnaporthe oryzae* **Fabio Dos-Santos Barbosa** The Sainsbury Laboratory

**665A** tRNA modification and codon usage underlie phytopathogen effector evolution and secretion **Nawaraj Dulal** University of Nebraska-Lincoln

**666A** The outer membrane of a protective bacterial partner plays a key role in fungal resistance to phenazines **Hannah Edwards** University of Georgia

**667A** Brute-force or Trojan horse: How do bacteria hijack the fungal immune system? **Jude Edwards** University of California, Berkeley

**668A** Measuring fitness penalties of fungicide resistance mutations via *in planta* competition assays. **Ashton Esco** North Dakota State University

**669A** A *Pyrenophora teres* f. *teres* effector defeats the broadly used barley net form net blotch resistance gene, *Rpt5* **Timothy Friesen** USDA-ARS

**670A** tissue-dependent role for cell wall regulatory pathways on *Aspergillus fumigatus* virulence. **Kevin Fuller** University of Pittsburgh

**671A** A molecular diagnostic marker for the primary causative agent of Fusarium stem rot and decline (FRD) outbreak in California processing tomatoes, *F. noneumartii* FN-1 (*F. solani* Species Complex) **David Geiser** Penn State University

**672A** Molecular architecture and dynamic remodeling of fungal cell walls revealed by Advanced Solid-State NMR Spectroscopy **Isha Gautam** Michigan State University

**673A** Epistasis at the cell surface: what is the role of Erg3 loss-of-function in acquired echinocandin resistance? **Hans Carolus** Université Laval

**674A** Understanding Diversity of Endohyphal Bacteria in Clinical Mucorales Isolates **Jack Gregory** University of Exeter

**675A** *Tribolium castaneum*: a novel, ecologically-relevant arthropod model for human fungal pathogens **Thomas Sauters** Vanderbilt University

**676A** Invading in full force: substantial pressure from Botrytis cinerea infection cushions breaches plant surfaces **Frank Pieterse** Wageningen University & Research

**677B** The C2-domain protein SppA contributes to virulence and resistance to FksA-targeting antifungals in *Aspergillus fumigatus* **Benjamin Chadwick** Morgridge Institute for Research

**678B** Genomic features of Crusty, a novel polyextremotolerant fungus with *Methylobacterium* symbionts that functions within biological soil crust consortia **Steven Harris** Iowa State University

**679B** Secretion of *Periglandula clandestina*-derived ergot alkaloids from host morning glory roots **Corinne Hazel** West Virginia University

**680B** The UPR regulated Phu1 protein connects endoplasmic ATP levels to stress tolerance and virulence **Kai Heibel** University of Goettingen

**681B** Proteomics of programmed cell death in *Aspergillus fumigatus* conidia to design fluorescent viability reporter **Thorsten Heinekamp** Leibniz Institute for Natural Product Research and Infection Biology

**682B** Understanding lichen communication: Structural and functional characterization of *Peltigera* GPCRs **Max Heinen** Heinrich-Heine-University Dusseldorf

**683B** Host suppression of stress signaling in the maize pathogen *Cochliobolus heterostrophus* **Benjamin Horwitz** Technion - IIT

**684B** Assessing the Ecological and Genomic Determinants of Facultative Pathogenicity Through *Colletotrichum siamense* on Strawberry **Libby Indermaur** Connecticut Agricultural Experiment Station

**685B** *Fusarium oxysporum* f. sp. *vasinfectum* race 4 (Fov4) *FNP1*, a non-ribosomal peptide synthetase gene, plays an important role in cotton Fusarium wilt **Madison Isaacs** Texas A&M University

**686B** Distorted segregation and occurrence of non-parental allele type in a biparental population of wheat tan spot pathogen *Pyrenophora tritici-repentis* **Md. Mukul Islam** North Dakota State University

**687B** Functional characterization of the HSP70 domain-containing core effector of *Cercospora beticola* **Rajdeep Jaswal** North Dakota State University

**688B** Chromosome-scale metagenome assemblies reveal transposable element dynamics in *Peltigera* lichens **Vivien Joisten-Rosenthal** Heinrich-Heine University Düsseldorf, Faculty of Mathematics and Natural Sciences, Institute for Biological Data Science

**689B** Vaccine Development for *Cryptococcus neoformans* **Roshni Kadam** Rutgers University

**690B** Parallel comparative transcriptome analyses of bacterial-fungal interactions (BFI) reveal the determinants of BFI directionality **Takumi Kasai** University of Tsukuba

**691B** Expanding the fungal microbiome: databases, detection tools, and novel mycovirus–endobacteria co-occurrences **Julia Kelliher** Los Alamos National Laboratory

**692B** Proteomic profiling of antifungal drug responses of *Aspergillus fumigatus* indicates drug-specific signatures and modes of action **Olaf Kniemeyer** Leibniz Institute for Natural Product Research and Infection Biology (HKI)

**693B** Spp1-mediated processing of substrate proteins promotes plant defence suppression and virulence of fungal biotrophs **Nora Marie Kühne** University of Goettingen

**694B** Identification and functional validation of avirulence effectors in wheat rusts **Camilla Langlands-Perry** CSIRO

**695B** Outcomes of competitive dynamics of *Fusarium graminearum* and *F. poae* on wheat heads **Imane Laraba** Agriculture and Agri-Food Canada

**696B** Investigation of major surface proteins in cryptococcal immunogenicity **Yong Gyu Lee** University of Georgia

**697B** Signal Reliability and Nutritional Rewards Drive Divergent Evolutionary Trajectories in Nematode-Trapping Fungus *Arthrobotrys oligospora* **Hung-Che Lin** Max Planck Institute for Biology Tübingen

**698B** IL-17 derepresses cytokine translation to induce immunity against candidiasis **Jianfeng Lin** The Lundquist Institute

**699B** A Toxic Paradox: Towards understanding how the blue mold fungus escapes patulin toxicity during host-microbe interactions **Dianiris Luciano-Rosario** USDA-ARS

**700B** A tale of two Xylaria: exploring the genomic basis of opposing plant-fungal associations in shared hosts **Annabella Lyndon** Michigan State University

**701B** CBM18 at the fungal–Host interface in *Batrachochytrium dendrobatidis* **Qinxi Ma** University of Exeter

**702B** Decoding Phenazine Stress Responses in *Aspergillus calidoustus* During Protection by *Paraburkholderia edwinii* **Sonai Majhi** University of Georgia

**703B** A link between calcineurin and the amino acid permease, *BycA*, for virulence in *Mucor* **Gabriela Maldonado** Texas Tech University Health Science Center

**704B** The core and accessory gene repertoire of rust fungi (pucciniales): Genomic insights into their adaptive evolution **Francismar Marcelino-Guimarães** Brazilian Agricultural Research Corporation - Embrapa Soybean

**705B** Study of Virulence and Fungicide Resistance in *Fusarium oxysporum* f. sp. *mori* **Domingo Martinez Soto** Centro de Investigación Científica y de Educación Superior de Ensenada

**706B** Mariner-Based Transposon Mutagenesis Identifies *Paraburkholderia edwinii* Genes Required for Protecting *Aspergillus calidoustus* Under Phenazine Stress **Nathon McLaughlin** University of Georgia

**707B** A co-evolved peptide-GPCR system senses host entry to drive fungal infection **Cesar Gabriel Mendoza Rojas** Heinrich Heine University of Düsseldorf

**708B** An OMICS view of the interaction established between the commensal bacterium *Lactobacillus gasseri* and the pathogenic yeast *Candida glabrata* **Nuno Mira** Institute for Bioengineering and Biosciences, Instituto Superior Tecnico

**709B** Generalist pathogen *Botrytis cinerea* shows host-specific responses to closely related legumes **Anna Muhich** University of California, Davis

**710B** *Parastagonospora nodorum* necrotrophic effector SnTox267 targets a wheat susceptibility pathway to facilitate mesophyll colonization and drive in planta infection **Ashley Nelson** North Dakota State University

**711B** A candidate effector modulates virulence dependent on temperature and host phosphate status by regulating root colonization **Jacy Newfeld** The University of Tokyo

**712B** Copper homeostasis links plant colonization and trap formation in the nematode-trapping fungus *Arthrobotrys flagrans* **Rafael Palos Fernandez** Karlsruhe Institute of Technology

**713B** Understanding the mechanisms of antifungal response in an emerging fungal pathogen, *Basidiobolus* **Lauren Parry** Clark University

**714B** Metabolic plasticity and virulence of *Cryptococcus neoformans* are regulated by mitochondrial homeostasis **Jose Alberto Patino Medina** Johns Hopkins Bloomberg School of Public Health

**715B** Genetic Basis for a Bacterium Acting as a Toxin Sponge to Protect its Fungal Partner from Phenazines **Alyssia Gonzalez** University of Georgia

**716C** Kinase-regulated development of plant surface penetration structures in *B. cinerea* and *M. oryzae* **Frank Pieterse** Wageningen University & Research

**717C** Beyond Single-Pathogen Paradigms: A Meta-Pathogen Approach to Understanding Mycotoxin Production in Fusarium Head Blight **Nadia Ponts** INRAE

**718C** Rho-GDP dissociation inhibitor modulates aflatoxin biosynthesis and virulence in *Aspergillus flavus*. **Michael Price** Liberty University College of Osteopathic Medicine

**719C** Genomic, transcriptomic and molecular study of lichenization in the model lichen *Xanthoria parietina* **Camille Puginier** The Sainsbury Laboratory

**720C** Host-Fungal Interactions at the Base of Animal Evolution **Sarina Qin** University of California, Merced

**721C** Intracellular metabolism of the fungal pathogen *Histoplasma capsulatum* **Chad Rappleye** Ohio State University

**722C** Genome-wide association mapping study-based identification of a candidate effector region in *Cercospora soja* linked to Rcs2-mediated avirulence **Sydney Reeves** University of Tennessee, Knoxville

**723C** Investigating the role glutathione degradation by *Magnaporthe oryzae* during rice blast disease **Nisha Rokaya** University of Nebraska-Lincoln

**724C** Substantial overlap in virulence-related genes and traits across strains of two *Aspergillus* species with differing clinical relevance **Thomas Sauters** Vanderbilt University

**725C** Accessory gene cluster confers high copper tolerance in the cross-kingdom pathogen *Fusarium oxysporum* **Manuel Sánchez López-Berges** Universidad de Córdoba

**726C** Single-cell profiling reveals tissue-protective and IFN-gamma-driven hyperactivated neutrophils during *Pneumocystis pneumonia* **Steven Sayson** University of Cincinnati College of Medicine

**727C** Temperature-Driven Shifts in Cypress Immune Responses to *Seiridium cardinale* infections: Insights into Climate Change Scenarios **Edoardo Scali** UC Berkeley

**728C** Searching for virulence factors of the plant pathogen *Ascochyta rabiei* using *Agrobacterium tumefaciens*-mediated transformation **Jessica Schallon** Washington State University

**729C** Interactions of nematophagous fungi with *Steinernema* nematodes **Hillel Schwartz** Max Planck Institute for Biology

**730C** Host-pathogen interactions in an alternative model: elucidating *Candida albicans* virulence *in vivo* **Nora Shamooin** University of California, Merced

**731C** Fungal Mycobiome and Secondary Metabolites in Corn **Inisa Shrestha** Kansas State University

**732C** Functional Characterization of Pathogenicity Drivers in *Sphaerulina musiva* to Inform Split CRISPR-Cas9 Gene Drive Engineering **Joshua Sparks** Oakridge National Laboratory

**733C** *Cercospora cf. flagellaris* can infect *Nicotiana tabacum* and cause tobacco greenspot—a disease associated with latent *C. nicotianae* infections. **Kona Swift** University of Arkansas Division of Agriculture

**734C** Macrophage phagocytosis of *Coccidioides* promotes its differentiation into the parasitic form **Jane Symington** UCSF

**735C** Comparative transcriptomic analysis of *Microbotryum superbum* in pathogenic and endophytic lifestyle during infection of *Dianthus seguieri* plants **Derica Tavares** University of Louisville

**736C** Evidence that *Entomophthora muscae* controls the timing of host death via its own circadian clock **Leslie Torres Ulloa** Harvard University

**737C** Endolevanase: A Host-Specific Hidden Weapon of *Fusarium graminearum* Provoking Fusarium Head Blight in Wheat **Trang Tran-Minh** Ghent University

**738C** Exploiting FgGMTV1 for Biocontrol of Fusarium Head Blight in Wheat **Yi-Wen Tseng** Ohio State University

**739C** Epigenetic rewiring of the low-oxygen response by an Inhibitor of Growth (ING) family Protein drives *Aspergillus fumigatus* disease progression **Sandeep Vellanki** Geisel School of Medicine at Dartmouth

**740C** *Lichtheimia*: An Emerging Fungal Pathogen in Human Mucormycosis – Insights from Lung-on-Chip and Invertebrate Models **Kerstin Voigt** University of Jena

**741C** Botryozyma yeast, a sexually transmitted infection of Panagrellus redivivus nematodes **Jun Ting Wang** UC Berkeley

**742C** Mucoromycotina 'Fine Root Endophytes': a distinct mycorrhizal strategy in early-diverging fungal lineages **Alan Wanke** Sainsbury Laboratory

**743C** Bacterial partner protects *Aspergillus calidoustus* from Voriconazole **Lyric Wardlaw** University of Georgia

**744C** Identifying Antigen Targets for mRNA-LNP Vaccine Development Against *Cryptococcus neoformans* **Anuja Warriar** University of Georgia

**745C** Analyzing differences in codon usage patterns in *Rhizopus microsporus*, its bacterial endosymbiont *Mycetohabitans* sp., and the novel prophages residing in the bacterial genome **Caroline West** University of North Carolina Charlotte

**746C** Uncovering cell-specific responses of barley during *Magnaporthe oryzae* infection **Louisa Wirtz** RWTH Aachen University

**747C** Identification and characterization of core *Cercospora beticola* biotrophic effectors through pan-genomic analysis. **Nathan Wyatt** USDA-ARS

**748C** Identification of pathogenicity-related genes in *Fusarium oxysporum* f. sp. *lycopersici* using an accessory chromosome-deletion library constructed by CRISPR/Cas9 genome editing **Masaya Yamazaki** Tokyo University of Agriculture and Technology

**749C** Dissecting the *Candida albicans* and *Pseudomonas aeruginosa* relationship through diverse isolates. **Jenny Zhang** UC San Francisco

**750C** Among Us: Cheaters and transposons drive adaptations in experimental evolution of *Botrytis cinerea* **Suraj Hassan Muralidhar** Wageningen University and Research

**751C** Characterization of compounds that inhibit filamentation in the human fungal pathogen *Candida albicans* **Yaxin Guo** University of Toronto

**752C** Molecular Diagnostics for Rice Brown Spot: qPCR and LAMP Markers Targeting *Bipolaris oryzae* and *Nigrospora oryzae* **Sunmin An** Sunchon National University

**753C** Genetic and pathogenic diversity of *Cryptococcus gattii* **Qinxin Ma** University of Exeter

## Population Genomics

---

**754A** Genomic Insights into the Emergence of *Colletotrichum chrysophilum*: the Major Causal Agent of Apple Bitter Rot and Glomerella Leaf Spot **Riccardo Baroncelli** University of Bologna

**755A** What makes a fungal species? Investigating speciation concepts in the polymorphic tiger sawgill *Letninus tigrinus*. **Alexander Bradshaw** Clark University

**756A** Whole-genome sequencing reveals high gene flow between native and non-native Myrtales hosts of the *Eucalyptus* pathogen *Chrysosporthe austroafricana* **Callin Ceriani** University of Pretoria

**757A** Environmental Selection and Population Genomics of *Fusarium graminearum* Across Diverse Climatic Regions **Sumit Chowdhury** Kansas State University

**758A** Haplotype-Resolved Genomes Reveal Diversity at the Homeodomain Mating-Type Locus in *Rhizoctonia solani* AG1-IB **Jackson Cooper** Center for Integrated Fungal Research, Department of Entomology and Plant Pathology, North Carolina State University

**759A** Polygenetic Determinants of Azole Resistance, Tolerance, and Heteroresistance in *Candida albicans* **Iuliana Ene** Institut Pasteur

**760A** Population genomic diversity of VNI lineage of *Cryptococcus neoformans* from North Carolina **Erick Figueroa-Ildefonso** Duke University

**761B** Genome-Scale Insights into Diversity and Fungicide Resistance Potential of *Botrytis cinerea* Populations in California Nurseries **Sergio Gabriel Peralta** University of California, Davis

**762B** Genetic basis of variation in the level of mycotoxin production in *Fusarium graminearum* NA2 isolates **Sandhya Gopisetty** Kansas State University

**763B** Defining the *Candidozyma auris* pan-genome **Joseph Hale** University of Michigan

**764B** Genetic mechanisms and fitness consequences of rapid evolution in severe and complex heavy-metal environments with *Saccharomyces cerevisiae* **Penelope Kahn** University of Manitoba

**765B** Dosage-Dependent Genetic Architecture of Specialized Metabolite Resistance in *Botrytis cinerea* **Melanie Madrigal** Louisiana State University

**766B** Quantitative and evolutionary genetics of titan cell formation in *Cryptococcus neoformans* **Paul Magwene** Duke University

**767B** Host-specific isocyanide natural product diversification in the pathogenic mold *Fusarium sporotrichioides* **Livia Oster** University of Minnesota Twin Cities

**768B** Genomic insights into the reproductive biology and population diversity of *Xanthoportha myrticola* (Cryphonectriaceae), an emerging tree pathogen in South Africa **Nam Pham** University of Pretoria

**769C** Identifying the consequences of genomic content changes in *Cryptococcus neoformans*. **Claire Reichardt** University of Georgia

**770C** Genomics insights into the *Bipolaris gigantea* host range expansion from grasses to hemp **Flavia Rogerio** University of Florida

**771C** Evidence of Mixed Clonal and Recombining Reproduction in *Colletotrichum graminicola* in Europe **Flavia Rogerio** University of Florida

**772C** Population genomics of the laminated root rot fungus *Coniferiporia* **Lluvia Vargas** Oregon State University

**773C** Investigating genetic and molecular mechanisms of amphotericin B resistance in *Candida auris* **Dominique Walker** Brown University

**774C** New insights into genomic diversity and population structure of hybrid and rare lineages of *Cryptococcus neoformans* **Kayla Wilhoit** Duke University

**775C** Uncovering in-field dynamics, persistence and adaptation of a clonal *Ascochyta rabiei* population of chickpea using a novel molecular workflow **Hayley Wilson** Griffith University

**776C** BRC-Analytics.org: a platform for free, high performance fungal genomics analysis **Scott Cain** Penn State University

## Synthetic Biology

---

**777A** Exploring the biosynthetic potential of the leaf-cutter ant pathogen *Escovopsis weberi* using heterologous expression **Shumukh Alharthi** Swansea University

**778A** Towards synthetic biology in edible mushrooms: characterization of endogenous regulatory elements in the mushroom *Coprinopsis cinerea* **Peter Allen** Stanford University

**779A** Assessing Agricultural Waste Utilization by the Basidiomycete Fungus *Coprinopsis cinerea* **Jon Arizti Sanz** Stanford University

**780A** Nutrient-responsive metabolites and conserved biosynthetic capacity of *Hyaloscypha finlandica*, a prominent dark septate endophyte of poplar **Julian Cosner** Oak Ridge National Laboratory

**781A** Illuminating brown-rot genetics: An eGFP-based molecular toolbox for *Gloeophyllum trabeum* **Nandin Ganjooloo** University of Minnesota

**782B** Illuminating transcriptional dynamics underlying circadian clock regulation and photoentrainment. **Luis F. Larrondo** Pontificia Universidad Catolica de Chile

**783B** Development of a synthetic biology toolkit for heterologous gene expression in the oyster

mushroom, *Pleurotus ostreatus* **Panward Prasongpholchai** University of Warwick

**784B** AI-driven optimization of growth factor manufacturing from waste by *Aspergillus oryzae* **Ofer Prinz Setter** University of California, Berkeley

**785B** Deep homology and design of proteasome chaperone proteins in *Candida auris* **Jackson Rapala** University of Michigan

**786B** Development of genetic transformation and imaging techniques to gain a better understanding of how filamentous fungi internalize, transport, and transform critical minerals **Aaron Robinson** Los Alamos National Laboratory

**787C** Monitoring DNA transmission across fungal communities using RNA barcoding **Travis Seamons** Rice University

**788C** Investigating factors that govern heterologous gene expression in Agaricomycetes **Deniz Sinar** Stanford University

**789C** Production of gentisyl alcohol in *Yarrowia lipolytica* **Jens Sørensen** Aalborg University

**790C** Engineering *Trichoderma*-Based Biosentinels: Smart Systems to Detect, Remember, and Respond to Environmental Stressors **Joanna Tannous** Oak Ridge National Laboratory

**791C** Characterizing genetic parts in fungal mycelium using large particle flow cytometry **Bishal Thapa** Massachusetts Institute of Technology

**792C** A tunable and strict gene expression system with a high dynamic range in filamentous fungi **Masaki Yokoyama** Tohoku University

**793C** Fungarium Sequencing Project - Large-Scale Museomics and Whole-Genome Recovery from Historical Type Material **Mikele Baugh** Royal Botanic Gardens Kew

# US Biological

## Life Sciences

***"Committed to reducing the cost of research with value, integrity,  
and a truly personal buying experience"***

***Dear GSA Members,***

***United States Biological wants to thank you for the support over the past 28 years!***

***We started as a sourcing group under your early management team and soon became a valuable supplier to the GSA.***

***Starting with 5-Fluoroorotic Acid, XGal, IPTG, Bacti-Agar, YNB, Drop-out Media, we developed into a mainstream supplier to many of the GSA Labs around the world, shipping direct to all countries.***

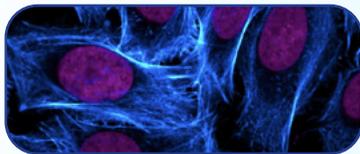
***Since those early years, we have greatly expanded and now supply over 1 Million research reagents in the categories of: Antibodies, Biochemicals, Cell Culture Media, ELISA Kits and Proteins (Native and Recombinant).***

***Our prices are specially reduced for GSA Members and we encourage suggestions where lower cost reagents are needed for common or uncommon reagents.***

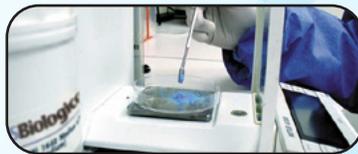
***We look forward to continuing our partnership with GSA and their members.***

***Regards,***

***Warren Shore  
President  
United States Biological***



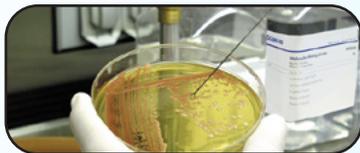
Antibodies



Biochemicals



Biologicals



Cell Culture Media



Molecular Biology



Kits & Assays

More information available at [www.usbio.net](http://www.usbio.net) or email us at [service@usbio.net](mailto:service@usbio.net)



# Yeast

Genetics Meeting

**JUNE 13-17, 2026 | PACIFIC GROVE, CA**



**Karen Arndt**

Lee Hartwell Lecture



**Phil Hieter**

Yeast Genetics Meeting Lifetime Achievement Award



**Soni Lacefield**

Ira Herskowitz Award



**Gavin Sherlock**

Winge-Lindegren Address

## IMPORTANT DATES

**March 5, 2026**

Abstract submission deadline

**April 16, 2026**

Early registration deadline

**April 22, 2026**

Housing deadline

## ABSTRACT TOPICS

- Disease models and aging
- Evolution and population genetics
- Gene regulation
- Genomics and systems biology
- Genome integrity
- Initiatives in education, pedagogy, engagement, and outreach
- Intra and inter cellular dynamics
- Life cycle (*NEW topic in 2026*)
- New technology and resources
- Synthetic biology and industrial yeasts (*NEW topic in 2026*)

## SCIENTIFIC ORGANIZERS

Vivien Measday, *Chair*

Grant Brown

Caiti Smukowski Heil

Joseph Schacherer



[genetics-gsa.org/yeast-2026](https://genetics-gsa.org/yeast-2026)



LODGING	MEETING ROOMS
Afterglow Rooms 1301-1312	Acacia B4
Breakers East Rooms 821-832	Chapel Auditorium D5
Breakers West Rooms 833-840	Curlew C4
Cypress Rooms 717-724	Dolphin C5
Deer Lodge Rooms 1121-1130	Evergreen F1
Director's Cottage	Fred Farr Forum E2
Embers Rooms 1313-1324	Heather C4
Engineer's Cottage	Kiln E2
Forest Lodge Rooms 1202-1211	Madrone G3
Guest Inn Rooms 901-903	Manzanita I & II B4
Hearth Rooms 1325-1336	Marlin D4
Live Oak Rooms 1101-1110	Merrill Hall G4
Lodge Rooms 201-218	Nautilus H4
Long View North Rooms 101-110	Oak Knoll I & II C4
Long View Middle Rooms 11-120	Oak Shelter F1
Long View South Rooms 121-130	Sanderling C6
Manzanita Rooms 1001-1012	Scripps D4
Oak Knoll Rooms 1013-1024	Surf & Sand G5
Pirates' Den Rooms 501-510	Toyon B4
Sand Rooms 605-610	Triton H4
Scripps Rooms 301-323	Willow I & II B4
Shores Rooms 709-716	Whitehead G3
Spindrift North Rooms 849-856	<b>OTHER</b>
Spindrift South Rooms 841-848	BBQ Area E6
Stuck-up Inn Rooms 401-414	Crocker Dining Hall F6
Surf Rooms 601-604	Fire Pits E6/H5
Tree Tops Rooms 111-120	Guest Check-In E5
Whitecaps North Rooms 809-820	Hearst Social Hall E5
Whitecaps South Rooms 801-808	Human Resources F1
Willow Inn Rooms 1025-1036	Meditation Space A3
Windward Rooms 701-708	Mott Training Center G2
Woodside Rooms 1212-1223	Park Ranger Office G1
	Park Store E5
	Phoebe's Café E5
	Seascape F6
	Swimming Pool A5
	Group Sales E4
	Viewpoint E4
	Volleyball Court H5
	Woodlands F5
	Yoga Room A3
	<b>PARKING LOTS</b>
	Parking Lot A E5
	Parking Lot B G5
	Parking Lot C H4
	Parking Lot D F2
	Parking Lot E E3
	Parking Lot F D4
	Parking Lot G D3
	Parking Lot H B3
	Parking Lot J A4
	Parking Lot K B4
	Parking Lot L B5
	Parking Lot M E2
	Parking Lot N H2
	Parking Lot P I3