Yeast Genetics Meeting

PROGRAM BOOK

June 13–17, 2026
Pacific Grove, CA | #Yeast26

GSA | GENETICS G3

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GSA is an international scientific society representing more than 4,000 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 for more information.

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.

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GALLO

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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 and is on your conference badge.

Wi-Fi Access

Guests of Asilomar will have complimentary Wi-Fi in their rooms as well as in the meeting rooms and Fireside Pavilion.

Network: Asilomar Conference

Password: conference2026 (all lower case)

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 Merrill Hall. 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 Merrill Hall during the hours noted below.

Saturday, June 13	4:00 p.m.–8:00 p.m.
Sunday, June 14	8:00 a.m.–5:00 p.m.
Monday, June 15	8:00 a.m.–5:00 p.m.
Tuesday, June 16	8:00 a.m.–2:00 p.m.

Oral Presentations/Speaker Ready Desk

All oral session speakers must go to the Speaker Ready Desk located in Merrill Hall the day before 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 at the podium. 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 Desk will be open during the hours noted below.

Saturday, June 13	4:00 p.m.–8:00 p.m.
Sunday, June 14	7:30 a.m.–5:00 p.m.
Monday, June 15	8:00 a.m.–5:00 p.m.
Tuesday, June 16	8:00 a.m.–5:00 p.m.

Poster Sessions

All posters will be displayed in the Fireside Pavilion located in the garage under Fred Farr Forum. Display your poster after 12:00 noon on Sunday, June 14. Posters must be removed by 7:00 p.m. on Tuesday, June 16. 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 schedule below.

Sunday, June 14	"A" posters present	
	7:00 p.m.–7:30 p.m.	Open viewing
	7:30 p.m.–8:30 p.m.	Odd-numbered poster presentations
	9:30 p.m.–10:30 p.m.	Even-numbered poster presentations
Monday, June 15	"B" posters present	
	7:00 p.m.–7:30 p.m.	Open viewing
	7:30 p.m.–8:30 p.m.	Odd-numbered poster presentations
	9:30 p.m.–10:30 p.m.	Even-numbered poster presentations
Tuesday, June 16	7:00 p.m.	Remove posters

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, located in the Fireside Pavilion.

Meals

Meals are not included in the registration fee. Guests staying at 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. 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. – 9:00 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 exhibitor partners. Be sure to visit these companies that have come to support your science and show you how they can help advance your research.

Community Engagement with Yeast
leahmarieanderson@gmail.com

Join us for an informal community engagement table highlighting outreach, education, and public-facing yeast science. Learn about yEvo and other initiatives connecting research with classrooms and communities. Share ideas and explore how we can expand the impact of yeast biology beyond the lab.

Saccharomyces Genome Database
sgd-helpdesk@lists.stanford.edu
https://www.yeastgenome.org/

The Saccharomyces Genome Database (SGD) provides comprehensive integrated biological information for the budding yeast Saccharomyces cerevisiae along with search and analysis tools to explore these data, enabling the discovery of functional relationships between sequence and gene products in fungi and higher organisms.

Sunrise Science
lkylin@sunrisescience.com
https://sunrisescience.com/

Sunrise Science Products consistently creates hundreds of specialty growth media formulations. We are grateful for our loyal customers around the world working with S. cerevisiae, S. pombe, P. pastoris, and other organisms in the research, brewing, and biofuel industries. We promise you'll love working with us!

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. Please email Tracey DePellegrin, GSA Executive Director, at 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 or an 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. 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 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 their 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

Yeast 2026 welcomes attendees with children!

Children are allowed in plenary, workshop, 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 (PDT)

Saturday, June 13, 2026		
1:00 p.m. – 2:00 p.m.	Conference Success Tips and Welcome from GSA Engagement	Fred Farr Forum
2:30 p.m. – 3:00 p.m.	Getting involved in GSA's Early Career Professional Development	Fred Farr Forum
3:30 p.m. – 4:30 p.m.	Individual Development Plan (IDP) and Career Exploration Workshop	Fred Farr Forum
4:00 p.m. – 8:00 p.m.	Speaker Ready Room	Merrill Hall
4:00 p.m. – 8:00 p.m.	Registration	Merrill Hall
6:00 p.m. – 7:00 p.m.	Dinner	Crocker Dining Hall
7:30 p.m. – 9:15 p.m.	Welcome and Opening Plenary	Merrill Hall
9:00 p.m. – 10:30 p.m.	Opening Social	Merrill Hall
Sunday, June 14, 2026		
7:30 a.m. – 5:00 p.m.	Speaker Ready Room	Merrill Hall
7:30 a.m. – 8:00 a.m.	Netwalking	
8:00 a.m. – 5:00 p.m.	Registration	Merrill Hall
8:30 a.m. – 10:00 a.m.	Genome Integrity 1	Merrill Hall
10:30 a.m. – 12:00 p.m.	Gene Regulation 1	Merrill Hall
12:00 p.m. – 1:00 p.m.	Lunch	Crocker Dining Hall
2:00 p.m. – 3:30 p.m.	Intra and Inter Cellular Dynamics	Merrill Hall
4:00 p.m. – 5:30 p.m.	Evolution and Population Genetics 1	Merrill Hall
6:00 p.m. – 7:00 p.m.	Dinner	Crocker Dining Hall
7:00 p.m. – 10:30 p.m.	Poster Session 1 and Exhibits	Fireside Pavilion
7:00 p.m. – 10:00 p.m.	GSA Headshot Photographer	Fireside Pavilion
Monday, June 15, 2026		
7:30 a.m. – 8:00 a.m.	Netwalking	
8:00 a.m. – 5:00 p.m.	Speaker Ready Room	Merrill Hall
8:00 a.m. – 5:00 p.m.	Registration	Merrill Hall
8:30 a.m. – 10:00 a.m.	Genomics and Systems Biology	Merrill Hall
10:30 a.m. – 12:00 p.m.	Genome Integrity 2	Merrill Hall
12:00 p.m. – 1:00 p.m.	Lunch	Crocker Dining Hall
2:00 p.m. – 3:00 p.m.	Cultivating Culture: The Strength of Sustained Mentorship	Merrill Hall
	Workshops	
3:30 p.m. – 5:30 p.m.	Teaching with Purpose: Implementing the New Genetics Learning Outcomes	Fred Farr Forum
3:30 p.m. – 5:30 p.m.	Unlocking Yeast Biology with SGD: Tools, Data, and Discovery	Merrill Hall
6:00 p.m. – 7:00 p.m.	Dinner	Crocker Dining Hall
7:00 p.m. – 10:30 p.m.	Poster Session and Exhibits	Fireside Pavilion

Tuesday, June 16, 2026		
7:30 a.m. – 8:00 a.m.	Netwalking	
8:00 a.m. – 5:00 p.m.	Speaker Ready Room	Merrill Hall
8:00 a.m. – 2:00 p.m.	Registration	Merrill Hall
8:30 a.m. – 10:00 a.m.	Gene Regulation 2	Merrill Hall
10:30 a.m. – 12:00 p.m.	Disease Models and Aging	Merrill Hall
12:00 p.m. – 1:00 p.m.	Lunch	Crocker Dining Hall
1:30 p.m. – 3:15 p.m.	New Technology and Synthetic Biology	Merrill Hall
3:45 p.m. – 5:30 p.m.	Life Cycle	Merrill Hall
6:00 p.m. – 7:00 p.m.	Dinner	Crocker Dining Hall
7:30 p.m. – 8:45 p.m.	Awards and Special Presentations	Merrill Hall
8:45 p.m. – 10:00 p.m.	Closing Social	Fire Pit
Wednesday, June 17, 2026		
8:30 a.m. – 10:00 a.m.	Evolution and Population Genetics 2	Merrill Hall

Saturday, June 13, 2026

1:00 p.m. – 2:00 p.m.
Fred Farr Forum

Conference Success Tips and Welcome from GSA Engagement

This event helps 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.
Fred Farr Forum
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.
Fred Farr Forum
Individual Development Plan (IDP) and Career Exploration Workshop
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.

Saturday, June 13, 2026

7:30 p.m. – 9:15 p.m.
Merrill Hall

Welcome and Opening Plenary
Session Chair: Vivien Measday, University of British Columbia, Canada

7:30 GSA Welcome **Brenda Andrews** University of Toronto

7:37 Organizer Welcome **Vivien Measday**

1 7:45 Living with a killer: how coevolved *Saccharomyces cerevisiae* become killer toxin resistant **Michelle Hays** University of Michigan

2 8:00 Spt5's central KOW domains and the Pol II Stalk Collaborate to Regulate Chromatin and 3'-End Processing **Zach Morton** University of California, Berkeley

3 8:15 Global analysis of genetic suppression of partial loss-of-function alleles **Sabine van Schie** University of Massachusetts Chan Medical School

8:30 Introduction of Winge-Lindegren Address **Maitreya Dunham**

8:32 Winge-Lindegren Address **Gavin Sherlock** Stanford University

9:00 What the Bot Built: Celebrating David Botstein **David Gresham**

Sunday, June 14, 2026

8:30 a.m. – 10:00 a.m.
Merrill Hall

Genome Integrity 1
Session Chairs: Eric Alani, Cornell University; and Sally Pasion, San Francisco State University

4 8:30 How the N terminal, unstructured region of a synaptonemal complex protein couples two hallmark features of meiosis **Amy MacQueen** Wesleyan University

5 8:45 SUMO Augments the Meiotic DNA Damage Response **Neil Hunter** University of California, Davis

6 9:00 Optimized yeast-based assay system to study meiotic/germ cell recurrent copy number variation **Ruth Watson** Colorado State University

7 9:15 Genome mutagenesis by Rad5 variants in *S. cerevisiae* **Kate Jiang** University of Toronto

8 9:30 Incompatibilities between*MLH1*and*PMS1* affect DNA mismatch repair function and are suppressed by a network of co-evolving polymorphisms **Isaac Chizhik** Cornell University

9 9:45 Impacts of Replication-Coupled Chromatin Assembly Pathways on DNA Replication. **Ann Kirchmaier** Purdue University

10:00 GSA Journals Update **Lauren McIntyre**

Sunday, June 14, 2026

10:30 a.m. – 12:00 p.m.
Merrill Hall

Gene Regulation 1
Session Chairs: Jen Gallagher, West Virginia University; and Meru Sadhu, NIH

10 10:30 Primed to Burst: Corepressors Coordinate Transcriptional Activation and Efficient Switching Between Cell States **Alexander Leydon** University of Washington
11 10:45 Com
binatorial control of RNA polymerase II transcript synthesis by yeast nuclear RNA-binding proteins **David Brow** University of Wisconsin School of Medicine and Public Health

12 11:00 Widespread regulatory divergence but stable expression in interspecific yeast **Danithza Rojas** Lehigh University

13 11:15 Comprehensive mapping of mitochondrial tRNA modifications and modeling of a mitochondrial disease-associated mutation in an RNA modifying enzyme **David Garcia** University of Oregon, Institute of Molecular Biology

11:30 Lee Hartwell Lecture Introduction **Fred Winston**

11:35 Lee Hartwell Lecture **Karen Arndt** University of Pittsburgh

Sunday, June 14, 2026

2:00 p.m. – 3:30 p.m.
Merrill Hall

Intra and Inter Cellular Dynamics
Session Chairs: Richa Sardana, Cornell University; and Kai Zhou, Buck Institute for Research on Aging

14 2:00 Too much of a good thing: How α-arrestins help cells survive amino acid overload **Allyson ODonnell** University of Pittsburgh

15 2:15 Dynamic Reciprocal HXK2-PGI1 and HXK2-G6PDH Multienzyme Complexes Formation is associated with flux changes in Yeast metabolism **Taiwo Dele-Osibanjo** University of Nebraska-Lincoln

16 2:30 Proteome Dynamics in Desiccation and Rehydration **Sheila Ferer** California State University Channel Islands

17 2:45 Cell Wall Integrity pathway maintains cell size, cytoplasmic concentration and cell fate **Amy Ikui** Brooklyn College

18 3:00 Evolutionary rewiring of a conserved cell cycle pathway between *Saccharomyces cerevisiae* and the fungal pathogen *Cryptococcus neoformans*. **Taylor Wang** New York University

19 3:15 Self-propelled collective migration in yeast **Megan Halfmann** Stowers Institute for Medical Research

Sunday, June 14, 2026

4:00 p.m. – 5:30 p.m.
Merrill Hall

Evolution and Population Genetics 1
Session Chairs: David Gresham, New York University; and Helen Murphy, William and Mary

20 4:00 The genetic basis of hybrid fitness in fermentation environments **Caiti Smukowski Heil** North Carolina State University

21 4:15 Massively parallel interrogation of the fitness of natural variants in ancient signaling pathways reveals pervasive local adaptation **Jose Aguilar-Rodriguez** Stanford University

22 4:30 Adaptive variation in mutagenesis driven by protein self-assembly **Alexandria Van Elgort** Stanford University

23 4:45 From retrotransposon to centromere: Ancient co-option and contemporary centromere birth **Max Haase** Max Planck Institute of Molecular Physiology

24 5:00 Single-cell eQTL Mapping Reveals Environment-dependent Genetic Regulation **Akriti Agrawal** New York University

25 5:15 One-trick versus keystone gene families: genomic and metabolic lessons from more than 400 million years of yeast evolution **Chris Hittinger** University of Wisconsin-Madison

Monday, June 15, 2026

8:30 a.m. – 10:00 a.m.
Merrill Hall

Genomics and Systems Biology
Session Chairs: Elena Kuzmin, Centre for Applied Synthetic Biology, Concordia University, Canada; and Sabine van Schie, University of Massachusetts Chan Medical School

26 8:30 The CellMap 2.0: An integrated model of yeast gene function **Duncan Forster** University of Toronto

27 8:45 Taming wild genetic variation to learn a proteomic blueprint of the yeast cell **Christopher Jakobson** Stanford University School of Medicine

28 9:00 Conditional genetic interaction analysis uncovers the metabolic landscape of WGD paralogs **Brittany Greco** Concordia University

29 9:15 The proportional scaling of mRNA and ribosome concentrations controls eukaryotic cell growth **Xin Gao** Stanford University

30 9:30 The molecular determinants of Ty1 retrotransposon restriction specificity in budding yeast **Sean Beckwith** Hope College

31 9:45 Systematic genetic characterization of the human PKR kinase domain highlights its functional malleability to escape viral pseudosubstrate mimics **Meru Sadhu** NHGRI/NIH

Monday, June 15, 2026

10:30 a.m. – 12:00 p.m.
Merrill Hall

Genome Integrity 2
Session Chairs: Ann Kirchmaier, Purdue University; and Amy MacQueen, Wesleyan University

32 10:30 The yeast RECQL4 homolog Hrq1 is a novel RNA polymerase III inhibitor **Matthew Bochman** Indiana University

33 10:45 Elevated and skewed dNTP pools alters replication fork progression and Okazaki fragment processing **Jennifer Surtees** University at Buffalo

34 11:00 Spontaneous un-selected mutation patterns in *Candida albicans* reveal the relative stability of alternative ploidy states **Nathaniel Sharp** University of Wisconsin-Madison

35 11:15 Human Oncogenic Transcription Factor MITF Induces Centromeric Transcription and Adaptive Aneuploidy in *Saccharomyces cerevisiae* **Gudjon Olafsson** University of Iceland

11:30 YGM Lifetime Achievement Award Introduction **Mark Johnston**

11:35 YGM Lifetime Achievement Award **Phil Hieter** University of British Columbia

Monday, June 15, 2026

2:00 p.m. – 3:00 p.m.
Merrill Hall

Cultivating Culture: The Strength of Sustained Mentorship
Session Chair: Aparna Sreenivasa, California State University, Monterey Bay

Come and hear early, mid, and late career scientists discuss the importance of sustained mentoring throughout STEM careers. There will be live data collection where the group generates and ranks the most important mentoring needs for our Yeast community. We will wrap up with a Q&A. The speakers will address the following questions:

What does mentoring mean to you? How can good mentoring help create a robust culture within our community of scientists?

Speakers:
Needhi Bhalla, University of California, Santa Cruz
DeVant'e Dawson, San Jose State
Leah Anderson, University of Washington, Seattle

Monday, June 15, 2026

3:30 p.m. – 5:30 p.m.
Fred Farr Forum

Teaching with Purpose: Implementing the New Genetics Learning Outcomes

This interactive workshop will help faculty understand and apply the newly updated Genetics Learning Framework in their courses. Participants will be introduced to this resource, engage in
collaborative activities to align course content, develop ideas for applications, and share teaching strategies. The session will support faculty from diverse institutions and educational contexts in translating the learning objectives into meaningful classroom practice. Guided questions will structure discussion around what areas of genetics are the most important to a particular course context, how the framing of genetics concepts impacts students' identities and views on topics of societal significance, and more.

Monday, June 15, 2026

3:30 p.m. – 5:30 p.m.
Merrill Hall

Unlocking Yeast Biology with SGD: Tools, Data, and Discovery
Learn how to leverage the Saccharomyces Genome Database (SGD) to accelerate your research. This workshop will highlight key tools, curated datasets, and practical strategies for exploring gene function, pathways, and genomic data in Saccharomyces cerevisiae.

Tuesday, June 16, 2026

8:30 a.m. – 10:00 a.m.
Merrill Hall

Gene Regulation 2
Session Chairs: Karen Arndt, University of Pittsburgh; and David Brow, University of Wisconsin-Madison

36 8:30 Gene expression noise evolves more slowly and by different molecular mechanisms than gene expression in a model eukaryotic genus **Brian Metzger** Purdue University

37 8:45 Noncanonical G-Quadruplex DNA Binds and Modulates Zinc Finger Transcription Factor in *Saccharomyces cerevisiae.* **Meenu Sharma** The University of Texas at Austin

38 9:00 Elp1 regulates heterochromatin independently of its canonical role in tRNA modification **Tommy Vo** Michigan State University

39 9:15 Kar4 acts as a Ste12 regulator in *Saccharomyces cerevisiae*, promoting Ste12 binding to a specific DNA motif genome-wide **Jason Rogers** National Institute of Diabetes and Digestive and Kidney Diseases, NIH

40 9:30 Repurposing Set1 to accommodate cellular response to nutrient depletion **Michael Law** Stockton University

41 9:45 HMG-box protein Hmo1 inhibits transcriptional silencing in yeast cells and is antagonized by linker histone H1 **Scott Holmes** Wesleyan University

Tuesday, June 16, 2026

10:30 a.m. –12:00 p.m.
Merrill Hall

Disease Models and Aging
Session Chairs: Dan Gottschling, Calico Life Sciences; and Allyson O'Donnell University of Pittsburgh

42 10:30 Cystinosin/Ers1 functions in redox homeostasis in the early secretory pathway **Richa Sardana** Cornell University

43 10:45 Evolutionary rescue of human disease mutations **Brooke Dubyna** Lehigh University

44 11:00 The Single-Cell Spatiotemporal Proteome of Aging Reveals Structural Determinants of Age-Sensitive Proteome and Uncovers Molecular Interconnectivity among Hallmarks of Aging **Kai Zhou** Buck Institute for Research on Aging

45 11:15 How do budding yeast die? A single-cell map of cellular dysfunctions **Kiyan Shabestary** Calico Life Sciences

46 11:30 Distinct amyloid structures formed for yeast prion [PSI+] while maturation in vivo **Wenjuan Zhang** UCL Institute of Prion Diseases

47 11:45 Conserved arginine methyltransferase Hmt1 drives α-synuclein aggregate dissolution through a catalysis-independent pathway **Purusharth Rajyaguru** Indian Institute of Science

Tuesday, June 16, 2026

1:30 p.m. – 3:15 p.m.
Merrill Hall

New Technology and Synthetic Biology
Session Chairs: Brenda Andrews, University of Toronto, Canada; and Frederick Roth, University of Pittsburgh

48 1:30 Dissecting the functional consequences of missense mutations **Michelle Conti** University of Massachusetts Chan Medical School

49 1:45 Genome-wide base editor screening identifies thousands of functional variants in yeast **James Boocock** University of California, Los Angeles

50 2:00 Chemogenomic profiling of diverse *Saccharomyces cerevisiae* strains using BarMix: a novel CRISPR-Cas9 marker-less barcoded library **Jackson Moore** University of British Columbia

51 2:15 The rise and fall of brewing yeasts: Harnessing experimental evolution to select for increased flocculation **Barbara Dunn** University of Washington

52 2:30 Generation of an isobutanol biosynthesis pathway library in *Saccharomyces cerevisiae* using LoxP–Cre recombination **Susana Calle Castaneda** University of Wisconsin – Madison

53 2:45 Synonymous recoding enables one-step whole chromosome assembly and substitution in yeast **Ian M. Ehrenreich** University of SC

54 3:00 Synthetic Genome Expansion Reveals Physiological Consequences of Non-coding DNA **Ning Lu** Stanford University

Tuesday, June 16, 2026

3:45 p.m. – 5:30 p.m.
Merrill Hall

Life Cycle
Session Chairs: Amy Ikui, City University of New York; and Anuj Kumar, University of Michigan

55 3:45 Determining how the cell cycle regulator Bck2 controls cell size **Shifu Wu** Stanford University

56 4:00 Control of cell growth and size by protein phosphatases **Robert Hays** University of California, Santa Cruz

57 4:15 Adaptive control of TORC1 signaling during nitrogen limitation by Ait1 and the vacuolar transporter Vsb1 **Andrew Capaldi** University of Arizona

58 4:30 Translational control of CAK and Cdk T-loop phosphorylation in response to growth in yeast **Michael Polymenis** Texas A&M University

59 4:45 The importance of regulated resource reallocation during dynamic environmental shifts in yeast **Rachel Kocik** University of Wisconsin, Madison

60 5:00 Analysis of essential proteins in yeast filamentous growth identifies the WASP homolog Las17 as a regulator of the Cdc42-dependent fMAPK pathway **Paul Cullen** State University of New York

61 5:15 Regulation of spindle disassembly in meiosis II **Linda Huang** University of Massachusetts Boston

Tuesday, June 16, 2026

7:30 p.m. – 8:45 p.m.
Merrill Hall

Awards and Special Presentations

7:30 GSA Student Poster Awards

7:45 Ira Herskowitz Award Lecture Introduction **Grant Brown** University of Toronto, Canada

7:47 Ira Herskowitz Award Lecture **Soni Lacefield** Dartmouth University

8:15 GSA Medal Introduction **Brenda Andrews** University of Toronto

8:15 GSA Medal Presentation **Joseph Schacherer** University of Strasbourg, France

Wednesday, June 17, 2026

8:30 a.m. – 10:00 a.m.
Merrill Hall

Evolution and Population Genetics 2
Session Chairs: Maitreya Dunham, University of Washington, Seattle; and Gregory Lang, Lehigh University

62 8:30 Fitness Landscapes Reveal Modular Phenotypes in Yeast Drug Resistance Evolution **Kerry Geiler-Samerotte** Arizona State University

63 8:45 The Hidden Life of Yeast Viruses **Mengxi Tan** University of Toronto

64 9:00 Synthetic Interspecies Hybrid Chromosomes Reveal Unexpected Phenotypes Due to Higher-Order Epistasis **Christopher Ne Ville** University of Southern California

65 9:15 Epistasis between gene expression noise and functional mutations shapes cellular fitness **Wei-Han Lin** Institute of Molecular Biology, Academia Sinica

66 9:30 Gene duplications, molecular degeneracy, and diversification in the evolution of an essential metabolic step **Mo Siddiq** University of Utah

67 9:45 The link between virulence, amoeba predation, and multicellularity in yeast **Helen Murphy** William and Mary

Poster Presentations

Disease Models and Aging

68A Exploring Coronavirus Host Range by Deep Homolog Scanning of ACE2 **Mudabir Abdullah** National Human Genome Research Institute, NIH

69A The RCDosome: How Cyclin C Drives Regulated Cell Death in Yeast **Justin Bauer** Rowan Virtua School of Translational Biomedical Engineering & Sciences

70A Human mixed myopathy causing point mutations completely block Hsp104-mediated yeast prion elimination when made in the yeast J-domain protein Sis1 **Lauren Davidson** Lafayette College

71A A transiently heritable functional prion is formed under microtubule stress conditions in *Saccharomyces cerevisiae*. **Irina Derkatch** University of Nevada, Reno

72A Investigating spatial dynamics of sHSPs in chronologically aging yeast **Daniel Escobar-Osorio** University of Texas Health Houston

73A Amino Acid-Dependent Modulation of Replicative Lifespan and Distinct Aging Trajectories in Saccharomyces cerevisiae **Dan Gottschling** Calico Life Sciences LLC

74A Modulation of purine metabolism by solute carrier Tpo1 alters anticancer ruthenium complex resistance in yeast **Pamela Hanson** University of Alabama at Birmingham

75A Beyond glycolysis: 2-deoxyglucose depletes amino acids through α-arrestin-dependent transporter endocytosis **Jillian Herr** University of Pittsburgh

76B The Canadian Rare Diseases Models and Mechanisms (RDMM) Network: Connecting novel disease gene discoveries to functional characterization research in model

organisms **Philip Hieter** University of British Columbia

77B CTG clade-specific proteins of the *Candida albicans* RSC chromatin-remodeling complex possess the potential as novel physiological targets **Ankita Joshi** Indian Institute of Technology Bombay

78B A Yeast Model for the Functional Analysis of SRP54 Mutations Associated with Severe Congenital Neutropenia **lawton long** University of Florida

79B Mitochondria-lysosome coupling contributes to lysosome acidification and aging **Jingjing Luo** Buck Institute for Research on Aging

80B Characterization of genetic mechanisms of antifungal peptide drug resistance in *Candida glabrata* **Ishani Paithankar** University of Arkansas

81B Environment-dependent landscapes of coding variant impacts on coproporphyrinogen oxidase **Frederick Roth** University of Pittsburgh

Evolution and Population Genetics

82A *MMS21* allele incompatibility in *Saccharomyces* species **Nasima Akhter** University of Rochester

83A Classroom experimental evolution reveals loss of paralog redundancy as a common mechanism of echinocandin resistance **Leah Anderson** University of Washington

84A How Do Population Size Differences Shape Genome Evolution over 7,500 Generations from SNPs to Karyotypes? Microscopic vs. Macroscopic Multicellularity in Yeast **Luis Felipe Cedeno Perez** Georgia Institute of Technology

85A Environmental dependency of *de novo* gene evolution in yeast *Saccharomyces cerevisiae* **Lin Chou** University of Pittsburgh

86A The Extent of Genetic Incompatibilities Between Distantly Related Yeast Species **Aalexandra H Christensen** University of Southern California

87A Evolutionary adaptation proceeds through a small number of phenotypic modules **Mohammad Hossein Donyavi** Arizona State University

88A Recreating the b-h fusion of SAR lineage in budding yeast restores function of native subunits in ATP synthase. **Haley Heath** ASU

89A Mapping history dependence along evolutionary trajectories **Caroline Holmes** Harvard University

90A High-throughput technique to assay mutation spectra in S. *cerevisiae* natural isolates **Valeria Icaza** Arizona State University

91B Gastrointestinal evolution of *Saccharomyces 'boulardii'* probiotic yeast in germ free mouse model **Alexandra Imre** North Carolina State University

92B Yeast 'survivor' game: predicting long-term evolutionary success from short-term fitness **Alexandra Khristich** Stanford University

93B Apoptosis upon diverse cellular stresses in yeast **Darren Lam** Stanford University

94B Identifying key residues which determine receptor use of human alphacoronaviruses 229E and NL63 using chimeric spike proteins **Izabella Mastroianni** National Institutes of Health

95B Low-fitness yeast benefit from mutation accumulation in some environments **Joseph Matheson** University of California San Diego

96B A physiological basis for history-dependent fitness effects in natural *S. cerevisiae* isolates **Shaili Mathur** Stanford University

97B The Role of Structural Variants in Domestication of *Saccharomyces cerevisiae* to Baking Environments **Manav Rohilla** North Carolina State University

98B The path of yeast resistance: drug resistance via aneuploidy in Saccharomyces cerevisiae **Saaz Sakrikar** New York University

99B Resolving the aneuploidy paradox by experimental evolution **Jiaxing Yue** Sun Yat-sen University Cancer Center

100B The Hidden Life of Yeast Viruses **Mengxi Tan** University of Toronto

Gene Regulation

101A Exploring the Impact of H2A.Z Depletion on Transcription Regulation **Eully Ao** University of British Columbia

102A Investigating a prion-like form of the mRNA cap methyltransferase **Preeti Bhattacharjee** University of Oregon

103A Translational control of CAK and Cdk T-loop phosphorylation in response to growth in yeast **Heidi Blank** Texas A&M University

104A A role for the RNAPII phosphatase, Fcp1, in regulating Rpb1 protein levels **Hilary Brewis** University of British Columbia

105A Regulation of the conserved TATA-Binding Protein-Associated Factor 2 abundance by the Ubiquitin-Proteasome System **Jannatul Ferdoush** University of TN at Chattanooga

106A Regulatory control of the yeast homolog of human gene defective in the juvenile form of Batten disease **Samuel Gatesy** Rosalind Franklin University of Medicine and Science

107B Deriving functional insights into RNA polymerase II transcription elongation through evolutionary analyses and suppressor genetics **Aakash Grover** University of Pittsburgh

108B Mapping MATalpha1 transcription factor residues that determine binding site **Emily Knisely-Durham** National Institutes of Health

109B Genetic Regulation of a Novel Interspecies Interaction Between *Candida albicans* and Anaerobic Bacteria **Pegah Mosharaf Ghahfarokhy** University of California, Merced

110B *CLN3* Translational Efficiency and Global Protein Synthesis During the Yeast Cell Cycle **Eun-Gyu No** Texas A&M University

111B Unraveling the distinct roles of the alpha-like subunits in RNA polymerase I and III complex biogenesis **Onyinyechi Onuoha** SUNY Upstate Medical University

112B Investigating the mechanisms of replication-independent histone turnover in budding yeast **Courtney Smith** Pennsylvania State University

113B The contribution of aneuploid-associated RNA post-transcriptional modification to drug resistance **Adam Taheraly** Cornell University

Genomics and Systems Biology

114A Sequence features of a prion-like domain impact Ty1 retrotransposition in budding yeast **Awesome Abraham** Hope College

115A Gene Ontology Annotations: Bridging Experimental Data and Functional Knowledge **Suzanne Aleksander** Stanford University

116A Studying the interaction of Pyrin domain homologs and YopM using protein fragment complementation assay **Fereshteh Azadeh** National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH)

117A Pomegranate Juice as a Longevity Mimetic: Insights into Metabolic Reprogramming and Mitochondrial Remodelling in *Saccharomyces cerevisiae* NCYC79 **Myla Bell** Albany State University

118A Wild yeast deletion collections and the genetic background effect on genetic networks **Charlie Boone** University of Toronto, Canada

119A Systematic comparison of transcription factor binding locations and perturbation responses **Michael Brent** Washington University

120A Genetic mapping identifies loci that affect survival during antifungal treatment in *S. cerevisiae* **Giancarlo Bruni** University of California Los Angeles

121A Sensitivity analysis of GRNmap and new features for GRNsight: open source software for dynamical systems modeling and visualization of small-scale gene regulatory networks in yeast **Kam Dahlquist** Loyola Marymount University

122A The *Saccharomyces cerevisiae* pan genome: an approach **Fred Dietrich** Duke University

123B Functional Synergy Partially Explains Why Most Transcription Factor Binding is Non-functional. **Zolboo Erdenebaatar** Washington University

124B Metabolic Regulation of TORC1 During Amino Acid Starvation **Jennifer Gallagher** West Virginia University

125B Uncovering the Basis of Killer Toxin Resistance in *Saccharomyces cerevisiae* **Padraic Heneghan** National Institutes of Health

126B A global map of functional module crosstalk in the yeast genetic interaction network **Ira Horecka** University of Toronto

127B Elucidating the molecular grammar of a retrotransposon prion-like domain in budding yeast **Alexa MacKersie** Hope College

128B The effects of genetic variation on metal resistance and differential sorption distribution in yeast. **Luis Martinez** West Virginia University

129B Development of a high-throughput genome-wide method to assess Ty1 retrotransposon insertion upstream of tRNA genes in *Saccharomyces cerevisiae* **Rutuja Pattanshetti** University of British Columbia

130B Sequence constraints on the Ty1 retrotransposon in the budding yeast *Saccharomyces cerevisiae* **Mackenzie Streeter** Hope College

131B High-throughput Screening of Putative Anti-CRISPR Proteins against SpyCas9 and SauCas9 in Yeast **Dinie Zheng** NHGRI/NIH

Genome Integrity

132A Single Cell Analysis of Rejection of Homologous Recombination Intermediates during Single Strand Annealing **Eric Alani** Cornell University

133A Defining and mapping the mutagenic effects of the cytidine deaminase APOBEC3C **Shamitha Aravind** University of Toronto

134A Investigating the origin and nature of half-crossover cascades in *Saccharomyces cerevisiae* **Juan Lucas Argueso** Colorado State University

135A Live Cell Imaging of Meiotic Homolog Pairing in Polyploid Yeast **David Bai** University of Massachusetts Amherst

136A Global licensing of meiotic recombination by a threshold mechanism **Regina Bohn** University of California, Davis

137A The evolution of genome instability in wild and clinical isolates of Baker's Yeast **Angel Escamilla** Cornell University

138A Yeast ORFan interactions with RNA-processing protein Npl3 and telomere maintenance **Maria-Lainie Galdo** Saint Joseph's University

139A Evaluating genome instability caused by cancer-associated mutations in the mismatch repair gene *MSH3* **Jane Kim** California State University San Marcos

140B Investigating the role of Rad1 in facilitating the initiation half-crossover cascades in *Saccharomyces cerevisiae* **Via Lawson** Colorado State University

141B Investigating the Role of SAW1 in DNA Repair Pathways in Saccharomyces cerevisiae **Kaden Lewis** University at Buffalo

143B Mutations in orc subunits and tfiia suppress the lethal phenotype of an orc atpase mutation **Luis Martinez** Massachusetts Institute of Technology

144B *Schizosaccharomyces octosporus* Cdc24 complements *Schizosaccharomyces pombe cdc24* mutant **Sally Pasion** San Francisco State University

145B The role of chromatin remodeling complexes in ploidy maintenance and genome integrity **Ines Pinto** University of Arkansas

146B To transpose or not to transpose, that is the question: the role of nitrogen in host susceptibility to Ty retrotransposition **Katja Schwartz** Stanford University

147B Ligase-dependent and independent functions of the C-terminus of Mms21 contribute to optimal growth and genome stability in *Saccharomyces cerevisiae* **Yee Mon Thu** Colby College

148B Kinetochore-microtubule attachments are strengthened by CENP-T stabilization of Stu2 at kinetochores **Nairita Maitra** Fred Hutch Cancer Center

149B Dissecting the molecular mechanisms controlling telomere-length homeostasis in *S. cerevisiae* **David Zappulla** Lehigh University

Initiatives in Education, Pedagogy, Engagement and Outreach

150A Identifying Wolbachia Effector Genes in Yeast **Grant Hartzog** University of California, Santa Cruz

151A Using Educational Outreach to Discover Multiple Genetic Pathways Towards Fungal Adhesion **Sarah Heater** University of Washington

152B Educational Resources Hosted at the *Saccharomyces* Genome Database **Rob Nash** Stanford University

153B BUDDY: A Web Platform for Student-Led Inquiry and Functional Modeling of Human Clinical Variants in *Saccharomyces cerevisiae* **Brian Wasko** Western University of Health Sciences

Intra and Inter Cellular Dynamics

154A Glycolytic inhibitors converge on α-arrestin-dependent glucose transporter endocytosis **Emma Bocquillon** University of Pittsburgh

155A An INQuisitive study of Cellular Sequestration: The role of HSP42 in Nuclear Aggregate Formation **Ryan Campbell** University of British Colombia

156A Multi-omic investigations into isobutanol stress in *Saccharomyces cerevisiae* **Samuel Davison** University of Wisconsin-Madison

157A The E2 ubiquitin conjugase Rad6 regulates energy homeostasis in yeast **Clara dos Santos** Duke University

158A Redox regulation of spatial dynamics and assembly of the sequestrase Hsp42 in yeast **Long Duy Duong** The University of Texas Health Science Center at Houston

159A Allocation of transcriptional and translational capacity **Jen Gallagher** West Virginia University

160A Atg41 and the chromatin remodeling complex RSC are essential for ribophaghy in S. cerevisiae **Chhabi Govind** Oakland University

161A Histone H3K4 Methylation Gates PP2A Signaling to Regulate ER Redox Adaptation During Oxidative Folding Stress **Cheng-Fu Kao** Academia Sinica

162A Nuclear elongation in the *Saccharomyces cerevisiae* mating response requires expression and proper localization of the inner nuclear membrane protein Prm3 **Patrick Klees** National Institutes of Health

163A The effects of glyphosate based-herbicides on the yeast metabolome and mitochondrial function **Jennifer Gallagher** West Virginia University

164B Phosphorylated Gβ: a key role player in yeast gradient sensing **Hamida Nooreen Mahmood** University of Illinois Chicago

165B The yeast mitochondrial Porin represses Snf1/AMP Kinase signaling to attenuate viral replication **Marc Meneghini** University of Toronto

166B Examining the role of the hexosamine biosynthetic pathway in stress tolerance of the *S. cerevisiae pgm2Δ* mutant **Marcia Pinto** Austin College

167B Nuclear Expression of podoATP9-5 in Yeast Elicits a mitoCPR Response **Pak-Phi Poon** Arizona State University

168B Differential Tolerance for SEA Domain Misfolding Encodes a Mechanism for Mucin-Dependent MAPK Specificity **Ankita Priyadarshini** University at Buffalo, New York

169B Examining the Effect Metal Toxicity has on Vacuole Inheritance and Structure in Saccharomyces cerevisiae **Arthur Ramos Reyes** San Francisco State University

170B The Bar1 α-factor protease is critical for cell-autonomous gradient sensing in mating yeast **Paul Urban** University of Illinois at Chicago

171B A cellular atlas of spatial protein quality control **Margaret Wangeline** Stanford University

172B Studying the Mechanism for Ribosome-Inactivating Protein-Induced Growth Suppression **Jennifer Gallagher** West Virginia University

Life Cycle

173A Molecular mechanisms that link mitotic exit to cell growth **Sarah Beth Avila** University of California, Santa Cruz

174A QTL Mapping Reveals the Genetic Architecture of Yeast Life History Traits **Dominick Costanzo** Lehigh University

175A Domestication drives repeated evolution of sexual-asexual life cycle trade-offs in yeast **Jing Hou** Université de Strasbourg/CNRS

New Technology and Resources

178A BacTrack: a high-efficiency, global method for mutagenesis and phenotypic analysis **Brooke Andrews** Northwestern University

179A Biochemical Pathways at SGD: Comprehensive Integration and Access Across Multiple Platforms **Stacia Engel** Stanford University

180B High-resolution, meiosis-free mapping of genetic variation with CRI-SPA-Map **Sheila Lutz** University of Minnesota

181B Integration of *Saccharomyces* Genome Database Data into The Alliance of Genome Resources **Edith Wong** Stanford University

Synthetic Biology and Industrial Yeasts

182A Adaptive laboratory evolution of *Saccharomyces cerevisiae* reveals novel mechanisms of tolerance to plant toxins **Lillian Barten** University of Wisconsin - Madison

183A Fine-scale genetic dissection of yeast persistence in mice **Brandon Bernardo** University of Southern California

184A DNA prospecting at petascale identifies efficient PET degrading enzymes with novel properties **Grant Brown** University of Toronto

185A Genetic Minimization of *Saccharomyces cerevisiae* Chromosome I **Zach Krieger** University of Southern California

186A Mapping conditional genetic interactions of whole genome duplication paralogs in angiosperm-like niches **Aurélie Le**

187B Creating a large designer cellulosome in yeast to boost ethanol production **Wen-Hsiung Li** Academia Sinica

188B Discovery of GPCR agonist antibodies with unique activation mechanisms using the yeast FAST Platform **Jingjing Liu** Abalone Bio

189B A Programmable T7 Bacteriophage Produced in Yeast for Custom DNA Delivery **Elizabeth Moore** University of Southern California

190B Isoform-Specific Cytochrome b5 Enhances CYP87D20-Catalyzed Oxidation in Engineered Yeast for Cucurbitane-Type Triterpenoid Production **Yuan -Ruei Teng** National Taiwan University

191B Genomic and Phenotypic Landscape of the Industrial Yeast *Cyberlindnera jadinii:* Ploidy Variation, Genetic Diversity, and Metabolic Potential **Junyuan Wu** Mitsubishi Corporation Life Sciences Limited

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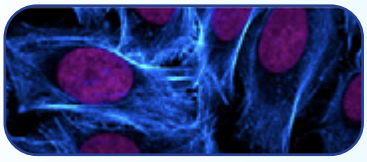
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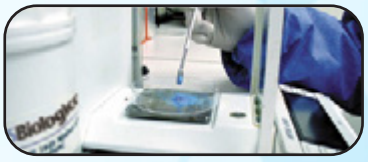
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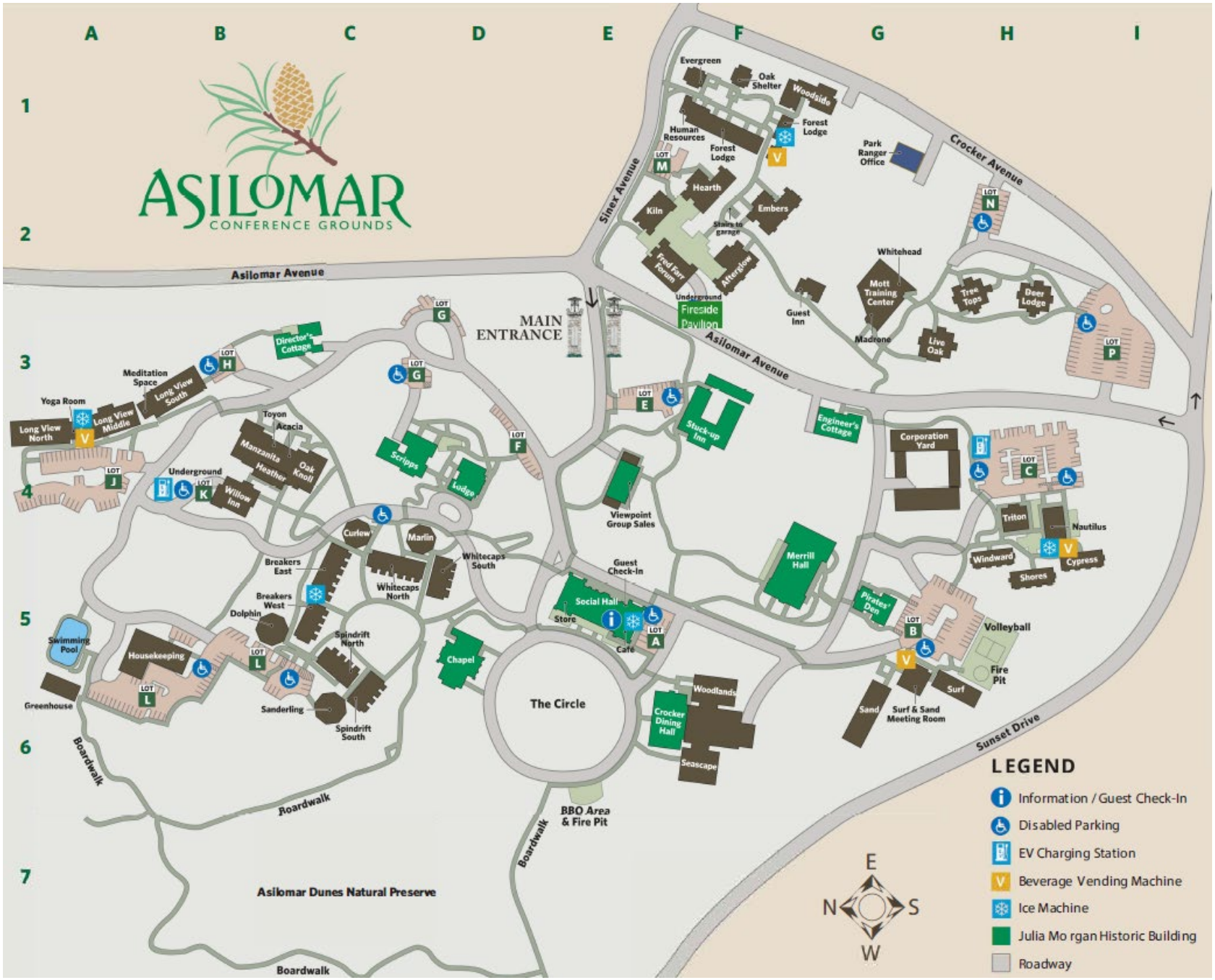
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