

**TWENTY FIFTH FUNGAL GENETICS CONFERENCE  
PRELIMINARY PROGRAM**

**TUESDAY March 17: Registration, Social Reception**

**WEDNESDAY March 18**

8:30-12:00 Plenary Session I

GENOME EVOLUTION AND DYNAMICS (Chair: Christina Cuomo, Broad Institute)

- Microsporidia: intracellular fungi with reduced cells, genomes, and metabolism, Patrick Keeling, UBC Canada
- Host-pathogen interaction drives genome plasticity in the late blight pathogen, Rays Jiang, Broad Institute
- The genome of *Malassezia globosa*, a fungus associated with dandruff, Charles Saunders, Procter & Gamble, Cincinnati
- Horizontal gene transfer and the spread of trophic mechanisms in the eukaryotes, Thomas A. Richards, Univ Exeter, UK
- The origins of plant pathogenic fungi, Bruce A. McDonald, ETH Zurich Switzerland

AD HOC Sessions

12:15- 2:00 The Phycomyces genome: manual annotation and analysis. Organizer: Luis Corrochano

12:15- 2:00 Colletotrichum Workshop. Organizers: Michael Thon, Serenella Sukno

3:00-6:00 pm CONCURRENT SESSIONS I

Interactions between fungal pathogens and their human hosts:

Ted White and Judith Rhodes

Population genetics and ecology:

Lynne Boddy and Kwangwon Lee

Secondary metabolism:

Barbara Howlett and Jurgen Wendland

Applied genomics and industrial mycology:

Ken Bruno and Peter Punt

Architecture and tip growth:

Meritxell Riquelme and Rosa R. Mouriño-Pérez

Circadian rhythms and photobiology:

Sue Crosthwaite and Christian Heintzen

Basidiomycete biology and genomics:

Sarah Watkinson and Dan Cullen

7:30-10:30 POSTERS I

**THURSDAY March 19**

8:30-12:00 Plenary Session II

GENE REGULATION AND METABOLISM (Chair: Joan W. Bennett, Rutgers Univ.)

- Regulation and consequences of a fungal antiviral RNA silencing response, Donald L. Nuss, Univ Maryland
- Natural genetic variation and the transcriptome, Rachel Brem, UC Berkeley
- Metabolism of Aspergilli at the genome level, Jens Nielsen, Chalmers University, Gotenburg, Sweden
- Expansion of a secondary metabolite biosynthetic gene cluster in *Fusarium* by gene relocation, Robert Proctor, USDA
- Control of DNA methylation in *Neurospora*, Eric U. Selker, Univ. of Oregon

AD HOC Sessions

12.15 -2.30 Workshop: JGI Genome Portal / Community Annotation Tools Organizer: Igor Grigoriev

### 3:00-6:00 pm CONCURRENT SESSIONS II

RNA functions, Epigenetics and  
Chromosome Biology:

Associations with plants:

Natural products and small molecules:

Evolutionary genetics and genomics:

Dimorphic transitions and morphogenesis:

Biofuels and biomass disassembly:

Hitoshi Nakayashiki and Yi Liu

Martijn Rep and Erika Kothe

Vera Meyer and Ben Horwitz

Jason Stajich and Linda Kohn

Alex Andrianopoulos and Takashi Kamada

Jonathan Walton and Scott Baker

### 7:30-10:30 POSTERS II

#### FRIDAY March 20

8:30-12:00 Plenary Session III

SIGNALING, DEVELOPMENT AND SEX (Chair: Ursula Kues, GA Univ Göttingen, Germany)

- mRNA trafficking during pathogenic development of *Ustilago maydis*, Michael Feldbrugge, MPI Marburg, Germany
- Sex and light signaling in the zygomycete *Phycomyces blakesleeenanus*, Alex Idnurm, Univ Missouri, Kansas City
- Regulatory pathways involved in spore formation in the oomycete *Phytophthora infestans*, Howard Judelson, UC Riverside
- cAMP signalling in morphogenesis in *Candida albicans*, Paula Sundstrom, Dartmouth College
- ROS signalling and control of development, Jesus L. Aguirre, UNAM, Mexico

#### AD HOC Sessions

12:00 Neurospora Business Lunch. Organizer: Yi Liu

12:15- 2:00 *Cryphonectria parasitica* genome sequence and annotation. Organizer: Donald L. Nuss

1:00 – 2:30 Neurospora Functional Genomics Project. Organizer: Jay Dunlap

12:15- 3:00 Magnaporthe workshop. Organizers: Thomas Mitchell and Nicole Donofrio

12:15 - 2:30 Dermatophyte genome sequencing Workshop. Organizer: Ted White

### 3:00-6:00 pm CONCURRENT SESSIONS III

Fungal and oomycete effectors:

Phylogenomics:

ROS in development and pathogenesis:

Cytoskeleton and Motors:

Education and public outreach:

Sex and development:

Analysis and regulation of carbon metabolism:

Paul Birch and Thierry Rouxel

Joey Spatafora and David Geiser

Paul Tudzynski and Wilhelm Hansberg

Mike Plamann and Gero Steinberg

Pat Pukkila and Pietro Spanu

Yin-Won Lee and Frances Trail

Bernhard Seiboth and Ronald P. De Vries

### 7:30-10:30 POSTERS III

#### SATURDAY March 21

8:30-12:00 Plenary Session IV

PATHOGENIC AND SYMBIOTIC INTERACTIONS (Chair: Jim Kronstad, UBC Canada)

- Immune recognition of the fungal cell wall. Neil A.R. Gow, Univ Aberdeen UK
- Life inside a rice cell; lessons from the blast fungus, Barbara Valent, Kansas State Univ
- Toxins for life and death, a mechanism of pathogenesis, Lynda Ciuffetti, Oregon State Univ
- Cellular and molecular plant responses to AM fungi, Paola Bonfante, Univ Torino, Italy
- Insects in the lives of fungi, Meredith Blackwell, Louisiana State Univ

### AD HOC Sessions

12:15-1:45 Zygomycetes and the microsporidia Workshop. Organizer: Joe Heitman

### 3:00-6:00 pm CCONCURRENT SESSIONS IV

Zygomycetes and chytrids:	Mat Fisher and Santiago Torres
Cool tools for fungal biology:	Gary Foster and Steve Osmani
Nitrogen regulation networks:	Bettina Tudzynski and Meryl Davis
Metabolomics and Proteomics:	Peter Solomon and Kim Hammond Kosack
Associations with microbes and insects:	Alfredo Herrera-Estrella and Pieter van West
Dothideomycete comparative genomics:	Steve Goodwin and Gert HJ Kema
Speciation and evolution:	Tatiana Giraud and Jan Schirawski

6:15 pm Banquet

7:30 pm – 8:30 pm Invited Banquet Lecture: Claudio Scazzocchio, Univ Paris XI, Orsay, France

8:45 pm - 12:30 am Closing party, Merrill Hall

8:45 pm - 12:30 am Quiet alternative, Surf and Sand Living room

### **SUNDAY March 22**

8:30 am – 12:00 pm

### AD HOC Sessions/Workshops

9:00- 12:00 Fusarium Workshop. Organizer: Bob Procter