

Thursday, March 8

16.00 – 18.00 Registration, Administration
18.00 Dinner, Crocker
19.00 – 22.00 Mixer (Fred Farr Forum)

Friday, March 9

Morning **Cell Biology and Morphogenesis** **Fred Farr Forum** **(Chair: Meritxell Riquelme)**

7.30 – 8.30 Breakfast, Crocker

8.30 – 8.40 Welcome and announcements (NPC)

8.40 – 9.00 **Michael Plamann** Dynein heavy chain mutations cause multiple mislocalization phenotypes

9.00 – 9.20 **Steve Free** *Neurospora* cell wall synthesis and functions

9.20 – 9.40 **Leonora Martínez-Núñez** Distribution of cell wall building and remodeling enzymes in living hyphae of *Neurospora crassa*

9.40 – 10.00 **Rosa Mourino-Perez** Timeline of proteins involved in septum formation in *Neurospora crassa*

10.00 – 10.30 Coffee break

10.30 – 11.10 **Greg Jedd** Bioinformatics identifies septal pore associated proteins in *Neurospora crassa*

11.10 – 11.30 **Lynn Epstein** The *Neurospora crassa* mutant NcdeltaEgt-1 identifies an ergothioneine biosynthetic gene and demonstrates that ergothioneine enhances conidial survival and protects against peroxide toxicity during conidial germination.

11.30 – 11.50 **Frank Nargang** Components and Function of the *Neurospora* TOB complex

12.00 – 14.00 Lunch, Crocker

Business Meeting and Presentation of Awards

Afternoon **Gene Regulation** **Fred Farr Forum** **(Chair: Jason Stajich)**

14.30 – 14.50 **Luis Corrochano** Interactions between light and development in the regulation of *Neurospora* gene expression

14.50 – 15.10 **Fernanda Freitas** Functional and structural characterization of *N. crassa* proteins identified in DNA-protein complexes.

15.10 – 15.30 **Michael Rountree** The control and function of Histone H3 Lysine 27 trimethylation

15.30 – 15.50 **Michael Freitag** Centromere foundation proteins of *Neurospora*

15.50 – 16.20 Coffee break

16.20 – 16.40 **Kyle Pomraning** A dynamin-like protein affects both RIP and premeiotic recombination

16.40 – 17.00 **Eugene Gladyshev** Biochemical properties of NcRVT protein encoded by a reverse transcriptase-like gene from *Neurospora crassa*

17.00 – 17.20 **David Kowbel** Antisense transcription in the fungus *Neurospora crassa*

17.20 – 17.40 **Yi Liu** Small RNA biogenesis pathways in *Neurospora*

Evening

18.00 Dinner, Crocker

19.00 – 22.00 Poster session (Kiln)

Saturday, March 10

Morning Signaling and Development (Chair: André Fleißner)

7.30 – 8.30 Breakfast, Crocker

8.30 – 8.50 **Stefanie Pöggeler** A homolog of the mammalian STRIPAK complex controls sexual development in *Sordaria macrospora*

8.50 – 9.10 **André Fleißner** Structural features of sterols influence cell signaling and fusion

9.10 – 9.30 **Javier Palma-Guerrero** *lfd-1*: a novel gene required for membrane merge during cell fusion in *Neurospora crassa*

9.30 – 9.50 **Maria Célia Bertolini** Extracellular pH and glycogen metabolism regulation in *Neurospora crassa*. New insights into the pH signaling pathway

9.50 – 10.20 Coffee break

10.20 – 10.40 **Oded Yarden** Phosphorylation of COT1 at S189 is required for early polar growth and is involved in regulation of micro/macro-conidiation in association with MOB2A/B

10.40 – 11.00 **Jacqueline Servin** Global analysis of serine-threonine protein kinase genes

11.00 – 11.20 **Barry Bowmann** Calcium ATPases in the ER and Golgi are required for normal morphological development in *Neurospora crassa*.

11.20 – 11.40 **Nick Read** Calcium signaling in *Neurospora crassa*

12.00 – 13.00 Lunch, Crocker

Afternoon Light and circadian clock Fred Farr Forum (Chair: Luis Larrondo)

14.30 – 14.50 **Deb Bell-Pedersen** Direct Transcriptional Control of the OS MAPK Pathway by the Circadian Clock

14.50 – 15.10 **Jennifer Hurley** Light inducible system for tunable protein expression in *Neurospora crassa*

15.10 – 15.30 **Christian Heintzen** Global light- and temperature responses in a clockless strain of *Neurospora*

15.30 – 15.50 **Patricia Lakin-Thomas** Potential components of the FRQ-less oscillator

15.50 – 16.20 Coffee break

16.20 – 16.40 **Martha Merrow** Temperature compensation of circadian entrainment in *Neurospora* and human cells

16.40 – 17.00 **Chandrashekara Mallappa** Roles for CSP-1 in light and circadian clock-regulated gene expression

17.00 – 17.20 **Luis Larrondo** Transcriptional regulators and time-of-day-specific gene expression in the *Neurospora* circadian system: a spatiotemporal approach

17.20 – 17.40 **Michael Brunner** Light-activated and clock-controlled transcription activation by the white collar complex

Evening

18.00 – 19.30 Banquet, Crocker

Banquet Speaker: **Jennifer Loros**

19.30 – 22.00 Poster session (Kiln)

Sunday, March 11

Morning Genomics, Evolution and Technology Fred Farr Forum (Chair: Charles Hall)

7.30 – 8.30 Breakfast, Crocker

8.30 – 8.50 **Scott Baker** Associating genes with phenotypes in *Neurospora* mutant strains

8.50 – 9.10 **Charles Hall** The development of genetics and genomics for analysis of complex traits in the model filamentous fungus, *Neurospora crassa*.

9.10 – 9.30 **Chris Ellison** Harnessing natural variation to identify gene regulatory networks in *Neurospora crassa*

9.30 – 9.50 **Elizabeth Znameroski** Induction of lignocellulose degrading enzymes in *Neurospora crassa* by cellodextrins

9.50 – 10.20 Coffee break

10.20 – 10.40 **David Catcheside** Insights into recombination using gfp and next generation sequencing

10.40 – 11.00 **Jason Stajich** Comparative genomics of *Neurospora* and other fungi with FungiDB

11.00 – 11.20 **Jeremy Zucker** Genome-scale reconstruction and validation of *Neurospora crassa* metabolism.

11.20 – 11.40 **Jay Dunlap et al.** The *Neurospora* Functional Genomics Program Project

11.00 Checkout

12.00 – 13.00 Lunch, Crocker (or box lunches)