

**Friday, September 12**

**The Premier Hall 2/3 (The Jade & The Topaz)**

**8:30-10:00 Gene Regulation and Signaling I SY-04**

Conveners: Maurizio Del Poeta (*Medical University of South Carolina, USA*)  
Bettina C. Fries (*Albert-Einstein College of Medicine, USA*)

**SY-04-01 Control of Morphogenesis and Pathogenesis in *Cryptococcus neoformans***

○ Andrew Alspaugh, Connie Nichols, Michael Price, Elizabeth Ballou  
*Duke University School of Medicine, USA*

**SY-04-02 Towards molecular understanding of cell cycle regulation and cell signaling in *Cryptococcus neoformans***

○ Susumu Kawamoto<sup>1</sup>, Eric V. Virtudazo<sup>1</sup>, Mihoko Ohata<sup>1</sup>, Misako Ohkusu<sup>1</sup>, Kiminori Shimizu<sup>1</sup>,  
Masashi Yamaguchi<sup>1</sup>, Ida Miklos<sup>2</sup>, Matthias Sipiczki<sup>2</sup>, Zusanna Manova<sup>3</sup>, Vladislav Raclavsky<sup>3</sup>,  
Kanji Takeo<sup>1</sup>

<sup>1</sup>*Medical Mycology Reseach Center, Chiba University, Chiba, Japan*; <sup>2</sup>*Department of Genetics, University of Debrecen, Debrecen, Hungary*; <sup>3</sup>*Department of Microbiology, Faculty of Medicine and Dentistry, Palacky, University, Olomouc, Czech Republic*

**SY-04-03 The RGS Protein Crg2 Regulates Pheromone and cAMP Signaling in *Cryptococcus neoformans***

Shen G, Wang YL, Whittington A, Li L, ○ Wang P.

*The Research Institute for Children, Departments of Microbiology, Immunology, and Parasitology, and Pediatrics, Louisiana State University Health Sciences Center, New Orleans, USA*

**SY-04-04 Expanding the molecular toolbox for *Cryptococcus neoformans*: tandem affinity tagging, biochemical complex purification, chromatin immunoprecipitation, tiling arrays and beyond**

(P-A-16)

○ Changbin Chen<sup>1</sup>, James Thompson<sup>2</sup>, John Yates, III.<sup>2</sup>, Hiten D. Madhani<sup>1</sup>

<sup>1</sup>*Department of Biochemistry & Biophysics, University of California-San Francisco, San Francisco, California, USA*; <sup>2</sup>*The Scripps Research Institute, La Jolla, California, USA*

**SY-04-05 Remodeling of global transcription patterns of *Cryptococcus neoformans* genes mediated by the stress-activated signaling pathways in response to environmental changes**

(P-A-27)

○ Young-Joon Ko<sup>1</sup>, Yeong Man Yu<sup>2</sup>, Gir-won Lee<sup>1</sup>, Pil Jae Maeng<sup>2</sup>, Sang-soo Kim<sup>1</sup>, Joseph Heitman<sup>3</sup>,  
Yong-Sun Bahn<sup>4</sup>

<sup>1</sup>*Department of Bioinformatics and Life Science, Soongsil University, Seoul, Korea*; <sup>2</sup>*Department of Microbiology, Chungnam University, Daejun, Korea*; <sup>3</sup>*Departments of Molecular Genetics and Microbiology, Medicine, and Pharmacology and Cancer Biology, Duke University Medical Center, Durham, NC 27710* 4; <sup>4</sup>*Department of Biotechnology, Yonsei University, Seoul, Korea*

**10:30-12:00 Epidemiology, Molecular Typing, Population Genetics I SY-05**

Conveners: David Ellis (*Women's and Children's Hospital, Australia*)  
Elizabeth Castañeda (*University El Bosque, Colombia*)

**SY-05-01 Understanding the *Cryptococcus neoformans* species complex through conflict and concordance**

○ Teun Boekhout, Ferry Hagen

*Department of Yeast Research, CBS Fungal Biodiversity Centre, Utrecht, The Netherlands*

**SY-05-02 Unravelling the enigma of sex and spore production in *Cryptococcus***

○ Dee Carter<sup>1</sup>, Nathan Saul<sup>1,2</sup>, Tien Bui<sup>1</sup>, Mark Krockenberger<sup>2</sup>, Joseph Heitman<sup>3</sup>, Richard Malik<sup>4</sup>

<sup>1</sup>*School of Molecular and Microbial Biosciences, University of Sydney, New South Wales, Australia*; <sup>2</sup>*Department of Veterinary Pathology, University of Sydney, NSW 2006, Australia*; <sup>3</sup>*Duke University Medical Center, Durham, NC 27710, USA*; <sup>4</sup>*Post Graduate Foundation of Veterinary Science and Faculty of Veterinary Science, University of Sydney, NSW 2006, Australia*

**SY-05-03 Contact-mediated killing of *C. neoformans* by the bacterium *Staphylococcus aureus***

○ Reiko Ikeda

*Department of Microbiology, Meiji Pharmaceutical University, Japan*

**SY-05-04 Clinical Isolates from an Indian Hospital: An Unexpected Detection of a Serotype-C *Cryptococcus Gattii* Population**

○ Massimo Cogliati<sup>1</sup>, Nagarathna Chandrashekar<sup>2</sup>, Anna Prigitano<sup>1</sup>, Maria Carmela Esposito<sup>1</sup>, Bjorn Petrini<sup>3</sup>, Akepati Chandramuki<sup>2</sup>, Maria Anna Viviani<sup>1</sup>

<sup>1</sup>DSPMV, Univ. of Milan, Italy; <sup>2</sup>NIMHANS, Bangalore, India; <sup>3</sup>Korolinska UH, Stockholm, Sweden

**12:30-13:20 Luncheon Seminar 02****LS-02**

Co-sponsored by Janssen Pharmaceutical K.K.

Convener: Kazuyoshi Kawakami (*Tohoku University, Japan*)

**LS-02 The war between the kingdoms: How animals innately sense fungi and the strategies fungi utilize to subvert recognition**

○ Stuart M. Levitz

*University of Massachusetts Medical School, Worcester, USA*

**14:30-16:00 Cell Wall and Capsule****SY-06**

Conveners: Stuart M. Levitz (*University of Massachusetts Medical School, USA*)

Thomas R. Kozel (*University of Nevada School of Medicine, USA*)

**SY-06-01 Understanding capsule synthesis in *Cryptococcus neoformans***

○ Tamara L. Doering<sup>1</sup>, Aki Yoneda<sup>1</sup>, Morgann C Reilly<sup>1</sup>, Indrani Bose<sup>2</sup>, Christian Heiss<sup>3</sup>, Parastoo Azadi<sup>3</sup>, Steven B. Levery<sup>4</sup>, Stacey Klutts<sup>5</sup>

<sup>1</sup>Washington University Medical School, St. Louis, MO, USA; <sup>2</sup>Current address: Western Carolina University, Cullowhee, NC, USA; <sup>3</sup>Complex Carbohydrate Research Center, Athens, GA, USA; <sup>4</sup>University of Copenhagen, Copenhagen, Denmark; <sup>5</sup>Current address: University of Iowa, Iowa City, IA, USA

**SY-06-02 The galactose metabolism in *Cryptococcus neoformans***

○ Guilhem Janbon

*Institut Pasteur, France, Metropolitan*

**SY-06-03 Cell wall biosynthesis in *Cryptococcus neoformans***

Lorina Baker<sup>1</sup>, Charles Specht<sup>3</sup>, ○ Jennifer Lodge<sup>1,2</sup>

<sup>1</sup>Edward A. Doisy Department of Biochemistry and Molecular Biology, <sup>2</sup>Department of Microbiology and Immunology, Saint Louis University School of Medicine, <sup>3</sup>Department of Medicine, University of Massachusetts

**SY-06-04 Composition and architecture of the *Cryptococcus neoformans* spore coat**

(P-B-23)

○ Michael R. Botts<sup>1</sup>, Christina M. Hull<sup>1,2</sup>

<sup>1</sup>Department of Biomolecular Chemistry, University of Wisconsin- Madison, Madison, Wisconsin, USA;

<sup>2</sup>Department of Immunology & Medical Microbiology, University of Wisconsin- Madison, Madison, Wisconsin, USA

**SY-06-05 *Cryptococcus neoformans* enters the endolysosomal pathway of dendritic cells and is killed by lysosomal components**

(P-B-22)

○ Karen L. Wozniak, Stuart M. Levitz

*Department of Medicine, Division of Infectious Disease, University of Massachusetts Medical School, Worcester, MA, USA*

**16:00-17:30 The Immune Response II****SY-07**

Conveners: Christopher H. Mody (*University of Calgary, Canada*)

Anna Vecchiarelli (*University of Perugia, Italy*)

**SY-07-01 TLR9-dependent sensing of *Cryptococcus neoformans***

○ Kazuyoshi Kawakami

*Department of Medical Microbiology, Mycology and Immunology, Tohoku University Graduate School of Medicine, Japan*

**SY-07-02 Immune responses to Mannoproteins: The Yin and Yang**

○ Stuart M. Levitz

*University of Massachusetts Medical School, Worcester, USA*



**SY-07-03 Induction of Interferon-alpha/beta by *Cryptococcus neoformans***

Carmelo Biondo, Angelina Midiri, Giuseppe Mancuso, Roberta Galbo, Manuela Garibaldi, Elisabetta Gerace, Maria Falduto, ○ Giuseppe Teti

*Department of Pathology and Experimental Microbiology, University of Messina, Messina, Italy*

**SY-07-04 Cell dissemination to the central nervous system during coinfection**

(P-B-08) ○ Kirsten Nielsen

*Department of Microbiology, Medical School, University of Minnesota, Minneapolis, Minnesota, USA*

**SY-07-05 Macrophage hijacking by the fatal human pathogen *Cryptococcus***

(P-B-01) ○ Hansong Ma<sup>1</sup>, Dov J. Stekel<sup>1</sup>, Joanne E. Croudace<sup>2</sup>, David A. Lammas<sup>2</sup>, Ferry Hagen<sup>3</sup>, Teun Boekhout<sup>3</sup>, Itzhack Polacheck<sup>4</sup>, Robin C. May<sup>1</sup>

*<sup>1</sup>The school of Biosciences, University of Birmingham, Birmingham, UK; <sup>2</sup>Division of Immunity and Infection, The Medical School, University of Birmingham, Edgbaston, Birmingham, B15 2TT, UK; <sup>3</sup>CBS Fungal Biodiversity Centre, an institute of the Royal Netherlands Academy of Arts and Sciences, Uppsalalaan 8, NL-3584CT, Utrecht, The Netherlands.; <sup>4</sup>Department of Clinical Microbiology, Hadassah Medical Center, Jerusalem, Israel*