May 11, 2017 – Thursday - 13:40 – 17:00

**TOPIC 5: Fungal stress in the industry** – Chair: John E. Hallsworth

**Elis C. A. Eleutherio** – Universidade Federal do Rio de Janeiro (UFRJ), Rio de Janeiro, RJ, Brazil.

Oxidative Stress: Learning from yeast lessons.

**Diego Bonatto** – Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, RS, Brazil.

Lagers yeasts and the delicate balance between hybrid genomes and brewery’s stress.

**Anderson Ferreira da Cunha** – Universidade Federal de São Carlos (UFSCar), São Carlos, SP, Brazil.

Thermotolerant and ethanol-resistant *Saccharomyces cerevisiae* strains: isolation, molecular characterization and evaluation of gene expression of stress related genes.
**TOPIC 1: Fungal biology in extreme environments - Chair: Drauzio E.N. Rangel**

**Ekaterina Dadachova** – University of Saskatchewan (U of S), Saskatoon, SK, Canada. Melanized fungi are resistant to both sparsely and densely ionizing radiation.

**Laura Selbmann** – Università degli Studi della Tuscia (UNITUS), Viterbo, Italy. Resistance of an Antarctic cryptoendolithic fungus to radiation.

**TOPIC 1: Fungal biology in extreme environments - Chair: Drauzio E.N. Rangel**

**John E. Hallsworth** – Queen’s University Belfast (QUB), Belfast, Northern Ireland, UK. Interventions of glycerol expand the water-activity limit for life: ecology and biophysics of extreme fungal xerophiles.

**TOPIC 2: Stress mechanisms and responses in fungi: molecular biology, biochemistry, biophysics, cellular biology - Chair: Luis M.P. Corrochano**

**Gustavo H. Goldman** – Universidade de São Paulo (USP), Ribeirão Preto, SP, Brazil. Regulation of *Aspergillus nidulans* CreA-mediated catabolite repression by Fbx23 and Fbx47, F-box subunits of the SCF ubiquitin ligase complex.

**Maria Celia Bertolini** – Universidade Estadual Paulista (UNESP), Araraquara, SP, Brazil. Functional characterization of transcription factors/proteins regulating stress response in *Neurospora crassa*.

**TOPIC 3: Fungal photobiology in the context of stress - Chair: Célia M. A. Soares**

**Luis Corrochano** – Universidad de Sevilla, Sevilla, Spain. Light in the fungal world: a signal from the environment and a stress for the cell.

**Gerhard Braus** – Georg August University of Göttingen (GAU), Göttingen, Germany. Light and fungal development and coordinated secondary metabolism in *Aspergillus*.

**Monika Schmoll** – Austrian Institute of Technology GmbH (AIT), Tulln, Austria. Fungi: Light dependent regulation of carbon and secondary metabolism in *Trichoderma reesei*.

**LUIS LARRONDO** – Pontificia Universidad Católica de Chile (PUC), Santiago, Chile. New functions for an old protein: examining the role of FREQUENCY in clock regulation, nutritional sensing and stress responses in the phytopathogen *Botrytis cinerea*.

**TOPIC 3: Fungal photobiology in the context of stress - Chair: Gustavo H. Goldman**

**Kevin Fuller** – Geisel School of Medicine at Dartmouth, Hanover, NH, USA. Photoregulation of metabolism and antifungal sensitivity in the mold pathogens *Aspergillus* and *Fusarium*.

**Gilberto U. L. Braga** – Universidade de São Paulo (USP), Ribeirão Preto, SP, Brazil. Antimicrobial photodynamic treatment as an alternative to control fungal pathogens.

**TOPIC 4: Role of stress in fungal pathogenesis - Chair: Kevin Fuller**

**Jon Takemoto** – Utah State University (USU), Logan, UT, USA. New generation aminoglycoside fungicides.

**Célia Maria de Almeida Soares** – Universidade Federal de Goiás (UFG), Goiânia, GO, Brazil. Metabolic changes in *Paracoccidioides* spp. during host infection.

**Iran Malavazi** – Universidade Federal de São Carlos (UFSCAR), São Carlos, SP, Brazil. The contribution of the cell wall integrity pathway to virulence in *Aspergillus fumigatus*.

**Marcia Regina von Zeska Kress** – Universidade de São Paulo (USP), Ribeirão Preto, SP, Brazil. Antimicrobial photodynamic inactivation and photodynamic therapy for fungal infection.

**TOPIC 5: Fungal stress and its implications on bioremediation - Chair: Everton K.K. Fernandes**

**Rosane Marina Peralta** – Universidade Estadual de Maringá (UEM), Maringá, PR, Brazil. Bioremediation by fungi in a stressful environment: application of white rot fungi in the degradation of recalcitrant organic pollutants.

**TOPIC 6: Fungal stress in agriculture - Chair: Gilberto U.L. Braga**

**Chengshu Wang** – Chinese Academy of Sciences, Shanghai, China. The cause-effect relationships between the oxidative stress and fungal culture degeneration.

**Octavio Loera Corral** – Universidad Autónoma Metropolitana-Iztapalapa, (UAM) Mexico City, Mexico. Oxidant states improve production and quality of conidia in entomopathogenic fungi.