

SMYTE31 PROGRAM

Tuesday, September 24th

14:00-18:00 Registration

18:00-18:30 Opening remarks

18:30-19:30 **Marcelle Grenson Lecture** by **George Diallinas** (University of Athens, Greece)
“Distinct mechanisms control ubiquitination and turnover of the UapA transporter in response to physiological signals or protein misfolding”

Chairman: Milan Hoefler

19:30-20:30 Dinner

20:30-22:30 Welcome reception

Wednesday, September 25th

07:00-09:00 Breakfast

09:00- 10:40 SESSION 1

Chairmen: Johan Thevelein and Zdena Palkova

09:00-09:20 **Pierre Morsomme** (Université Catholique de Louvain, Belgium)
“A newly characterized Golgi-localized family of proteins is involved in calcium homeostasis in yeast”

09:20-09:40 **Jost Ludwig** (University of Bonn, Germany)
“Rapid potassium efflux (and re-uptake) upon potassium starvation in *Saccharomyces cerevisiae* cells is dependent on Trk1,2 transporters”

09:40-10:00 **Dieter Samyn** (Linnaeus University, Sweden)
“The inner workings of the *S. cerevisiae* high-affinity proton-coupled inorganic phosphate transporter, Pho84”

10:00-10:20 **Paul de Waal** (DSM, Netherlands)
“Development of next generation yeast strains for ethanol production from lignocellulosic feedstocks”

10:20-10:40 **Andre Bruno** (Université Libre de Bruxelles, Belgium)
“Signals and mechanisms promoting ubiquitylation and endocytosis of yeast amino acid transporters”

10:40-11:00 Tea/Coffee Break

11:00-12:40 SESSION 2

Chairmen: Joaquin Arino and Rajendra Prasad

11:00-11:20 **Olga Zimmermannova** (Institute of Physiology ASCR, Czech Republic)

“Common interactions among transmembrane domains and hydrophilic C terminus of yeast plasma membrane Na⁺/H⁺ antiporters”

11:20-11:40 **Lorena Ruiz-Pavon** (Center for Biomaterials Chemistry, Sweden)

“Na⁺-Phosphate cotransporter system in *Saccharomyces cerevisiae*. Pho 89, a tale of a single protein”

11:40-12:00 **Burcin Altun** (ICGEB, Italy)

“Recent advances in bio-ethanol production by genetically engineered yeast”

12:00-12:20 **Tiago Viana** (ISA-TUL, Portugal)

“Yeast H⁺-homeostasis during alcoholic fermentation”

12:20-12:40 **Ozlenen Simsek Papur** (Dokuz Eylul University, Turkey)

“Functional characterization of new mutations in Wilson disease gene (Atp7b) using the yeast *Saccharomyces cerevisiae* model”

12:40-14:00 Lunch

14:00-15:40 SESSION 3

Chairmen: Bernard Turcotte and Yvetta Gbelska

14:00-14:20 **Johan Thevelein** (VIB & KU Leuven, Belgium)

“Activation of Ras through glucose catabolism in glucose-induced stimulation of cAMP synthesis in yeast”

14:20-14:40 **Rogelio Brandao** (Federal University of Ouro Preto, Brazil)

“New aspects of the involvement of calcium metabolism in the regulation of plasma membrane ATPase activity in the yeast *Saccharomyces cerevisiae*”

14:40-15:00 **Enzo Martegani** (Università di Milano Bicocca, Italy)

“Lack of *HXX2* induces localization of active Ras in mitochondria and increases apoptosis in *Saccharomyces cerevisiae*”

15:00-15:20 **Walter van Gulik** (Delft University of Technology, Netherlands)

“Transport and metabolism of dicarboxylic acids in *Saccharomyces cerevisiae*”

15:20-15:40 **Zdena Palkova** (Charles University in Prague, Czech Republic)

“Transporters involved in nutrient flow within differentiated yeast colonies: Importance for colony longevity”

15:40-16:00 Tea/Coffee Break

16:00-17:30 Poster Session

17:30-19:30 Free time

19:30 Dinner

Thursday, September 26th
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07:00-09:00 Breakfast

09:00- 10:40 SESSION 4

Chairmen: Walter van Gulik and Enzo Martegani

09:00-09:20 **Morten C. Kielland-Brandt** (Technical University of Denmark, Denmark)
“Role of Snf3 in glucose homeostasis of *Saccharomyces cerevisiae* (review)”

09:20-09:40 **Griet Van Zeebroeck** (KULeuven, Belgium)
“Specific analogs uncouple transport, signaling, oligo-ubiquitination and endocytosis in an amino acid transceptor”

09:40-10:00 **Dmitry Knorre** (Lomonosov Moscow State University, Russia)
“The heterogeneity of transmembrane potential in *Saccharomyces cerevisiae* mitochondria”

10:00-10:20 **Jose Ramos** (University of Córdoba, Spain)
“Subcellular potassium and sodium distribution in wild-type and mutants of *Saccharomyces cerevisiae*”

10:20-10:40 **Hella Lichtenberg-Frate** (University of Bonn, Germany)
“Impact of acute metal stress in *Saccharomyces cerevisiae*”

10:40-11:00 Tea/Coffee Break

11:00-12:40 SESSION 5

Chairmen: Pierre Morsomme and Jose Ramos

11:00-11:20 **Paul van Heusden** (Leiden University, Netherlands)
“Role of 14-3-3 proteins in transcriptional and post-transcriptional regulation of cation homeostasis”

11:20-11:40 **Joaquin Arino** (Universitat Autònoma de Barcelona, Spain)
“A complex regulatory network controls the expression of the Na⁺/phosphate Pho89 transporter in response to alkaline pH stress”

11:40-12:00 **Bedia Palabiyik** (Istanbul University, Turkey)
“The role of glucose transporters on oxidative stress response in the fission yeast *Schizosaccharomyces pombe*”

12:00-12:20 **Michala Bubnova** (Institute of Physiology, Czech Republic)
“Transporters of glycerol in the osmotolerant yeast *Zygosaccharomyces rouxii*”

12:20-12:40 **Irem Uluisik** (Izmir Institute of Technology, Turkey)
“Boron stress response in yeast *Saccharomyces cerevisiae*”

12:40-14:00 Lunch

14:00-15:20 SESSION 6

Chairmen: Morten C. Kielland-Brandt and Bengt Persson

14:00-14:20 **Dana Gaskova** (Charles University in Prague, Czech Republic)
“Alcohols are inhibitors of *S. cerevisiae* multidrug resistance pumps Pdr5p and Snq2p”

14:20-14:40 **Attilio di Pietro** (BMSSI, UMR5086 CNRS-University of Lyon, IBCP, France)
“Selective modulators targeting multidrug ABC transporters to eliminate resistant cancer cells. Application to antifungal-resistant pathogenic yeasts”

14:40-15:00 **Bernard Turcotte** (McGill University, Canada)
“Analysis of a family of transcriptional regulators in the human pathogen *Candida glabrata*”

15:00-15:20 **Joachim Ernst** (Universität Düsseldorf, Germany)
“*Candida albicans* mucin Msb2 is a broad-range protectant against antimicrobial peptides”

15:20-15:40 Tea/Coffee Break

15:40-16:40 SESSION 7

Chairmen: Uros Petrovic and Sandra Paiva

15:40-16:00 **Rajendra Prasad** (Jawaharlal Nehru University, India)
“Rationally designed transmembrane peptide mimics of the multidrug transporter protein Cdr1act as antagonists to selectively block drug efflux and chemosensitize azole-resistant clinical isolates of *Candida albicans*”

16:00-16:20 **Iva Janikova** (Charles University in Prague, Czech Republic)
“Monitoring the activity of *Kluyveromyces lactis* multidrug resistance pump KIPdr5p by diS-C3(3) screening assay”

16:20-16:40 **Catarina Prista** (ISA-TUL, Portugal)
“High-affinity fructose/H⁺ symporter from the fructophilic yeast *Zygosaccharomyces rouxii*”

16:40- 17:00 Tea/Coffee Break

17:00-19:30 Free time

19:30 Dinner

Friday, September 27th
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07:00-09:00 Breakfast

09:00- 10:40 SESSION 8

Chairmen: Sezai Turkel and Jost Ludwig

09:00-09:20 **Milan Hoefler** (University of Bonn, Germany)
“Early changes in membrane potential of *Saccharomyces cerevisiae* induced by varying extracellular K⁺, Na⁺ or H⁺ concentrations”

09:20-09:40 **Uros Petrovic** (Jozef Stefan Institute, Slovenia)
“A new route for acetyl-CoA transport from peroxisomes to mitochondria”

09:40-10:00 **Hana Sychrova** (Institute of Physiology ASCR, Czech Republic)
“Fluconazole treatment hyperpolarizes the plasma membrane of *Candida* species”

10:00-10:20 **Sandra Paiva** (University of Minho, Portugal)
“Role of the DHH1 gene in the regulation of monocarboxylic acids transporters expression in *Saccharomyces cerevisiae*”

10:20-10:40 **Marie Kodedova** (Institute of Physiology Academy of Sciences of the Czech Republic, Czech Republic)
“Changes in the sterol composition of the plasma membrane affect function of MDR pumps in *Saccharomyces cerevisiae*”

10:40-11:00 Tea/Coffee Break

11:00-12:00 **Nico Van Uden Lecture** by **Margarida Casal** (Universidade do Minho, Portugal)
“When physiology meets structural biology: the story of lactate transporters in yeast”

Chairman: Hana Sychrova

12:00-12:30 Closing Remarks for Scientific Sessions

12:30-13:30 Lunch

13:30-20:00 Social Event (Guided trip to Aspendos and Kaleiçi)

20:00 Gala Dinner

Saturday, September 28th
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07:00-09:00 Breakfast

09:00-12:00 Free Time and Departure