

# Conference Programme

## Wednesday, May 22: Phospholipids, sterols & metabolism

13:45	14:00	Opening ceremony
		Chairperson: Karin Athenstaedt
14:00	14:45	George Carman: Fat-regulating Pah1 PA phosphatase: Roles and regulation in lipid homeostasis [Keynote lecture]
14:45	15:15	Karin Athenstaedt: Regulation of the yeast glycerol-3-phosphate acyltransferase Gpt2p by phosphorylation [Invited lecture]
15:15	15:30	Xue Bao: Shortening of average acyl chain length enables yeast to grow without the major membrane lipid phosphatidylcholine
15:30	16:00	Coffee break & Poster viewing
		Chairperson: Martin Valachovič
16:00	16:30	Doron Rapaport: Overexpression of branched-chain amino acid aminotransferases rescues the growth defects of cells lacking the Barth Syndrome related gene <i>TAZ1</i> [Invited lecture]
16:30	16:45	Peter Griač: Cardiolipin synthase, an essential enzyme of the yeast <i>Schizosaccharomyces pombe</i> , is encoded by a mitochondrial fusion protein
16:45	17:00	Anant K. Menon: Water for sterol: a novel mechanism of sterol egress from the binding pocket of a yeast StArkin domain
17:00	17:15	Christer Ejsing: Simultaneous flux analysis across all major lipid metabolic pathways by high-resolution mass spectrometry
17:15	17:20	Barut Brewing & Blending - special yeasts for special beer (sponsor)
17:20	18:00	Poster viewing & (special) Beer Tasting (sponsored)
		Chairperson: Günther Daum
18:00	18:30	Symeon Sinioglou: Compartmentalized synthesis of triacylglycerol at the inner nuclear membrane [Invited lecture]
18:30	18:45	Jana Patton-Vogt: Regulation and function of the PC deacylation-reacylation remodeling pathway (PC-DRP)
18:45	19:00	Cunqui Ye: Synthesis of membrane phospholipids influences redox metabolism to promote cell growth and survival
19:00	19:15	Mária Balážová: The specific degradation of phosphatidylglycerol
19:15	19:45	Sepp D. Kohlwein: Regulating the metabolic flow of fatty acids – a greasy line between life and death [Invited lecture]

## Thursday, May 23: Protein-membrane interactions & inter-organelle membrane contact sites

		Chairperson: Alenka Čopič
9:00	9:30	Pedro Carvalho: Regulation of organelle biogenesis at the endoplasmic reticulum [Invited lecture]
9:30	10:00	Maria Bohnert: Same-same, but different: determinants of lipid droplet diversity [Invited lecture]
10:00	10:15	Chao-Wen Wang: Seipin mediates sphingolipid homeostasis at a subdomain of the endoplasmic reticulum in close vicinity to the lipid droplet
10:15	10:35	Poster pitches 1 – Chairpersons: Nada Kraševc and Klavdija Pačnik
10:35	11:15	Coffee break & Poster viewing
		Chairperson: Françoise M. Roelants
11:15	11:45	Florian Fröhlich: Molecular mechanisms of sphingolipid homeostasis in the endolysosomal system [Invited lecture]
11:45	12:15	Jan Malinsky: Proposed sphingolipid sensor affects vacuolar morphology and function [Invited lecture]
12:15	12:30	Oliver Schmidt: Endosome and Golgi-associated degradation (EGAD) of membrane proteins regulates sphingolipid metabolism
12:30	13:00	Poster pitches 2 – Chairpersons: Klavdija Pačnik and Nada Kraševc
13:00	14:15	Lunch & Poster viewing (& Steering Committee's meeting)
		Chairperson: Toon de Kroon
14:15	14:45	Robert Ernst: Emerging roles of the UPR in membrane homeostasis [Invited lecture]
14:45	15:00	Patrick Rockenfeller: The RIM101 pathway regulates endosomal lipid traffic and metabolism
15:00	15:15	Sabrina Büttner: Age-dependent changes of membrane contact sites
15:15	15:30	Javier M. Hernandez: Mechanisms of cell-cell membrane fusion during yeast mating
15:30	16:15	Coffee break & Poster viewing
		Chairperson: Tim Levine
16:15	16:45	Alenka Čopič: Transport of phosphatidylserine by Osh6 in budding yeast [Invited lecture]
16:45	17:00	Ganiyu Alli-Balogun: Ice2p has properties of a SERINC-like regulator of membrane function, not an ER-plasma membrane tether
17:00	17:15	Françoise M. Roelants: TORC2-dependent phosphorylation of Ysp2 disrupts its association with beta-propeller proteins located at PM-ER contact sites
17:15	17:30	Derek McCusker: Avidity-driven polarity axis establishment via multivalent lipid-GTPase module interactions
17:30	17:45	Toon de Kroon: ERMES- and vCLAMP-facilitated intermembrane lipid transport is molecular species-selective
18:30		Conference dinner

## Friday, May 24: Yeast as a platform for lipid production (Acies Bio session)

		Chairperson: Klaus Natter
9:00	9:30	Jean-Marc Nicaud: <i>Yarrowia lipolytica</i> strains for usual and unusual lipid production and new tools for system biology and genetic engineering in this yeast [Invited lecture]
9:30	9:45	Martin Kavšček: <i>Yarrowia lipolytica</i> as chassis strain for bioproducts
9:45	10:00	Rodrigo Ledesma-Amaro: Synthetic biology strategies for the production of carotenoids in <i>Y. lipolytica</i>
10:00	10:15	Sylwia Jezierska: Redirecting the lipid metabolism of <i>Starmerella bombicola</i> from glycolipids to free fatty acid production
10:15	10:45	Coffee break & Poster viewing
		Chairperson: Milan Čertik
10:45	11:15	Tao Yu: Reprogramming yeast metabolism from alcoholic fermentation to lipogenesis
11:15	11:30	Klaus Natter: Optimization of the oleaginous phenotype in <i>Saccharomyces cerevisiae</i>
11:30	11:45	Dennis Lamers: Metabolic engineering of <i>Schwanniomyces occidentalis</i> for increased lipid productivity
11:45	12:00	Raffaella Desirè Di Lorenzo: Modulation of <i>Lipomyces starkeyi</i> 's fatty acids profile by metabolic engineering and optimization of single cell oils (SCOs) production
12:00	13:00	Lunch & Poster viewing
		Chairperson: Inge Van Bogaert
13:00	13:30	Harald Pichler: Terpenoid engineering in <i>Pichia pastoris</i> [Invited lecture]
13:30	13:45	Elia Tomás-Pejó: Efficient lipid production from organic wastes by <i>Y. lipolytica</i> : volatile fatty acid as novel low-cost substrates
13:45	14:00	Veerle Akkermans: Biosurfactants produced from oleaginous cell lysate; Why not?
14:00	14:15	Milan Čertik: Production of oil enriched with erucic acid by <i>Yarrowia lipolytica</i>
14:15	14:45	Closing ceremony & Invitation to the 15 <sup>th</sup> YLC in Gothenburg, Sweden

## Poster presentations

### Pitch presentations Thursday, May 23, 10:15-10:35

1	Manuel Gimenez Andres	Interaction of amphipathic helices with lipid droplets
2	Anshu Deewan	Integrating transcriptomics and metabolomics in the oleaginous yeast <i>Rhodospiridium toruloides</i>
3	Misako Araki	Sphingolipid/Pkh1/2-TORC1/Sch9 signaling regulates ribosome biogenesis in tunicamycin-induced stress response in <i>Saccharomyces cerevisiae</i>
4	Jordy Bauwelinck	Modelling the kinetics of different substrates for production of C18:1 dicarboxylic acids using <i>Candida tropicalis</i> ATCC20962
5	Juan Martin D'Ambrosio	Targeting of the yeast phosphatidylserine transporter Osh6 to membrane contact sites
6	Matthias Diepold	Physiological changes in <i>Saccharomyces cerevisiae</i> in response to inositol depletion
7	L. Roxana Gutierrez	Mechanisms for cell wall glucan deficiency due to abnormal sterols in yeast
8	Natalie Hammond	Identification and characterisation of protein-protein interactions mediating cholesterol transport and Niemann-Pick type C disease
9	Andrea Hároniková	Monitoring of lipid production by <i>Metschnikowia</i> yeasts
10	Cintya Del Rio Hernandez	Utilising genetic interaction network analyses to elucidate lipid-specific genetic epistasis for drug discovery
11	Annapurna Kamineni	Enhanced production of core lipids in <i>Yarrowia lipolytica</i>
12	Paulína Káňovičová	In vitro activity of phosphatidylglycerol specific phospholipase C
13	Alexander Kastaniotis	Octanoic and lipoic acid supplementation studies on yeast mutants defective for lipoic or mitochondrial fatty acid synthesis reveal a novel function for lipoyl transferase Lip3
14	Oliver Konzock	Abolishing hyphenation in <i>Yarrowia lipolytica</i> for reliable high lipid production
15	Nada Kraševac	Aegerolysins from entomopathogenic fungi bind to lipids

### Pitch presentations Thursday, May 23, 12:30-13:00

16	Dominika Kubalová	The role of mitochondrial membrane contact sites in homeostasis of phosphatidylglycerol in the yeast <i>Saccharomyces cerevisiae</i>
17	John Slee	Prediction of yeast FFAT motifs indicates proteins involved in lipid metabolism that target VAP on the endoplasmic reticulum, and identifies two new contact sites: ER-nucleolus and ER-eisosome
18	Sergej Limar	Survival factor 1 as a potential lipid transport protein in <i>Saccharomyces cerevisiae</i>
19	Tadej Markuš	Production of diterpenoids in <i>Yarrowia lipolytica</i>
20	Francesca Martani	Conversion of sugar beet residues into lipids by <i>Lipomyces starkeyi</i> for biodiesel production
21	Fernando Martinez	Regulation of fatty acyl chain-length by phosphorylation of the Fatty Acid Synthase Complex
22	Caiti McLuckie	Identification of genes that lead to increased neutral lipid accumulation across the <i>Saccharomyces cerevisiae</i> genome
23	Jakub Muraszko	Cell membrane composition is an important factor in <i>Candida albicans</i> antibacterial drugs resistance
24	Sarah Murphy	Investigating a novel antifungal drug that inhibits fatty acid desaturation
25	Mojca Ogrizović	Identification of genetic elements affecting neutral lipid accumulation with recurrent backcrossing in yeast <i>Saccharomyces cerevisiae</i>

26	Klavdija Pačnik	Characterization of novel regulatory factors involved in lipid storage metabolism
27	Young-kyoung Park	Push and pull odd chain fatty acids production by <i>Yarrowia lipolytica</i>
28	Mercedes Llamas Redondo	Lipid production from volatile fatty acids: screening of oleaginous yeasts
29	John Reinhard	Subcellular lipidomics to elucidate fingerprints of the stressed ER
30	Varvara Yu. Sekova	Lipid composition of the yeast <i>Yarrowia lipolytica</i> cells under pH- and thermal exposures
31	Kumaravel Ponnandai Shanmugavel	Roles of metal-binding domains in the Wilson's disease protein, ATP7B
32	Svyatoslav Sokolov	The roles of sterol transporters of LAM family in the stress tolerance of yeast <i>Saccharomyces cerevisiae</i>
33	Jakub Suchodolski	Biophysical changes in plasma membrane affect <i>Candida albicans</i> Cdr1 transporter and H <sup>+</sup> -ATPase
34	Oksana Tehlivets	Regulation of lipid metabolism by homocysteine goes beyond deficient phospholipid methylation
35	Magdalena Topolska	A novel, simple and direct assay for measuring fatty acid synthase activity and product specificity
36	Martin Valachovič	Differential utilisation of yeast ergosterol, mammalian cholesterol and plant sterols in <i>S. cerevisiae</i>

#### No pitch presentation

37	Apolonija Bedina Zavec	The budding yeast <i>Saccharomyces cerevisiae</i> as a tool to investigate lipid membrane interactions of Nep1-like proteins
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