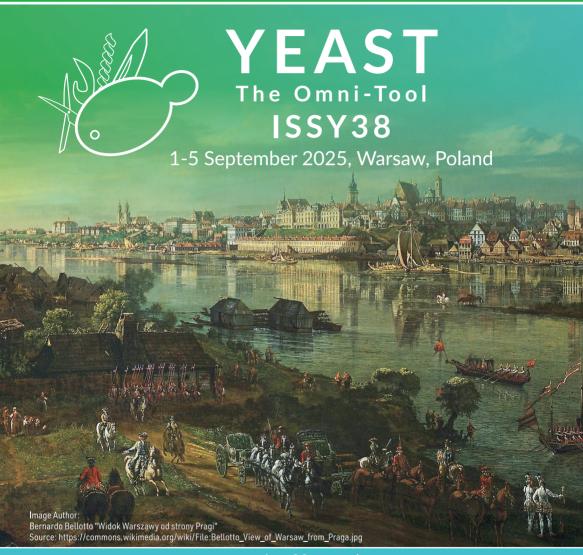
PROGRAM



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Organizers









	Monday, September 1 st 2025
12:00-18:00	Registration
15:30-18:00	OPENING CEREMONY Chair: Adrianna Skoneczna & Zbigniew Lazar
16:00-17:00	Yeast mating-type switching: a paradigm for studying the repair of a broken chromosome James Haber
17:00-18:00	Insights from the diversity of antifungal drug tolerance responses Judith Berman
18:00-21:00	Get together
	Tuesday, September 2 nd 2025
08:30-09:20	Using yeast to study the ubiquitin-proteasome system Mark Hochstrasser
09:20-10:10	DECIPHERING OF MOLECULAR MECHANISMS OF EUKARYOTIC CELLS WITH YEAST I Chair: Martin Kupiec & Joanna Kufel
09:20-09:40	A genetic screen reveals the mechanisms that control sister chromatid cohesion Martin Kupiec
09:40-09:50	WHO are you? – A new category of yeast mobile genetic elements at the borderline between homing and transposable elements Ludovic Monnin
09:50-10:00	Unilateral ends-out gene targeting increases mistargeting Petar Tomev Mitrikeski
10:00-10:10	Retrograde signalling in yeast <i>Candida albicans</i> Karolina Łabędzka-Dmoch
10:10-10:40	Coffee break
10:40-11:40	DECIPHERING OF MOLECULAR MECHANISMS OF EUKARYOTIC CELLS WITH YEAST II Chair: Joanna Kufel & Martin Kupiec
10:40-11:00	Non-canonical translation events in the yeast <i>Saccharomyces cerevisiae</i> Joanna Kufel

The head, rather than the tail. Metabolic responses are tuned to RNA polymerase III de novo, non-coding RNA synthesis through the Dhh1-dependent pre-translational gene regulation Malgorzata Adamczyk	
Deciphering the diverse role of Gal4 transcription factor in the regulation of central carbon metabolism of Saccharomycetaceae yeasts Riccardo Milanesi	
Glucose induces selective autophagy of methanol-induced native and heterologous cytosolic proteins in the yeast <i>Komagataella phaffii</i> Andriy Sibirny	
WARSAW TOUR	
Lunch	
FEMS Yeast Research Editorial Board meeting room No.116 on the 2 nd floor	
A genome-level screen identifies evolutionary conserved buffer genes that influence the phenotypic effect of <i>de novo</i> mutations in the yeast genome Kevin J. Verstrepen	
YEAST SCREENS I Chair: Brenda Andrews & Adrianna Skoneczna	
Cracking the code of the crabtree effect: enhancing <i>S. cerevisiaes</i> potential as a cell factory Samuel Hanon	
Time-resolved functional genomics using deep learning reveals a global hierarchical control of autophagy Jorrit Enserink	
Unravelling the natural complexity of protein secretion to develop novel yeast strains Dimitrios Konstantinidis	
Unveiling the potential of <i>Mrakia</i> : a genomic perspective on its role in low-alcohol beverage innovation Benedetta Turchetti	
Coffee break	
YEAST SCREENS II Chair: Adrianna Skoneczna & Brenda Andrews	
Yeast as an omni-tool for functional genomics and systems biology Brenda Andrews	

17:50-18:10	Small molecule fitness profiling of diverse Saccharomyces cerevisiae strains using a novel CRISPR-Cas9 marker-less barcoded library Vivien Measday
18:10-18:20	Small Volume – Big Problem: Culturing Yarrowia lipolytica in high-throughput micro-formats Ewelina Celińska
18:20-18:30	An effective inhibitor of SARS-CoV-2 Main Protease revealed by yeast system Andonis Karachitos
18:30-18:40	Identifying conserved aging regulators by high throughout lifespan screen in budding yeast Weiwei Dang
18:40-20:10	Poster session 1. Odd number posters
	Wednesday, September 3 rd 2025
09:00-09:50	Making yeast more powerful: from the beginning to the future Xin-Qing Zhao
09:50-11:00	METABOLISM AND METABOLOMICS I Chair: Diethard Mattanovich & Hiroshi Takagi
09:50-10:10	Metabolic pathway design for efficient conversion of single carbon substrates into building block chemicals Diethard Mattanovich
10:10-10:30	Hexokinase: the mysterious guardian of cellular energy Zbigniew Lazar
10:30-10:40	Production of an extracellular polysaccharide from crude glycerol in industrial waste by the oleaginous yeast <i>Rhodotorula toruloides:</i> Uncovering a component responsible for the production Shigeyuki Kawai
10:40-10:50	Metabolic engineering of <i>Yarrowia lipolytica</i> for the biosynthesis of vitamin A Jin Hou
10:50-11:00	Bioconversion of sugarcane industry residues to oleochemicals engaging the non-conventional oleaginous yeast <i>Pichia manshurica</i> Wesley Cardoso Generoso
11:00-11:30	Coffee break

11:30-12:50	METABOLISM AND METABOLOMICS II Chair: Ewelina Celińska & Diethard Mattanovich
11:30-11:50	A novel proline metabolism found in Saccharomyces cerevisiae and its application to biotechnology Hiroshi Takagi
11:50-12:10	Overcoming methanol toxicity for carbon-neutral overproduction of chemicals by enhancing cellular homeostasis and DNA repair Yongjin J. Zhou
12:10-12:20	The dynamics of ergosterol biosynthesis in pathogenic <i>Candida</i> species Olga Heidingsfeld
12:20-12:30	Nitrogen and phosphorus limitation as drivers of microbial lipid biosynthesis in waste hydrophobic media Katarzyna Wierzchowska
12:30-12:50	When science meets production: some practical considerations LALLEMAND
12:50-13:20	Coffee break
13:20-14:20	THE YOUNG RESEARCHERS FORUM Chair: Vivien Measday & Maciej Wnuk
13:20-13:50	How to think about and do successful research - cliffnotes for graduate students and post-docs Terry Cooper
13:50-14:20	Workshop
14:20-15:30	Conference photo and Lunch
15:30-16:20	Yeast as omni-tool to study host microbiome interactions Duccio Cavalieri
16:20-17:50	HUMANIZED YEAST IN HEALTH RESEARCH Chair: Ľubomír Tomáška & Teresa Żołądek
16:20-16:40	Expanding the yeast mitochondrial proteome by means of post-translational modifications ĽubomírTomáška
16:40-17:00	Studies in yeast revealed a molecular mechanism of neurodegenerative diseases linked to MT-ATP6 mutations Róża Kucharczyk
17:00-17:10	Genetic and environmental determinants of multicellular-like phenotypes in fission yeast Benjamin Heineike

17:10-17:20	Cell size and its role in determining physiological efficiency: key player or side effect? Renata Zadrąg-Tęcza	
17:20-17:30	Yeast as an omni-tool to study and functionalize fungal peptide-GPCRs for synthetic cell-cell communication, biosensing and as future antifungal drug targets Sonja Billerbeck	
17:30-17:40	Accelerated screening of cell factory designs with G protein-coupled receptor- based yeast biosensors Emil Damgaard Jensen	
17:40-17:50	Regulation of arsenic-induced protein aggregate formation, processing, and clearance: insights from genome-wide image-based screening Jakub Masaryk	
18:00-19:30	Poster session 2. Even numbers posters	
18:30	ICY Meeting Chopin I salon on the 2 nd floor of Bristol Hotel, Krakowskie Przedmieście 42/44, 7 min walk from the conference venue	
	Thursday, September 4 th 2025	
09:00-09:50	Continental scale variation of Saccharomyces yeasts Gianni Liti	
09:50-10:50	YEAST IN POPULATION AND EVOLUTION MODELS Chair: Cécile Neuvéglise & Matthias Sipiczki	
09:50-10:10	Recombination of allospecific mitogenomes in interspecies Saccharomyces hybrids Matthias Sipiczki	
10:10-10:20	Model-guided predictive evolution of metabolic phenotypes Paula Jouhten	
10:20-10:30	Testing the mitochondrial prey hypothesis of apoptosis origin Szymon Kaczanowski	
10:30-10:40	Surprising sympatric divergence of the wild Saccharomyces cerevisiae in a Chinese subtropical forest region home to the oldest lineage of the yeast Feng-Yan Bai	
10:40-10:50	Dici: a new Tc1/mariner transposon reshaping the genome of Diutina catenulata Cécile Neuvéglise	

10:50-11:20	Coffee break
11:20-13:00	FERMENTATION, FOOD AND BEVERAGES Chair: Francisco Carrau & Zbigniew Lazar
11:20-11:40	The shikimate pathway in <i>Hanseniaspora vineae:</i> a native eukaryotic model to enhance and study the biosynthesis of flavour bioactive compounds from aromatic amino acids Francisco Carrau
11:40-12:00	To touch or not to touch: The role of physical contact between cells of different yeast species in the wine microbial ecosystem Florian Bauer
12:00-12:10	Genome-based exploration of alcohol acyltransferases for flavor formation in the food yeast <i>Wickerhamomyces subpelliculosus</i> Su Jin Yoo
12:10-12:20	Yeast-assisted flavour improvement in pea protein-based yoghurt via controlled fermentation strategies Frederico Magalhães
12:20-12:30	The role of yeast in the production of sauerkraut Paweł Satora
12:30-12:40	Study of a potential CWI pathway like to <i>S. cerevisiae</i> in <i>B. bruxellensis</i> Maria Angelica Ganga
12:40-12:50	Single cell proteins from yeast: From production to nutritional and functional potential Nathalie Gorret
12:50-13:00	Evolution of maltose utilisation in wild Irish isolates of Saccharomyces eubayanus Sean Bergin
13:00-14:00	Lunch
14:00-15:10	YEASTS AS MOLECULAR FACTORIES I Chair: Paola Branduardi & Rodrigo Ledesma-Amaro
14:00-14:20	Sustainable food manufacturing using microbial metabolic engineering Rodrigo Ledesma Amaro
14:20-14:30	Sustainable biosynthesis of natural sunscreens: Mycosporine-like amino acids and phytoene production in engineered yeasts Ji-Sook Hahn
14:30-14:40	A survey for identification of endogenous Saccharomyces cerevisiae transporters capable of exporting succinic acid Andreea Perpelea

Evaluating alternative metabolic engineering strategies for 3-hydroxypropionic acid production in <i>Komagataella phaffii</i> Pau Ferrer
Converting lignocellulosic feedstocks to high-value lipophilic compounds: Cell disruption strategies for <i>Rhodotorula</i> Yashaswini Nagavara Nagaraj
Integrated analysis of <i>Yarrowia lipolytica</i> bioprocesses for hydrocarbons valorization: linking cell structure, lipids, and enzymes production Marlene Lopes
Coffee break
THE YOUNG RESEARCHERS REPORTS Chair: Vivien Measday & Maciej Wnuk
A single-molecule approach to the study of protein aggregation in response to stress Linde Viaene
A new look at hexokinase from <i>Yarrowia lipolytica</i> : crystallographic and functional analysis Kacper Szymański
Impact of yeast sequential inoculation strategies to diversify the aroma and flavour profiles of cider Siyamkele Solontsi
OMICS analyses of the wine yeast Hanseniaspora guilliermondii to ethanol stress Diogo Santos
Impact of glucose and propionic acid on even and odd chain fatty acid profiles of oleaginous yeasts Veronica Bonzanini
Yarrowia lipolytica, dimorphic transition and lipid synthesis Alejandro Ordonez
Unlocking the catalytic potential of yeast geranylgeranyl diphosphate synthase through metabolic-driven epistatic interactions Yueming Dong
Transcription factors as tools of massive operation in engineering of industrial traits in <i>Yarrowia lipolytica</i> Maria Gorczyca
Metabolic engineering of yeast cell factories to produce natural food colors Ingrid Lykke Mohr

	Developing a yeast-based platform for the valorisation of bioplastics in heterogeneous waste streams Daniele Vezzini	end-of-life
	Mechanism of Ssg1-mediated lifespan extension predicted in vacuolar transport of S-adenosylmethionine in budding Sayaka Kawasaki	
18:30-22:30	Conference dinner Address: Nowa Oranżeria, Agrykola 1, 00-460 Warszawa On foot: approximately one hour walk (4 km, 2.5 miles) from the conference venue By public transport: bus no. 180 Read the QR code to find the restaurant on Google maps	

	Friday, September 5 th 2025
09:00-11:00	YEASTS AS MOLECULAR FACTORIES II Chair: Paola Branduardi & Rodrigo Ledesma-Amaro
09:00-09:20	Yeast biodiversity and metabolic engineering for creating novel value chains in industrial biotechnology Paola Branduari
09:20-09:30	The journey of red yeast Rhodotorula toruloides from laboratory to industrial production Ivana Marova
09:30-09:40	Identification of novel secretion signals and screening of precision fermentation strains using a dual reporter system Parastoo Karimian
09:40-09:50	In vivo promoter shuffling enables streamlined engineering of yeast production strains Lena Hochrein
09:50-10:00	Synthetic communities of <i>Yarrowia lipolytica</i> for bioproduction Armand Bernard
10:00-10:10	Toxic and useful: harnessing yeast killer toxins for product recovery Ankita Suri
10:10-10:20	Metabolic engineering to bring progress to life™ Paul Klaassen

10:20-10:40	Continuous production of recombinant lipase CRL1 in <i>Pichia pastoris</i> under pGAP promoter using saccharified fruit bio-waste as the main carbon source: Evaluation of operational strategies Ana G. Del Hierro
10:40-11:00	Confluence of parallel advances in yeast-based synthetic biology, bioinformational engineering and bioelectronics Isak S. Pretorius
11:00-11:30	Coffee break
11:30-13:50	CLOSING CEREMONY
11:30-12:20	Systems biology of yeast metabolism Jens Nielsen
12:20-13:20	Awards ceremony
13:20-13:50	Closing remarks

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