

FINAL MEETING



Yeast4Bio

9 - 10 APRIL 2024
IMDEA Energy
Móstoles, Madrid (Spain)



 Funded by the Horizon 2020 Framework Programme of the European Union

PROGRAM



TRANSPORT FROM MADRID:

8:30 h

Plaza de España: C/ San Leonardo nº 12 (RedBar)

Príncipe Pío: Glorieta de San Vicente. Bus stop 08372, located at the entrance of Madrid Río, on the other side.

9TH OF APRIL

9:45-10:00	OPENING
10:00-11:00	INVITED LECTURE. Prof. Carlos Gancedo: “Non-conventional yeasts: the ugly ducklings that turned into beautiful swans”
Session I: Alternative Feedstock. Chairs: Pierre Fontanille and David Moreno	
11:00-11:15	Marta Pacheco, LNEG, Portugal: “Improving acetate production from syngas by <i>B. methylotrophicum</i> envisioning oleaginous fermentation by yeasts”
11:15-11:45	<i>COFFEE BREAK</i>
11:45-12:00	Ana Vrsalović Presečki, University of Zagreb, Croatia: “Application of multi-enzyme systems in the production of raspberry ketone from renewable sources - process development”
12:00-12:15	Cristina González-Fernández, IMDEA Energy & University of Valladolid, Spain: “Unusual short hydraulic retention times mediates higher conversion efficiency than long ones when targeting to carboxylates production”
12:15-12:30	Martin Rebros, Slovak University of Technology, Slovakia: “Crude glycerol as a feed stock for recombinant enzyme production by <i>Pichia pastoris</i> ”
Session II: Biofuels and Bioproducts from Non-conventional Yeasts. Chairs: Petri-Jaan Lahtvee and Volkmar Passoth	
12:30-12:45	Boris Gilis, University of Antwerp, Belgium: “Waste Valorisation: A biochemical approach to long-chain dicarboxylic acid production”
12:45-13:00	Jens Jakob Sigurðarson. BioPol ehf., Iceland: “Use of Alternative Solvents for Extraction of Lipids from <i>Thraustochytrids</i> ”
13:00-13:15	Nuno Faria, Instituto Superior Técnico, Portugal: “Biosurfactants from non-conventional yeasts: towards the sustainable production of mannosylerythritol lipids from renewable resources and applications”
13:15-15:00	<i>LUNCH</i>

15:00-15:15	Marta de Vicente, IMDEA Energy, Spain: "Organic waste conversion into odd-chain fatty acids via carboxylates platform by newly recombinant oleaginous yeast"
15:15-15:30	Volker Sieber, Technische Universität München, Germany: "Utilizing <i>Pichia pastoris</i> for enzyme production in a biorefinery based on cyanobacterial biomass"
15:30-15:45	Andriy A. Sibirny, University of Rzeszow, Poland: "Toward efficient ethanol production from lignocellulosic hydrolysates under elevated temperatures"
15:45-16:00	Csaba Fehér, Budapest University of Technology and Economics, Hungary: "Xylitol production on lignocellulosic hydrolysates"
16:00-16:15	María-Isabel González-Siso, University of La Coruña, Spain: "Yeast for the heterologous production of thermophilic xylanases"
16:15-16:30	Thibo Van de Craen, Ghent University, Belgium: "Microbial upcycling of food waste with <i>Starmerella bombicola</i> for new-to-nature biosurfactant production"
16:30-16:45	Adnan Asad Karim, University of Jaén, Spain: " <i>Hansenula polymorpha</i> application for advanced biofuels production"
16:45-17:00	Volha Shapaval, Norwegian University of Life Sciences, Norway: " <i>Rhodotorula</i> yeast as cell factories for Flexible Biorefineries"
20:30-22:30	Dinner at the Gloria de Montera Restaurant. <u>C. del Caballero de Gracia, 10, 28013 Madrid</u> (only for those that have signed up and paid in advance)

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Cont. Session II: Biofuels and Bioproducts from Non-conventional Yeasts. Chairs: Cecilia Geijer and Csaba Fehér

9:30-9:45	Inge Van Bogaert, Ghent University, Belgium: "Selection and engineering of novel non-pathogenic yeasts for long-chain dicarboxylic acid production starting from waste oil"
9:45-10:00	Ümit Cem Derman, Pak-Gıda Üretim ve Pazarlama A.Ş., Kocaeli, Turkey: "Valorisation of vinasse to single cell protein via two-stage acidogenic and aerobic fermentations"
10:00-10:15	Panagiotis Dritsas, University of Patras, Greece: "The yeast extract as a nitrogen source for <i>Yarrowia lipolytica</i> "

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10:15-10:30	Sara Metri, University of Technology of Compiègne, France: "Valorization of sugar beet molasses for the production of 2-phenylethanol by the yeast <i>Yarrowia lipolytica</i> "
Session III Short-term Scientific Missions. Chairs: José Luís Martínez and Hana Sychrová	
10:30-10:40	Claudia de Micco, University of Bari Aldo Moro, Italy: "Strain improvement through metabolic engineering approaches to enhance stress tolerance in the non-conventional yeast <i>Kluyveromyces marxianus</i> "
10:40-10:50	Manuel F. Blanco, CIEMAT, Spain: "Adaptation of the CRISPR/Cas9 genome editing tool in <i>Kluyveromyces marxianus</i> CECT 10875"
10:50-11:00	Darko Dimitrovski, Ss. Cyril and Methodius University, North Macedonia: "Steam explosion as a pretreatment for enzyme hydrolysis of flax seed fibers"
11:00-11:10	Anna Bzducha-Wróbel, Warsaw University of Life Sciences, Poland: "Emulsifying properties of mannoprotein preparations of <i>Wickerhamomyces anomalus</i> cultivated on brewers' hops hydrolysate"
11:10-11:40	COFFEE BREAK
11:40-11:50	Burcu Gündüz Ergün, Field Crops Central Research Institute – Biotechnology Research Center, Turkey: "Transcriptional Engineering of <i>Pichia pastoris</i> "
11:50-12:00	Mònica Estrada, DTU, Denmark: "Exploiting the capability of <i>Debaryomyces hansenii</i> for the revalorization of VFAs-rich organic digestates through microbial oil production"
12:00-12:10	Helena Chacón, University of Córdoba, Spain: "Exploring <i>Debaryomyces hansenii</i> biocontrol activity and its application in food industry"
12:10-12:20	Cosetta Ciliberti, University of Bari Aldo Moro, Italy: "Microbiological conversion of acetate into value-added products"
12:20-12:30	Carlos Belloch, University College Cork, Ireland: "Optimisation of protein production under industrial conditions in the non-conventional yeast <i>Kluyveromyces marxianus</i> "
12:30-12:40	Eugenia Messina, University of Bari Aldo Moro, Italy: "Metabolic engineering for lipids synthesis, exploiting the mitochondrial transporter YICrc1 involved in the transport of Acetyl-CoA in the oleaginous yeast <i>Yarrowia lipolytica</i> "
12:40-12:50	Roghayeh Shirvani, TU Wien, Austria: "Characterization of the recombinant formolase enzyme produced in non-conventional yeast <i>K. phaffii</i> "

12:50-15:00	LUNCH – MC meeting from 12:50 to 13:40 -
Session IV Molecular Biology of Non-conventional Yeasts & Session V Industrial Perspectives. Chairs: Paola Branduardi and John Morrissey	
15:00-15:15	Hanna Alalam, Chalmers University, Sweden: “A highly efficient CRISPR/CAS9 toolbox for <i>Candida intermedia</i> ”
15:15-15:30	Milan Čertík, Slovak University of Technology, Slovak Republic: “Construction of <i>Yarrowia lipolytica</i> strains for biosynthesis of insect hormone precursors“
15:30-15:45	Urartu Ö. Ş. Şeker, Bilkent University, Turkey: “Synthetic Biology of Non-Conventional Yeast”
15:45-16:00	Hana Sychrová, Institute of Physiology, Prague, Czechia: “ <i>K. marxianus</i> Hak1 is a powerful potassium transporter”
16:00-16:15	Pietro Butti, University of Milano Bicocca, Italy: “Repurposing <i>Kluyveromyces marxianus</i> aromatic compounds chassis strains for the production of violacein-related dyes”
16:15-16:30	Triinu Visnapuu, University of Tartu, Estonia: “Yeast maltases with transglycosylating activity to synthesize rare oligosaccharides”
16:30-16:45	Brigitte Gasser, University of Natural Resources and Life Sciences, Austria: “Systematic sequence engineering enhances the induction strength of the glucose-regulated GTH1 promoter of <i>Komagataella phaffii</i> and reveals carbon-source responsive elements”
16:45-17:00	Patri-Jaan Lathvee, Tallinn University of Technology & ÄIO Co-founder. Estonia. “Industrial perspectives of non-conventional yeast”
17:00-17:15	CLOSING