

BioTech Research
& Innovation Hack

2021
AGENDA

27-29 September 2021

Online on Webex
Registration under:

<https://ec.europa.eu/eusurvey/runner/BioTechRnIHack2021>



Monday, 27 September 2021

Opening of the BioTech R&I Hack 2021

 Boris VASHEV,
FNR, DE

KEYNOTE 1:

ERA CoBioTech - A Success Story

09:30-10:10

 Hanna STEFFENS,
Pt Jülich, DE

Announcement of the 3. BioTech Hub Meeting

 Christin WEIGEL,
SMWK, DE

Announcement of ERA CoBioTech Final event

 Katja Ceglar,
MIZS, SI

Bio-based replacement products, technologies and processes

Kick off seminar of 3rd Call projects

10:10 - 10:35

Cell4Chem: Engineering microbial communities for the conversion of lignocellulose into medium-chain carboxylates

 Heike STRÄUBER
Helmholtz Centre for Environmental Research – UFZ, DE

10:35 - 11:00

SynBioMet: Synthetic Biology for Sustainable Production of the Methionine Analogon HMTB

 Thomas WALTHER
Technische Universität Dresden, DE

11:00 - 11:15

BREAK

11:15 - 11:40

OLEOFERM: Sustainable oleochemicals bioproduction from carboxylates via oleaginous fermentation

 Cristina GONZÁLEZ
IMDEA Energy, ES

11:40 - 12:05

MCM4SB: Replacing food-competing feedstocks with Methanol, CO₂ and Methylamine for a Sustainable Bioeconomy

 Berna SARIYAR AKBULUT
Marmara University, TR

12:05 - 12:30

ContiBio: Continuous bioprocessing of microbial co-cultures: directing population by nutrient pulsing based on single cell data

 Frank DELVIGNE
University of Liège, BE

12:30 - 13:00

LUNCH BREAK

13:30 - 14:00

KEYNOTE 2:

ERA CoBioTech's Policy Brief

 Manuel Sánchez Blanco,
FECYT, ES

Microbial communities, co-cultures and cascades of microorganisms for new products, value-added products and supply services and sustainable industrial processes

Midterm seminar of 2nd Call projects

14:00 - 14:30

MILIMO: Microbial conversion of lignin to monomers for bio-based plastics using synthetic biology

 Timothy BUGG
University of Warwick, UK

14:30 - 15:00

MIPLACE: Microbial integration of plastics in the circular economy

 Jose JIMENEZ
Imperial College London, UK

15:00 - 15:15

Break

15:15 - 15:45

SynConsort4Butanol: Sustainable Production of n-Butanol by Artificial Consortia Through Synthetic and Systems Biology Approaches

 Philippe SOUCAILLE
LISBP, INSA, University of Toulouse, FR

15:45 - 16:15

SYCOLIM: Synthetic microbial communities for the production of limonene derived products

 Rodrigo LEDESMA-AMARO
Imperial College London, UK

16:15 - 16:45

SYNBIOGAS: Synthetic landfill microbiomes for enhanced anaerobic digestion to biogas

 James MCDONALD
Bangor University, UK


Tuesday, 28 September 2021

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| 09:00-09:30 | KEYNOTE 3: Welcome Address from the European Commission | Tomasz CALIKOWSKI, <i>EC, BE (tbc)</i> |
| | KEYNOTE 4: Acies Bio - Bringing Synthetic Biology to Efficiency and Scale | Gregor KOSEC, <i>Acies Bio Ltd., SI</i> |

 Biotechnology for a sustainable bioeconomy
Final seminar of cofunded projects I

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| 09:30 - 10:00 | YogurtDesign: Microbial community modeling for the production of 'designer' yogurt | Bas TEUSINK <i>Vrije Universiteit Amsterdam, NL</i> |
| 10:00 - 10:30 | INDIE: Biotechnological production of sustainable indole | Katarina CANKAR <i>Wageningen Plant Research, NL</i> |
| 10:30 - 11.00 | ScaleApp: Investigating large scale bioreactor effects in microbial application | Marco OLDIGES <i>Forschungszentrum Jülich GmbH, DE</i> |
| 11:00 - 11:15 | BREAK | |
| 11:15 - 11:45 | MISSION: Streamlined Streptomyces cell factories for industrial production of valuable natural products | Andriy LUZHETSKYY <i>University of Saarland, DE</i> |
| 11:45 - 12:15 | SYNTHEROIDS: Synthetic Biology for Industrial Production of Steroids | Alberto SOLA <i>Instituto de Biología de León (INBIOTEC), ES</i> |
| 12:15 - 12:45 | BestBioSurf: Synthetic Biology for the development of novel, cheap and efficient biosurfactants | Philippe JACQUES <i>University of Liège, BE</i> |

12:45 - 13:30 LUNCH BREAK

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| 13:30 – 14:00 | KEYNOTE 5: BBI JU achievements and some highlights on the future CBE JU | Virginia PUZZOLO, <i>BBI JU, BE</i> |
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 Biotechnology for a sustainable bioeconomy
Final seminar of cofunded projects II

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| 14:00 - 14:30 | MemBRane: MemBRane Modulation for Bioprocess enhancement | Alan GODDARD <i>Aston University, UK</i> |
| 14:30 - 15:00 | COMRADES: Computation for Rational Design: From Lab to Production with Success | Amit DESHMUKH & Henk NOORMAN <i>DSM, NL</i> |
| 15:00 - 15:15 | BREAK | |
| 15:15 - 15:45 | TRALAMINOL: Enzyme platform for the synthesis of chiral aminoalcohols | Wolf-Dieter FESSNER <i>Technical University of Darmstadt, DE</i> |
| 15:45 - 16:15 | HotSolute: Thermophilic bacterial and archaeal chassis for extremolyte production | Bettina SIEBERS <i>University of Duisburg-Essen, DE</i> |
| 16:15 - 16:45 | BioDiMet: Methyl Transferases for the Functional Diversification of Bioactives | Michael RICHTER <i>Fraunhofer IGB, DE</i> |



Wednesday, 29 September 2021

9:00 - 9:30 **KEYNOTE 6:**
Turning Science Around? Responsible Research & Innovation in ERA CoBioTech **Robert SMITH,**
University of Edinburgh, UK

Biotechnology for a sustainable bioeconomy
Final seminar of cofunded projects III

09:30 - 10:00 **WooBadh:** Environmentally-friendly bioadhesives from renewable resources **María Teresa MOREIRA**
University of Santiago de Compostela, ES

10:00 - 10:30 **C1Pro:** Microbial conversion of C₁ to value-added products by integrated systems and synthetic biology **Trygve BRAUTASET**
Norwegian University of Science and Technology, NO

10:30 - 11:00 **CoolWine:** Model-guided evolution for balanced attenuation of wine ethanol content by developing non-GMO yeast strains and communities **Kiran PATIL**
EMBL & University of Cambridge, UK

11:00 - 11:15 BREAK

11:15 - 11:45 **MERIT:** MicroalgaE as Renewable Innovative green cell factories **Olaf KRUSE**
Bielefeld University, DE

11:45 - 12:15 **SUSPHIRE:** Sustainable Bioproduction of Pheromones for Insect Pest Control in Agriculture **Diego ORZAEZ**
Agencia Estatal Consejo Superior de Investigaciones Científicas IBMCP, ES

12:15 - 12:45 **BioMetCHEM:** Sustainable Production of Added Value Chemicals from SynGas-derived Methanol Through Systems and Synthetic Biology Approaches **Philippe SOUCAILLE**
LISBP, INSA, University of Toulouse, FR

12:45 - 13:30 LUNCH BREAK

13:30 - 14:00 **KEYNOTE 6:**
From SysMO-DB to FAIRDOM, Data Management for Life Science ERANets and Beyond **Olga KREBS & Wolfgang MÜLLER,**
Hits gGmbH, DE

Biotechnology for a sustainable bioeconomy
Final seminar of cofunded projects IV

14:00 - 14:30 **Sustainable co-production:** Tobacco as sustainable production platform of the natural biopolymer cyanophycin as co-product to oil and protein **Inge BROER**
University of Rostock, DE

14:30 - 15:00 **RHODOLIVE:** Biovalorization Of Olive Mill Wastewater To Microbial Lipids And Other Products via Rhodotorula Glutinis Fermentation **Alper KARAKAYA**
Düzen Biological Sciences R&D and Production Company, LE, TR

15:00 - 15:15 BREAK

15:15 - 15:45 **BESTER:** Bioprocesses for the optimized, integrated production of butyl esters from sustainable resources **Alexander WENTZEL**
SINTEF, NO

15:45 - 16:15 **HOMBIOCAT** Fabrication of hierarchically organized multi-functional heterogeneous biocatalysts for the modular synthesis of ω -amino acids from renewable feedstocks **Aitziber L. CORTAJARENA**
CIC biomaGUNE, Biomolecular Nanotechnology, ES

16:15 - 16:45 **IRONPLUGPLAY:** Electric plug adapters for proteins: Activating iron-sulfur enzymes to fully exploit Nature's catalytic potential for biotechnology **Gregory BOKINSKY**
Delft Technical University, NL

16:45 - 17:00 Closure of BioTech Research and Innovation Hack 2021 **Boris VASHEV, FNR, DE**

BioTech Research & Innovation Hack 2021 Organising Team



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 Biological Sciences
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