

BioTech Research & Innovation Hack 2017

AGENDA

5-6 December 2017, conference room "Auditorium"

The International Auditorium, International Trade Union House,
Boulevard du Roi Albert II, No. 5 / 2 , B-1210 Brussels

08:00  **Registration / Coffee**

08:30-8:40	Welcome	
08:40-09:00	MirrorBio: Establishment of a fully synthetic, mirror-image biological system	Jörg HOHEISEL, <i>German Cancer Research Center, DE</i>
09:00-09:20	SysVirDrug: Translating systems virology data into broad-spectrum antiviral drugs	Lars KADERALI, <i>University of Greifswald, DE</i>
9:20-9:40	NeBrasCa: Next Generation Immunosuppressants: Brasilicardin synthesized by <i>Nocardia</i> spp	Harald GROSS, <i>University of Tuebingen, DE</i>
9:40-10:00	IMOMESIC: Integrating Modelling of Metabolism and Signalling towards an Application in Liver Cancer	Ursula KLINGMÜLLER, <i>German Cancer Research Center, DE</i>
10:00 – 10:30	 Coffee break	
10:30-11:30	Speed networking	all
11:30-11:50	Sun2Chem: Engineering the chloroplast of microalgae as a chassis for the direct production of solar fuels and chemicals	Thomas HAPPE, <i>Ruhr University Bochum, DE</i>
11:50-12:10	CHEMBEET: Biofuels and green chemicals from sugar beet through direct processing	Hans van KLINK, <i>Dutch Sustainable Development BV, NL</i>
12:10-12:30	SynPath: Synthetic biochemical pathways for efficient production of novel biofuels	Lars Mathias BLANK, <i>RWTH- Aachen University, DE</i>
12:30-13:40	 Lunch break	
13:40-14:00	FILAZYME: Novel approaches to develop filamentous microorganisms for enzyme production	Erik VIJGENBOOM, <i>Institute of Biology Leiden University, NL</i>
14:00-14:20	INTENSIFY: Intensification of the synthetic biology design cycle	Sven PANKE, <i>ETH Zurich, CH</i>
14:20-14:40	LIGBIO: A Synthetic Biology approach for bacterial bioconversion of lignin into renewable chemicals	Timothy BUGG, <i>University of Warwick</i>
14:40-15:00	OXYPOL: Optimized laccase systems for high-value bioplastics production from biomass	Alexander WENTZEL, <i>Stiftelsen SINTEF, NO</i>
15:00 – 15:30	 Coffee break	
15:00-16:30	Poster session	25 posters from 6. JC ERA-IB-2, 2. JC ERASysApp and 2. JC ERASynBio projects
16:30-16:50	DYNAMICS: Analysis and optimization of industrial microorganisms under dynamic process conditions	Aljoscha WAHL, <i>Delft University of Technology</i>
16:50-17:10	Bio Molecular Origami: establishing foundations in structural synthetic biology to engineer biomolecules for new routes to nanoscale objects and biomaterials	Roman JERALA, <i>National Institute of Chemistry, SI</i>
17:10-17:30	EcoYeast: Mastering the economics of adaptation through constraint-based modeling in yeast	Bas TEUSINK, <i>VU University Amsterdam, NL</i>
17:30-17:50	MetaCat: A metagenomic collection of novel and highly efficient biocatalysts for industrial biotechnology	Wolfgang STREIT, <i>University Hamburg, DE</i>
17:50	End of day 1	

18:00-20:00 **Joint Diner**

08:00

Registration / Coffee

08:30-08:50	SysMilk: Designer microbial communities for fermented milk products: A Systems Biology Approach	Kiran Raosaheb PATIL, <i>European Molecular Biology Laboratory, De</i>
08:50-09:10	PROCAR: the exploitation of Xanthophyllomyces dendrorhous as a sustainable platform for the PROduction of high-value CARotenoids	Paul FRASER, <i>Royal Holloway University of London, UK</i>
09:10-09:30	IESY: Induced Evolution of Synthetic Yeast genomes	Joel BADER, <i>Johns Hopkins School of Medicine, USA</i>
09:30-09:50	WineSys: GMO free systems optimization of wine yeast for wine production by massive scale directed evolution	Eivind ALMAAS, <i>Norwegian University of Science & Technology, NO</i>
09:50-10:10	RETROBIO: A twofold retrosynthetic implementation of a novel biochemical pathway	Sven PANKE, <i>ETH Zurich, CH</i>

10:10-10:40

Coffee break

10:40-11:00	SysMetEx: Systems Biology of acidophile biofilms for efficient metal extraction	Ansgar Poetsch, <i>Ruhr University Bochum, DE</i>
11:00-11:20	Cropclock: Increasing crops biomass by uncovering the circadian clock network using dynamical models	Jorge GONCALVES, <i>University of Luxembourg, LU</i>
11:20-11:40	CtoC farming: Cradle to cattle farming	Reinerus CORNELISSEN, <i>Cornelissen Consulting Services B.V., NL</i>
11:40-12:00	SynGlycTis: Synthetic Glycobiology - new strategies to build and functionalise proto-cells and proto-tissues	Bruce TURNBULL, <i>ETH Zurich, CH</i>
12:00-12:20	ChitoTex: Development and production of new insect chitosan and chitosan based functional coatings for yarns and textile fabrics	Susanne ZIBEK, <i>Fraunhofer IGB, DE</i>

12:20-13:20

Lunch break

13:20-14:20	Panel discussion <i>Biotech for competitive and sustainable Industrial Innovation</i>	
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14:20-14:40	FAIRDOM: Next generation of data and model management services in Europe	Wolfgang Müller or Carole Goble (<i>tbd</i>)
14:40-15:00	MetApp: Systems biology of bacterial methylotrophy for biotechnological products from methanol	Trygve BRAUTASET, <i>SINTEF Materials and Chemistry, NO</i>
15:00-15:20	CO₂CHEM: Biological conversion of CO ₂ to the platform chemical 3-hydroxypropanoic acid	Peter DÜRRE, <i>University of Ulm, DE</i>
15:20-15:40	ICOCAD: Development of an Innovative Concept for Carbon Dioxide Utilization as Side Stream of Integrated Bio-refinery Concepts	Gunther KOLB <i>Fraunhofer ICT-IMM, DE</i>

15:40-16:10

Coffee break

16:10-18:00	Interactive session <i>(Networking, pitching & match making)</i>	all
18:00	End of Day 2	

Poster session
(15:00-16:00, 05.12.2017)
Group A

Nr.	Time	Title	Speaker
A1	15:00-15:10	ASTINPROD: Enhancing production of the antitumor compound astin by a novel fungal endophyte of <i>Aster tataricus</i>	Jutta LUDWIG-MÜLLER, <i>TU Dresden, DE</i>
A2	15:10-15:20	SYSTERACT: Systematic Rebuilding of Actinomycetes for Natural Product Formation	Alexander WENTZEL, <i>SINTEF Materials and Chemistry, NO</i>
A3	15:20-15:30	LEANPROT: Systems biology platform for the creation of lean-proteome <i>Escherichia coli</i> strains	Raivo VILU, <i>Competence Center of Food and Fermentation Technologies, EE</i>
A4	15:30-15:40	MiniCell: A model-driven approach to minimal cell engineering for medical therapy	Luis SERRANO, <i>Centre de Regulació Genòmica, ES</i>
A5	15:40-15:50	FunBioPlas: Novel synthetic biocomposites for biomedical devices	Raul MACHADO, <i>University of Minho, PT</i>

Group B

Nr.	Time	Title	Speaker
B1	15:00-15:10	SurfGlyco: Enhanced fermentative and biocatalytic conversion strategies of renewables to tailor-made glycolipid biosurfactants	Steffen RUPP, <i>Fraunhofer IGB, DE</i>
B2	15:10-15:20	YeastTempTation: Tailoring thermotolerant yeasts for more sustainable, eco-efficient and competitive industrial fermentations	Jose Manuel GUILLAMON, <i>CSIC, Institute of Agrochemistry and Food Technology, ES</i>
B3	15:20-15:30	TTRaFFIC: Toxicity and Transport for Fungal production of Industrial Compounds	Nick WIERCKX, <i>RWTH Aachen University, DE</i>
B4	15:30-15:40	ROBUSTYEAST: Optimizing metabolic regulation in yeast production strains for dynamic conditions	Steffen WALDHERR, <i>Otto-von-Guericke University Magdeburg, DE</i>
B5	15:40-15:50	CrossCat: Symbiosis of bio- & chemo-catalysts for the sustainable conversion of hemicelluloses	Thomas BLEY, <i>TU Dresden, DE</i>

Group C

Nr.	Time	Title	Speaker
C1	15:00-15:10	ECFexpress: An orthogonal, organism-independent expression platform based on extracytoplasmic function (ECF) sigma factors	Thorsten MASCHER, <i>TU Dresden, DE</i>
C2	15:10-15:20	TNAepisome: Design and Synthesis of a Bio-orthogonal Genetic System Based on Threose Nucleic acids In Vivo	John CHAPUT, <i>Arizona State University, USA</i>
C3	15:20-15:30	UNACS: A Unified Nucleic Acid Computation System for Organisms	Friedrich SIMMEL, <i>TU München, DE</i>
C4	15:30-15:40	invivoXNA: Orthogonal biosystems based on phosphonate XNAs	Vitor PINHEIRO, <i>University College London, UK</i>
C5	15:40-15:50	MODULIGHTOR: Synthetic photoswitchable modulators to harness endogenous proteins in vivo: remote control of pentameric ligand-gated ion channels with light	Pau GOROSTIZA, <i>Institute for Bioengineering of Catalonia (IBEC), ES</i>

Group D

Nr.	Time	Title	Speaker
D1	15:00-15:10	2GEnzymes: Enzymes for 2G Sugars	Tino ELTER, <i>Fraunhofer CBP, DE</i>
D2	15:10-15:20	XyloCut: Shortcut to the carbon efficient microbial production of chemical building blocks from D-xylose	Lisa Wasserstrom, <i>Lund University, SE</i>
D3	15:20-15:30	No-P: Enzymatic sugar coupling	Ulf HANEFELD, <i>Technische Universiteit Delft, NL</i>
D4	15:30-15:40	Z-Fuels: A novel bacterial system with integrated micro-bubble distillation for the production of acetaldehyde	Graeme HITCHEN, <i>Perlemax Limited, UK</i>
D5	15:40-15:50	BioProMo: Biotechnological Production of Monoterpenoids	Jens SCHRADER, <i>DECHEMA-Forschungsinstitut, DE</i>

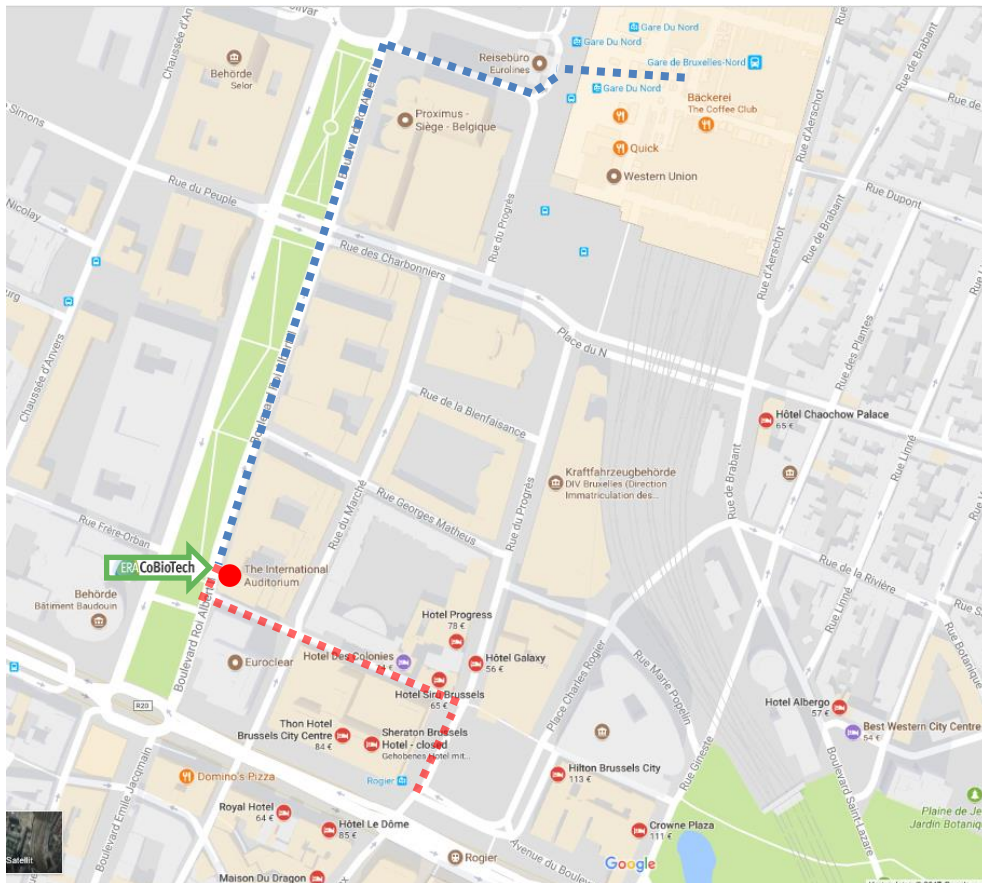
Group E

Nr.	Time	Title	Speaker
E1	15:00-15:10	FAPA: Fumaric Acid for Polymer Applicants	Ulf PRÜSSE, <i>Thünen-Institute of Agricultural Technology, DE</i>
E2	15:10-15:20	Convert-Si: Conversion of phytogetic silica reach food industry by-products into value-added products	Florin OANCEA, <i>National Research and Development Institute for Chemistry and Petrochemistry, RO</i>
E3	15:20-15:30	FunChi: Fungal Chitosans from Fermentation Mycelia for Plant Biostimulants	Bruno M.MOERSCHBACHER, <i>WWU Münster University, DE</i>
E4	15:30-15:40	SMARTPLANTS: Control of Engineered Metabolism by Flowering and Temperature Triggered Plant Regulatory Networks	Alain TISSIER, <i>Leibniz-Institute of Plant Biochemistry, DE</i>
E5	15:40-15:50	RootBook: Systems analysis of peptide-mediated cell-cell communication in the plant root by in situ sequencing	Manfred CLAASSEN, <i>ETH Zurich, CH</i>

How to reach the BioTech Research & Innovation Hack 2017 venue:

**The International Auditorium, International Trade Union House,
Boulevard du Roi Albert II, No. 5 / 2 , B-1210 Brussels**

Conference hall: Auditorium



- The International Auditorium
- - - - - 300 m (4 Min. walk) from Metro station Rogier
- - - - - 500 m (6 Min. walk) from Gare de Bruxelles-Nord

Hotels near the venue

Hotel Des Colonies

*Rue des Croisades 6,
1210 Saint-Josse-ten-Noode, Belgien*

Reservations Offices

E-mail: res2@hotel-des-colonies.com

Tel.: +32 2 205 16 00

<http://www.hotel-des-colonies.com/>

Hotel Siru

*Rue des Croisades 2,
1210 Bruxelles, Belgien*

Reservations

Email: Res@hotelsiru.com

Tel.: +32 2 203 33 03

hotelsiru.com

Hotel Progress

*Rue du Progrès 9,
1210 Saint-Josse-ten-Noode, Belgien*

Reservations Offices

Email: res2@progresshotel.be

Tel.: +32 2 205 17 00

<http://www.progresshotel.be/>

Thon Hotel Brussels City Centre

*Avenue du Boulevard 17,
1210 Brussels*

Reservations

Email: brusselcitycentre@thonhotels.be

Tel.: +32 2 205 15 11

<https://www.thonhotels.com>

Hilton Brussels City

*Place Charles Rogier 20,
1210 Bruxelles, Belgien*

Reservations

Email: res.brusselcity@hilton.com

Tel.: +32 2 203 31 25

hilton.com

Hôtel Le Dôme

*Boulevard du Jardin Botanique 9,
1000 Bruxelles*

Reservations

Email: dome@skypro.be

Tel.: +32 2 218 06 80

<http://www.hotel-le-dome.be/>