
Program

Tuesday, June 13, 2017

Pre-Conference Events

Venue: National Technical Library, Balling Hall

9:00 NBO-Workshop: Reinforcing the links between industry, research and biotechnology education

Chairperson: **Karin Kovar**, *Institute of Biotechnology, ZHAW, Switzerland* (Open for public)

13:00 Publishing in academic journals: tips to help you succeed

Lecturer: **Jennifer Stokes**, *Taylor & Francis Group* (Open for public)

Venue: National Technical Library, Hall 1

10:00 Production of biobutanol and succinic/lactic acid from lignocellulose biomass: bilateral Czech-Chinese Inter-Action project, teamwork meeting

Chairpersons: **Leona Paulová** *Department of Biotechnology, UCT Prague, Czech Republic*, **Jianan Zhang** *Institute of Nuclear and New Energy Technology, Tsinghua University, China* (Private session)

Tuesday, June 13, 2017

Conference Events

Venue: National Technical Library, Balling Hall

15:00 Official Conference Opening

15:10 Welcome by **Pavel Bělobrádek**, Deputy Prime Minister for the Science, Research and Innovation, Chairman of the Research, Development and Innovation Council

15:20 Welcome by **Eva Zažímalová**, President of the Czech Academy of Sciences

15:30 Welcome by **Ondřej Kolář**, Mayor of Prague 6, Czech Republic

15:40 Welcome by **Karel Melzoch**, rector of UCT Prague, Czech Republic

15:50 Welcome by **Urs Hilber**, dean of ZHAW, Switzerland

16:00 Welcome by **Ulf Grawunder**, vice president of the Swiss Biotech Association

16:15 Plenary Lecture:

FROM AVIDIN-BIOTIN TO CELLULOSOME TECHNOLOGIES: A JOURNEY THROUGH TIME...

Ed Bayer *Department of Biomaterial Sciences, The Weizmann Institute of Science, Israel*

18:00 Welcome Party (*Venue: Gallery of National Technical Library*)

Wednesday, June 14, 2017

Venue: National Technical Library, Balling Hall

9:00 Plenary Lecture:

MOLECULAR MECHANISM OF THE GENOME EDITOR NUCLEASE CAS9

Martin Jinek *University of Zurich, Switzerland*

10:00 Coffee break

Wednesday, June 14, 2017

Biorefinery

Venue: National Technical Library, Balling Hall

Chairpersons: **Petra Patáková** *Department of Biotechnology, UCT Prague, Czech Republic*, **Ivana Márová** *Institute of Food Science and Biotechnology, Brno University of Technology, Czech Republic*, **Murray Moo-Young** *University of Waterloo, Canada*

- 10:30** Syngas fermentation design for hybrid biorefineries (Invited lecture)
Henk Noorman *Delft University of Technology, Netherland*
- 10:55** The phototroph biorefinery: emerging microalgae in the bioeconomy (Invited lecture)
Spiros Agathos *Bioengineering Laboratory, Catholic University Louvain, Belgium*
- 11:20** Microbial production of required metabolites in plant/animal biorefinery (Invited lecture)
Petra Patáková *Department of Biotechnology, UCT Prague, Czech Republic*
- 11:45** Fermentation of glycerol by *Paracoccus denitrificans* under sub-lethal high pressure levels
Maria João Mota *University of Aveiro, Portugal*
- 12:10** Production of fuels from Macroalgae (Invited lecture)
Ana Lopez-Contreras *Wageningen University, Netherlands*
- 12:30-13:30** Lunch
- 13:30** Leveraging yeast potential for the valorization of biomasses into valuable bioproducts (Invited lecture)
Danilo Porro, Paola Branduardi *Department of Biotechnology and Bioscience, University of Milano, Italy*
- 13:55** Genome mining for biorefinery use (Invited lecture)
Karel Sedlář *Department of Biomedical Engineering, Brno University of Technology, Czech Republic*
- 14:20** Gene expression of sporulation factors in *Clostridium beijerinckii* during solventogenesis (Invited lecture)
Jan Kolek *Department of Biotechnology, UCT Prague, Czech Republic*
- 14:45** Solvent production in sporulation deficient *Clostridium* (Invited lecture)
Mamou Diallo *Wageningen University & Research, Food & Biobased Research, Netherlands*

Wednesday, June 14, 2017

Pharmaceutical Biotechnology

Venue: National Technical Library, Hall 01

Chairpersons: **Flavia Marinelli** *Department of Biotechnology, University of Insubria, Italy*, **Michaela Rumlová** *Department of Biotechnology, UCT Prague, Czech Republic*, **Vera Luginbühl** *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*

10:30 Marine antimicrobial compounds and their potential as lead compounds for novel antibiotics (Invited lecture)

Klara Stensvåg *University of Tromsø, Norway*

10:55 Old and novel glycopeptide antibiotics: from product to gene and back (Invited lecture)

Flavia Marinelli *Department of Biotechnology, University of Insubria, Italy*

11:20 5-Aminolevulinic acid in glioblastoma surgery and intracellular tumour targeting by a shiga toxin subunit B (Invited lecture)

Vera Luginbühl *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*

11:45 Assembly and disassembly of HIV-1 as a target for screening and rational design of anti-HIV-1 compounds (Invited lecture)

Michaela Rumlová *Department of Biotechnology, UCT Prague, Czech Republic*

12:10 Uncovering citrinin biosynthesis in *Monascus ruber* by reconstructing its biosynthetic pathway in the secondary host *Aspergillus oryzae* (Invited lecture)

Yi He *College of Food Science and Engineering, Wuhan Polytechnic University, China*

12:30-13:30 Lunch

13:30 Biofilms of opportunistically pathogenic microorganisms and possibilities of their regulation (Invited lecture)

Jan Masák *Department of Biotechnology, UCT Prague, Czech Republic*

13:55 The nanoliter-reactor platform for high throughput screening of cell libraries secreting bioactive compounds

Andreas Meyer *FGen GmbH, Basel, Switzerland*

14:20 The Sugar Code as a Door Opener at Resistant Uptake Barriers – Biotechnological Concepts for Glycotargeted Drug Delivery in Bladder Cancer (Invited lecture)

Lukas Neutsch *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*

14:45 Highly Potent and Immune Stimulatory Antibody Drug Conjugates with a novel Anthracycline Toxin

Ulf Grawunder *NBE-Therapeutics Ltd., Switzerland*

15:10 Smart nanostructures for bioapplications

Petr Slepíčka *Department of Solid State Engineering, UCT Prague, Czech Republic*

15:35 An enzymatic tool-box for modification of hyaluronan

Dzianis Smirnou *Contipro, Czech Republic*

Wednesday, June 14, 2017

Food and Agriculture Biotechnology

Venue: National Technical Library, Hall 02

Chairpersons: **Pavel Dostálek** *Department of Biotechnology, UCT Prague, Czech Republic*,
Brian Duffy *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*, **Lars Fieseler**
Institute of Chemistry and Biotechnology, ZHAW, Switzerland

- 10:30** Enhancing brewing yeast performance (Invited lecture)
Pavel Dostálek *Department of Biotechnology, UCT Prague, Czech Republic*
- 10:55** Microbial innovation for microbreweries (Invited lecture)
Marilena Budroni *Department of Agricultural Sciences, University of Sassari, Sassari, Italy*
- 11:20** Moderate Electric Fields application as a biotechnological tool in food processing (Invited lecture)
Antonio Vicente *University of Minho, Braga, Portugal*
- 11:45** Yeast for production of alcohol free beer (Invited lecture)
Daniela Šmogrovičová *Department of Biochemical Technology, Slovak University of Technology in Bratislava, Slovakia*
- 12:10** Probiotic effect of microorganisms (Invited lecture)
Šárka Horáčková *Department of Dairy, Fat and Cosmetics, UCT Prague, Czech Republic*
- 12:30-13:30** Lunch
- 13:30** Chitinases from metagenome as pest biocontrol agents (Invited lecture)
Francesca Berini *University of Insubria, Italy*
- 13:55** Recent researches of *Monascus* spp. and their metabolites in China (Invited lecture)
Fusheng Chen *Huazhong Agricultural University, Wuhan, China*
- 14:20** Effect of various factors on the buffering capacity of wort (Invited lecture)
Gabriella Kun-Farkas *Szent István University, Hungary*
- 14:45** Development of a fed-batch system for the fermentation of grape must with high sugar content
Matthias Kowalczyk *Institute for Viticulture and Oenology, Germany*

Wednesday, June 14, 2017

16:00 Poster Session with Refreshment and Beer Party

Venue: Orchestra of National Technical Library

Thursday, June 15, 2017

Venue: National Technical Library, Balling Hall

9:00 Plenary Lecture:

THE ENERGY-ENVIRONMENT ENIGMA DILEMMA

Murray Moo-Young *University of Waterloo, Canada*

10:00 Coffee break

Thursday, June 15, 2017

Biorefinery

Venue: National Technical Library, Balling Hall

Chairpersons: **Petra Patáková** *Department of Biotechnology, UCT Prague, Czech Republic*, **Ivana Márová** *Institute of Food Science and Biotechnology, Brno University of Technology, Czech Republic*, **Murray Moo-Young** *University of Waterloo, Canada*

- 10:30** How to convert lignocellulose to biosurfactants within a biorefinery (Invited lecture)
Suzanne Zibek *Fraunhofer Institute for Interfacial Engineering and Biotechnology, Germany*
- 10:55** Vibrational spectroscopy for monitoring lipogenesis in microbial cells (Invited lecture)
Volha Shapaval, Achim Kohler *Norwegian University of Life Sciences, Norway*
- 11:20** Integrating production of PHA into bio-refinery concept – shedding light also on specific consequences of non-optimal cultivation conditions (Invited lecture)
Stanislav Obruča *Institute of Food Science and Biotechnology, Brno University of Technology, Czech Republic*
- 11:45** Bench-scale production of polyhydroxyalkanoates and other valuable biomaterials from xylose-rich lignocellulosic hydrolysates (Invited lecture)
Maria Catarina Marques Dias de Almeida *Technical University of Lisboa, Portugal*
- 12:10** Consolidated production of Volatile Fatty Acids from plant biomass using defined and natural microbial consortia
Charilaos Xiros *School of Agricultural, Forest and Food Sciences, Bern University of Applied Sciences, Switzerland*
- 12:30-13:30** Lunch
- 13:30** Comprehensive Characterization of Lignin and its Degradation Products: Approaches and Challenges (Invited lecture)
Alena Kubátová *University of North Dakota, USA*
- 13:55** *Rhodothermus marinus* – A New Platform Organism for Industrial Biotechnology (Invited lecture)
Eva Nordberg Karlsson
- 14:20** Simultaneous saccharification and fermentation of steam pretreated beech wood with in situ *Irpex lacteus* treatment (Invited lecture)
Simone Brethauer *School of Agricultural, Forest and Food Sciences, Bern University of Applied Sciences, Switzerland*
- 14:55-15:30** Coffee break

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- 15:30** The holistic biorefinery concept: from by-product to high value – case study
Marcin Łukaszewicz *Uniwersytet Wrocławski, Faculty of Biotechnology, Poland*
- 15:55** Application of onsite produced cellulase in lignocellulosic biorefinery for bioethanol and lactic acid production using freshly pretreated materials
Abdul Sattar Qureshi *University of Sindh, Pakistan*

Thursday, June 15, 2017

Industrial Biotechnology

Venue: National Technical Library, Hall 01

Chairpersons: **Diego Schmidhalter** *Lonza AG, Visp, Switzerland*, **Miroslav Šoóš** *Department of Chemical Engineering, UCT Prague, Czech Republic*

- 10:30** Model-driven process design for improved antibody glycosylation
Cleo Kontoravdi *Department of Chemical Engineering, Imperial College London, Great Britain*
- 10:55** Medium and Process Development for Next-Generation Perfusion Processes (Invited lecture)
Jochen Sieck *Merck KGaA, Darmstadt, Germany*
- 11:20** Optimization of mAb glycosylation produced in mammalian cell cultures (Invited lecture)
Miroslav Šoóš *Department of Chemical Engineering, UCT Prague, Czech Republic*
- 11:45** Scale-up in the single use age: Does geometry matter? (Invited lecture)
Colin Jaques *Lonza Biologics, Slough, Great Britain*
- 12:10** Optimization of microbial hyaluronic acid fermentation by metabolomic approach (Invited lecture)
Lukáš Franke *Contipro, Czech Republic*
- 12:30-13:30** Lunch
- 13:30** Systems and synthetic biology approaches to accelerate bio-systems engineering (Invited lecture)
Beat Christen *Institute of Molecular Systems Biology, ETH Zürich, Switzerland*
- 13:55** Cell-free expression as a new alternative for difficult-to-express-proteins (Invited lecture)
Sandra Cortes *Synthelis, Grenoble, France*
- 14:20** White Biotechnology for the Production of Flavor and Fragrance ingredients (Invited lecture)
Michel Schalk *Firmenich SA, Switzerland*
- 14:45-15:30** Coffee break
- 15:30** Concurrent optimization strategies for high level protein production: Process, strain and expression engineering (Invited lecture)
Astrid Weninger *TU Graz, Austria*
- 15:55** Fast track expression and production of proteins with Lonza's *XSTM* Pichia Platform (Invited lecture)
Christoph Kiziak *Lonza AG, Visp, Switzerland*

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- 16:20** Using a systematic approach to accelerate bioprocess development: methanol-free manufacturing with *Pichia pastoris* (Invited lecture)
Verena Looser *Zürich University of Applied Sciences ZHAW, Wädenswil, Switzerland*
- 16:45** USP and DSP projects of the Biotechnological Pilot Plant - the Institute of Microbiology, the Czech Academy of Sciences (Invited lecture)
Aleš Prell *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*
- 17:05** Model based high cell density continuous cultivation of *A. latus* for biopolymer (PHB) production
Ashok Kumar Srivastava *Department of Biochemical Engineering and Biotechnology, IIT Delhi, India*

Thursday, June 15, 2017

Food and Agriculture Biotechnology

Venue: National Technical Library, Hall 02

Chairpersons: **Pavel Dostálék** *Department of Biotechnology, UCT Prague, Czech Republic*, **Brion Duffy** *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*, **Lars Fieseler** *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*

- 10:30** Bacteriophages for the control of pathogenic bacteria (Invited lecture)
Lars Fieseler *Institute of Food and Beverage Innovation, Zurich University of Applied Sciences, Switzerland*
- 10:55** Phages to combat *Listeria* and *Salmonella* (Invited lecture)
Steven Hagens *Micreos Food Safety, The Netherlands*
- 11:20** Synthetic biology of designer endolysins (Invited lecture)
Yves Briers *Laboratory of Applied Biotechnology, Ghent University, Belgium*
- 11:45** Antimicrobial and defence elicitor peptides in plant disease control (Invited lecture)
Emilio Montesinos *Institute of Food and Agricultural Technology, University of Girona, Spain*
- 12:10** Antifungal lactic acid bacteria in food fermentations (Invited lecture)
Susanne Miescher Schwenninger *Institute of Food and Beverage Innovation, Zurich University of Applied Sciences, Switzerland*
- 12:30-13:30** Lunch
- 13:30** Beneficial cardiovascular effects of (–)epicatechin-containing foods (Invited lecture)
Iveta Bernátová *Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Slovakia*
- 13:55** Biosensors: Potentials and Applications in Food Industry
Alireza Shirazinejad *Islamic Azad University, Iran*
- 14:20** Enzyme-mediated Hypoallergenic Milk and Dairy products – Present scenario and Future prospects
Klára Páztorné Huszár *Szent István University, Hungary*
- 14:45-15:30** Coffee break
- 15:30** Industrial biotechnology for the production of microbial pesticides
Mirata Marco *Lonza Ltd, Switzerland*
- 15:55** Two-dimensional GC: a suitable tool to enhance the understanding of complex volatile profiles released from biological materials such as fermented tobacco leaves
Manuel Mazenauer *Zurich University of Applied Sciences, Switzerland*

Thursday, June 15, 2017

19:30 Galadinner (not included in conference fee)
Venue: Kaiserstein Palace, Lesser Town Square

Friday, June 16, 2017

Venue: National Technical Library, Balling Hall

9:00 Plenary Lecture:

PERSPECTIVES FOR DNA SEQUENCING TECHNIQUES, APPLICATIONS IN
GENOMICS and MEDICINE

Wilhelm Ansorge *ETH Lausanne, Switzerland*

10:00 Coffee break

Friday, June 16, 2017

Medical Biotechnology

Venue: National Technical Library, Balling Hall

Chairpersons: **Jana Pěkníková** *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*, **Peter Šebo** *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*, **Jan Dohnálek** *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

10:30 Electron transport chain disruption as a new strategy to suppress Her2high breast cancer (Invited lecture)

Kateřina Rohlenová *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

10:55 Immunogenic cell death in lung cancer immunotherapy (Invited lecture)

Irena Adkins Sotio, *Czech Republic*

11:20 Evaluating the quality of male sperm cells with monoclonal antibodies (Invited lecture)

Jana Pěkníková *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

11:45 Monoclonal and polyclonal antibodies as tools for the study of proteins in the male reproductive tract (Invited lecture)

Pavla Postlerova *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

12:10 Zinc-dependent 3' nucleases related to treatment of human diseases (Invited lecture)

Tomáš Koval *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

12:30-13:30 Lunch

13:30 Development of novel biologics for prostate cancer imaging (Invited lecture)

Zora Nováková *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

13:55 (Glyco)peptide mimetics derived from albumin-binding domain scaffold as tools for induction of neutralizing antibodies against HIV-1 gp120 glycoprotein (Invited lecture)

Petr Malý *Institute of Biotechnology, the Czech Academy of Sciences, Czech Republic*

14:20 Streptavidine-based system for antigen delivery and vaccination

Ondřej Staňek *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*

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- 14:45** Biotechnology aspects of PIXL methodology (photo-induced cross-linking): A tool for structural biochemistry
Miroslav Šulc *Department of Biochemistry, Faculty of Science, Charles University, Czech Republic*
- 15:10** Bordetella pertussis and its adenylate cyclase toxin: How it works and how to use it (Invited lecture)
Peter Šebo *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*
- 15:35** Computer-assisted engineering of fibroblast growth factors
Gabriela Daňková *Loschmidt Laboratories, Department of Experimental Biology & RECETOX, Masaryk Univezity, Czech Republic*
- 16:00** Targeting the stress signaling in cancer (Invited lecture)
Jaroslav Zelenka *Department of Biochemistry and Microbiology, UCT Prague, Czech Republic*

Friday, June 16, 2017

Microalgae Biotechnology

Venue: National Technical Library, Hall 01

Chairpersons: **Kateřina Biřov** *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*, **Yusuf Chisti** *Massey University, New Zealand*

- 10:30** Microalgae grown in stable isotopes (Invited lecture)
Kateřina Biřov *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*
- 10:55** Towards industrial products from microalgae (Invited lecture)
Maria Barbosa *Wageningen University, Netherlands*
- 11:20** Influence of inorganic salt precipitates on autoflocculation of microalgae (Invited lecture)
Tomas Brnyik *Department of Biotechnology, UCT Prague, Czech Republic*
- 11:45** Screening cyanobacteria for novel compounds with potential anticancer activity (Invited lecture)
Pavel Hrouzek *Institute of Microbiology, the Czech Academy of Sciences, Czech Republic*
- 12:10** Study of up- and downstream processes in *Microcystis aeruginosa* cultivation – One approach, two distinct objectives
Pedro Geada *University of Minho, Portugal*
- 12:30-13:30** Lunch
- 13:30** Identifying knowledge gaps for an efficient anaerobic digestion of microalgae biomass (Invited lecture)
Cristina Gonzalez *IMDEA Energy Institute, Spain*
- 13:55** Endopolyploidy, fragmentation and reconstitution of chromosomes by the heavy-ion beam irradiation in *Parachlorella kessleri* (Invited lecture)
Shigeyuki Kawano *University of Tokyo, Japan*
- 14:20** Isolation and structural characterization of exopolysaccharides from microalgae *Dictyosphaerium chlorelloides* and *Porphyridium purpureum*
Roman Bleha *Department of Carbohydrates and Cereals, UCT Prague, Czech Republic*
- 14:55** Wood hydrolysates as potential feedstocks for microalgae biomass, fatty acid and pigment production
Krystian Miazek *University of Liege-Gembloux Agro-Bio Tech, Belgium*

Friday, June 16, 2017

Environmental Biotechnology

Venue: National Technical Library, Hall 02

Chairpersons: **Pavel Jeníček** *Department of Water Technology and Environmental Engineering, UCT Prague, Czech Republic*, **Martin Halecký** *Department of Biotechnology, UCT Prague, Czech Republic*, **Urs Baier** *Institute of Chemistry and Biotechnology, ZHAW, Switzerland*

- 10:30** Microbial Ecology in Anaerobic digesters: status and perspectives (Invited Lecture)
Irini Angelidaki *TU Lyngby, Denmark*
- 11:20** Physico-chemical characterization of EPS-based biomaterial recovered from anammox granular sludge (Invited Lecture)
Tommaso Lotti *Politecnico di Milano, Italy*
- 11:45** Olive Mill Solid Waste Biorefinery: Comparative of thermal pre-treatments for phenols recovery and biomethanation (Invited Lecture)
Fernando Feroso *Instituto de la Grasa Sevilla, Spain*
- 12:10** Critical metals – the challenges of the present, solutions for the future
Alina Butu *National Institute of Research and Development for Biological Sciences, Romania*
- 12:30-13:30** Lunch
- 13:30** Separate carbon and nutrients removal from sewage: Making the concept reality (Invited Lecture)
Jan Bartáček *Department of Water Technology and Environmental Engineering, UCT Prague, Czech Republic*
- 13:55** Biotechnology of nutrient removal from waste water by autotrophic denitrification with sulfides from biogas (Invited Lecture)
Jana Zábranská *Department of Water Technology and Environmental Engineering, UCT Prague, Czech Republic*
- 14:20** Adaptation of anammox to low temperature in response to cold shock (Invited Lecture)
Vojtěch Kouba *Department of Water Technology and Environmental Engineering, UCT Prague, Czech Republic*
- 14:45** Hybrid treatment methodologies for biotransformation of color industrial effluents – A bioreaction calorimetric study
Bhuvanesh Kumar Shanmugam *Department of Chemical Engineering, CLRI., Adyar, India*
- 15:10** Bioleaching for heavy metal recovery and detoxification of ashes from thermal power plants
Tingyue Gu *Ohio University, USA*

15:35 Efficacies of Seventeen organically made Northern fertilisers on sustainable crops production in acidic soil of food security under climate change
Durlave Roy *Northern Agro Services Ltd, Bangladesh*

Friday, June 16, 2017

Best Poster Awards and Closing Ceremony

Venue: National Technical Library, Balling Hall

17:00 Best Poster Awards and Closing Ceremony in Balling Hall

18:30 Prague Sightseeing (not included in conference fee)

Saturday, June 17, 2017

8:30 Excursion to Pilsner Urquell Brewery with lunch, Kladruby Abbey Sightseeing (not included in conference fee). Expected arrival to Prague in late afternoon.

Workshop: NBO-workshop at BioTech2017, Prague

Reinforcing the links between industry, research and biotechnology education

Tuesday, June 13, 2017

Venue: National Technical Library, Balling Hall

09:00 Welcome and introduction to the NBO-workshop

Karin Kovar *Zurich University of Applied Sciences ZHAW, Wädenswil, CH*, **Mike Cook** *Cook Business Consulting, Wädenswil, CH*

09:10 NBO-analysis: course alumni perspectives

Marcel Straumann & Iwo Zamora *Zurich University of Applied Sciences ZHAW, Wädenswil, CH*

09:30 Collaborating on the NBO-programme: an industry perspective

Diego Schmidhalter *Lonza, Visp, CH*

09:40 Discussion I: What is the future of university education?

10:00 Changing perspectives: a biologist as entrepreneur and political consultant

Christine Lang *ORGANOBALANCE GmbH & German Bioeconomy Council, Berlin, DE*

10:30 Spinning-off from academia: visions versus reality based on the story of FGen

Andreas Meyer *FGen GmbH, Basel, CH*

10:50 Discussion II: What are the needs of society and industry?

11:05 SynBiT: a novel biological engineering platform for producing chemicals by biosynthesis

Beat Christen & Matthias Christen *Experimental Systems Biology, ETH Zürich, CH*, **Karin Kovar** *Zurich University of Applied Sciences ZHAW, Wädenswil, CH*

11:30 Discussion III: How should we proceed? (NBO-topics 2017/18 and future collaboration)

12:00 Individual lunch

Target group: This workshop is open to everybody. In particular, students making decisions about their future careers and SMEs seeking collaboration with universities are encouraged to participate in the discussions.

Scope: The objective of this workshop is to facilitate a discussion on the future of university education in biotechnology and to stimulate the mutually beneficial links between research, education and industry (encompassing both global corporations and SMEs). The implications for current biotechnology students completing Master's or PhD programmes as well as future graduates will be explored. Scientists from universities and industry, students and lecturers, experienced European entrepreneurs, key opinion leaders and policymakers will

discuss their personal experience of scouting out and developing new business opportunities in (microbial) biotechnology.

New Business Opportunity (NBO) Analysis represents an innovative, cross-disciplinary teaching/learning format that uniquely combines the development of entrepreneurial skills with in-depth subject-specific knowledge. Current stakeholders in the NBO-programme at the ZHAW in Wädenswil will share their vision and experience, paving the way for a discussion on future collaboration between academia and industry on biotechnology education.

Further information and registration on the NBO is available at: www.zhaw.ch/icbt/nbo

Workshop: Production of biobutanol and succinic/lactic acid from lignocellulose biomass:

bilateral Czech-Chinese Inter-Action project, project meeting

Tuesday, June 13, 2017

Venue: National Technical Library, Hall 1

Scope: This workshop is proposed as a project meeting between the bilateral partners of Inter-Action project, UCT Prague, Czech Republic and Tsinghua University, China. The research activities of both project teams will be presented, the project outputs will be evaluated and the plan of next activities will be discussed.

Chairpersons: **Leona Paulová** *Institute of Biotechnology, UCT Prague, Czech Republic*, **Jianan Zhang** *Institute of Nuclear and New Energy Technology, Tsinghua University, China*

10:00 Workshop opening

Karel Melzoch *rector of UCT Prague, Czech Republic*

10:15 Overview of project research activities performed at UCT Prague

Leona Paulová *UCT Prague, Czech Republic*

10:30 Production of butanol using lignocellulosic material: selection of high tolerant strains and consolidated process arrangement

Petra Patáková and Maryna Vasilkyvska *UCT Prague, Czech Republic*

10:50 Production of lactic acid using lignocellulose and other waste materials

Marek Drahokoupil and Leona Paulová *UCT Prague, Czech Republic*

11:05 Flow cytometry as a convenient tool for process control

Barbora Branská *UCT Prague, Czech Republic*

11:20 Overview of project research activities performed at Tsinghua University

Jianan Zhang *Tsinghua University, China*

11:40 Production of butanol with a new symbiotic system TSH06 under micro-aerobic condition

Hongjuan Liu *Institute of Nuclear and New Energy Technology, Tsinghua University, China*

12:00 Production of succinic acid by fermentation: mutation and selection of microorganism by ARTP

Xiang Yan *Institute of Nuclear and New Energy Technology, Tsinghua University, China*

12:20 Informal discussion with refreshment

**Workshop: Publishing in academic journals:
tips to help you succeed**

Lecturer: **Jennifer Stokes** *Taylor & Francis Group*

Tuesday, June 13, 2017, 13:00-14:00

Venue: National Technical Library, Balling Hall

Target group: This workshop is open to anyone who would like to learn more about the publishing process in academic journals. The talk is particularly aimed at early career researchers or PhD students who may be new to the publishing process.

Scope: This talk will guide you through the process of getting an article published – from choosing a journal, to what to think about when writing to improve your chances of publication, and then on to how to navigate the peer review process and what you can do once your article is published to increase its impact. The workshop will cover article metrics, use of social media, how to respond to reviewers' comments plus more. By the end of the session you will have a thorough understanding of the steps involved for authors in publishing a journal article, the key information sources you should be aware of, and what you can be doing to help get your research published.