

		Wednesday 16.6.2021 Hall 1
9:00	9:10	Official opening
9:10	9:30	Welcome by officials
9:30	10:30	Plenary lecture: TYPE VI SECRETION SYSTEM: FROM THE DISCOVERY TO THE MODE OF ACTION OF A DYNAMIC BACTERIAL NANOMACHINE Marek Basler <i>Biozentrum, University of Basel, Switzerland</i>
10:30	10:50	<i>break</i>
10:50	12:20	Environmental Biotechnology I
10:50	11:40	Butanol stress response mechanisms and butanol tolerance in <i>Clostridium beijerinckii</i> NRRL B-598 Patáková Petra <i>Department of Biotechnology, UCT Prague, Czech Republic</i>
11:40	12:00	<i>Clostridium beijerinckii</i> and diols: high similarity of genomes versus different behavior Sedlář Karel <i>Department of Biomedical Engineering, Brno University of Technology, Czech Republic</i>
12:00	12:20	Engineering <i>Pseudomonas putida</i> whole-cell biocatalysts for biotechnological processing of lignocellulosic substrates Dvořák Pavel <i>Masaryk University, Czech Republic</i>
12:20	13:00	<i>break</i>
13:00	14:30	Environmental Biotechnology II
13:00	13:50	Challenges for bioleaching at mine sites Vila Maria <i>Faculty of Engineering, University of Porto, Portugal</i>
13:50	14:10	Surface properties and colonization of newly developed flexible polyurethane foam biofilm carriers Halecký Martin <i>Department of Biotechnology, UCT Prague, Czech Republic</i>
14:10	14:30	Estrogens in wastewaters and evaluation of different types of treatment processes for estrogens removal Maršálková Eliška <i>Institute of Botany of the CAS, Czech Republic</i>
14:30	14:50	<i>break</i>
14:50	16:30	Environmental Biotechnology III
14:50	15:10	Secondary plant metabolites and the ecology of plant-associated bacteria Uhlik Ondřej <i>Department of Biochemistry and Microbiology, UCT Prague, Czech Republic</i>
15:10	15:30	Macroalgae as feedstock for fuels and chemicals López-Contreras Ana Maria <i>Wageningen Food and Biobased Products, Netherlands</i>
15:30	15:50	Biological biomethane production by conversion of CO, CO2 and H2 by technical anaerobic culture Pokorná Dana <i>Department of Water Technology and Environmental Engineering, UCT Prague, Czech Republic</i>
15:50	16:10	Benefits and limitations of different agriculture soil amendments Stiborová Hana <i>Department of Biochemistry and Microbiology, UCT Prague, Czech Republic</i>
16:10	16:30	Potential biotechnological applications of species of the genus <i>Stenotrophomonas</i> in Bioremediation and Nanotechnology Merroun Mohamed Larbi <i>University of Granada, Spain</i>
Wednesday 16.6.2021 Hall 2		
10:40	12:20	Plant Biotechnology
10:40	11:00	Plant viruses in the genome editing era Moravec Tomáš <i>Institute of Experimental Botany of the CAS, Czech Republic</i>
11:00	11:20	Production of recombinant antimicrobial peptides in barley Frébort Ivo <i>Czech Advanced Technology and Research Institute, Palacký University Olomouc, Czech Republic</i>
11:20	11:40	How extracellular vesicles of bacteria interact with plants Janda Martin <i>South Bohemia University in České Budějovice, Czech Republic</i>
11:40	12:00	A novel insight into the effect of <i>Pythium oligandrum</i> isolates as biological control agents Běloňžníková Kateřina <i>Department of Biochemistry, Charles University, Czech Republic</i>
12:00	12:20	Impact of noble metal nanoparticles on plants and associated microorganisms Burketová Lenka <i>Institute of Experimental Botany of the CAS, Czech Republic</i>
12:20	13:00	<i>break</i>
13:00	14:20	Microalgae Biotechnology I
13:00	13:20	Mutagenesis of green algae to recover desired phenotypes Bišová Kateřina <i>Institute of Microbiology of the CAS, Czech Republic</i>
13:20	13:40	Green Bioprinting - a tool for creating functional 3D-cell structures Krujatz Felix <i>Institute of Natural Materials Technology, TU Dresden, Germany</i>
13:40	14:00	Luxury phosphorus uptake: pushing to the limits Solovchenko Alexei <i>Lomonosov Moscow State University, Russia</i>
14:00	14:20	Construction of bio-inspired algal-bacterial consortium capable of phosphorus biosequestration from waste waters Zaytsev Petr <i>Lomonosov Moscow State University, Russia</i>
14:20	14:40	<i>break</i>
14:40	16:00	Microalgae Biotechnology II
14:40	15:00	Cyanobacterial biofilms as light-driven biocatalysts – obstacles and achievements Bühler Katja <i>Helmholtz Center for Environmental Research, Germany</i>
15:00	15:20	Microorganism in the LED-spotlight: standardized illumination systems for biotechnological applications Schöbel Harald <i>MCI - THE ENTREPRENEURIAL SCHOOL, Austria</i>
15:20	15:40	Bio-inspired materials from microalgal cells on chitosan-based carriers for biocapture of nutrients Vasilieva Svetlana <i>Lomonosov Moscow State University, Russia</i>
15:40	16:00	Multifunctionalizing microalgae for sustainable production of industrially useful proteins and fatty acids Sayanova Olga <i>Rothamsted Research, United Kingdom</i>
16:00	16:20	<i>break</i>
16:20	17:40	Microalgae Biotechnology III
16:20	16:40	Engineering Recombinant Antimicrobial Efficacy and Yield from Algae Baiden Nanakow <i>Rothamsted Research, United Kingdom</i>
16:40	17:00	Electroflocculation - a way to minimize microalgae harvesting cost Lucáková Simona <i>Department of Biotechnology, UCT Prague, Czech Republic</i>
17:00	17:20	New production models of valuable bio-products from microalgal biomass using countercurrent chromatography (CCC) technology Cheel José <i>Centre ALGATECH, Institute of Microbiology of the CAS, Czech Republic</i>
17:20	17:40	A biorefinery approach to obtain high-value polyunsaturated fatty acids from the microalgae <i>Schizochytrium limacinum</i> using liquid-liquid chromatography Bárceñas Pérez Daniela <i>Centre ALGATECH, Institute of Microbiology of the CAS, Czech Republic</i>

		Thursday 17.6.2021
9:00	10:00	Plenary lecture: WHERE WILL NOVEL ANTIBIOTICS COME FROM IN NATURE? Flavia Marinelli <i>Department of Biotechnology and Life Sciences, University of Insubria, Italy</i>
10:00	11:20	Medical and Pharmaceutical Biotechnology I
10:00	10:20	Galectin-glycoconjugate interactions in biomedical research Bojarová Pavla <i>Institute of Microbiology of the CAS, Czech Republic</i>
10:20	10:40	Engineering patients' immune cells with chimeric antigen receptor to treat hematological cancers Luginbuehl Vera <i>Novartis Pharma Schweiz AG, Switzerland</i>
10:40	11:00	Cryo-electron tomography: structural biology in situ Obr Martin <i>IST Austria, Austria</i>
11:00	11:20	Engineered antibodies for prostate cancer imaging and therapy Nováková Zora <i>Institute of Biotechnology of the CAS, BIOCEV, Czech Republic</i>
11:20	11:50	<i>break</i>
11:50	13:40	Medical and Pharmaceutical Biotechnology II
11:50	12:10	Magnetic nanoconjugated glycopeptides as novel tools for fighting bacterial infections Berini Francesca <i>Department of Biotechnology and Life Sciences, University of Insubria, Italy</i>
12:10	13:00	Use of RLI-15, a clinical grade fusion protein with IL-15 superagonistic activity for the activation of anti-tumor immune response Špišek Radek Sotio , <i>Czech Republic</i>
13:00	13:20	Interaction patterns of natural killer cell receptors and ligands with CTL fold Dohnálek Jan <i>Institute of Biotechnology of the CAS, Czech Republic</i>
13:20	13:40	Production of therapeutic plasmid DNA in single-use technology Ottinger Melanie <i>Thermo Fisher Scientific, Switzerland</i>
13:40	14:10	<i>break</i>
14:10	15:50	Medical and Pharmaceutical Biotechnology III
14:10	14:30	Antimicrobial properties of biosynthesized nanoparticles Mařátková Olga <i>Department of Biotechnology, UCT Prague, Czech Republic</i>
14:30	14:50	Spontaneous in situ endothelialization as an advanced approach for construction of vascular replacements Bacakova Lucie <i>Institute of Physiology of the CAS, Czech Republic</i>
14:50	15:10	Non-thermal plasma for management of clinically relevant pathogens Schöltz Vladimír <i>Department of Physics and Measurements, UCT Prague, Czech Republic</i>
15:10	15:30	The PIXL&PIER methodologies (photo-induced cross-linking&electron release): novel experimental tools for structural and functional biochemistry Šulc Miroslav <i>Department of Biochemistry, Charles University, Czech Republic</i>
15:30	15:50	The epidemiological situation of measles in Tirana, Albania, from 2017 to 2019 Laze Blerta <i>Department of Biology, University "Ismail Qemali" of Vlora, Albania</i>
15:50	16:10	<i>break</i>
16:10	18:00	Poster Session

		Friday 18.6.2021
9:00	10:00	Plenary lecture: METABOLIC ENGINEERING OF ANAEROBIC ACETOGENS FOR CONVERTING GREENHOUSE GASES INTO SUSTAINABLE PRODUCTS Peter Dürre <i>Institute of Microbiology and Biotechnology, University of Ulm, Germany</i>
10:00	11:30	Food and Agriculture Biotechnology I
10:00	10:50	Advances in Acid Resistance Mechanisms of Acetic Acid Bacteria Chen Fusheng <i>Huazhong Agricultural University, P.R. China</i>
10:50	11:10	Metabolites and their applications of Monascus spp. and the underlying essentials of genetics Shao Yanchun <i>Huazhong Agricultural University, P.R. China</i>
11:10	11:30	From traditional culture collection to sustainable and healthy foods Wahl Fabian <i>Agroscope, Switzerland</i>
11:30	11:50	<i>break</i>
11:50	13:20	Food and Agriculture Biotechnology II
11:50	12:40	Biotransformation in Food Processing Dostálek Pavel <i>Department of Biotechnology, UCT Prague, Czech Republic</i>
12:40	13:00	Non-Saccharomyces yeasts in brewing Kun-Farkas Gabriella <i>Institute of Food Science and Technology, Hungarian University of Agriculture and Life Sciences, Hungary</i>
13:00	13:20	The use of sensomics in controlling of brewing process Olšovská Jana <i>Research Institute of Brewing and Malting, Czech Republic</i>
13:20	14:00	<i>break</i>
14:00	15:00	Food and Agriculture Biotechnology III
14:00	14:20	Gas management in the cultivation of microalgae: Use of membrane contactors for bubble-free gas transfer in tubular photobioreactors Riedl Wolfgang <i>FHNW, Switzerland</i>
14:20	14:40	How to reduce extract losses in industrial beer fermentation? Kordialik-Bogacka Edyta <i>Lodz University of Technology, Poland</i>
14:40	15:00	Determination of silver nanoparticles and tracing their changes in food matrices using single particle ICPMS Koplík Richard <i>Department of Food Analysis and Nutrition, UCT Prague, Czech Republic</i>
15:00	15:20	<i>break</i>
15:20	16:30	Industrial Biotechnology I
15:20	16:10	The Golgi Glycan Factory (GGF) – Enzyme Modules for Glycoconjugate Synthesis Elling Lothar <i>Institute for Biotechnology and Helmholtz-Institute for Biomedical Engineering, RWTH Aachen University, Germany</i>
16:10	16:30	Biotechnological production of polyhydroxyalkanoates employing stress-adapted microorganisms Obruča Stanislav <i>Faculty of Chemistry, Brno University of Technology, Czech Republic</i>
16:30	16:40	<i>break</i>
16:40	17:40	Industrial Biotechnology II
16:40	17:00	Biotechnology potential of aldoxime- and nitrile-converting enzymes Martínková Ludmila <i>Institute of Microbiology of the CAS, Czech Republic</i>
17:00	17:20	Substrate oxidation and electron transfer mechanisms in the active site of bilirubin oxidase Koval Tomáš <i>Institute of Biotechnology of the CAS, BIOCEV, Czech Republic</i>
17:20	17:40	Can Nanotextiles Enhance Filtration Capacity of HEPA Filters for Microorganisms? Obitková Daniela <i>Department of Healthcare, CTU Prague, Czech Republic</i>
17:40	18:00	Closing Ceremony