Program of the CECE 2018

Hotel Continental, Brno, Czech Republic, October 15 – 17, 2018

8:00 – 15:00 **Registration (Monday, Tuesday)**

Monday, October 15

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9:00 – 9:20	Opening remarks and award of the Medal of Jaroslav Janak to Ludmila Krivankova
9:20 – 9:55	Jiří Homola Institute of Photonics and Electronics of the Czech Academy of Sciences, Prague, Czech Republic PLASMONIC BIOSENSORS FOR MEDICAL DIAGNOSTICS AND FOOD SAFETY
9:55 – 10:30	Hans H. Gorris University of Regensburg, Institute of Analytical Chemistry, Chemo- and Biosensors, Regensburg, Germany SINGLE MOLECULE IMMUNOASSAYS BASED ON PHOTON-UPCONVERSION NANOPARTICLES (UCNPs)
10:30 - 11:00	Coffee break
11:00 – 11:35	Yann Astier Roche Sequencing Solutions, Pleasanton, CA, USA EVOLUTION OF THE DIAGNOSTIC-PHARMA RELATIONSHIP TOWARDS HEALTH COORDINATES AND PERSONALIZED TREATMENT
11:35 – 12:10	Hadar Ben-Yoav Ben-Gurion University of the Negev, Israel INTELLIGENT MULTI-ELECTRODE ARRAYS FOR IN SITU BIOANALYSIS OF BIOFLUIDS
12:10 – 12:45	Milan Hutta Comenius University in Bratislava, Bratislava, Slovakia HUMIC SUBSTANCES FROM POINT-OF-VIEW OF

ANALYTICAL CHEMISTS

12:45 - 14:20	Lunch break – poster session

14:20 – 14:55 **Jan Preisler**

Masaryk University, Brno, Czech Republic

MALDI MASS SPECTROMETRY IMAGING AT ACQUISITION RATES ABOVE 100 PIXELS/S

14:55 – 15:30 **Lumir Krejci**

Department of Biology, Faculty of Medicine, Masaryk University, Brno, Czech Republic, National Centre for Biomolecular Research, Faculty of Science, Masaryk University, Brno, Czech Republic, International Clinical Research Center, Center for Biomolecular and Cellular Engineering, St. Anne's University Hospital Brno, Brno, Czech Republic

DNA REPAIR AS A TARGET FOR THERAPY

15:30 – 16:05 **Milos V. Novotny**

Indiana University, Department of Chemistry, Bloomington, IN,

USA

CAN HUMAN GLYCOME BE COMPREHENSIVELY COVERED?

16:30 – 18:00 Invited speaker's visit to the Mendel Museum

(http://mendelmuseum.muni.cz/en/)

19:00 Conference dinner with the traditional Moravian music

Tuesday, October 16

09:30 - 10:05 **Andras Guttman**

University of Pannonia, Veszprém, Hungary

AUTOMATED SEQUENCING OF N-LINKED CARBO-

HYDRATES

10:05 – 10:40 **Zbyněk Prokop**

Masaryk University, Brno, Czech Republic

DROPLET-BASED ENZYMOLOGY: HIGH-THROUGHPUT

ANALYSIS OF NOVEL BIOCATALYSTS

10:40 – 11:10 **Coffee break**

11:10 – 11:45 **Doo Soo Chung**

Seoul National University, Seoul, Korea LIQUID EXTRACTION SURFACE ANALYSIS COUPLED WITH CAPILLARY ELECTROPHORESIS

11:45 – 12:20 **Iuliana M. Lazar**

Virginia Tech, Biological Sciences, Health Sciences and Carilion School of Medicine, Blacksburg, VA, USA SPECTROMETRY AND PROTEOMICS AT THE CROSS ROADS OF TECHNOLOGY AND BIOLOGY

12:20 – 14:10 Lunch break – poster session

14:10 – 14:45 **Christian G. Huber**

University of Salzburg, Department of Biosciences and Christian Doppler Laboratory for Biosimilar Characterization, Department of Molecular Biology, Salzburg, Austria MOLECULAR CHARACTERIZATION OF BIOTHERAPEUTIC PROTEINS: CONCEPTS AND CHALLENGES FOR SEPARATION SCIENCE, MASS SPECTROMETRY, AND COMPUTATIONAL BIOLOGY

14:45 – 15:20 **Jiří Fajkus**

Photon Systems Instruments, Drásov, Czech Republic STATE OF THE ART TECHNOLOGIES FOR PLANT PHENOTYPING

15:20 – 15:55 **Tomasz Baczek**

Medical University of Gdańsk, Department of Pharmaceutical Chemistry, Gdańsk, Poland COMPARATIVE STUDY ON AMINO ACIDS MEASURED IN PLASMA, CEREBROSPINAL FLUID AND EXHALED BREATH CONDENSATES

15:55 – 16:15 Frantisek Foret

Institute of Analytical Chemistry of the Czech Academy of Sciences, Brno, Czech Republic TBA

16:15 – 16:30 **Invitation to CECE 2019, Gdańsk, Poland**

16:40 City walk with invited speakers

Wednesday, October 17

10:45 – 11:15 **Coffee break**

9:00 – 9:15	CECE Junior opening
9:15 – 9:45	Vladislav Dolnik Alcor BioSeparations LLC, Palo Alto, CA, USA BORATE BUFFERS FOR CZE IN BARE CAPILLARIES
9:45 – 10:00	Miloš Dvořák Institute of Analytical Chemistry of the Czech Academy of Sciences, Brno, Czech Republic HOLLOW FIBRE-LIQUID PHASE MICROEXTRACTION OF BASIC DRUGS FROM DRIED BLOOD SPOTS
10:00 – 10:15	Antonín Bednařík Central European Institute of Technology (CEITEC), Masaryk University, Brno, Czech Republic MALDI-MS IMAGING OF C=C POSITIONAL ISOMERS OF LIPIDS ENABLED BY PATERNÒ-BÜCHI PHOTO- DERIVATIZATION
10:15 – 10:30	Michal Vasina Loschmidt Laboratories, Department of Experimental Biology and RECETOX, Faculty of Science, Masaryk University, Brno, Czech Republic HIGH-THROUGHPUT CHARACTERIZATION OF SUBSTRATE SPECIFICITY OF HALOALKANE DEHALOGENASES BY USING CAPILLARY MICROFLUIDICS
10:30 – 10:45	Tomas Vaclavek Institute of Analytical Chemistry of the Czech Academy of Sciences, Brno, Czech Republic MICROFLUIDIC DEVICE FOR CELL COUNTING AND ELECTRICAL LYSIS

11:15 – 11:30 **Filip Smrčka**

Department of Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic

THE UREASE BIOSENSOR BASED ON Eu(III) TERNARY COMPLEX OF DO3A LIGAND

11:30 – 11:45 **Antonín Hlaváček**

Institute of Analytical Chemistry of the Czech Academy of Sciences, Brno, Czech Republic

MEASURING PHOTON-UPCONVERSION LUMI-NESCENCE FROM DROPLETS IN MICROFLUIDIC CHIPS

11:45 – 12:00 <u>Karolína Kolářová</u>

Institute of Biophysics of the Czech Academy of Sciences, Brno, Czech Republic

CHARACTERIZATION OF ALLIUM TELOMERE REPEAT BINDING PROTEINS

12:00 – 12:15 **Martin Lyčka**

Mendel Centre for Plant Genomics and Proteomics, Central European Institute of Technology, Masaryk University, Brno, Czech Republic

INTENSITYANALYSER: WEB TOOL FOR ASSESSMENT OF TELOMERE LENGTHS FROM TERMINAL RESTRICTION FRAGMENT ANALYSIS

12:15 – 12:45 **Ctirad Hofr**

LifeB - Laboratory of interaction and function of essential Biomolecules Chromatin Molecular Complexes, CEITEC and NCBR, Faculty of Science, Masaryk University, Brno, Czech Republic

HOW TO TRAIN OUR CELLS TO BECOME YOUNGER – QUANTITATIVE BIOPHYSICS OF HUMAN TELOMERASE AND ITS GUARD SHELTERIN

12:45 – 12:50 **Closing remarks**

12:50 Lunch break – poster removal