

9th International Conference and Exhibition on

Metabolomics and Systems Biology

August 29-30, 2017 Prague, Czech Republic

Conference Day 01 | Tuesday August 29, 2017

Pilot A+B

08:30-09:00

Registrations

Moderator: Massimo S Fiandaca, University of California Irvine, USA

09:00-09:30

Welcome Note & Opening Ceremony

KEYNOTE

09:30-10:30

Title: A model explaining protracted weight loss after Roux en Y gastric by-pass (RYGB) bariatric surgery

Richard J Naftalin, King's College School of Medicine London, UK

Group Photo

NETWORK & REFRESHMENT BREAK 10:30-10:45 @ Foyer

Sessions: Cancer Metabolomics | Diagnostic Biomarkers | Analytical-bioanalytical Techniques | Personalised Medicine

Session Chair: Richard J Naftalin, King's College School of Medicine London, UK

Session Introduction

10:45-11:15

Title: Evaluating heme flux and function in lung cancer

Li Zhang, The University of Texas at Dallas, USA

11:15-11:45

Title: Blood-based metabolomic biomarkers for human neurological disorders

Massimo S Fiandaca, University of California Irvine, USA

11:45-12:15

Title: Metabolomics on mouse models of disease for personalized medicine

Preeti Bais, The Jackson Laboratory for Genomic Medicine, USA

12:15-12:45

Title: Comprehensive LC-MS reference library: Construction strategy and application in metabolic profiling and metabolomics

Ilana Rogachev, Weizmann Institute of Science, Israel

LUNCH BREAK 12:45-13:45 @ Oleo Pazzo Restaurant

13:45-14:15

Title: Stable isotope-assisted metabolomics of *Fusarium* head blight on wheat

Rainer Schuhmacher, University of Natural Resources and Life Sciences, Austria

14:15-14:45

Title: Metabolic systems analysis with multi-omics data

Fumiko Matsuzaki, Kyushu University, Japan

14:45-15:15

Title: High resolution metabolomics to identify novel biomarkers in corticosteroid resistant asthmatic children

Youngja H Park, Korea University, Korea

NETWORK & REFRESHMENT BREAK 15:15-15:30 @ Foyer

15:30-16:00

Title: Automated annotation of the wheat metabolome during *Fusarium* infection using stable isotopic labeling and custom-tailored data processing workflows

Christoph Bueschl, University of Natural Resources and Life Sciences, Austria

16:00-16:30

Title: Building and optimising multi-enzyme *in vitro* cascade reactions

Nicholas Harmer, University of Exeter, UK

16:30-17:00

Title: Pharmacometabolomics-guided pharmacogenomics in precision medicine

Theodora Katsila, University of Patras, Greece

PANEL DISCUSSION

Conference Day 02 | Wednesday August 30, 2017 Pilot A+B

Moderator: Massimo S Fiandaca, University of California Irvine, USA

KEYNOTE

10:00-10:45

Title: Heme: A key metabolite impacting diverse physiological and pathological processes

Li Zhang, The University of Texas at Dallas, USA

NETWORKING SESSION 10:45-11:00 @ Foyer

Sessions: Plant & Environmental Metabolomics | Metabolites | Metabolomics in Diseases

Session Chair: Youngja H Park, Korea University, Korea

Session Co-Chair: Anne-Marie Delort, Université Clermont Auvergne, CNRS, France

Session Introduction

11:00-11:30

Title: Modulation and resilience of the metabolome of *Pseudomonas graminis*, a cloud bacterium, facing H₂O₂ atmospheric stress

Anne-Marie Delort, Université Clermont Auvergne, CNRS, France

11:30-12:00

Title: Antihypertensive effects of natural honeybee products: A review

Zeliha Selamoglu, Ömer Halisdemir University, Turkey

12:00-12:30

Title: Expression of genes involved in taxol biosynthetic pathway in *Taxus baccata L.* and application of magnetic- and carbon-based nano-adsorbents for pre-purification of taxol

Mohammad Reza Naghavi, University of Tehran, Iran

12:30-13:00

Title: APC as an entry point to study small molecule regulation of the cell cycle
Nubia Barbosa Eloy, Max Planck Institute, Germany

LUNCH BREAK 13:00-14:00 @ Oleo Pazzo Restaurant

14:00-14:30

Title: Mapping the *Arabidopsis* metabolic landscape by untargeted metabolomics at different environmental conditions
Si Wu, Max Planck Institute of Molecular Plant Physiology, Germany

14:30-15:00

Title: Cholinergic microRNA-132 sheds new light on the links between psychological stress and metabolic impairments
Hermona Soreq, The Hebrew University of Jerusalem, Israel

POSTER PRESENTATIONS 15:00-15:45 @ Foyer

P-01

Title: Inference of pluripotency control in mouse embryonic stem cells
Sachiyo Aburatani, AIST, Japan

P-02

Title: Development of quantitative and qualitative analytical method for bile acids in rat bile and evaluation of their changes in aging
Byung Hwa Jung, Korea Institute of Science and Technology, Republic of Korea

P-03

Title: The impact of aging on natural killer cell, cytokines and prostaglandin F₂α in non-obese healthy subjects
Ayoung Lee, Yonsei University, South Korea

P-04

Title: Probiotic yogurt containing heat-treated *Lactobacillus plantarum* enhances immune function in the elderly
Ayoung Lee, Yonsei University, South Korea

P-05

Title: The significance of apricot in human health and nutrition
Zeliha Selamoglu, Ömer Halisdemir University, Turkey

P-06

Title: Metabolomics of Fhb1-mediated resistance against *Fusarium* head blight in wheat: An isotope-assisted LC-HRMS approach
Maria Doppler, University of Natural Resources and Life Sciences, Austria

P-07

Title: Elucidation of the sequential transcriptional activity in *Escherichia coli* using time-series RNA-seq data
Pui Shan Wong, AIST, Japan

P-08

Title: Modeling context-specific metabolic network of mouse pluripotent cell states
Fatehmeh Khassafi, Royan Institute for Stem Cell Biology and Technology, Iran

P-09

Title: Saffron as anti-inflammatory agent in human health
Zeliha Selamoglu, Ömer Halisdemir University, Turkey

P-10

Title: A review on possible acrylamide exposure and its effects during pregnancy
Zeliha Selamoglu, Ömer Halisdemir University, Turkey

NETWORKING SESSION 15:30-15:45 @ Foyer

PANEL DISCUSSION