Tentative Program

13th International Conference on
Metabolomics and Systems Biology

June 11-12, 2018 | London, UK

eurometabolomics@annualconferences.org
### Program at a Glance

#### Day 1

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<th>Time</th>
<th>General Session</th>
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<th>General Session</th>
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<tr>
<td>08.00-09.00</td>
<td>09.00-09.15</td>
<td>Inaugural Address</td>
<td>09.45-10.15</td>
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<td></td>
<td>Least of 3 Keynote/Plenary</td>
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<td>10.15-10.45</td>
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<td></td>
<td>Talks</td>
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<td></td>
<td>09.15-09.45</td>
<td>Keynote/Plenary Talk 1</td>
<td>10.45-11.15</td>
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<td></td>
<td>Panel Discussions/Group Photo</td>
<td>11.00-12.40</td>
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<td></td>
<td>Coffee/Tea Break 10.45-11.00 (Networking)</td>
<td>12.30-13.30</td>
<td>Recent Advancements in Metabolomics and Systems Biology</td>
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<td>Lunch Break 12.40-13.30</td>
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<tr>
<td></td>
<td>Coffee/Tea Break 13.30-14.30 (Networking)</td>
<td>15.45-17.25</td>
<td>Transcriptomics and Proteomics</td>
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<td>Evening Sessions</td>
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<td>Day 2 Morning Sessions</td>
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<td>Time</td>
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<td>Session 2</td>
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<tr>
<td>09.00-10.40</td>
<td>Metabolic Modelling and Synthetic Biology</td>
<td>10.55-12.35</td>
<td>Plant and Environmental Metabolomics</td>
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<td>10.55-12.35</td>
<td>Edibilomics and Lipidomics</td>
<td>13.25-15.05</td>
<td>Analytical Techniques in Metabolomics</td>
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<tr>
<td>Lunch Break 12.35-13.25</td>
<td>Plant and Environmental Metabolomics</td>
<td>13.25-15.05</td>
<td>Disease-Focused Research in Metabolomics</td>
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<td>13.25-15.05</td>
<td>Analytical Techniques in Metabolomics</td>
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<td>Awards &amp; Closing Ceremony</td>
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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots

http://europe.metabolomicsconference.com/
Conference Highlights

- Metabolomics
- Cancer Metabolomics
- Diagnostic Biomarker Metabolomics
- Metabolic Modelling and Synthetic Biology
- Clinical and Precision Medicine Metabolomics
- Metabolomics in Drug Discovery
- Edibilomics
- Lipidomics
- Plant and Environmental Metabolomics

- Transcriptomics and Proteomics
- Systems Biology
- Computational Methodologies
- Analytical Techniques in Metabolomics
- Recent Advancements in Metabolomics and Systems Biology
- Metabolomic Syndrome
- Metabolomic Devices
- Disease-Focused Research in Metabolomics
Glimpses of Metabolomics Conferences
Glimpses of Metabolomics Conferences
Tourist attractions in London

Big Ben

Buckingham Palace

London Eye

Trafalgar Square

London Eye
London is the capital and most populous city of the United Kingdom. It was founded by the Romans, who named it Londinium. It is one of the world’s leading financial centres and has the fifth-or sixth-largest metropolitan area GDP in the world depending on measurement. London is a world cultural capital. It is the world’s most-visited city as measured by international arrivals and has the world’s largest city airport system measured by passenger traffic. It is the world’s leading investment destination, hosting more international retailers and ultra high-net-worth individuals than any other city. London’s 43 universities form the largest concentration of higher education institutes in Europe, and according to 2014 report it is placed first in the world university rankings. According to the report London also ranks first in the world in software, multimedia development and design, and shares first position in technology readiness.

Tourist Attraction: Tourism is one of London’s prime industries. London is the most visited city in the world by international tourists. It is a leading global city, with strengths in the arts, commerce, education, entertainment, fashion, finance, healthcare, media, professional services, research and development, tourism, and transport all contributing to its prominence. Famous landmarks include Buckingham Palace, the London Eye, Piccadilly Circus, St Paul’s Cathedral, Tower Bridge, Trafalgar Square and The Shard. It is the home to numerous museums, galleries, libraries, sporting events and other cultural institutions, including the British Museum, National, Tate Modern, British Library and 40 West End theatres.
Keynote Forum

Title: ¹⁸O-assisted ³¹P NMR and mass spectrometry: From phosphometabolomics to fluxomics
Petras Dzeja, Metabolomics NMRS Core, Mayo Clinic, USA

Title: Diet, amino acids profile, and diabetes risk
Lu Qi, Tulane University, USA

Group Photo

Networking and Refreshments Break:
Session Introduction

Track 1: Metabolomic Profiling
Track 2: Clinical Metabolomics & Lipidomics
Track 3: Cancer Therapeutic Approaches

Session Chair: Petras Dzeja, Metabolomics NMRS Core, Mayo Clinic, USA
Session Co-Chair: Björn Riefke, Bayer Pharma AG, Germany

Title: Metabolic and epigenetic alterations in patients with Alzheimer's disease
Eugenia Trushina, Mayo Clinic College of Medicine, USA

Title: Fucoidan inhibitory function in cancer in vivo and in vitro: Role in the development of human anti-cancer therapeutic intervention
Hsien-Yeh Hsu, National Yang-Ming University, Taiwan

Title: Interference with glutamine metabolism: A novel approach for treatment of acute myeloid leukemia
Ashkan Emadi, University of Maryland School of Medicine, USA

Title: Myc induces expression of glutamine synthetase through promoter demethylation
I-Chen Peng, National Cheng Kung University, Taiwan

Title: Slow-MAS NMR Metabolomics
Jian Zhi Hu, Pacific Northwest National Laboratory, USA

Lunch Break

Title: Prevention of metabolite change due to enzymatic post-sample activity using heat based enzyme inactivation
Mats Borén, Denator, Sweden

Title: Clinical metabolomics for biomarker discovery of malignant pleural effusions (MPE)
Ching-wan Lam, The University of Hong Kong, Hong Kong

Title: Mass spectrometry-based metabolomics reveals that serum lysophospholipids are associated with incident type 2 diabetes
Yonghai Lu, National University of Singapore, Singapore

Special Session

Title: Metabolomics in neuroscience: Old tools for new models and new tools for old models
Andrea Armirotti, Istituto Italiano di Tecnologia, Italy

Networking and Refreshments Break
Session Chair: Ching-wan Lam, The University of Hong Kong, Hong Kong
Session Co-Chair: Yongyu Zhang, Shanghai University of Traditional Chinese Medicine, China

Title: ERRα induces mitochondrial glutaminase expression guiding anaplerosis upon osteogenic differentiation of mesenchymal stem cells
Min Guan, Chinese Academy of Sciences, China

Title: Urine metabolomics study on unilateral ureteral obstruction induced renal fibrosis in rats and intervention effects of total aglycone extracts of Scutellaria baicalensis
Yongyu Zhang, Shanghai University of Traditional Chinese Medicine, China

Title: Serum lipid alterations identified in chronic Hepatitis b, Hepatitis b virus-related cirrhosis and carcinoma patients
Tao Wu, Shanghai University of Traditional Chinese Medicine, China

Title: Metabolism alterations in aggressive lymphomas
Pier Paolo Piccaluga, Bologna University School of Medicine, Italy

Title: The correlation of polar lipids changes with TAG accumulation under nitrogen deprivation in Nannochloropsis oceanica based on lipidomics
Song Xue, Dalian Institute of Chemical Physics-CAS, China

Panel Discussion

Day 2               May 17, 2016

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Keynote Forum

Title: Plasma metabolic profiles are associated with habitual dietary patterns
Choon Nam Ong, National University of Singapore, Singapore

Title: NMR Metabolomics Studies of Mice Exposed to Ionizing Radiation
Jian Zhi Hu, Pacific Northwest National Laboratory, USA

Track 11: Metabolic Syndrome
Track 12: Metabolomics in Precision Medicine

Session Chair: Robert Plumb, Imperial College London, UK
Session Co-chair: Houkai Li, Shanghai University of Traditional Chinese Medicine, China

Title: Biomarker Discovery in Cardiovascular Disease and role of LC/MS
Jose Castro-Perez, Waters Corp, USA

Title: Metabolomic study on the different responses to simvastatin therapy in normal and antibiotic-treated mice
Houkai Li, Shanghai University of Traditional Chinese Medicine, China

Title: Understanding human health and disease with LC/MS based metabolic phenotyping
Robert Plumb, Imperial College London, UK

Title: Treatment of natural plants on diabetes and metabolic syndrome
Jingxin Zhou, Beijing University of Chinese Medicine, China

Networking and Refreshments Break

Special Session

Title: Two cases of the serious dementia improved dramatically by placing denture
Yoshiro Fujii, Shin Kobe Dental Clinic, Japan

Poster Presentations

P01  Title: Elevation in liver function marker (alanine aminotransferase) and plasma metabolites with aging
Minjoo Kim, Yonsei University, Korea

P02  Title: Fenofibrate regulates cell energy metabolism by restricting hypoxia-induced factor expression in human glioma cells
Wan-Rou Shih, Central Taiwan University of Science and Technology, Taiwan
P03 Title: Augmentation in LDL-cholesterol with aging leads to oxidative stress and disturb sphingolipid metabolism
Miso Kang, Yonsei University, Korea

P04 Title: Urine metabolomics revealed complex pesticide exposure in farmers in Chinese
Yan-xin Zhang, Harbin Institute of Technology, China

P05 Title: Ferrous glycinate reverses epithelial mesenchymal transition and drug resistance to BCNU by suppression of hypoxia-induced factor in human U87 glioma cells
Yu-Syuan Lin, Taipei Medical University, Taiwan

P06 Title: Combining in vitro and in silico techniques: a complex case of metabolite structural assignment
Minkyung Kim, Yonsei University, Korea

P07 Title: Development of quantitative analytical method using liquid chromatography-tandem mass spectrometry for the tryptophan and its metabolites in serum and gastric juice to discovery biomarkers for the diagnosis of gastric cancer
Byung Hwa Jung, Korea Institute of Science and Technology, Republic of Korea

P08 Title: Comparison of three mobile phase with liquid chromatography/time-of-flight mass spectrometry (LC/TOF-MS) for urine metabonomics analysis
Pan Zou, Harbin Institute of Technology, China

P09 Title: Ferrous glycinate regulates cell energy metabolism via suppression of hypoxia-induced factor in human A549 cells
Jhong-Huei Jheng, Taipei Medical University, Taiwan

P10 Title: The association between carbon and nitrogen stable isotope ratios of human hair and cardiovascular risk factors
Song Vogue Ahn, Yonsei University, South Korea

P11 Title: Alteration of plasma acylcarnitines and glycerophospholipids between metabolically healthy and unhealthy overweight subjects
Seung Han Baek, Yonsei University, Korea

P12 Title: Heat-killed and live Lactobacillus reuteri GMNL-263 exhibit similar effects on improving metabolic functions in high-fat diet-induced obesity rat
Wu Ching-Shuang, Kaohsiung Medical University, Taiwan

P13 Title: Replacing carbohydrate with protein and fat affects PBMC metabolites in prediabetes or type-2 diabetes: Comparison with plasma metabolites
Hye Jin Yoo, Yonsei University, Korea

P14 Title: Development and mechanism research of multi functional peptide product
I-Chuan Sheih, Ta Hwa Institute of Technology, Republic of China

P15 Title: A 1H-NMR-Based Metabolomics Investigation on The Effect of Saffron Extract and Crocin on Rats Fed a High Fat Diet
Fatin Najwa, Universiti Putra Malaysia, Malaysia

P16 Title: No-(carboxymethyl) lysine decreases insulin secretion in beta cells through mitochondrial dysfunction and mitophagy
Mei-Chen Lo, Taipei Medical University, Taiwan

P17 Title: Praeruptorin A regulates bone metabolic diseases via anti-osteoclastogenic actity by p38/Akt-c-Fos-NFATc1 signaling and PLCγ-independent Ca2+ oscillation
Sik-Won Choi, National Institute of Crop Science, Republic of Korea

P18 Title: The targeted and untargeted analysis of serum indicate changes in the urea cycle of psoriasis patients
Aigar Ottas, University of Tartu, Estonia

P19 Title: Plasma taurine, genetic predisposition, and changes of insulin sensitivity in response to weight-loss diets: The POUNDS lost
Yoriko Heianza, Tulane University, USA

Ophthalmologists 2016
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<th>Track 14: Frontiers of Metabolomics Research</th>
<th>Track 16: Therapeutic Metabolomics</th>
<th>Track 18: Transcriptomics &amp; Metabolic pathways</th>
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<td>Session Chair: Andrea Armirotti, Istituto Italiano di Tecnologia, Italy</td>
<td>Lunch Break</td>
<td>Session Co-chair: Horng-Mo Lee, Taipei Medical University, Taiwan</td>
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<tr>
<td>Title: Metabolomic biomarkers for amyotrophic lateral sclerosis (ALS) in patients and animal models of ALS</td>
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<td>Title: Cross-talk between the circadian clock and cancer metabolism reveals novel anticancer strategies</td>
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<td>Loeffler Jean Philippe, Université de Strasbourg, France</td>
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<td>Benedetto Grimaldi, Istituto Italiano di Tecnologia, Italy</td>
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<tr>
<td>Title: Comparative assessment of phenolic compounds and antioxidant properties related to the harvest times from the leaves of Korean barley (Hordeum vulgare L.) cultivars</td>
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<td>Title: Ferrous glycinate reverses Warburg effect and regulates cell energy metabolism via suppression of hypoxia-induced factor in human lung adenocarcinoma A549 cells</td>
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<td>Woo Duck Seo, National Institute of Crop Science, Republic of Korea</td>
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<td>Horng-Mo Lee, Taipei Medical University, Taiwan</td>
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<tr>
<td>Title: Crosstalk between the circadian clock and cancer metabolism reveals novel anticancer strategies</td>
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<td>Title: NMR-based metabolomics analysis of 2D with 3D (Spheroids) of breast cancer cells</td>
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<td>Benedetto Grimaldi, Istituto Italiano di Tecnologia, Italy</td>
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<td>Björn Riefke, Bayer Pharma AG, Germany</td>
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### Special Session

**Title:** Translational Research in Targeting Glucose or Glutamine Dependency in Solid and Hematologic Neoplasms  
**Ashkan Emadi,** University of Maryland School of Medicine, USA

### Day 3 May 18, 2016

**RUBY**

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<th>Track 19: Data Analysis &amp; Systems Biology</th>
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<td>Session Chair: Andrea Armirotti, Istituto Italiano di Tecnologia, Italy</td>
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| Title: Molecular Mechanism for modulation of a multiple transcriptionfactorcomplexformed on enhancer site upon phosphorylation | | Title: Using chlorophyll as gamma absorber generated from uranium coated weapons to protect Iraqi children from cancer |
| Kazuhiro Ogata, Yokohama City University Graduate School of Medicine, Japan | | Jaleel Kareem Ahmed, Babylon University, Iraq |
| Title: Development and commercialization of a plasma amino acid based risk diagnosis service | | Title: Recent advancements in Mendelian genomics and data management at the Yale Center for Genome Analysis |
| Takeshi Kimura, Ajinomoto Co., Inc., Japan | | Shrikant Mane, Yale University School of Medicine, USA |
Title: ERRα induces mitochondrial glutaminase expression guiding anaplerosis upon osteogenic differentiation of mesenchymal stem cells
Min Guan, Chinese Academy of Sciences, China

Title: Development and mining of a volatile organic compound database
Md. Altaf-Ul-Amin, Nara Institute of Science and Technology, Japan

Title: Detection of Bt protein metabolites presence in insect and their predator transferred through GM rice using ELISA technique
Zunnu Raen Akhtar, University of Agriculture Faisalabad, Pakistan

Lunch Break

Awards and Closing Ceremony