

DAILY PROGRAM

WEDNESDAY, SEPTEMBER 21, 2016

08:00-16:00	Registration (Lobby, 1F)
08:00-16:00	Speaker Ready Room (Room 103, 1F)
09:30-15:30	Exhibition & Poster (Room 201, 2F and Banquet Hall, 3F)
08:30-09:15	Plenary Session 7 (Plenary Hall, 3F)
08:30-17:30	Bioinformatics Hub (Room 203, 2F)
09:30-10:30	ECR Manuscript Competition (Room 102, 1F)
	Networking Break and Poster Viewing (Room 201, 2F and Banquet Hall, 3F)
10:30-12:15	[W01] Pharmacoproteomics & Drug Development (Plenary Hall, 3F)
	[W02] Proteogenomics & The Missing Proteins (Room 101 AB, 1F)
	[W03] Cysteine Modifications & Redoxomics (Room 101 C, 1F)
	[W04] Membrane & Extracellular Proteomics (Room 101 D, 1F)
	[W05] Food & Nutrition and Immuno- Peptidome: Focus on Food Allergies (Room 102, 1F)
12:30-13:30	Networking Break and Poster Viewing (Room 201, 2F and Banquet Hall, 3F)
13:45-15:30	[W06] Chemical Proteomics & Drug Profiling (Plenary Hall, 3F)
	[W07] Proteomics in the Era of Big Data (Room 101 AB, 1F)
	[W08] Neurological Disorders & Neuroproteomics (Room 101 C, 1F)
	[W09] Plant & Microbial Proteomics (Room 101 D, 1F)
	[W10] Kidney, Urine and Plasma: Opportunities for Early Diagnosis and Risk Assessment (Room 102, 1F)
15:30-17:30	Closing Plenary Session with Award Lectures (Plenary Hall, 3F)
18:00	Transfer to HPP Workshop Day Venue, Sun Moon Lake (Lobby, 1F)

Registration Open 08:00-16:30 @Lobby, 1F
Speaker Ready Room Open 08:00-15:30 @103, 1F

08:30-17:30 Room 203 (2F)

Bioinformatics Hub

10:30-15:30: Special Planned Topics: Glycoproteomics Informatics

09:30-10:30: Networking Break and Poster Viewing Room 201 (2F) and
(Even Poster Numbers) Banquet Hall (3F)

08:30-09:15 Plenary Hall (3F)

Plenary Session 8

Chair: Gilbert Omenn, USA

8:30 PL 08

Precision Medicine: Proteomics in the Context of Health Assessment and Systems Biology

Jennifer Van Eyk, Cedars-Sinai Medical Center, USA

10:30-12:15 Plenary Hall (3F)

W01: Pharmacoproteomics & Drug Development

Chairs: Yasushi Ishihama, Japan; Henrik Daub, Germany

10:30 WK-01

Kinase-Centric Pharmacoproteomics for Molecular-Targeting Drug Discovery

Yasushi Ishihama, Kyoto University, Japan

10:55 WK-02

Quantitative Proteomics to Support the Discovery and Development of Targeted Drugs

Henrik Daub, Evotec (München) GmbH, Germany

11:20 WO01-001

Proteome-Wide Drug Dose-Response of Prostate Cancer Cell Lines Exposed to Androgen Receptor Antagonists by Microflow-LC SWATH MS Analysis

Christie Hunter, Sciex, USA

11:35 WO01-002

Profiling Changes in the Phosphoproteome of Hematopoietic Cells in Response to a Novel Class of Anti-Oncogenic Compounds

Peter Kubiniok, University of Montreal, Canada

- 11:50** **WO01-003**
Cancer Proteomics towards Precision Medicine by Molecular Targeting Drug
Zhiwei Qiao, National Cancer Center Research Institute, Japan
- 12:00** **WO01-004**
Drug Development by Linking Pathophysiology in Cancer to Proteomics
Marko-Varga György, University of Lund, Sweden

10:30-12:15 **Room 101 AB (1F)**

W02: Proteogenomics & The Missing Proteins

Chairs: **Akhilesh Pandey, USA; Daehee Hwang, South Korea**

- 10:30** **WK-03**
A Novel Data-Independent Acquisition (DIA) Mass Spectrometry Approach Integrated With RNA-Seq for Deep Proteogenomic Profiling
Akhilesh Pandey, Johns Hopkins University, USA
- 10:55** **WK-04**
A Proteogenomic Analysis of Early Onset Gastric Cancer
Daehee Hwang, DGIST, South Korea
- 11:20** **WO02-001**
A Proteogenomics Approach to Reveal Molecular Mechanisms of COPD
Peter Horvatovich, University of Groningen, Netherlands
- 11:35** **WO02-002**
Launch of MissingProteinPedia: Accelerating Discovery of the Human Proteome Project's "Missing Proteins"
Mark Baker, Macquarie University, Australia
- 11:50** **WO02-003**
Proteogenomics of Human Cancer Cell Lines: Coding Variants Identified by Shotgun Proteomics
Sergei Moshkovskii, Institute of Biomedical Chemistry, Russia
- 11:55** **WO02-004**
Proteogenomic Profiling of Neoantigens for Personalized Cancer Immunotherapy
Koji Ueda, Japanese Foundation for Cancer Research, Japan
- 12:00** **WO02-005**
Missing Genes and Supplementary Tissues in the Human Protein Atlas
Evelina Sjostedt, KTH Royal Institute of Technology, Sweden

W03: Cysteine Modifications & Redoxomics

Chairs: **Stuart Cordwell**, Australia; **Kong-Joo Lee**, South Korea

10:30 **WK-05**

Proteomic-Scale Approaches for Identifying Reversible and Irreversible Cysteine Redox PTM in Myocardial Ischemia / Reperfusion

Stuart Cordwell, The University of Sydney, Australia

10:55 **WK-06**

ROSics: Principle of ROS in Oxidative Modifications and Structural Regulations

Kong-Joo Lee, Ewha Womans University, South Korea

11:20 **WO03-001**

Quantitative Proteomics Depicts the Landscape of Cysteine Redoxome for Nitric Oxide-Mediated Myocardial Protection against Ischemia-Reperfusion Injury

Tzu-Ching Meng, Academia Sinica, Taiwan

11:35 **WO03-002**

Proteomic Analysis of S-sulphydration by Ultrafilter-Assisted Functional Supramolecular Polymer Capture

Huiming Yuan, Chinese Academy of Sciences, China

11:50 **WO03-003**

TRPC6-Dependent S-Nitrosylation in Duchenne Muscular Dystrophy

Heaseung Sophia Chung, Johns Hopkins University, USA

11:55 **WO03-004**

Proteomic and Redox Proteomic Analyses Reveal a Dual ROS-Regulation of Glucose Uptake in Adipocytes

Zhiduan Su, The University of Sydney, Australia

12:00 **WO03-005**

Identification of Protein Estrogenization as a Redox Post-Translational Modification by Shot-Gun Proteomics and Activity Probe with Dimethyl Labeling

Shu-Hui Chen, National Cheng Kung University, Taiwan

10:30-12:15

Room 101 D (1F)

W04: Membrane & Extracellular Proteomics

Chairs: **Bernd Wollscheid**, Switzerland; **Igor Stagljär**, Canada

10:30 **WK-07**

Decoding Ligand Receptor Interactions

Bernd Wollscheid, ETH Zurich, Switzerland

10:55 **WK-08**

Targeting Epidermal Growth Factor Receptor (EGFR) in Lung Cancer: Towards Interactome-Informed Medicine

Igor Stagljär, University of Toronto, Canada

11:20 **WO04-003**

Analysis of Proteoforms in Membrane Protein Complexes by CID/ETD Top-Down Proteomics

Hans Wessels, Radboudumc, Netherlands

11:35 **WO04-002**

Tumour-Dependent Fibroblast Activation: When a Good Neighbour Turns Bad

Wei Wu, Utrecht University, Netherlands

11:45 **WO04-004**

In Silico Characterization of the Human Lipid Raft Proteome

Michelle Hill, La Trobe University, Australia

11:55 **WO04-005**

Exosomal EphA2 Transmits Chemoresistance and Predicts Pancreatic Cancer Patient Responses to Therapy

Tony Hu, Cornell University, USA

12:00 **WO04-006**

Systemic Perturbation of Keratinocyte Homeostasis by Genetic Loss of the Extracellular Matrix Protein Collagen VII

Kerstin Thriene, University of Freiburg, Germany

10:30-12:15

Room 102 (1F)

W05: Food & Nutrition and Immuno- Peptidome: Focus on Food Allergies

Chairs: **Paola Roncada**, Italy; **Etienne Caron**, Switzerland

10:30 **WK-09**

Food and Nutrition Proteomics: Focus on Food Allergens and Allergies

Paola Roncada, Istituto Sperimentale Italiano L. Spallanzani, Italy

10:55 **WK-10**

The Human Immuno-Peptidome Project: A New Initiative of B/D-HPP Program

Etienne Caron, ETH Zurich, Switzerland

- 11:20** **WO05-001**
The Benefits of Hybrid Fragmentation Technologies (ETHcD) for Analysing the Immunopeptidome
Albert Heck, Utrecht University, The Netherlands
- 11:35** **WO05-002**
Digestomics of Raw Peanut and Characterization of Gastric-Phase Released Peptides of Peanut Allergens
Tanja Cirkovic Velickovic, University of Belgrade, Serbia
- 11:50** **WO05-003**
Ultra-Fast Analysis of Allergens Using Capillary Electrophoresis Coupled to Mass Spectrometry and Ultraviolet Photodissociation
Daniel Lopez-Ferrer, Thermo Fisher Scientific, USA
- 11:55** **WO05-004**
Characterisation of Specificity of Different Commercial Proteases for Food Hydrolysates
Cristian De Gobba, University of Copenhagen, Denmark
- 12:00** **WO05-005**
Characterization and Modulation of Fish Allergens
Pedro Rodrigues, Universidade do Algarve, Portugal

12:30-13:30: Networking Break and Poster Viewing **Room 201 (2F) and Banquet Hall (3F)**
(Odd Poster Numbers)

13:45-15:30 **Plenary Hall (3F)**

W06: Chemical Proteomics & Drug Profiling

Chair: **Ho Jeong Kwon, South Korea**

- 13:45** **WK-11**
Genetically Encoded Protein Photocrosslinker for Comparative Proteomics
Peng Chen, Peking University, China
- 14:10** **WK-12**
Thermal Proteome Profiling for Drug Discovery
Mikhail Savitski, EMBL, Germany
- 14:35** **WO06-001**
Target Identification in Living Cells via Mass Spectrometry-Based Chemical Proteomics
*Xuezhi Bi, Agency for Science, Technology and Research (A*STAR), Singapore*
- 14:50** **WO06-002**
Comprehensive Mass Spectrometry Analysis Identifies a Novel Therapeutic Target in the Wnt Signaling Pathway
Tesshi Yamada, National Cancer Center Research Institute, Japan

- 15:05 **WO06-003**
The Phosphoproteome of the NCI-60 Cell Line Panel Reveals Markers of Drug Sensitivity
Chen Meng, Technische Universitat Muenchen, Germany
- 15:10 **WO06-004**
Targeted Proteomic Profiling of Enzymes that Activate the Prodrug PR-104A in Human Leukaemias
Yongchuan Gu, University of Auckland, New Zealand
- 15:15 **WO06-005**
Identification of TIFA as a Novel Therapeutic Target in Acute Myeloid Leukemia
Tong-You Wei, Academia Sinica, Taiwan

13:45-15:30 Room 101 AB (1F)

W07: Proteomics in the Era of Big Data

Chairs: Pengyuan Yang, China; Weimin Zhu, China

- 13:45 **WK-13**
Precision Analysis of Proteome by HPLC-ESI-MS
Pengyuan Yang, Fudan University, China
- 14:10 **WK-14**
Big Data infrastructure for Chinese Human Proteome Project
Weimin Zhu, National Institute for Protein Sciences – Beijing, China
- 14:35 **WO07-001**
Leaving Shallow Waters of Protein Identification: Integrating Taxonomic and Functional Information to Tackle Challenges in Metaproteomic Data Analysis
Thilo Muth, Robert Koch Institute, Germany
- 14:50 **WO07-002**
HUPO Human Proteome Project Metrics for 2016
Gilbert Omenn, University of Michigan, USA
- 15:00 **WO07-003**
Quantitation and Evaluation of Candidate Biomarkers of Pancreatic Cancer in Plasma Using Multiple Reaction of Monitoring Method
Weimin Zheng, Fudan University, China
- 15:10 **WO07-004**
ProDiGy: A Proteome Knowledge Discovery Gateway
Dong Li, Beijing Proteome Research Center, China
- 15:15 **WO07-005**
Comprehensive Draft of the HeLa Proteome to a Depth of More than 13,000 Proteins.
Dorte Breinholt Bekker-Jensen, University of Copenhagen, Denmark

W08: Neurological Disorders & Neuroproteomics**Chairs:** Daniel Martins-de-Souza, Brazil; Andrea Urbani, Italy**13:45 WK-15****Employing Neuroproteomics to Understand the Molecular Basis of Schizophrenia***Daniel Martins-de-Souza, University of Campinas, Brazil***14:10 WK-16****Exploring the Role of Hydrogen Sulfide in Neurodegenerative Disorders***Andrea Urbani, Catholic University of the Sacred Heart, Italy***14:35 WO08-001****Gene Expression and Proteomic Analysis of Cognitive Dysfunction in People with Remitted Major Depression***Klaus Oliver Schubert, The University of Adelaide, Australia***14:50 WO08-002****Proteomic Dissection of AMPA Receptor Complexes Identifies FRRS11 as a Determinant for Receptor Biogenesis Mutated in Severe Intellectual Disability***Uwe Schulte, University of Freiburg, Germany***15:05 WO08-003****Autoantibody Response in Meningioma Patients Reveals Aberrations in Signalling Pathways***Shabarni Gupta, Indian Institute of Technology Bombay, India***15:10 WO08-004****Proteomic Analysis of Motor Neurons from Induced Pluripotent Stem Cells: ALS***Victoria Dardov, Cedars Sinai Medical Center, USA***15:15 WO08-005****Analysis of the O-GlcNAcomic Profiling of Brain Tissue in Alzheimer's Disease***Wei-Wei Chang, Academia Sinica, Taipei, Taiwan*

W09: Plant & Microbial Proteomics

Chairs: Weiguo Andy Tao, USA; Michael R. Sussman, USA

13:45 WK-17

Using Proteomic Tools to Reveal New Facets of Plant Signaling

Weiguo Andy Tao, Purdue University, USA

14:10 WK-18

Application of Mass Spectrometric Technology for Quantifying Changes in Plasma Membrane Receptor-Mediated Signaling in Arabidopsis Thaliana

Michael Sussman, University of Wisconsin-Madison, USA

14:35 WO09-001

Quantitative Proteomic Analysis of Flooding and Its Recovery in Soybean Exposed to Aluminum Oxide Nanoparticles

Setsuko Komatsu, National Institute of Crop Science, Japan

14:50 WO09-002

Single-Species Proteomics, Multi-Species Metaproteomics, Trends and Opportunities to Read-Across in Environmental Assessment

Susana Cristobal, Linköping University, Sweden

15:05 WO09-003

Gastric Bypass Surgery Clearly Perturbs the Community Structure and the Functional Composition of the Intestinal Microbiota

Nico Jehmlich, Helmholtz-centre for Environmental Research - UFZ, Germany

15:10 WO09-004

Integrated Extracellular Matrix Proteome and Organ Specific Transcriptome Decipher Cell Wall Mediated Immunity in Plant

Kanika Narula, National Institute of Plant Genome Research, India

15:15 WO09-005

Phosphoproteomic Analysis of Abscisic Acid Signaling Components in Arabidopsis Seed

Anna Amagai, Tokyo University of Agriculture and Technology, Japan

13:45-15:30

Room 102 (1F)

W10: Kidney, Urine and Plasma: Opportunities for Early Diagnosis and Risk Assessment

Chairs: Tadashi Yamamoto, Japan; Jochen Schwenk, Sweden

13:45 **WK-19**

Social Implementation Vision of All-In-One Urine Test for Health Checkups

Tadashi Yamamoto, Niigata University, Japan

14:10 **WK-20**

Affinity Proteomics with Plasma Biobanks - From Discovery to Validation

Jochen Schwenk, Scilifelab, KTH Royal Institute of Technology, Sweden

14:35 **WO10-001**

Comparative Proteomic Analysis of Kidney Distal Convoluted Tubule and Cortical Collecting Duct Cells Following Long-Term Hormonal Stimulation

Qi Wu, Aarhus University, Denmark

14:50 **WO10-002**

Targeted MS-based Assay of Circulating Proteoforms Related to Aging in Human Plasma

Pingbo Zhang, Johns Hopkins University, USA

15:05 **WO10-003**

Can Proteomics Contribute to Solving the Riddle of Diabetic Nephropathy?

Leena Liljedahl, Lund University, Sweden

15:10 **WO10-004**

Quantification of Angiotensin II-Regulated Proteins in Urine of Patients with Polycystic and Chronic Kidney Diseases by Selected Reaction Monitoring

Ana Konvalinka, University of Toronto, Toronto, Canada

15:15 **WO10-005**

Analysis of the HDL Proteome - Myths and Legends and Reality

Manfred Raida, National University of Singapore, Singapore

15:30-17:30

Plenary Hall (3F)

Award Lectures & Closing Ceremony