

# “OMICs in Biomedical Research”

## Preliminary Programme

### June 8 (Monday), 2015

<b>11:00 – 17:00</b>	<b>Arrival &amp; Registration</b>
18:15 – 18:30	Opening Keynote <b>INTRODUCTION of the Speaker by IGOR ŠTAGLJAR</b>
18:30 – 19:20	<b>Stan Fields</b> (University of Washington, Seattle, USA) “Deep mutational scanning to analyse protein function”
19:30 – 21:00	<i>Songs, Mediterranean food and wine</i>

### June 9 (Tuesday), 2015

<b>09:00 - 13:00</b>	<b>Morning session</b> <b>OMICs and Aging/Neurodegenerative diseases (30' talk+5minQs)</b> <b>SESSION CHAIR: Erich Wanker</b> (MDC Berlin, Germany)
09:00 - 9:35	<b>Adriano Aguzzi</b> (University of Zurich, Switzerland) “Molecular biology of prions”
09:35 - 10:10	<b>Gaia Novarino</b> (Institute for Science & Technology, Austria) “The HSPome: a journey in the genetic landscape of hereditary spastic paraplegias”
10:10 -10:30	<b>Christoph H. Borchers</b> (University of Victoria, Canada) “MRM-based assay kits for quantitative metabolomics in biomedical and clinical research”
10:30 - 11:00	<i>Coffee break</i>
11:00- 11:35	<b>Paul Muchowski</b> (KynuRex, USA) “Yeast As A Screening Tool For Protein Misfolding Diseases”
11:35 - 12:10	<b>Wolfgang Baumeister</b> (Max Plank, Martinsried, Germany) “The Challenge of doing Structural Biology <i>in situ</i> ”
12:10 - 12:30	<b>Maciej Lalowski</b> (University of Helsinki, Finland) “Drafting the Neuronal Ceroid Lipofuscinosis 1 Interactome in the brain”
13:00 – 14:00	<i>Lunch</i>
14:00 – 15:00	<i>1st WORKSHOP “Publishing high profile papers in OMICs research”</i> Moderator: <b>Igor Štagljar</b> <b>Natalie de Souza</b> (Editor in Chief, Nature Methods) <b>Mirella Bucci</b> (Senior Editor, Nature Chemical Biology)
15:00 – 17:00	<i>Free activities</i>
<b>17:00 – 20:00</b>	<b>Evening session</b> <b>OMICs and Networks (30' talk + 5 min Qs)</b> <b>SESSION CHAIR: Stan Fields</b> (University of Washington, USA)
17:00 - 17:35	<b>Charlie Boone</b> (University of Toronto, Canada) “Modelling the Cell with Global Genetic Interaction Networks”
17:35 - 18:10	<b>Anne-Claude Gavin</b> (EMBL, Heidelberg, Germany) “Protein-lipid networks”
18:10 - 18:45	<b>Martin Beck</b> (EMBL, Heidelberg, Germany) “Integrated genome and proteome-wide analysis reveals organ-specific proteome deterioration during aging in rat”
18:45 - 19:00	<b>Berend Snijder</b> (CeMM Research Centre, Vienna, Austria) “Functional mapping of the lipid landscape in innate immunity”
19:00 - 19:15	<i>Coffee break</i>
19:15 - 19:50	<b>Erich Wanker</b> (MDC Berlin, Germany) “Interactome maps for proteins involved in neurodegenerative diseases and synapse function”
19:50 - 20:25	<b>Patrick Aloy</b> (IRB, Barcelona, Spain) “A network biology approach to therapeutics”
20:30 - 21:30	<i>Diner</i>

### June 10 (Wednesday), 2015

<b>09:00 - 13:00</b>	<b>Morning session</b>
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### OMICs and Drug Discovery (30' talk + 5 min Qs)

**SESSION CHAIR: Paul Muchowski** (KynuRex, USA)

9:00 - 9:35	<b>Gerard Drewes</b> (Cellzome/GSK, Heidelberg, Germany) “Tracking drugs in living cells by thermal profiling of the proteome”
09:35 - 10:10	<b>Klaus Seuwen</b> (Novartis, Basel, Switzerland) “Orphan G protein-coupled receptors in the human genome”
10:10 -10:45	<b>Domagoj Vučić</b> (Genentech, South San Francisco, USA) “Ubiquitination profiling reveals sensitivity factors in cancer and inflammatory diseases”
10:45 - 11:15	<i>Coffee break</i>
11:15 - 11:50	<b>Slobodan Vukičević</b> (University of Zagreb, Croatia) “Bone morphogenetic proteins in regenerative medicine”
11:50 - 12:25	<b>Jörg Hoheisel</b> (German Cancer Research Center, Heidelberg) “Affinity-based assays for personalised proteomics in cancer research”
12:25 - 12:40	<b>Marija Tadin-Strapps</b> (Merck, USA) “siRNA and CRISPR tools for target validation: Impact on early drug discovery”
12:40 – 13:00	<b>Volker Kruff</b> (AB SCIEX, Darmstadt, Germany) “Creating a digital image of any sample in the MS2 space: Discussing data-independent acquisition strategies”
13:00 - 14:00	<i>Lunch</i> Small conference room <i>(13:00-14:00) Alpha Chrom Satellite Symposium</i>
14:00 - 17:00	<i>Free activities</i> Small conference room <i>(16:00-17:00) SCIEX Workshop OneOmics and Swath</i>
<b>17:00 - 20:00</b>	<b>Evening session</b> <b>OMICs &amp; Cancer (30' talk + 5 min Qs)</b> <b>SESSION CHAIR: Ron Kopito</b> (Stanford University, USA)
17:00 - 17:35	<b>Siniša Volarević</b> (University of Rijeka, Croatia) “Ribosome biogenesis stress and p53 regulation”
17:35 - 18:10	<b>Igor Štagljar</b> (University of Toronto, Canada) “Membrane Protein Interaction Networks in Cancer”
18:10 - 18:45	<b>Kristijan Ramadan</b> (University of Oxford, UK) “Dynamic and reorganisation of p97/VCP -proteome after ionising radiation”
18:45 - 19:15	<i>Coffee break</i>
19:15 - 19:50	<b>Thomas Kislinger</b> (UHN, Toronto, Canada) “Systematic development of SRM-MS assays for the detection of aggressive prostate cancers”
19:50 - 20:05	<b>Alexsander Buntru</b> (Max Delbrueck Center, Berlin, Germany) “DULIP: a dual luminescence-based co-immunoprecipitation assay for interactome mapping in mammalian cells”
20:05 - 21:00	<i>Dinner</i>
21:00 - 23:00	Poster session

### June 11 (Thursday), 2015

<b>09:00 - 13:00</b>	<b>Morning session</b> <b>Emerging “OMICs” technologies (30' talk + 5 min Qs)</b> <b>SESSION CHAIR: Patrick Aloy</b> (IRB, Barcelona, Spain)
09:00 - 9:35	<b>Brenda Andrews</b> (University of Toronto, Canada) “Yeast proteome dynamics from single cell imaging and automated analysis”
09:35 - 10:10	<b>Gavin Wright</b> (Sanger Center, Hinxton, UK) “Using systematic extracellular protein interactions screens to identify and interactions that are essential for cellular recognition processes”
10:10 - 10:45	<b>Hana Kovarova</b> (Institute of Animal Physiology and Genetics, Czech Republic) “A Neural Progenitor differentiation Patterns of Surface and secreted proteins for Cell-Replacement therapies of Neuronal Disorders”
10:45 - 11:15	<i>Coffee break</i>
11:15 - 11:50	<b>Uwe Sauer</b> (ETH Zurich, Switzerland) “Metabolomics as a hypothesis

generator”

11:50 - 12:25	<b>Ola Söderberg</b> (Uppsala University, Sweden) “Molecular tools for evaluation of cellular activity status”
12:25 - 12:45	<b>Lovorka Grgurević</b> (University of Zagreb, Croatia) “Utilizing osteogenic potential of BMP6 in developing new treatment options”
13:00 - 14:00	<i>Lunch</i>
14:00 - 20:00	<i>Excursion</i>
20:00 - 21:00	<i>Dinner</i>

### June 12 (Friday), 2015

<b>09:00 - 13:00</b>	<b>Morning session</b> <b>OMICs &amp; Microbes (30' talk + 5 min Qs)</b> <b>SESSION CHAIR: Uwe Sauer</b> (ETH Zurich, Switzerland)
09:00 - 09:35	<b>Henning Walczak</b> (University College, London) “Linear Ubiquitin: at the crossroads of gene activation, cell death, inflammation and cancer”
09:35 - 10:10	<b>Miroslav Radman</b> (MedILS, Split, Croatia) “Are aging and age-related diseases phenotypes of protein damage?”
10:10 - 10:45	<b>Michel Desjardins</b> (University of Montreal) “Understanding antigen presentation and the immune response in the “OMICs” Era”
10:45 - 11:15	<i>Coffee break</i>
11:15 - 11:50	<b>Eric Brown</b> (McMaster University, Hamilton, Canada) “Small molecules as probes of complexity in microbial systems”
11:50 - 12:10	<b>David Duffy</b> (University College Dublin, Ireland) “MYCN Integrative Omics Enables Network-Based Therapeutic Target Discovery and Patient Stratification in Neuroblastoma”
12:10 - 12:30	<b>Maria Pires Pacheco</b> (University of Luxembourg, Luxembourg) “Integrated metabolic modelling reveals cell-type specific control of the macrophage metabolic network”
12:30 - 12:50	<b>Gordan Lauc</b> (University of Zagreb, Croatia) “Patient stratification beyond individual genes: Glycans as integrators of genes and environment”
12:50 - 13:10	<b>Shaun Bilsborough</b> (Agilent Technologies, UK) “Addressing the challenges of integrating data in the multi-omics laboratory”
13:10 - 14:00	<i>Lunch</i>
14:00 - 16:00	<i>Free activities</i> 2nd WORKSHOP “Careers in OMICs-based disciplines” Moderator: <b>Mladen Merćep</b> <b>Brenda Andrews</b> (University of Toronto, Canada), <b>Marija Tadin-Strapps</b> (Merck, USA)
16:00 - 17:00	<b>Jolanda van Leeuwen</b> (University of Toronto, Canada) “Mapping genetic suppression interactions on a global scale”
17:00 -17:20	<i>Coffee break</i>
17:20- 17:30	<i>Coffee break</i>
<b>17:30 - 17:45</b>	<b>Closing Keynote</b> <b>INTRODUCTION of the Speaker by Miroslav Radman</b>
17:45 – 18:20	<b>Ron Kopito</b> (Stanford University, USA) “Proteomic and functional genomic dissection of protein quality control in the endoplasmic reticulum”
20:00 - 23:00	<i>Conference Banquet</i>

### June 13 (Saturday), 2015

Departure
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