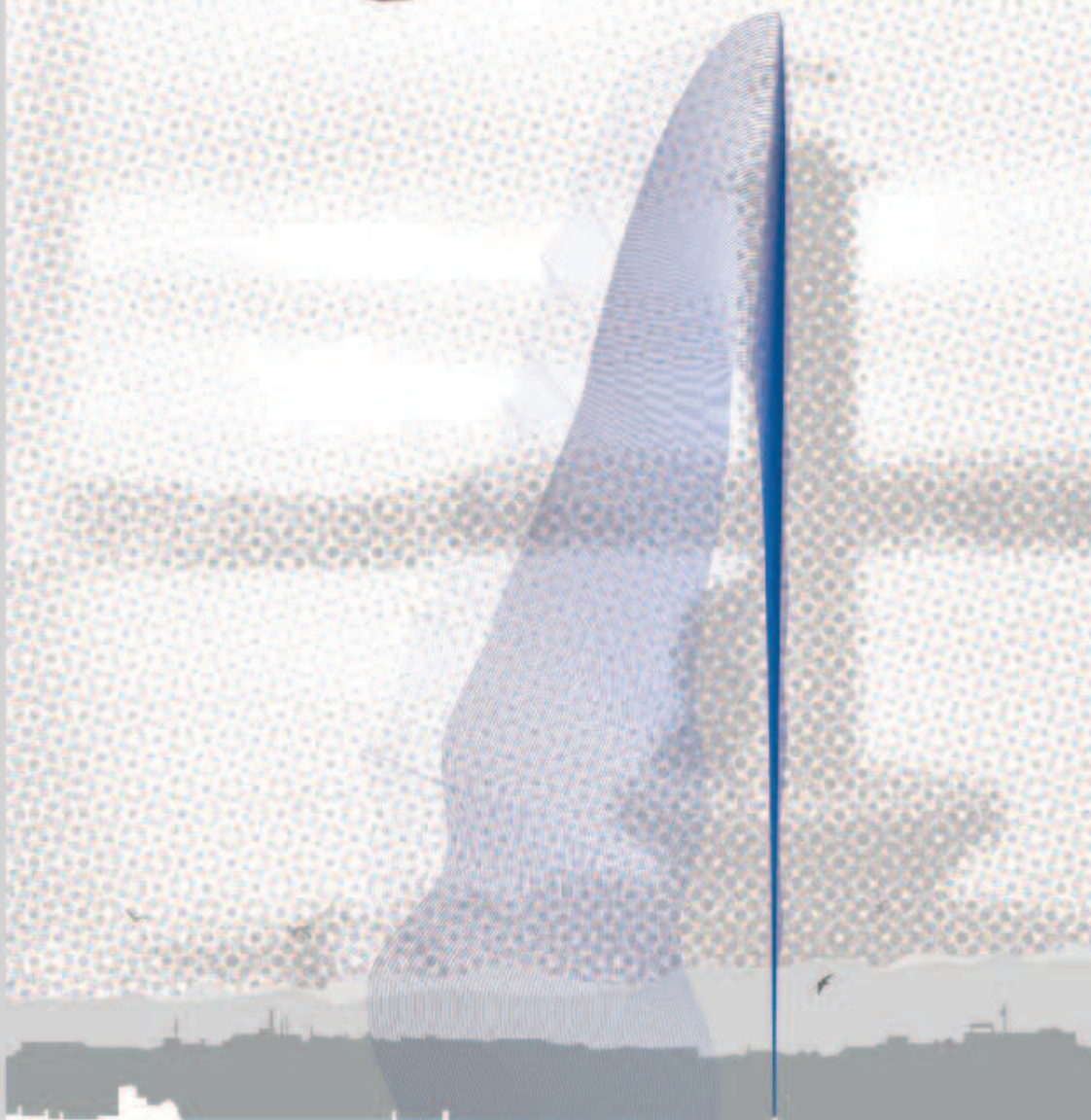


HUPO 2011  
10<sup>TH</sup> WORLD CONGRESS  
4-7 SEPTEMBER 2011

*Geneva*

# *Scientific Programme*



# Scientific Programme

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## SUNDAY 4 SEPTEMBER 2011

17:00-17:30	<b>Opening ceremony</b> Chairs: Patricia Palagi Speaker: Jean-Charles Sanchez, Henri Bounameaux & Catherine Costello	HALL A, HALL B
17:30-18:15	<b>Plenary Lecture 1</b> Chair: Denis Hochstrasser  <b>The IG nobel prizes</b> Speaker: Marc Abrahams	HALL A, HALL B
18:15-19:00	<b>Plenary Lecture 2</b> Chair: Denis Hochstrasser  <b>Protein modelling and drug discovery</b> Speaker: Michael Sternberg	HALL A, HALL B
19:00-22:00	Welcome Reception	EXHIBITION AREA

## MONDAY 5 SEPTEMBER 2011

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08:30-09:15	<b>Plenary Lecture 3</b> Chair: Denis Hochstrasser  <b>The Connectivity of Genomic Elements</b> Speaker: Stylianos Antonorakis <i>With the kind support of ASBMB</i>	HALL A, HALL B
09:15-10:00	<b>Plenary Lecture 4</b> Chair: Denis Hochstrasser  <b>Proteins And Genes Of The Circadian Mammalian Timing System</b> Speaker: Ueli Schibler	HALL A, HALL B
10:30-12:30	<b>S1 Infectious diseases</b> Chair: Jacques Schrenzel	HALL A
10:30-11:00	<b>Mass Spectrometry In Clinical Microbiology: Fascination, Facts And Future</b> Speaker: Jacques Schrenzel	
11:00-11:20	<b>OP012 - PROTEOME-WIDE SELECTED REACTION MONITORING ANALYSIS OF COMPLETE MICROBIAL PROTEOMES – A CASE STUDY IN STREPTOCOCCUS PYOGENES VIRULENCE MECHANISMS</b> Johan Malmström	

## Scientific Programme

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11:20-11:40	<b>OP013 - MICROORGANISM CHARACTERIZATION FOR THE CLINICS USING SRM</b> Jean-Philippe Charrier	
11:40-12:00	<b>OP014 - IMPACT OF GUT MICROBIOTA ON HOST BIOLOGY - WHO IS DOING WHAT?</b> Marianne Danielsen	
12:00-12:20	<b>OP015 - FULL OMICS PROFILING REVEAL EXTENSIVE DYNAMIC CHANGES DURING NORMAL AND DISEASE STATES</b> Michael Snyder	
10:30-12:30	<b>S2 Organellar proteomics</b> Chair: Angus Lamond	HALL B
10:30-11:00	<b>Super Experiments: Studying Cell Biology Using Quantitative Proteomics</b> Speaker: Angus Lamond	
11:00-11:20	<b>OP016 - MAPPING THE SUBCELLULAR PROTEIN DISTRIBUTION IN THREE HUMAN CELL LINES – A SUBCELLULAR PROTEIN ATLAS</b> Emma Lundberg	
11:20-11:40	<b>OP017 - DISSECTING THE SPATIO-TEMPORAL ORGANIZATION OF THE HUMAN CENTROSOME PROTEOME</b> Jens S Andersen	
11:40-12:00	<b>OP018 - N-TERMINOMICS AND TARGETED PROTEOMICS FOR A BETTER CHARACTERIZATION OF THE HUMAN MITOCHONDRIAL PROTEOME</b> Christine Carapito	
12:00-12:20	<b>OP019 - MODULATION OF NEURONAL PENTRAXIN 1 EXPRESSION IN RAT PANCREATIC BETA-CELLS SUBMITTED TO GLUCOTOXIC STRESS</b> Domitille Schwartz	
10:30-12:30	<b>S3 MS Quantitation</b> Chair: Ruedi Aebersold	HALL C
10:30-11:00	<b>The Organization Of The Proteome In Space And Time</b> Speaker: Ruedi Aebersold	
11:00-11:20	<b>OP020 - AUTOMATION OF A SISCAPA MAGNETIC BEAD WORKFLOW FOR PROTEIN BIOMARKER QUANTITATION BY MASS SPECTROMETRY</b> Leigh Anderson	
11:20-11:40	<b>OP021 - GENOME-WIDE PARALLEL QUANTIFICATION OF MRNA AND PROTEIN LEVELS AND TURNOVER IN MAMMALIAN CELLS</b> Matthias Selbach	

## Scientific Programme

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11:40-12:00	<p><b>OP022 - A DOUBLE SILAC STRATEGY FOR SIMULTANEOUS MEASUREMENT OF DIFFERENTIAL CHANGES IN PROTEIN DEGRADATION AND SYNTHESIS: APPLICATION TO STUDY THE EFFECTS OF INHIBITION OF THE HSP90 CHAPERONE MACHINE.</b></p> <p>Ivo Fierro-Monti</p>	
12:00-12:20	<p><b>OP023 - LABEL FREE QUANTITATIVE PROTEOMICS FOR THE DISCOVERY OF NOVEL MODIFICATION DEPENDENT HISTONE BINDING FACTORS</b></p> <p>H.Christian Eberl</p>	
15:00-17:00	<p><b>S4 Oncology</b></p> <p>Chair: Giulio Superti Furga</p>	<b>HALL A</b>
15:00-15:30	<p><b>Molecular Networks In Leukemia And Innate Immunity</b></p> <p>Speaker: Giulio Superti Furga</p>	
15:30-15:50	<p><b>OP024 - IDENTIFICATION OF A HIGH-SPECIFICITY AND SENSITIVITY AUTOANTIBODY-BASED COLORECTAL CANCER PREDICTOR PANEL BY COMBINING DIFFERENT PROTEIN MICROARRAY APPROACHES</b></p> <p>Rodrigo Barderas</p>	
15:50-16:10	<p><b>OP025 - RATIONAL DESIGN OF PLASMA PROTEIN SIGNATURES FOR EARLY DETECTION OF COLORECTAL CANCER</b></p> <p>Silvia Surinova</p>	
16:10-16:30	<p><b>OP026 - LABEL-FREE LC-MS/MS AND MRM DEVELOPMENT FOR DISCOVERY AND VERIFICATION OF BIOMARKERS FOR PROSTATE CANCER</b></p> <p>Yue Fan</p>	
16:30-16:50	<p><b>OP027 - ACCURATE QUANTIFICATION OF TUMOR PROTEOMES WITH SUPER-SILAC AND HIGH RESOLUTION MASS SPECTROMETRY</b></p> <p>Tamar Geiger</p>	
15:00-17:00	<p><b>S5 Post-translational modification</b></p> <p>Chair: Ole Jensen</p>	<b>HALL B</b>
15:00-15:30	<p><b>Posttranslational modifications. The eternal Frontier of proteomics?</b></p> <p>Speaker: Ole Jensen</p>	
15:30-15:50	<p><b>OP028 - BUILDING THE METHYLPROTEOME NETWORK</b></p> <p>Marc Wilkins</p>	
15:50-16:10	<p><b>OP029 - GLOBAL PROFILING OF DNA DAMAGE-REGULATED PHOSPHOPROTEOME AND ACETYLOME</b></p> <p>Petra Beli</p>	
16:10-16:30	<p><b>OP030 - PROTEOME-WIDE ANALYSIS OF THE UBIQUITIN-LIKE MODIFIER URM1 BY QUANTITATIVE MASS SPECTROMETRY</b></p> <p>Christian Toft Madsen</p>	

## Scientific Programme

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16:30-16:50	<b>OP031 - O-GLCNACYLATION AND PHOSPHORYLATION AT THE SYNAPSE: IS THERE EVIDENCE FOR PTM CROSS-TALK?</b> Al Burlingame	
15:00-17:00	<b>S6 Protein Arrays</b> Chair: Dolores Cahill	HALL C
15:00-15:30	<b>Clinical and translational applications of candidate biomarkers identified using Protein arrays</b> Speaker: Dolores Cahill	
15:30-15:50	<b>OP032 - PLASMA BIOMARKER DISCOVERY BY NEXT GENERATION AFFINITY ARRAYS</b> Jochen M Schwenk	
15:50-16:10	<b>OP033 - PROTEOMIC PROFILING OF AUTOIMMUNITY ON ANTIGEN MICROARRAYS</b> Peter Nilsson	
16:10-16:30	<b>OP034 - AFFINITY-BASED PROTEOMIC ANALYSIS OF PANCREATIC CANCER</b> Jörg D. Hoheisel	
16:30-16:50	<b>OP035 - MOLECULAR DESIGN OF RECOMBINANT ANTIBODIES FOR MICROARRAY-BASED APPLICATIONS</b> Christer Wingren	

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### TUESDAY 6 SEPTEMBER 2011

08:30-09:15	<b>Plenary Lecture 5</b> Chair: Jean Charles Sanchez	HALL A, HALL B
	<b>Growth Inhibitors For Fibre Tracts And Circuits In The Brain And Spinal Cord Limit Repair After Injury</b> Speaker: Martin Schwab	
09:15-10:00	<b>Plenary Lecture 6</b> Chair: Jean Charles Sanchez	HALL A, HALL B
	<b>Next Prot: Exploring the universe of human proteins</b> Speaker: Amos Bairoch	
10:30-12:30	<b>S7 CNS</b> Chair: Joan Montaner	HALL A
10:30-11:00	<b>Plasma biomarkers in ischemic stroke</b> Speaker: Joan Montaner	

## Scientific Programme

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11:00-11:20	<b>OP036 - FUNCTIONAL PROTEOMICS OF NATIVE AMPA RECEPTOR COMPLEXES REVEALS AN UNEXPECTED MOLECULAR DIVERSITY</b> Uwe Schulte	
11:20-11:40	<b>OP037 - QUANTITATIVE PROTEOMICS TO UNRAVEL NEURAL PROGENITOR/STEM CELLS (NPCS) INTERCELLULAR COMMUNICATION</b> Angela Bachi	
11:40-12:00	<b>OP038 - A PROTEIN SURFACEOME MAP OF GLIOBLASTOMA BRAIN CANCER CELLS FOR CLINICAL DIAGNOSTIC APPLICATIONS</b> Thomas Bock	
12:00-12:20	<b>OP039 - 2D-DIGE PROFILING OF HUMAN EMBRYONIC STEM CELLS DURING NEURAL DIFFERENTIATION</b> Ali Fathi	
10:30-12:30	<b>S8 Membranes proteins</b> Chair: Jerome Garin	<b>HALL B</b>
10:30-11:00	<b>Exploring membrane proteomes : Some emerging solutions to many challenges</b> Speaker: Jerome Garin	
11:00-11:20	<b>OP040 - ABUNDANCE OF CANCER BIOMARKERS AMONG THE PLASMA SOLUBLE HLA PEPTIDOME</b> Arie Admon	
11:20-11:40	<b>OP041 - AN ABSOLUTE QUANTIFICATION METHOD OF MOUSE TRANSMEMBRANE PROTEOME USING A COMBINATION OF WHEAT CELL-FREE SYNTHESIS AND MRM MASS SPECTROMETRY</b> Nobuaki Takemori	
11:40-12:00	<b>OP042 - THE CELL SURFACE PROTEIN ATLAS (CSPA)</b> Bernd Wollscheid	
12:00-12:20	<b>OP043 - CELL SURFACE CAPTURING REVEALS NEW MARKERS FOR IMMUNOPHENOTYPING CARDIAC PROGENITORS</b> Rebekah L. Gundry	
10:30-12:30	<b>S9 Data and knowledge</b> Chair: Amos Bairoch	<b>HALL C</b>
10:30-10:50	<b>OP044 - UNICARB-KB: A NEW GLYCOINFORMATICS INITIATIVE</b> Nicki Packer	
10:50-11:10	<b>OP045 - A MASS SPECTROMETRIC MAP FOR CANCER-ASSOCIATED PROTEINS APPLIED TO HUMAN PLASMA AND URINE</b> Ruth Hüttenhain	

## Scientific Programme

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11:10-11:30	<b>OP046 - ANALYSIS OF LARGE LC-MS/MS DATASETS USING THE AMAZON WEB SERVICE CAPABILITIES OF THE TRANS-PROTEOMIC PIPELINE</b> Joe Slagel	
11:30-11:50	<b>OP047 - STRUCTURAL SYSTEMS BIOLOGY USING CROSS-LINK DATA AND COMPUTATIONAL MODELLING</b> Abdullah Kahraman	
11:50-12:10	<b>OP048 - PROTEOMEXCHANGE - STANDARDS AND INFRASTRUCTURE FOR PROTEOMICS</b> Henning Hermjakob	
13:15-15:00	<b>EUPA Young Investigator Price</b> Chairs: Luca Bini & Garry Corthals	ROOM K
13:15- 13:35	<b>OP078 - MOUSE MODEL DRIVEN DISCOVERY OF PROTEIN BIOMARKERS FOR OVARIAN CANCER AND THEIR VERIFICATION IN HUMAN PLASMA BY SRM</b> Ruth Hüttenhain	
13:35- 13:55	<b>OC079 - FROM HERO TO ZERO - INADEQUATE CELLULAR STRESS RESPONSES AFTER EXPOSURE TO PERITONEAL DIALYSIS FLUIDS AND POTENTIAL TARGETS FOR CYTOPROTECTION</b> Klaus Kratochwill	
13:55- 14:15	<b>OC080 - MALDI MSI FOR THE SCREENING OF OVARIAN CANCER BIOMARKERS: NEW INSIGHTS OF THE TECHNOLOGY FOR NEW ISSUES IN PHARMACOLOGY.</b> Rémi Longuespée	
14:15- 14:35	<b>OC081 - GLYCAN ISOFORMS-MODULATION OF THE METASTATIC PROCESS IN BREAST CANCER</b> Giuseppe Palmisano	
14:35- 14:55	<b>OC082 - CEREBROSPINAL FLUID BIOMARKERS TO DIAGNOSE THE MENINGO-ENCEPHALITIC STAGE OF SLEEPING SICKNESS</b> Natalia Tiberti	
15:00-17:00	<b>S10 Metabolic disorders</b> Chair: Randal Nelson	HALL A
15:00-15:30	<b>Building Multidimensional Biomarker Views Of Type 2 Diabetes And Comorbidities Based On Protein Microheterogeneity</b> Speaker: Randal Nelson	

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- 15:30-15:50      **OP049 - CLINICAL DIAGNOSTICS OF LYSOSOMAL STORAGE DISEASES: DRY BLOOD SPOT ANALYSIS BY MULTIPLE REACTION MONITORING MASS SPECTROMETRY AND AFFINITY-PROTEOMICS OF LYSOSOMAL TARGET PROTEINS**  
Michael Przybylski
- 15:50-16:10      **OP050 - IDENTIFICATION OF A NOVEL ADIPOKINE: DIPEPTIDYL PEPTIDASE 4 A POTENTIAL LINK BETWEEN OBESITY AND THE METABOLIC SYNDROME**  
Stefan Lehr
- 16:10-16:30      **OP051 - STREPTOZOTOCIN-INDUCED DIABETES AFFECTS COMPLEX I ACTIVITY BY LOWERING NDUFS3 LEVELS IN RAT BRAIN MITOCHONDRIA**  
Federica Taurino
- 16:30-16:50      **OP052 - PROTEIN GLYCATION IN HUMAN BODY FLUIDS AND BLOOD CELLS**  
Feliciano Priego-Capote
- 
- 15:00-17:00      **S11 Functional proteomics** HALL B  
Chair: Mathias Mann
- 15:00-15:30      **In depth and rapid proteome coverage for functional proteomics**  
Speaker: Mathias Mann
- 15:30-15:50      **OP053 - MALES AND FEMALES AND THE COMPLEXITY OF THE PROTEOME**  
Joachim Klose
- 15:50-16:10      **OP054 - CHARTING THE HUMAN KINOME INTERACTOME**  
Markku Varjosalo
- 16:10-16:30      **OP055 - SINGLE CELL MASS SPECTROMETRY TO COMPREHENSIVELY STUDY IMMUNE- AND CANCER CELL SIGNALING NETWORKS**  
Bernd Bodenmiller
- 16:30-16:50      **OP056 - TRACKING AND FILTERING INTERACTION PROTEOMICS DATA**  
Brett Larsen
- 
- 15:00-17:00      **S12 Biomarker discovery tools** HALL C  
Chair: Charles Pineau
- 15:00-15:30      **Fertichip: A Predictive Assay To Assess The Presence Of Spermatozoa In The Testes Of Infertile Men**  
Speaker: Charles Pineau
- 15:30-15:50      **OP057 - COMBINING ULTRACENTRIFUGATION AND PEPTIDE TERMINI GROUP-SPECIFIC ENRICHMENT FOR MULTIPLEX ANALYSIS OF PLASMA PROTEINS**  
Thomas D Schreiber
- 15:50-16:10      **OP058 - BLADDER CANCER CANDIDATE BIOMARKERS DISCOVERY BY AMT TAG PROTEOMICS ON A LARGE MULTI-SITE COHORT**  
Christophe Masselon

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16:10-16:30	<b>OP059 - PROTEOMIC ANALYSIS OF BILE AND PANCREATIC CYST FLUID REVEALS PROMISING SOURCES OF CANCER MARKERS</b> Annarita Farina	
16:30-16:50	<b>OP060 - DIFFERENTIAL DIAGNOSIS OF AZOOSPERMIA WITH PROTEOMIC BIOMARKERS QUANTIFIED IN SEMINAL PLASMA BY MULTIPLEX SELECTED REACTION MONITORING ASSAY</b> Andrei P Drabovich	
17:00-18:30	<b>HUP0 General assembly</b>	HALL A
19:00-20:00	<b>Reception at the Swiss National Circus</b>	
20:00-23:00	<b>Congress Circus Event</b>	

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### WEDNESDAY 7 SEPTEMBER 2011

08:30-09:15	<b>Plenary Lecture 7</b> Chair: Luca Bini	HALL A, HALL B
	<b>Cell Therapy In Parkinson Disease</b> Speaker: Patrick Brundin <i>With the kind support of Roche</i>	
09:15-10:00	<b>Plenary Lecture 8</b> Chair: Luca Bini	HALL A, HALL B
	<b>Cern, Particle Accelerators And The LHC Collider</b> Speaker: Steve Myers	
10:30-12:30	<b>S13 Cardiovascular</b> Chair: Dario Neri	HALL A
10:30-11:00	<b>Vascular Tumor Targeting: From Target Identification To Clinical Trials</b> Speaker: Dario Neri	
11:00-11:20	<b>OP061 - PLASMA PROTEOMIC BIOMARKERS OF ACUTE HEART AND KIDNEY REJECTION: FROM AN UNBIASED ITRAQ DISCOVERY TO A TARGETED MULTIPLE REACTION MONITORING VALIDATION</b> W. Robert McMaster	
11:20-11:40	<b>OP062 - CARDIAC ISCHEMIA BIOMARKER DISCOVERY AND VALIDATION</b> Jennifer E Van Eyk	
11:40-12:00	<b>OP063 - THE PROTEOME OF HUMAN LP(A) POINTS TO A ROLE IN WOUND HEALING</b> Anne Von Zychlinski	

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12:00-12:20	<b>OP064 - IGF1P7 CONTRIBUTES TO VASCULAR REMOLDING DURING HYPERTENSION DEVELOPMENT IN SPONTANEOUS HYPERTENSIVE RATS REVEALED BY PROTEOMIC STUDY</b> Jie Qiu	
10:30-12:30	<b>S14 Pharmacotoxicology</b> Chair: Gyorgy Marko-Varga	HALL B
10:30-11:00	<b>Clinical Studies With Personalized Medicines And Biomarker Discovery</b> Speaker: Gyorgy Marko-Varga	
11:00-11:20	<b>OP065 - MONITORING DRUG METABOLIZING ENZYMES – ABSOLUTE QUANTIFICATION OF CYTOCHROME P450 3A4, 3A5, 3A7 AND MDR1 USING A SINGLE PEPTIDE TERMINUS-SPECIFIC ANTIBODY</b> Oliver Poetz	
11:20-11:40	<b>OP066 - CLOSTRIDIAL GLYCOSYLATING TOXINS REORGANIZE THE PROTEOME OF COLON CELLS</b> Andreas Pich	
11:40-12:00	<b>OP067 - IN SILICO DISEASE MODELS TO COMPARE KINASE INHIBITORS ACTION IN CANCER TREATMENTS</b> Jacques Colinge	
12:00-12:20	<b>OP068 - EXPLORING TIME-DEPENDENT DRUG PERTURBATIONS OF THE HER PHOSPHOTYROSINE SIGNALING NETWORK</b> Manuel Tzouros	
10:30-12:30	<b>S15 Imaging</b> Chair: Ron Heeren	HALL C
10:30-11:00	<b>Imaging Mass Spectrometry For Proteome Studies On Biological Surfaces</b> Speaker: Ron Heeren	
11:00-11:20	<b>OP069 - MALDI IMAGING IDENTIFIES PROGNOSTIC SEVEN-PROTEIN SIGNATURE OF NOVEL TISSUE MARKERS IN GASTRIC CANCER</b> Axel Walch	
11:20-11:40	<b>OP070 - THE HYBRID TECHNIQUE OF MALDI-TOF IMAGING AND MR IMAGING TO IMPROVE THE CORRELATION OF ANATOMICAL FEATURES AND MOLECULAR INFORMATION</b> Herbert Thiele	
11:40-12:00	<b>OP071 - DISTINGUISHING MORPHOLOGICALLY IDENTICAL TUMORS USING CORROBORATED MS-BASED MOLECULAR HISTOLOGY</b> Liam Mcdonnell	

## Scientific Programme

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12:00-12:20	<b>OP072 - MALDI IMAGING AT 20<math>\mu</math>M RESOLUTION OFFERS NEW POSSIBILITIES TO STUDY RAT SPERMATOGENESIS IN SITU</b> Mélanie Lagarrigue	
13:15-15:00	<b>Human Proteome Project</b> Co-chairs: Juan Pablo Albar, Pierre Legrain, Gilbert Omenn, Young-Ki Paik	<a href="#">HALL A, HALL B</a>
15:00-17:00	<b>HUPO &amp; EuPA Awards</b> Chairs: Maxey Chung, Concha Gil  EuPA Young Investigator Award Mike Dunn: EuPA Senior Scientist Award in Proteomics Steven Carr: HUPO Discovery Award Amos Bairoch: HUPO Distinguished Discovery Achievement Award Funchu He: HUPO Distinguished Service Award Alexander Makarov: HUPO Science Technology Award	<a href="#">HALL A, HALL B</a>
17:00-18:30	<b>Closing Ceremony</b> Chair: Patricia Palagi	<a href="#">HALL A, HALL B</a>
17:00 - 17:30	The Swiss Chocolate Speaker: Watzke Heribert	
17:30 - 18:00	Concluding Remarks Speaker: Jean-Charles Sanchez	
18:00 - 18:05	EUPA 2012: Glasgow	
18:00 - 18:10	HUPO 2012: Boston	
18:10 - 18:45	Farewell cocktail	