



10th SIENA MEETING

**FROM GENOME TO PROTEOME:
20 YEARS OF PROTEOMICS**

(in memory of Vitaliano Pallini)

**Aug. 31- Sept. 4, 2014, Siena, Italy
Auditorium Giurisprudenza e Scienze Politiche, Via Mattioli 10, Siena**

Organizers

D. Hochstrasser and J.-C. Sanchez, University of Geneva, Switzerland.

L. Bini, University of Siena, Italy.

Conference information and correspondence

Dip. Scienze della Vita, Via A. Moro 2, 53100 Siena, Italy.

E-mail: luca.bini@unisi.it; Web sites: <http://www.congressi.unisi.it/proteome/>

Tel:+39 0577 234938; Fax: +39 0577 234476

ACKNOWLEDGEMENTS

The organizers wish to express their gratitude to sponsors to this 10th edition of Siena meeting.

Particular thanks go to **Proteome Sciences plc., Siena University and Comune di Siena** whose continued support since 1994 has been instrumental in propagating this forum.

The meeting is sponsored by:

Founding Sponsor

Proteome Sciences plc.

Silver Sponsor:

Waters

Sponsor:

Biognosys AG

Journal Sponsor:

EuPA OPEN PROTEOMICS

PROGRAM OVERVIEW

SUNDAY AUGUST 31

16.00 – 19.00 Registration
19.30 Welcome Party (*below the tower of Piazza del Campo: Cortile del Podestà*)

MONDAY SEPTEMBER 1

08.00 – 09.15 Registration, Opening Remarks and Welcome Address: in memory of Vitaliano Pallini
09.15 – 10.00 **Opening Main Lecture: M. WILKINS**
10.00 – 11.00 **MAIN SESSION 1 – Proteome 2.0:** M. WILHELM AND A. BAIROCH
11.00 – 12.30 Coffee Break and **POSTER SESSION 1**
12.30 – 14.30 Lunch
14.30 – 16.00 **SESSION 1 – Organelles:** C. PINEAU AND SELECTED ORAL PRESENTATIONS
16.00 – 16.30 Coffee Break
16.30 – 18.00 **SESSION 2 – Cancer:** SELECTED ORAL PRESENTATIONS

TUESDAY SEPTEMBER 2

09.00 – 11.00 **MAIN SESSION 2 – TOWARDS CLINICAL APPLICATIONS:** L. ANDERSON, R. CAPRIOLI, D. GOODLETT, S. PATTERSON (sponsored by **Waters**)
11.00 – 12.30 Coffee Break and **POSTER SESSION 2**
12.30 – 14.30 Lunch
14.30 – 16.30 **SESSION 3 – Body fluids:** P.G. RIGHETTI AND SELECTED ORAL PRESENTATIONS.
16.30 – 17.00 Coffee Break
17.00 – 18.15 **SESSIONS 4 – Brain:** SELECTED ORAL PRESENTATIONS

18.30 Wine and cheese tasting (*below the olive trees of Orto dei Tolomei*)
(sponsored by **Proteome Sciences plc.**)

WEDNESDAY SEPTEMBER 3

09.00 – 11.00 **MAIN SESSION 3 – MarathOme:** G. OMENN, A. BURLINGAME, J. KLOSE, T. RABILLOU
11.00 – 11.30 Coffee Break
11.30 – 12.30 **SESSIONS 5 – Biological diversity:** SELECTED ORAL PRESENTATIONS
12.30 – 14.30 Lunch
14.30 – 16.00 **SESSIONS 6 – Post-Translational Modifications:** SELECTED ORAL PRESENTATIONS
16.15 – 16.30 Coffee Break
16.30 – 17.00 **MAIN SESSION 4 – Phoenix:** J. QIN
17.00 – 17.30 **Pre-Closing Lecture: R. APPEL**
17.30 – 18.15 **Closing Main Lecture: M. MANN**
18.15 – 18.30 Concluding Remarks

20:30 Social Dinner (*below the arches of San Francesco's Cloister*)

THURSDAY SEPTEMBER 4

09.00 – 10.00 **CAPPUCCINO & CORNETTI** before the departure

DETAILED PROGRAM

SUNDAY AUGUST 31

- 16.00 – 19.00 Registration (*Main Auditorium, Via Mattioli, 10*)
- 19.30 Welcome Party (*below the tower of Piazza del Campo: Cortile del Podestà*)

MONDAY SEPTEMBER 1

- 8.00 – 9.00 Registration
- 9.00 – 9.05 **OPENING REMARKS**
D.F. Hochstrasser, L. Bini, J.-C. Sanchez
- 9.05 – 9.15 **WELCOME ADDRESS: *In Memory of Vitaliano PALLINI***
D.F. Hochstrasser

OPENING MAIN LECTURE

- 9.15 – 10.00 **TWENTY YEARS OF THE PROTEOME**
M. Wilkins (*Sydney Australia*)

MAIN SESSION 1

PROTEOME 2.0

Chairperson: D.F. Hochstrasser

- 10.00 – 10.30 **MASS-SPECTROMETRY-BASED DRAFT OF THE HUMAN PROTEOME**
M. Wilhelm, J. Schlegl, H. Hahne, A. Moghaddas Gholami, M. Lieberenz, M.M. Savitski, E. Ziegler, L. Butzmann, S. Gessulat, H. Marx, T. Mathieson, S. Lemeer, K. Schnatbaum, U. Reimer, H. Wenschuh, M. Mollenhauer, J. Slotta-Huspenina, J.-H. Boese, M. Bantscheff, A. Gerstmair, F. Faerber, B. Kuster (*Freising, Walldorf, Heidelberg, Berlin, Munich, Germany*)
- 10.30 – 11.00 **neXtProt, STATUS REPORT**
A. Bairoch (*Geneva, Switzerland*)

11.00 – 12.30

COFFEE BREAK and POSTER SESSION 1

12.30 – 14.30 **LUNCH**

SESSION 1

ORGANELLES

Chairperson: J.-C Sanchez

- 14.30 – 15.00 **PROTEOMICS AND INTEGRATIVE GENOMICS FOR UNRAVELING THE MYSTERIES OF SPERMATOGENESIS: THE STRATEGIES OF A TEAM**
E. Com, N. Melaine, F. Chalmel, C. Pineau (*Rennes, France*)

- 15.00 – 15.15 **THE SUBCELLULAR PROTEIN ATLAS**
E. Lundberg, H. Ait Blal, F. Danielsson, M. Hjelmare, D. Mahdessian, R. Shutten, M. Skogs,
 C. Stadler, A. Aberg, M. Wiking, M. Uhlén (*Stockholm, Sweden*)
- 15.15 – 15.30 **NUCLEAR-CYTOPLASMIC TRAFFICKING OF PROTEINS IS A MAJOR RESPONSE OF HUMAN FIBROBLASTS TO OXIDATIVE STRESS**
J. Godovac-Zimmermann (*London, UK*)
- 15.30 – 15.45 **NUCLEAR PROTEOMICS REVEALS THE LINK BETWEEN MINICHROMOSOME MAINTENANCE COMPLEX AND GLUCOSE-INDUCED PROLIFERATION OF RAT PANCREATIC INS-1E B-CELLS**
D. Schvartz, Y. Couté, J.-C. Sanchez (*Geneva, Switzerland. Grenoble, France*)
- 15.45 – 16.00 **PROTEIN SPECIES COMPOSITION OF HUMAN ERYTHROCYTE 20S PROTEASOMES BY 2-DE, LIQUID CHROMATOGRAPHY AND MASS SPECTROMETRY**
P.R. Jungblut, F. Schmidt, C. Scheler, B. Thiede, H. Schlüter, B. Dahlmann (*Berlin, Germany. Oslo, Norway*)

16.00 – 16.30

COFFEE BREAK

SESSION 2

CANCER

Chairperson: L. Bini

- 16.30 – 16.45 **NOVEL PLATELET BASED METHOD FOR EARLY OVARIAN CANCER DIAGNOSIS**
 M. Lomnytska, S. Becker, U. Engström, S. Gustavsson, C. Björklund, E. Epstein, B. Franzén, G. Auer
 (*Stockholm, Uppsala, Sweden*)
- 16.45 – 17.00 **PROFILING THE TUMOR MICROENVIRONMENT PROTEOME IN PROSTATE CANCER USING LASER CAPTURE MICRODISSECTION COUPLED TO LABEL-FREE LC-MS/MS**
 L. Staunton, M. Reidy, L. Rosina, B. Hernandez, W. Watson, S. Finn, M. Loda, M. Bowden,
SR Pennington (*Dublin, Ireland. Boston, MA, USA*)
- 17.00 – 17.15 **ESTABLISHMENT OF A NEW BIOMARKER MODEL FOR DIAGNOSIS OF BLADDER CARCINOMA BASED ON CE-MS DERIVED URINARY PEPTIDES**
M. Frantzi, L. Flühe, K.E. van Kessel, A. Vlahou, M. Makridakis, E.C. Zwarthoff, N. Malats,
 H. Mischak, N.P. Anagnou (*Hannover, Germany. Athens, Greece. Rotterdam, The Netherland. Madrid, Spain*)
- 17.15 – 17.30 **GLOBAL PHOSPHOPROTEOMIC ANALYSIS OF PANCREATIC CANCER REVEALS SIGNALLING PATHWAY DYSREGULATION AND IDENTIFIES NEW BIOMARKERS AND THERAPEUTIC TARGETS**
 D. Britton, Y. Zen, S. Selzer, V. Mitra, A.o Quaglia, D. Sarker, L. Castellano, J. Stebbing, J. Gee,
 R. Nicholson, N. Heaton, I. Pike (*London, Cardiff UK*)
- 17.30 – 17.45 **TEAR PROTEIN BIOMARKERS AND GENOMICS IN LACRIMAL GLAND TUMORS**
R.W. Beuerman, L. Leng Seah, L. Zhou (*Singapore. Tampere, Finland*)
- 17.45 – 18.00 **PROTEOME-BASED APPROACHES AS A TOOL FOR THE IDENTIFICATION OF NOVEL MICRORNA TARGETS BY: DUAL ROLE OF MICRORNAS IN TUMORIGENICITY AND IMMUNOGENICITY**
 S. Jasinski-Bergner, F. Stehle, E.-M. Gonschorek, J. Kalich, K. Schulz, M. Teren, B. Seliger
 (*Halle, Germany*)
- 18.00 – 18.15 **miR-17-92 COUNTERBALANCES MYC AND FINE-TUNES MYC-CENTRED REGULATORY NETWORKS IN LYMPHOMA MAINTENANCE**
 M. Mihailovich, M. Bremang, E. Vitale, G. Varano, F. Zambelli, G. Pavesi, S. Casola, T. Bonaldi
 (*Milan, Italy*)

TUESDAY SEPTEMBER 2

MAIN SESSION 2 (sponsored by Waters)

TOWARDS CLINICAL APPLICATIONS

Chairperson: D.F. Hochstrasser

- 9.00 – 9.30 **PROTEOMICS FOR PERSONALIZED MEDICINE: MEASURING PROTEIN ANALYTE PANELS IN DRIED BLOOD SPOTS (DBS) USING AN AUTOMATED SISCAPA WORKFLOW**
M. Razavi, N.L. Anderson, S.S. Larkin, T.W. Pearson (*Washington DC, USA. Victoria, BC, Canada*)
- 9.30 – 10.00 **IMAGING MASS SPECTROMETRY: NEXT GENERATION MOLECULAR MICROSCOPY FOR DISCOVERY IN BIOLOGICAL AND CLINICAL RESEARCH**
R.M. Caprioli (*Nashville, TN, USA*)
- 10.00 – 10.30 **SERUM PROTEOMES DISTINGUISH CHILDREN DEVELOPING TYPE-1 DIABETES**
D. Goodlett, R. Moulder, S. Bhosale, J. Mykkänen, T. Erkkilä, E. Laajala, J. Salmi, E. Nguyen, H. Kallionpää, M. Vähä-Mäkilä, H. Hyöty, R. Veijola, J. Ilonen, T. Simell, J. Toppari, M. Knip, H. Lähdesmäki, O. Simell, R. Lahemaa (*Turku, Tampere, Oulu, Helsinki, Finland. Baltimore, MD, USA*)
- 10.30 – 11.00 **COMPANION DIAGNOSTICS AND THE BIOMARKER MEASUREMENT LIFECYCLE: LEARNINGS AND CONSIDERATIONS FOR THE FUTURE FROM THE DRUG DEVELOPMENT PERSPECTIVE**
S.D. Patterson (*Thousand Oaks, CA, USA*)
- 11.00 – 12.30 **COFFEE BREAK
and
POSTER SESSION 2**
- 12.30 – 14.30 **LUNCH**

SESSION 3

BODY FLUIDS

Chairperson: J.-C. Sanchez

- 14.30 – 15.00 **THE MONKEY KING AND PIGSY FERRYING THE PROTEOMIC SUTRAS INTO THE 3RD MILLENNIUM: A CHRONICLE**
P.G. Righetti (*Milano, Italy*)
- 15.00 – 15.15 **QUADRUPOLE-OBITRAP ANALYSIS OF TEARS AND AQUEOUS HUMOR FOR SUCCESSFUL TOP-DOWN PEPTIDE AND PROTEIN ISOFORM PROFILING OF THE HUMAN EYE**
B. Kumar Raghuraman, P. Raus, M. Pinkse, M. Ten Tusscher, G. Melles, P. Verhaert (*Delft, Rotterdam, Netherlands. Brussels, Diepenbeek, Belgium*)
- 15.15 – 15.30 **LEVEL OF FATTY ACID BINDING PROTEIN 5 (FABP5) IS INCREASED IN SPUTUM OF ALLERGIC ASTHMATICS AND LINKS TO AIRWAY REMODELING AND INFLAMMATION**
A. Puustinen, P. Kinaret, N. Ahonen, H. Suojalehto (*Helsinki, Finland*)
- 15.30 – 15.45 **DIGESTIVE CANCER BIOMARKERS IN PROXIMAL FLUIDS: FROM PIONEERING TO TRANSLATIONAL PROTEOMICS**

A. Farina (Geneva, Switzerland)

15.45 – 16.00 **PROTEOMICS ANALYSIS OF URINARY EXOSOMES FOR SENSITIVE DETECTION OF TUBULAR INJURY MARKERS IN CYSTINURIA**
M. Bourderioux, C. Chhuon, T. Nguyen-khoa, E. Escudier, B. Escudier, B. Knebelmann, A. Edelman, I.C. Guerrero (Paris, France)

16.00 – 16.15 **VARIABILITY AND NORMAL RANGES OF PLASMA BIOMARKER PROTEINS IN HEALTHY DONORS**
C. Escher, R. Ossola, M. Bober, T. Gandhi, O. Bernhardt, L. Reiter, Y. Butscheid (Switzerland)

16.15 – 16.30 **INTEGRATED TOP-DOWN MASS SPECTROMETRY WORKFLOW FOR HEMOGLOBIN DISORDERS DIAGNOSIS**
D. Coelho Graça, R. Hartmer, A.E. Acosta-Martin, W. Jabs, L. Clerici, C. Stoermer, M. Meyer, Y.O. Tsybin, P. Beris, K. Samii, D. Hochstrasser, A. Scherl, P. Lescuyer (Geneva, Lausanne, Switzerland. Bremen, Germany)

16.30 – 17.00 **COFFEE BREAK**

SESSION 4

BRAIN

Chairperson: L. Bini

17.00 – 17.15 **INFLAMMATORY MOLECULES AS PREDICTORS OF INFECTION DEVELOPMENT IN ANEURYSMAL SUBARACHNOID HAEMORRHAGE PATIENTS**
L. Azurmendi, V. Degos, N. Tiberti, N. Kapandji, P. Sanchez, A. Sarrafzadeh, L. Puybasset, N. Turck, J.-C. Sanchez (Geneva, Switzerland. Paris, France)

17.15 – 17.30 **QUANTITATIVE MASS SPECTROMETRY ASSAYS FOR AMYLOID BETA, TAU AND PHOSPHO-TAU IN CSF**
E. Lahert, C. Löbner, S. Koncarevic, S. Jung, A. Berfelde, C. Russell, I. Pike, M. Ward (London UK. Frankfurt/Main, Germany)

17.30 – 17.45 **BIOMARKERS TO RULE-OUT CT-SCANS IN MILD TRAUMATIC BRAIN INJURY**
L. Lagerstedt, N. Tiberti, N. Turck, E. Anderegg, A. Bulla, L. Rinaldi, K. Schaller, A. Sarrafzadeh-Khorassani, J.-C. Sanchez (Geneva, Switzerland)

17.45 – 18.00 **NEW TEST-OF-CURE BIOMARKER FOR *TRYPANOSOMA BRUCEI* GAMBIENSE HUMAN AFRICAN TRYPANOSOMIASIS**
F. Pailleux, N. Tiberti, V. Lejon, V. Lapierre, M.D. Ngoyi, J.M. Ndung'u, A. Hainard, P. Büscher, J.-C. Sanchez (Geneva, Switzerland. France. Congo. Belgium)

18.00 – 18.15 **QUANTITATIVE MASS SPECTROMETRY IMAGING OF NEURO-TRANSMITTERS AND NEUROPEPTIDES MEASURED DIRECTLY FROM TISSUE SECTIONS IN EXPERIMENTAL MODELS OF PARKINSON'S DISEASE**
M. Shariatgorji, A. Nilsson, N. Schintu, R.J.A. Goodwin, X. Zhang, A. Crossman, E. Bezaud, P. Svenningsson, P.E. Andren (Uppsala, Stockholm, Sweden. Manchester, UK. Bordeaux, France)

18.30 **WINE AND CHEESE TASTING (BELOW THE OLIVE TREES OF "ORTO DEI TOLOMEI")**
(sponsored by **Proteome Sciences plc.**)

WEDNESDAY SEPTEMBER 3

PLENARY SESSION 3

MARATHOME

Chairperson: D.F. Hochstrasser

- 9.00 – 9.30 **A NEW CLASS OF PROTEIN CANCER BIOMARKER CANDIDATES: DIFFERENTIALLY-EXPRESSED SPLICE VARIANTS OF ERBB2 (HER2/NEU) AND ERBB1 (EGFR) IN BREAST CANCER CELL LINES**
G.S. Omenn, Y. Guan, R. Menon (*Ann Arbor, MI, USA*)
- 9.30 – 10.00 **O-GLCNYLATION OF THE TRANSCRIPTION FACTOR SOX2 INHIBITS EPIGENETIC PRIMING ACTIVITY DURING SOMATIC CELL REPROGRAMMING**
S.A. Myers, S.Peddada, K. Tomoda, J.L. Pollack, S. Yamanaka, B. Panning, A.L. Burlingame
(*San Francisco, CA, USA*)
- 10.00 – 10.30 **THE PROTEOME IS GENETICALLY ARRANGED BY GENOME-WIDE POLYMORPHISMS AND MAY ACT INDIVIDUALLY AS A DISEASE MODIFIER**
S.Forler, O. Klein, J. Klose (*Berlin; Germany*)
- 10.30 – 11.00 **PROTEOMICS-DRIVEN ANALYSIS OF THE CELLULAR RESPONSES OF MACROPHAGES TO ENGINEERED NANOPARTICLES: A COMPARED ANALYSIS ON COPPER AND ZINC OXIDES**
T. Rabilloud, C. Aude-Garcia, S. Triboulet, H. Diemer, J. M. Strub, L. Armand, A. Gerdil, V. Collin-Faure, A. Habert, F. Proamer, D. Hanau, N. Herlin, M. Carriere, A. Van Dorsselaer
(*Grenoble, Strasbourg, France*)
- 11.00 – 11.30 **COFFEE BREAK**

SESSION 5

BIOLOGICAL DIVERSITY

Chairperson: L. Bini

- 11.30 – 11.45 **SCREENING OF HOST-PATHOGEN INTERACTIONS BY PROTEIN MICROARRAY REVEALED A NOVEL *STAPHYLOCOCCUS AUREUS* COMPLEMENT INHIBITORY PROTEIN AND PROTECTIVE ANTIGEN**
L. Scietti, E. Bartolini, P. Lo Surdo, W. Pansegrau, L. Jennings, J. Joslin, K. Sampieri, B. Lombardi, P. Ruggiero, M.R. Fontana, S. Marchi, S. Savino, P. Costantino, F. Bagnoli, G. Grandi, S. Liberatori
(*Siena, Italy. San Diego, CA, USA*)
- 11.45 – 12.00 **PROTEOMIC STRATEGIES FOR TYPING FOOD AND PROBIOTIC BACTERIA**
A. Pessione, E. Mangiapane, E. Galano, A. Amoresano, S. Jacobsen, K. Riedel, E. Pessione
(*Torino, Naples, Italy. Lyngby, Denmark. Greifswald, Germany*)
- 12.00 – 12.15 **FUNCTIONAL PROTEOME AND GENOME ANALYSIS OF THE COLON MUCOSAL MICROBIOTA FROM A HIGH FAT DIET RAT MODEL AND ITS RESPONSE TO A CHANGE IN DIET**
N. Jehmlich, S.-B. Haange, A. Oberbach, N. Schlichting, M. Heinrich, Y. Kullnick, F. Hugenholtz, H. Smidt, H. Till, J. Seifert, M. von Bergen
(*Leipzig, Stuttgart, Germany. Wageningen, Netherlands. Graz, Austria. Aalborg, Denmark*)
- 12.15 – 12.30 **USE OF ZEBRAFISH TO INVESTIGATE COLLAGEN I BASED SKELETAL DISEASES**
R Gioia, A Gagliardi, L Bianchi, V. Penza, F. Tonelli, S. Carra, F. Cotelli, M. Biggiogera, S. Leikin, S. Fisher, T. Yorgan, T. Schinke, A. Rossi, R. Tenni, L. Bini, A. Forlino
(*Pavia, Siena, Milan, Italy. Bethesda, Philadelphia, USA. Hamburg, Germany*)

12.30 – 14.30 LUNCH

SESSION 6

POST-TRANSLATIONAL MODIFICATIONS

Chairperson: J.-C Sanchez

- 14.30 – 14.45 **PERFECT TIMING: THE ROLE OF ION MOBILITY-MASS SPECTROMETRY IN BIOLOGY**
J. Langridge, C.J. Hughes, K. Richardson, R. Tonge, J.P.C. Vissers, B. Ruprecht, D. Helm, I. Becher, M. Bantscheff, B. Kuster (*Manchester, UK. Freising, Heidelberg, Germany*)
- 14.45 – 15.00 **GLYCOSYLATION OF HUMAN PLASMA CLUSTERIN YIELDS NOVEL BIOMARKERS OF ALZHEIMER'S DISEASE**
H.-C. Liang, C. Russell, R. Chung, A. Hye, C. Bazenet, S. Lovestone, I. Pike, M. Ward (*London, UK*)
- 15.00 – 15.15 **EFFECTS OF GLYCATION ON ASPIRIN-MEDIATED ACETYLATION OF HUMAN PLASMA AND RED BLOOD CELLS PROTEOME**
F. Finamore, F. Priego-Capote, S. Nolli, A. Zufferey, P. Fontana, J.-C. Sanchez (*Geneva, Switzerland. Córdoba, Spain*)
- 15.15 – 15.30 **STOICHIOMETRY OF SACCHAROMYCES CEREVISIAE LYSINE METHYLATION: INSIGHTS INTO NON-HISTONE PROTEIN LYSINE METHYLTRANSFERASE ACTIVITY**
G. Hart-Smith, S.Z. Chia, J.K.K. Low, M.J. McKay, M.P. Molloy, M.R. Wilkins (*Sydney, Australia*)
- 15.30 – 15.45 **META-TERMINOMICS ANALYSES OF HUMAN TISSUES: PROTEIN TAILS TELL REMARKABLE TALES**
C.M. Overall (*Vancouver, BC, Canada*)
- 15.45 – 16.00 **A COMPARATIVE BIOINFORMATICS WORKFLOW TO DETECT UNEXPECTED PROTEIN ADDUCTS**
M. Müller, O. Horlacher, Y. Zhang, A.E. Acosta-Martin, P. Antinori Malaspina, H.S. Pak, F. Nikitin, T. Yamamoto, A. Scherl, P. Lescuyer, F. Lisacek (*Geneva, Switzerland. Niigata, Japan*)
- 16.00 – 16.15 **BUILDING AND EXPLORING AN INTEGRATED HUMAN KINASE NETWORK: GLOBAL ORGANIZATION AND MEDICAL ENTRY POINTS**
A. César-Razquin, K. Huber, F.P. Breitwieser, P. Májek, G. Superti-Furga, J. Colinge (*Vienna, Austria*)

16.15 – 16.30 COFFEE BREAK

PLENARY SESSION 4

PHOENIX

Chairperson: D.F. Hochstrasser

- 16.30 – 17.00 **THE OVERVIEW OF THE PHOENIX CENTER**
J. Qin, F. He (*Beijing, China*)

PRE-CLOSING LECTURE

- 17.00 – 17.30 **TWENTY YEARS OF BIOINFORMATICS AND PROTEOMICS: AND NOW?**
R. Appel (*Lausanne, Switzerland*)

CLOSING MAIN LECTURE

- 17.15 – 18.00 **HIGH-RESOLUTION, QUANTITATIVE PROTEOMICS APPLIED TO CLINICAL QUESTIONS**
M. Mann (*Munich, Germany. Copenhagen, Denmark*)
- 18.00 – 18.15 **CONCLUDING REMARKS**
L. Bini, D.F. Hochstrasser, J.-C. Sanchez
- 20.30 **SOCIAL DINNER** (*below the arches of San Francesco's Cloister*)

THURSDAY SEPTEMBER 4

9.00 – 10.00 **CAPPUCCINO & CORNETTI before the departure**

POSTERS

(Alphabetical order sorted by first author)

DETECTION OF DRUG-DERIVED ADDUCTS ON BLOOD PROTEINS

A.E. Acosta-Martin, P. Antinori-Malaspina, C.R.S. Uppugunduri, Y. Daali, M. Ansari, D.F. Hochstrasser, A. Scherl, P. Lescuyer, M. Müller (*Geneva, Switzerland. Montreal, Canada*)

SRM-BASED QUANTIFICATION OF MALIGNANT BILIARY STENOSIS BIOMARKERS IN HUMAN BILE

A. Adrait, J.M. Dumonceau, M. Delhay, D. Hochstrasser, J.L. Frossard, Y. Couté, A. Farina (*Grenoble, France. Buenos Aires, Argentina. Brussels, Belgium. Geneva, Switzerland*)

VERIFICATION OF A PARKINSON'S DISEASE PROTEIN SIGNATURE BY MULTIPLE REACTION MONITORING LC-MS

T. Alberio, K. McMahon, M. Cuccurullo, L.A. Gethings, C. Lawless, M. Zibetti, L. Lopiano, J.P.C. Vissers, F. Lanucara, M. Fasano (*Insubria, Milan, Torino, Italy. Manchester, UK*)

QUANTITATIVE SUBCELLULAR PARTITIONING OF PROTEINS BETWEEN CYTOPLASM AND THE NUCLEUS IN ESTROGEN STIMULATED BREAST CANCER CELLS

A. A. M. Alhaiek, G. Pinto, J. Godovac-Zimmermann (*London, UK. Naples, Italy*)

BACTERIAL COMPETITION: A PROTEOMIC STUDY OF LACTOCOCCUS LACTIS AND LISTERIA MONOCYTOGENES

I. Alloggio, C. Piras, A. Soggiu, V. Greco, E. Cosciani, N. Losio, A. Urbani, L. Bonizzi, P. Roncada (*Milano, Rome, Brescia, Italy*)

IMMEDIATE AND DELAYED EFFECTS OF SUBCHRONIC PARAQUAT EXPOSURE DURING AN EARLY DIFFERENTIATION STAGE IN 3D-RAT BRAIN CELL CULTURES

P. Antinori, J. Sandström von Tobel, D. Zoia, J. Althaus, J. Mermoud, H. Pak, F. Monnet-Tschudi, A. Scherl (*Lausanne, Geneva, Switzerland*)

POLYMERIC IMMUNOGLOBULIN RECEPTOR OVEREXPRESSED IN MATURE MILK FROM WOMEN WITH PRE-GESTATIONAL OBESITY

H. Atanasov, E. Viallemonteil, C. Lucas, M.A. Gaud, M. Frassetto, M. Perivier, S. Claverol, P. Christin, F. Compain, P. Ingrand, R. Hankard (*Poitiers, Bordeaux, Châtelleraut, France*)

FUNCTIONAL ASSESSMENT OF HUMAN FOLLICULAR FLUID PROTEINS: HIGH RELEVANCE OF THE VDR/RXR- α COMPLEX ON BIOCHEMICAL DYNAMICS OF THE PREEVULATORY FOLLICLE

L. Bianchi, A. Gagliardi, C. Landi, A. Capaldo, R. Focarelli, V. De Leo, A. Luddi, Paola Piomboni, L. Bini (*Siena, Italy*)

INTEGRATIVE STUDIES OF ALLOSTERIC REGULATION IN SIGNAL TRANSDUCTION NETWORKS USING SYSTEMS BIOLOGY AND PROTEOMICS APPROACHES: FROM BASIC MECHANISMS TO DISCOVERY OF PERSONALIZED ANTI-CANCER AGENTS

K. Blacklock, G. Verkhivker (*Orange, La Jolla, San Diego, CA; Piscataway NJ; USA*)

SPAL - SOLID PHASE AMINO-LABELLING WITH TMT REDUCES SAMPLE PREPARATION TIME AND COMPLEXITY WITH IMPROVEMENTS IN LABELLING EFFICIENCY

G. Boehm; P. Préfot; S. Jung; V. Mitra; D. Britton; K. Kuhn; I. Pike; A. Thompson (*London, UK*)

SAMPLE FRACTIONATION BY HIGH RESOLUTION ISOELECTRIC FOCUSING AND DATABASE FRAGMENTATION BY PEPTIDE pI ALLOWS EFFICIENT MARINE METAPROTEOMICS OF SEASONAL DYNAMICS IN BALTIC SEA MICROBIOMES

R. Branca, Y. Zhu, S. Muthusamy, A. Andersson, J. Pinhassi, J. Lehtiö (*Stockholm, Kalmar, Sweden*)

MSDA, A PROTEOMICS SOFTWARE SUITE FOR IN-DEPTH MASS SPECTROMETRY DATA ANALYSIS USING GRID COMPUTING

C. Carapito, A. Burel, P. Guterl, F. Varrier, F. Bertile, A. Van Dorsselaer (*Strasbourg, France*)

PROTEOMIC INVESTIGATION ON DIFFERENT CLINICAL PHENOTYPES OF IDIOPATHIC PULMONARY FIBROSIS

A. Carleo, C. Landi, E. Bargagli, L. Bianchi, A. Gagliardi, M.G. Perari, D. Bennet, G. Cillis, A. Armini, L. Bini, P. Rottoli (*Siena, Italy*)

URINARY SIGNATURES OF RENAL CELL CARCINOMA INVESTIGATED BY PEPTIDOMIC APPROACHES

M. Cazzaniga, C. Chinello, G. De Sio, A.J. Smith, E. Gianazza, M. Oggioni, A. Grasso, F. Rocco, M. Grasso, I. Zoppis, G. Mauri, F. Magni (*Monza, Milano, Italy*)

CIGARETTE SMOKE INDUCES ANNEXIN A2 MODIFICATIONS IN HFL-1. A POSSIBLE IMPLICATION IN CELLULAR SENESCENCE

D. Cigna, C. D'Anna, G. Costanzo, A. Bruno, M. Ferraro, S. Di Vincenzo, L. Bianchi, L. Bini, E. Pace, M. Gjomarkaj (*Palermo, Siena, Italy*)

OPTIMIZATION OF THE MALDI IMAGING LASER REPETITION RATES USING AN ORTHOGONAL MALDI MASS SPECTROMETER

E. Claude; M. Towers; J. Langridge (*Manchester, UK*)

RESOLUTION OF THE SUMO-MODIFIED *SOLANUM TUBEROSUM* LEAF PROTEOME BY 3-D FLUORESCENCE DIFFERENCE GEL ELECTROPHORESIS

B. Colignon, M. Raes, M. Dieu, C. Demazy, E. Delaive, S. Mauro (*Gembloux, Namur, Belgium*)

ERYTHROCYTE CYTOSKELETAL-PLASMA MEMBRANE PROTEIN NETWORK IN NEURODEVELOPMENTAL DISORDERS

A. Cortelazzo, A. Pecorelli, C. De Felice, R. Guerranti, R. Leoncini, A. Barducci, A. Gagliardi, A. Armini, S. Leoncini, C. Signorini, E. Paccagnini, L. Bini, T. Durand, J-M. Galano, M. Rossi, G. Valacchi, L. Ciccoli, J. Hayek (*Siena, Florence, Ferrara, Italy. Montpellier, France*)

TEARS PROTEOMICS ANALYSIS: NEW BIOMARKERS FOR THYROID-ASSOCIATED ORBITOPATHY

M. de los Angeles Gracia, M. Hamedani, A. Hainard, C. Salvisberg, S. Eperon, N. Turck (*Geneva, Lausanne, Switzerland*)

ASSEMBLY STATES OF PHOTOSYSTEM I IN PLANT PHOTOSYNTHESIS

L.A. Eichacker, S. Tenzer, U. Sukop-Köppel, J. Arnold, K. Kmiec, A.-K. Bue, G. Weber, G. Fucile, M.P. Goldschmidt-Clermont, J.-D. Rochaix (*Stavanger, Norway. Mainz, Munich, Germany. Geneva, Switzerland*)

IDENTIFICATION OF EARLY ACETAMINOPHEN TOXICITY MARKERS IN 3D LIVER MICROTISSUES USING A DATA INDEPENDENT ACQUISITION APPROACH

C. Escher, M. Bober, P. Gunness, S. Messner, Y. Butscheid (*Zurich, Switzerland*)

A COMPREHENSIVE ASSOCIATION MAP OF ENDOGENOUS CHROMATIN-BINDING PROTEIN COMPLEXES TO ACETYLATED H3 AND H4 HISTONE MARKS

M. Faelth Savitski, A. Dittmann, P. Grandi, A.-M. Michon, T. Werner, M.M. Savitski, G. Drewes, M. Bantscheff (*Heidelberg, Germany*)

MITOCHONDRIAL PHOSPHOPROTEOME PROFILING FOR KINASES NETWORK ANALYSIS IN HEART

R. Ferreira, R. Vitorino, A.I. Padrão, G. Espadas, F.M. Mancuso, P. Oliveira, A. Barros, E. Sabidó, F. Amado (*Aveiro, UTAD, Portugal. Barcelona, Spain*)

EXPLORING THE URINE PROTEOME PROFILE FOR THE CHARACTERIZATION OF BLADDER CANCER

R. Ferreira, P. Oliveira, T. Martins, S. Magalhães, F. Trindade, M.J. Pires, B. Colaço, A. Barros, F. Amado, R. Vitorino (*Aveiro, Porto, Portugal*)

COMPARISON OF URINE FRACTIONATION STRATEGIES FOR ENRICHMENT OF LOW-ABUNDANCE PROTEINS IN NEPHROTIC PATIENTS

S. Filip, I. Zoidakis, A. Latosinska, W. Mullen, H. Mischak, A. Vlahou (*Athens, Greece. Glasgow, UK. Hannover, Germany*)

PROTEOMIC ANALYSIS OF KIDNEY IN DICER CONDITIONAL KNOCKOUT MOUSE

C.V. Fiumara, A. Iervolino, D. Scumaci, A. Concolino, L. Tammè, G. Pappaianni, F. Petrillo, G. Capasso, G. Cuda (*Catanzaro, Ariano Irpino, Naples, Italy*)

QUANTITATIVE PROTEOME ANALYSIS OF NEURONAL AND GLIA CELL NUCLEI RECOVERED FROM POST MORTEM HUMAN BRAIN TISSUE

T. Fröhlich, J. Vlcek, M. Kösters, H.A. Kretzschmar, T.F.J. Kraus, G.J. Arnold (*Munich, Germany*)

FUNCTIONAL PROTEOMIC INVESTIGATION OF AN *ESCHERICHIA COLI* K-12 MUTANT EXPRESSING A GASP PHENOTYPE

A. Gagliardi, E. Lamboglia, L. Bianchi, A. Armini, L. Bini, L. Marri (*Siena, Italy*)

ABERRANT CYTOSKELETON ORGANIZATION IN BONE AND SKIN FROM BrtlIV, A MURINE MODEL OF OSTEOGENESIS IMPERFECTA

A. Gagliardi, S. Maruelli, R. Gioia, C. Landi, A. Armini, J.C. Marini, A. Forlino, L. Bini, L. Bianchi (*Siena, Pavia, Italy. Bethesda, MD, USA*)

APPLICATION OF A NOVEL INTEGRATED MICROFLUIDICS DEVICE FOR HIGH-THROUGHPUT LC-MS MRM DISEASE PROTEIN MARKER VERIFICATION

L.A. Gethings, C. Hughes, J.P.C. Vissers, F. Lanucara, J. I Langridge (*Manchester, UK*)

ANALYSIS OF LABELED AND NON LABELED DIA AND DDA PROTEOMIC DATA USING ‘PROGENESIS QI FOR PROTEOMICS’

L. Gethings, J. Vissers, R. Tonge, J. Langridge, T. McKenna, J. Pope (*Wilmslow, Newcastle upon Tyne, UK*)

BART BMA: BAYESIAN ADDITIVE REGRESSION TREES USING BAYESIAN MODEL AVERAGING FOR DISCOVERY OF PROTEIN BIOMARKERS

B. Hernández, A. Raftery, S.R. Pennington, A. Parnell (*Dublin, Ireland. Washington, USA*)

PROTEIN MARKERS FOR THE SALTING AND RIPENING PROCESS IN HERRING PRODUCTION

F. Jessen, T. Skåra, H.H. Nielsen, B.T. Rotabakk (*Lyngby, Denmark. Stavanger, Norway*)

HIGH QUANTIFICATION EFFICIENCY IN PLASMA TARGETED PROTEOMICS WITH A FULL-CAPABILITY DISCOVERY Q-TOF PLATFORM

S. Kaspar, P.-O. Schmit, C. Baessmann (*Bremen, Germany. Wissembourg, France*)

USING MALDI-IMAGING MASS SPECTROMETRY TO MONITOR REGENERATION PROCESSES AFTER CELL-BASED THERAPY IN INJURED SKELETAL MUSCLE

O. Klein, H. Thiele, K. Strohschein, G. Neblich, D. Trede, G.N. Duda, J. Klose, T. Winkler, S. Geissler (*Berlin, Bremen, Lübeck, Germany*)

PROTEOMICS TOWARD PERSONALIZED TREATMENT OF SARCOMA

T. Kondo, A. Kawai (*Tokyo, Japan*)

A DATA INDEPENDENT STRATEGY FOR A MULTI-OMIC APPROACH TO INVESTIGATE OBESITY TREATMENT WITHIN A MOUSE MODEL

G. Kramer, N. Dekker, L.A. Gethings, J.P. Shockcor, V. Lee, R.J. Beynon, J.I. Langridge, T. McKenna, J.P.C. Vissers, J.M.F.G. Aerts (*Amsterdam, the Netherlands. Manchester, Liverpool, UK*)

PROTEOMIC CHARACTERIZATION OF *ESCHERICHIA COLI*

V. Kucharova, H. Wiker (*Bergen, Norway*)

KRABBE DISEASE INVESTIGATED BY A FUNCTIONAL PROTEOMIC APPROACH IN A MOUSE MODEL

C. Landi, L. Bianchi, A. Gagliardi, A. Luddi, P. Piomboni, L. Bini (*Siena, Italy*)

PROTEOMIC INVESTIGATION OF PULMONARY SARCOIDOSIS

C. Landi, A. Carleo, L. Bianchi, A. Gagliardi, E. Bargagli, P. Rottoli, L. Bini (*Siena, Italy*)

COMPARISON OF LABEL-FREE VS. ITRAQ APPROACH FOR QUANTITATIVE PROTEOMIC ANALYSIS

A. Latosinska, K. Vougas, M. Makridakis, W. Mullen, V. Jankowski, H. Mischak, A. Vlahou (*Athens, Greece. Glasgow, Glasgow, UK. Berlin, Hannover, Germany*)

UNDERSTANDING CELLULAR NETWORK CHANGES IN FGFR3-TACC EXPRESSING CELLS THROUGH A QUANTITATIVE PHOSPHOPROTEOMIC APPROACH

B. Lombardi, M Katan, J Godovac Zimmermann (*London, UK*)

DOWNSCALING TISSUE PROTEOMICS, TOWARD PRECIOUS FFPE TISSUE SAMPLES PREPARATION

R. Longuespée, C. Pottier, N.Smargiasso, G. Mazzuchelli, D.Baiwir, M-A. Meuwis, F.Quesada Calvo, P.Delvenne, E. De Pauw (*Liège, Belgium*)

A NOVEL CSF 16PLEX NEURODEGENERATION ASSAY

C. Löbner, H. Zetterberg, J. Gobom, K. Blennow, I. Pike, M. Ward (*London, UK. Gothenburg, Sweden*)

CHROMATOGRAPHIC PEAK CAPACITY SIMILARLY INCREASES THE NUMBER OF IDENTIFICATIONS IN DATA DEPENDENT AND DATA INDEPENDENT ACQUISITION

S.M. Miladinović, P. Boersema, O.M. Bernhardt, T. Gandhi, R. Bruderer, P. Picotti, L. Reiter (*Zurich, Switzerland*)

QUANTITATIVE COMPARISON OF THE PROTEOME AND PTM-OME OF PLATELET DERIVED MICROPARTICLES USING DIFFERENT AGONIST STIMULATIONS

M. Milioli, M. Ibáñez-Vea, M. Careri, M.R. Larsen (*Parma, Italy. Odense, Denmark*)

OLD ACQUAINTANCES RE-VIEWED: HAVING A CLOSER LOOK AT PORCINE ACUTE PHASE PROTEINS

I. Miller, A. Marco-Ramell, K. Nöbauer, K. Hummel, U. Möginger, J. Segalés, E. Razzazi-Fazeli, D. Kolarich, A. Bassols (*Vienna, Austria. Barcelona, Cerdanyola del Vallès, Spain. Potsdam, Germany*)

A STUDY OF THE PROTEOMIC RESPONSE OF BAT (*PTEROPUS ALECTO*) KIDNEY CELLS TO A VIRAL MIMIC USING ITRAQ AND DIGE

L. Mok, J. Wynne, K. Ford, B. Shiell, A. Bacic, W.P. Michalski (*Geelong, Melbourne, Victoria; Australia*)

FROM TRANSCRIPTOME TO PROTEOME: INTEGRATED OMICS ANALYSIS IN THE AUDITORY BRAINSTEM

C.P. Moritz, T. Schulenburg, S. Tenzer, J. Hauth, P. Lang, E. Friauf (*Kaiserslautern, Mainz, Germany*)

SILAC BASED PROTEOMICS USING A PROTEIN DATABASE BEING REFINED BY PROTEOGENOMICS REVEALS DISTINCT DIFFERENCES OF PROTEIN EXPRESSION BETWEEN SPIRAL AND COCCOID *HELICOBACTER PYLORI*

S.A. Müller, S. Pernitzsch, S. Findeiß, P.F. Stadler, C. Sharma, M. von Bergen, S. Kalkhof (*Leipzig, Würzburg, Germany. Wien, Austria. Aalborg, Denmark*)

FEATURE FINDER MULTIPLEX - A TOOL FOR DIFFERENTIAL QUANTITATION OF PROTEOMIC MULTIPLEX DATA

L. Nilse, O. Schilling (*Freiburg, Germany*)

QUANTITATIVE MS-BASED ANALYSIS OF HISTONE MODIFICATION PATTERNS AS MARKERS FOR RESPONSE TO HDAC INHIBITORS IN BREAST CANCER

R. Noberini, C. Miccolo, S. Chiocca, G. Pruneri, S. Minucci, T. Bonaldi (*Milan, Italy*)

ASAPPP- A Scalable Automated Plasma Proteomic Pipeline: DEVELOPMENT AND VALIDATION FOR LARGE CLINICAL STUDIES

A. Núñez Galindo, J. Corthésy, O. Cominetti, A. Valsesia, J. Hager, M. Kussmann, L. Dayon (*Lausanne, Switzerland*)

IDENTIFICATION OF NOVEL OVARIAN CANCER BIOMARKERS BY PROFILING THE AUTOANTIBODY REPERTOIRE

S.L. O'Kane, M.A. Murphy, J.K. O'Brien, S O' Toole, S.R. Pennington, J.J. O'Leary, D.J. Cahill (*Dublin, Ireland*)

THE ROLE OF PATHWAY ANALYSIS IN BIOMARKER SELECTION FOR OVARIAN CANCER

S.L. O'Kane, M.A. Murphy, F. O'Hannigan, S O' Toole, S.R. Pennington, J.J. O'Leary, D.J. Cahill (*Dublin, Ireland*)

TARGETED PROTEOMICS EXPERIMENTS TO VALIDATE SO FAR "MISSING" HUMAN PROTEINS

A. Opsomer, M. Benama, L. Garrigues, S. Lennon, E. Mouton-Barbosa, A. Van Dorsselaer, L. Lane, A. Bairoch, J. Garin, Y. Vandenbrouck, C. Carapito (*Strasbourg, Grenoble, Toulouse, France. Geneva, Switzerland*)

LABEL-FREE TANDEM MASS SPECTROMETRY FOR RED BLOOD CELL PROTEIN DEGRADATION AND AGING IN BLOOD STORAGE BAGS

H. Pak, P. Lescuyer, S. Waldvogel-Abramowsky, M. Muller, A. Scherl (*Geneva, Switzerland*)

PROTEOMIC ANALYSIS OF HEAT STRESS ON TOBACCO POLLEN TUBES

L. Parrotta, M. Cresti, G. Cai (*Siena, Italy*)

DEVELOPMENT AND OPTIMIZATION OF A PLASMA DISCOVERY WORKFLOW BASED ON ULTRANARROW PEPTIDE ISOELECTRIC FOCUSING

M. Pernemalm, A. Sandberg, D. Tamburro, J. Lehtiö, (*Solna, Sweden*)

ELUCIDATING THE ROLE OF CASEIN KINASE 1 DELTA/EPSILON INHIBITORS IN MODULATING TAU PHOSPHORYLATION AND CELL SIGNALLING PATHWAYS USING GLOBAL PHOSPHOPROTEOMICS IN A TRANSGENIC TAUOPATHY MODEL OF ALZHEIMER'S DISEASE

I. Pike, E. Lahert, C. Russell, V. Mitra, M. Ward (*London, UK*)

TARGETED PROTEOMICS VIA AUTOMATED, HIGH PRECISION TRYPTIC DIGESTION AND SISCAPA-MS QUANTIFICATION OF HUMAN PLASMA PROTEINS USING THE AGILENT BRAVO PLATFORM

M. Razavi, N.L. Anderson, S.S. Larkin, T.W. Pearson (*Washington DC, USA. Victoria, BC, Canada*)

QUANTITATION OF SOLUBLE TRANSFERRIN RECEPTOR (sTFR) IN HUMAN SERUM USING SISCAPA IMMUNOCAPTURE ENRICHMENT AND MALDI-TOF MASS SPECTROMETRY

M. Razavi, S. Larkin, M. Pope, L. Anderson, O. Drews, R. Paape, W. Evers, D. Suckau (*Washington, DC; Billerica, MA, USA*)

TANDEM MASS TAG HYDRAZIDE - A NEW DERIVATIVE FOR OXOSTEROID ANALYSIS

K. Rigdova, Y. Wang, M.A. Ward, I.H. Pike, W.J. Griffiths (*Swansea, London, UK*)

METHODS AND OPEN SOURCE SOFTWARE TO DETECT DIFFERENTIALLY EXPRESSED PROTEINS IN HUMAN DISEASE

I. Ruczinski, K. Kammers (*Baltimore, MD, USA*)

A GLOBAL PHOSPHOPROTEOMIC WORKFLOW SUITABLE FOR ANALYSIS OF FRESH/FROZEN BRAIN TISSUE IN TRANSGENIC MODELS OF NEURODEGENERATION

C. Russell, V. Mitra, D. Britton, E. Lahert, M. Ward, I. Pike (*London, UK*)

DEEP SEQUENCING USING AN ULTRA HIGH RESOLUTION COLUMN AND MASS SPECTROMETER FOR ISOMER SEPARATION AND STRUCTURAL IDENTIFICATION OF GLYCANS

J. Saba, U. Aich, R. Viner, X. Liu, S. Rao, J. Rohrer, A. Huhmer, C. Pohl (*San Jose, Sunnyvale, CA, USA*)

IN-DEPTH ANALYSIS OF THE HUMAN VITREOUS PROTEOME USING A RESIN DEPLETION-BASED METHOD: APPLICATION TO THE DISCOVERY OF NEW BIOMARKERS FOR PROLIFERATIVE DIABETIC RETINOPATHY

C. Salvisberg, J.-A. C. Pourmaras, A. Hainard, C. Fouda, Th.J. Wolfensberger, N. Turck (*Geneva, Lausanne, Switzerland*)

TIME-COURSE PROTEOME ANALYSIS OF HUMAN *IN VITRO* DERIVED DENDRITIC CELLS AFTER TOLL-LIKE RECEPTOR 3 (TLR3) STIMULATION

A. Sandberg, J. Lehtiö, A-L. Spetz (*Stockholm, Sweden*)

LARGE-SCALE LABEL-FREE MASS SPECTROMETRY: ASSESSING THE POWER AND LIMITATIONS OF CURRENT PLATFORMS

M. Sandin, A. Chawade, F. Levander (Lund, Sweden)

SACCHAROMYCES CEREVISIAE INDUCES DEATH OF NON-SACCHAROMYCES SPECIES BY A CELL-CELL CONTACT: A PROTEOMIC ANALYSIS

L. Santos, P. Branco, V. Kemsawasd, D. Francisco, N. Arneborg, F.J. Caldeira, M. G. Almeida, H. Albergaria (Lisboa, Caparica, Portugal. Frederiksberg, Denmark)

MANAGING ION COALESCENCE OF NEUTRON ENCODED TMT 10-PLEX REPORTER IONS AND APPLICATION OF THE MULTIPLEXING TECHNIQUE TO DRUG DISCOVERY

M.M. Savitski, F. Reinhard, H. Franken, T. Werner, M. Fálth Savitski, M. Bantscheff, G. Drewes (Heidelberg, Germany)

A COMPREHENSIVE PROTEOMICS CHARACTERIZATION OF BLOOD PLATELET TUBULINS TO DEFINE ITS α - AND β -TUBULIN ISOTYPE REPERTOIRE

C. Schaeffer-Reiss, A. Hovasse, J.M. Strub, D. Thiersé, A. Van Dorsselaer, C. Strassel, V. Wurtz, C. Janke, F. Lanza (Strasbourg, Orsay, France)

MALIGNANT ASCITES AS A SOURCE OF POTENTIAL BIOMARKERS FOR PERITONEAL CARCINOMATOSIS OF PANCREATIC ORIGIN

V. Severino, T. Fabre, M. Eveque-Mourroux, D.F. Hochstrasser, A. Lemmers, J.M. Dumonceau, J.L. Frossard, A. Farina (Geneva, Switzerland. Brussels, Belgium. Buenos Aires, Argentina)

QUANTITATIVE PROTEOMIC ANALYSIS OF CELL SIGNALING EVENTS IN THE OVIDUCT SHORTLY AFTER INSEMINATION

B. Steinberger, K. Artemenko, J. Bergquist, U. Reichart, E. Razzazi-Fazeli, G. Brem, C. Mayrhofer (Tulln, Vienna, Austria. Uppsala, Sweden)

TOWARDS GENERAL AND ROBUST FILTERING OF AFFINITY PURIFICATION-MASS SPECTROMETRY DATA WITH APPLICATION TO REWIRED INTERACTOME MAPPING

A. Stukalov, J. Li, K.L. Bennett, G. Superti-Furga, E. Haura, J. Colinge (Vienna, Austria. Tampa, FL, USA)

SP140 IN CHRONIC LYMPHOCYTIC LEUKEMIA: A POORLY CHARACTERIZED SP100 FAMILY MEMBER

S. Tamburri, C. Zucchelli, G. Musco, A. Bachi (Milan, Italy)

PROTEOME FINE-TUNING IN THE BLACK YEAST HUMAN PATHOGEN *EXOPHIALA DERMATITIDIS*

D. Tesei, G. Marzban, M. Marchetti-Deschmann, K. Sterflinger (Vienna, Austria)

EXTENDING HISTOLOGY: VIRTUAL DOUBLE STAINING USING HIGH RESOLUTION ELASTIC IMAGE REGISTRATION

H. Thiele, J. Lotz, J. Berger, J. Olesch, B. Müller, K. Breuhahn, A. Warth, N. Grabe, B. Lahrman, O. Sedlaczek, S. Heldmann (Lübeck, Heidelberg, Germany)

INCREASED ACUTE IMMUNE RESPONSE DURING THE MENINGO-ENCEPHALITIC STAGE OF *TRYPANOSOMA BRUCEI RHODESIENSE* SLEEPING SICKNESS COMPARED TO *TRYPANOSOMA BRUCEI GAMBIENSE*

N. Tiberti, V. Lejon, M.D. Ngoyi, E. Matovu, J. Enyaru, N. Walter, C. Fouda, P. Lutumba, K. Kristensson, S. Bisser, J.M. Ndung'u, P. Büscher, J.-C. Sanchez on behalf of the FINDTRYP consortium (Geneva, Switzerland)

NEOPTERIN FOR STAGE DETERMINATION AND TREATMENT OUTCOME EVALUATION IN PATIENTS AFFECTED BY *T. B. GAMBIENSE* HUMAN AFRICAN TRYPANOSOMIASIS

N. Tiberti, V. Lejon, A. Hainard, B. Courtioux, E. Matovu, J.C. Enyaru, X. Robin, N. Turck, K. Kristensson, D.M. Ngoyi, S. Krishna, S. Bisser, J.M. Ndung'u, P. Büscher, J.-C. Sanchez (Geneva, Switzerland)

PHOSPHOCHOLINE (PC)-CONTAINING ANTIGENS FROM THE PARASITE *ASCARIS SUUM* AS POTENTIAL LIGANDS OF CHOLINERGIC RECEPTORS

T. Timm, J. Grabitzki, L. Ewald, Y. Yilmaz, G. Lochnit (Giessen, Germany)

DISCOVERY AND LONGITUDINAL MEASUREMENT OF CANDIDATE BIOMARKERS OF BIOCHEMICAL RECURRENCE IN PROSTATE CANCER PATIENTS TREATED WITH CHRT

C. Tonry, D. Doherty, C. O'Shea, B. Morrissey, L. Staunton, B. Flatley, A. Shannon, J. Armstrong, S.R. Pennington (Dublin, Ireland)

LIPID VISUALIZATION AND IDENTIFICATION THROUGH COLLISION CROSS SECTION AIDED CORRELATION OF MALDI IMAGING AND MS/MS FRAGMENTATION DATA SETS

M. Towers, E. Claude, J. Vissers, T. McKenna (Manchester, UK)

RECONSTRUCTION OF 3D MULTIMODAL IMAGED TUMOR SAMPLE – NEW INSIGHTS INTO HISTOLOGY

F. v. Eggeling, J. Berger, F. Hoffmann, St. Heldmann, D. Trede, J. Oetjen, M. Becker, G. Ernst, O. Guntinas-Lichius, T. Alexandrov, H. Thiele (Lübeck, Bremen, Jena, Germany)

MAPPING THE MAMMALIAN NEURODEGENERATIVE DISEASE-ASSOCIATED PROTEIN-PROTEIN INTERACTOME

J. Vlasblom, K. Jin, N. Chang, V. Sidhu, R. Habashy, S. Phanse, Z. Zhang, M. Babu (Regina, SK; Toronto, ON; Canada)

TUBULIN BETA-3: A NOVEL TISSUE DIAGNOSTIC MARKER FOR INTRAHEPATIC PERIPHERAL CHOLANGIOCARCINOMA IDENTIFIED BY LC-MS/MS PROTEOMICS AND VALIDATED BY IHC
Y. Zen, D. Britton, V. Mitra, S. Jung, C. Loessner, M. Ward, I. Pike, D. Sarker, N. Heaton, A. Quaglia (*London, UK*)

DEFINITION OF SETS OF PROTEINS TO CLASSIFY SPECIFIC NEURAL SUBPOPULATIONS UPON ENTRY DIFFERENTIATION OF NEURAL STEM CELLS USING QUANTITATIVE MASS SPECTROMETRY
M. Zizkova, R. Hrabakova, J. Tyleckova, E. Kotrcova, S.J. Gadher, M. Marsala, H. Kovarova
(*Libechov, Czech Republic. Frederick, MD; San Diego, CA; USA*)