



8th SIENA MEETING

**FROM GENOME TO PROTEOME:
INTEGRATION AND PROTEOME COMPLETION**

Aug. 31st- Sept 4th, 2008, Siena, Italy
Auditorium Giurisprudenza e Scienze Politiche, Via Mattioli 10, Siena

Organizers

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

L. Bini and V. Pallini, University of Siena, Italy.

Conference information and correspondence

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The meeting is also sponsored by

**Bio Rad
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PROGRAM OVERVIEW

SUNDAY AUGUST 31

10.00 – 16.00 EuPA General Council
16.00 – 19.00 Registration

19.30 **Welcome Party**

MONDAY SEPTEMBER 1

08.00 – 09.15 Registration, Opening Remarks and Welcome Address

PLENARY SESSION 1: Virtual Proteome Completion

09.15 – 10.00 **OPENING MAIN LECTURE:** A. BAIROCH
10.00 – 10.30 **PLENARY Lecture 1** – J.M. CLAVERIE

10.30 – 12.30 **POSTER SESSION 1**

12.30 – 14.30 **Lunch**

14.30 – 16.30 **PARALLEL SESSIONS A and T:** ONCOLOGY FROM HEAD TO TOES, TO TAG OR NOT TO TAG
16.50 – 18.30 **PARALLEL SESSIONS A and T:** MODEL SYSTEMS, FROM CELLULAR PROTEOMICS TO BIOLOGY

TUESDAY SEPTEMBER 2

PLENARY SESSION 2: Genetics and Evolution

09.00 – 09.45 **NOBEL Lecture:** W. ARBER
09.45 – 10.45 **PLENARY Lectures 2 and 3** – S. ANTONORAKIS, J. KLOSE

10.45 – 12.30 **POSTER SESSION 2**

12.30 – 14.30 **Lunch**

14.30 – 16.30 **PARALLEL SESSIONS A and T:** PATHOGENES, SUGARS AND PHOSPHATES.
16.50 – 18.30 **PARALLEL SESSIONS A and T:** VALIDATION OF BIOMARKERS, FROM PEPTIDE TO PROTEIN ARRAYS.

18.45 **Wine and cheese tasting**

WEDNESDAY SEPTEMBER 3

PLENARY SESSION 3: Quantitative and Functional Proteomics

09.00 – 10.30 **PLENARY Lectures 4, 5, 6** – S.H. KIM, L. ANDERSON, S. PATTERSON

10.30 – 12.30 **POSTER SESSION 3**

12.30 – 14.30 **Lunch**

14.30 – 15.50 **PARALLEL SESSIONS A and T:** CHEMO-INTERFERENCE IN PATHWAYS, DATA INTEGRATION AND CLASSIFICATION.

16.15 – 17.15 **PARALLEL SESSIONS A and T:** BRAIN, PUSHING THE LIMITS

17.15 – 17.45 **PLENARY Lectures 7** – J.-J. DIAZ

17.45 – 18.30 **CLOSING MAIN LECTURE:** M. MANN
18.30 – 18.45 Concluding Remarks

20:00 **Social Dinner**

THURSDAY SEPTEMBER 4

09.00 – 10.00 **CAPPUCCINO E CORNETTO** before the departure

SUNDAY AUGUST 31

- 10.00 – 16.00 EuPA General Council (*Main Auditorium, Via Mattioli, 10*)
- 16.00 – 19.00 Registration (*Main Auditorium, Via Mattioli, 10*)
- 19.30 Welcome Party (*below the tower of Piazza del Campo*)

MONDAY SEPTEMBER 1

- 8.00 – 9.00 Registration
- 9.00 – 9.05 **OPENING REMARKS**
D.F. Hochstrasser, J.-C. Sanchez, L. Bini, V. Pallini
- 9.05 – 9.15 **WELCOME ADDRESS**
D. Donati (Dean of the Faculty of Science,)
S. Oliviero (President of the Department of Molecular Biology, University of Siena)

PLENARY SESSION 1 **VIRTUAL PROTEOME COMPLETION** Chairperson: J.-C. SANCHEZ

OPENING MAIN LECTURE

- 9.15 – 10.00 **A COMPLETE SET OF ANNOTATED HUMAN PROTEINS IN UNIPROT/SWISS-PROT**
A. Bairoch (*Geneva, Switzerland*)

PLENARY Lecture 1

- 10.00 – 10.30 **MIMIVIRUS: ENDLESS SURPRISES**
C. Abergel, J.-M. Claverie (*Marseille, France*)

- 10.30 – 11.00 **COFFEE BREAK**

- 11.00 – 12.30 **POSTER SESSION 1**

- 12.30 – 14.30 **LUNCH** (sponsored by **Bio Rad**)

PARALLEL SESSION A

ONCOLOGY FROM HEAD TO TOES Chairperson: P. Lescuyer

- 14.30 – 14.50 **ANALYSIS OF BTSC OBTAINED FROM NEWLY DIAGNOSED AND RECURRENT GLIOBLASTOMA BY DIFFERENTIAL PROTEOMICS**
R. Raggiaschi, E. Mori, C. Giordano, L. Magnoni, S. Gotta, P. Tunici, S. Pellegatta², A. Kreme, G. Finocchiaro, G. Gaviraghi, A. Bakker (*Siena, Italy*)

- 14.50 – 15.10 **ANALYSIS OF SECRETED PROTEINS BY NON SMALL CELLS LUNG CANCER CELL LINE: A DIFFERENTIAL ANALYSIS ACCORDING TO P53 STATE USING ISOBARIC TAGS FOR RELATIVE AND ABSOLUTE QUANTITATION (ITRAQ)**
J. Chenu, S. Michelland, J.-L. Coll, M.-C. Favrot, M. Seve (*La Tronche, France*)
- 15.10 – 15.30 **QUANTITATIVE SUBCELLULAR ORGANELLE PROTEOMICS OF DYSFUNCTIONAL PROTEIN TRAFFICKING IN ESTROGEN-RESPONSIVE BREAST CANCER**
 C. Mulvey, A. Qattan, M. Crawford, J. Godovac-Zimmermann (*London, U.K.*)
- 15.30 – 15.50 **PROTEOMIC ANALYSIS OF BILE FROM PATIENTS WITH MALIGNANT BILIARY STENOSIS INDUCED BY PANCREATIC CANCER**
A. Farina, J.-M. Dumonceau, J.-L. Frossard, A. Hadengue, D.F. Hochstrasser, P. Lescuyer (*Geneva, Switzerland*)
- 15.50 – 16.10 **CHARACTERISATION OF CANDIDATE BIOMARKERS IN METASTATIC CLEAR CELL RENAL CELL CARCINOMA LESIONS USING DIFFERENT APPROACHES**
 R. Lichtenfels, E. Wang, S.P. Dressler, M. Zobawa, A. Ackermann, M. Baumgaerter, D. Atkins, M. Kersten, A. Hesse, M. Puttkammer, F.M. Marincola, F. Lottspeich, B. Seliger (*Halle/Saale, Martinsried, Wupperta, Germany. Bethesda, WA, USA*)
- 16.10 – 16.30 **QUANTITATIVE SILAC ANALYSIS OF DIFFERENTIAL PROTEIN EXPRESSION ASSOCIATED TO TUMOR METASTASIS IN THE CELL SURFACE OF COLORECTAL CANCER CELLS**
 J.L. Luque-Garcia, C. Epifano, I. Casal (*Madrid, Spain*)
- 16.30 – 16.50 **COFFEE BREAK**

PARALLEL SESSION A

MODEL SYSTEMS

Chairperson: J.Klose

- 16.50 – 17.10 **GENOME-SCALE PROTEOMICS REVEALS NEW *ARABIDOPSIS THALIANA* GENE MODELS AND PROTEOME DYNAMICS**
K. Baerenfaller, J. Grossmann, M.A. Grobei, R. Hull, M. Hirsch-Hoffmann, S. Yalovsky, P. Zimmermann, U. Grossniklaus, W. Gruissem, S. Baginsky (*Zurich, Switzerland. Manchester, UK. Tel Aviv, Israel*)
- 17.10 – 17.30 **COMBINATION OF NATIVE ELECTROPHORESIS AND MASS SPECTROMETRY REVEALS COMPLEX LOCALISATION OF ALL THIRTEEN ONE-HELIX MEMBRANE PROTEINS FROM PHOTOSYSTEM II**
 B. Granvogel, M. Plöschner, M. Zoryan, L.A. Eichacker (*Munich, Germany*)
- 17.30 – 17.50 **RETINAL GANGLION CELL LOSS AND CHANGES IN ANTIBODY PROFILES IN A HEAT SHOCK PROTEIN 60 IMMUNIZATION GLAUCOMA ANIMAL MODEL**
S.C. Joachim, D. Kraft, M.B. Wax, N. Pfeiffer, F.H. Grus (*Mainz, Germany. Fort Worth, Texas, USA*)
- 17.50 – 18.10 **A FUNCTIONAL GENOMICS VIEW OF DILATED CARDIOMYOPATHY – ANALYSIS OF HUMAN HEART BIOPSIES AND A MURINE ANIMAL MODEL**
 S. Ciecholewski, K. Darm, T.Q. Phong, A. Staudt, E. Hammer, L. Steil, C. Trimpert, R. Kandolf, K. Klingel, H.K. Kroemer, S.B. Felix, U. Völker (*Greifswald, Tübingen, Germany*)
- 18.10 – 18.30 **MUSCLE ATROPHY IN HUMANS AND ANIMAL MODELS: A PROTEOME ANALYSIS**
C. Gelfi, D. Capitanio, M. Moriggi, M. Vasso, A. Vigano (*Segrate, Milan, Italy*)

PARALLEL SESSION T

TO TAG OR NOT TO TAG

Chairperson: T. Rabilloud

- 14.30 – 14.50 **TMT CALIBRATOR: THE UTILITY OF TANDEM MASS TAGS TO GENERATE QUANTITATIVE MASS SPECTROMETRIC ASSAYS WITH MULTI-POINT CALIBRATION CURVES**
M. Ward, I. Pike, K. Kuhn, S. Kienle, C. Baumann, E. Schofield, H. Byers, J. Schwarz, P. Schulz-Knappe (*Cobham, UK. Frankfurt am Main, Germany*)
- 14.50 – 15.10 **CLOSE CORRELATIONS BETWEEN TRANSCRIPTS AND PROTEOME EXPRESSION OF GENE-PROTEIN PAIRS ACROSS HEART- AND SKELETAL MUSCLE**
E. Bendixen, H. Hornshøj, L.N. Conley, P.K. Andersen, J. Hedegaard, F. Panitz, C. Bendixen (*Tjele, Denmark*)
- 15.10 – 15.30 **NOVEL SILAC STRATEGIES FOR UNCONVENTIONAL APPLICATIONS: PROTEIN SECRETION AND PROTEIN SYNTHESIS RATES**
M. Colzani, P. Waridel, A. Callè, A. Potts, E. Faes, A. Greco, J. Laurent, M. Quadroni (*Lausanne, Switzerland. Lyon, France*)
- 15.30 – 15.50 **COUPLING TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY WITH ESI MS FOR LABEL-FREE ABSOLUTE PROTEIN QUANTIFICATION**
J. Langridge, H. Vissers, S. Geromanos, M. Stapels, C. Dorschel, H. Aerts (*Manchester, UK. Amsterdam, The Nederland. Milford, MA, USA*)
- 15.50 – 16.10 **A PSAQ STRATEGY FOR ACCURATE AND SENSITIVE QUANTIFICATION OF BIOMARKERS IN BIOLOGICAL FLUIDS AND FOOD**
A. Dupuis, M. Jaquinod, J.-A. Hennekinne, A. Adrait, D. Lebert, J. Garin, V. Brun (*Grenoble, Maisons Alfort, France*)
- 16.10 – 16.30 **EVALUATION OF A DATA REPOSITORY-DRIVEN APPROACH TO THE DESIGN OF MULTIPLE REACTION MONITORING EXPERIMENTS**
B.W. Sutherland, G.M. Walsh, S. Lin, R.C. Beavis, J. Kast (*Vancouver, Canada*)
- 16.30 – 16.50 **COFFEE BREAK**

PARALLEL SESSION T

FROM CELLULAR PROTEOMICS TO BIOLOGY

Chairperson: J.-J. Diaz

- 16.50 – 17.10 **GENETIC ANALYSIS OF POPULATION VARIABILITY IN PROTEIN EXPRESSION LEVELS IN LYMPHOBLASTOID CELL LINES**
M.K. Bunger, M.D. Rowland, P. Levy, H. Pan, P. Cooley (*Durham, NC, USA*)
- 17.10 – 17.30 **IN-DEPTH ANALYSIS OF SILAC TO STUDY GLUCOTOXICITY IN β -CELLS**
Y. Couté, D. Schvartz, Y. Brunner, C. Hernandez, A. Masselot, F. Lisacek, C. Wollheim, J.-C. Sanchez (*Geneva, Switzerland*)
- 17.30 – 17.50 **A SYSTEM-BIOLOGY APPROACH COMBINING QUANTITATIVE PROTEOMICS AND TRANSCRIPTOMICS TO STUDY A STEADY-STATE AND PERTURBED SYSTEM**
T. Bonaldi, T. Straub, J. Cox, C. Kumar, P.B. Becker, M. Mann (*Martinsried, Munich, Germany. Milan, Italy*)
- 17.50 – 18.10 **IDENTIFICATION OF AN OSTEOCLAST LYSOSOMAL PROTEOME BY MASS-SPECTROMETRY**
H. Zhao, R.D. LeDuc, Y. Ito, J. Chappel, R. Townsend, S.L. Teitelbaum, F.P. Ross (*St. Louis, MO, USA*)
- 18.10 – 18.30 **A NOVEL AFFINITY-BASED PURIFICATION STRATEGY OF HUMAN PROTEASOME COMPLEXES REVEALS NEW PROTEASOME INTERACTING PROTEINS**
M.-P. Bousquet-Dubouch, E. Baudalet, F. Guérin, M. Matondo, S. Uttenweiler-Joseph, O. Burlet-Schiltz, B. Monsarrat (*Toulouse, France*)

TUESDAY SEPTEMBER 2

PLENARY SESSION 2 *GENETICS AND EVOLUTION*

Chairperson: D.F. HOCHSTRASSER

NOBEL LECTURE

09.00 – 09.45 **GENETICALLY ENCODED GENERATORS OF GENETIC VARIANTS**
W. Arber (Basel, Switzerland)

PLENARY Lectures 2 and 3

09.45 – 10.15 **TITLE TO BE ANNOUNCED**
S. Antonarakis (Geneva, Switzerland)

10.15 – 10.45 **BALANCE AND ELASTICITY IN THE CELLULAR PROTEOME: FACTORS ACTING IN DISEASE DEVELOPMENT**
L. Mao, D. Hartl, M. Diedrich, C. Zabel, J. Klose (Berlin, Germany)

10.45 – 11.15 **COFFEE BREAK**

11.00 – 12.30 **POSTER SESSION 2**

12.30 – 14.30 **LUNCH** (sponsored by **GeneBio S.A.**)

PARALLEL SESSION A

PATHOGENES
Chairperson: A. Scherl

14.30 – 14.50 **CHARACTERIZATION OF NEW BACTERIAL SURFACE PROTEIN COMPLEXES BY PROTEOMICS AND PROTEIN MICROARRAY TECHNOLOGIES**
G. Grandi (Siena, Italy)

14.50 – 15.10 **QUANTITATIVE PROTEOME ANALYSIS OF PATHOGENIC HOST-BACTERIAL INTERACTIONS USING DIGE/MS**
D.B. Friedman, A.T. Franco, D.L. Stauff, E.P. Skaar, R.M. Peek, Jr³, R.M. Caprioli (Nashville, TN, USA)

15.10 – 15.30 **THE *Candida* IMMUNOME: A MINE OF DIAGNOSTIC, PROGNOSTIC, PREDICTIVE AND MONITORING BIOMARKERS FOR INVASIVE CANDIDIASIS**
A. Pitarch, C. Nombela, C. Gil (Madrid, Spain)

15.30 – 15.50 **DATA MINING OF 2-DE/MS AND 1-DE-LC/MS *HELICOBACTER PYLORI* PROTEOME DATA: FATE OF MEMBRANE PROTEINS**
P.R. Jungblut, R. Stein, K.-P. Pleissner, T.F. Meyer (Berlin, Germany)

15.50 – 16.10 **INVESTIGATION OF IRON-LIMITATION INDUCIBLE PROTEINS OF *NEISSERIA MENINGITIDIS* USING THE ISOBARIC LABELLING APPROACH TANDEM MASS TAGS (TMT)**
T. Prinz, K. Kuhn, H. Legner, P. Schmid, C. Baumann, P. van Ulsen, J. Tommassen (Frankfurt, Germany. Utrecht, The Netherlands)

16.10 – 16.30 **INVESTIGATING THE LIMITS OF PROTEIN IDENTIFICATION FROM UNFRACTIONATED MIXTURES VIA DATA-INDEPENDENT LC-MS/MS**
A. Scherl, A. Panchaud, P. von Haller, S.A. Shaffer, D.R. Goodlett (*Seattle, WA, USA*)

16.30 – 16.50 **COFFEE BREAK**

PARALLEL SESSION A

VALIDATION OF BIOMARKERS

Chairperson: L. Anderson

16.50 – 17.10 **FROM PROTEOMICS TO DISEASE PROGNOSIS: IDENTIFICATION OF A MULTIPARAMETER PANEL FOR OUTCOME PREDICTION FOLLOWING ANEURYSMAL SUBARACHNOID HAEMORRHAGE**
N. Turck, L. Vutskits, P. Sanchez-Pena, X. Robin, A. Hainard, M. Gex-Fabry, C. Fouda, M. Mueller, L. Puybasset, J.-C. Sanchez (*Geneva, Chêne-Bourg, Switzerland. Paris, France*)

17.10 – 17.30 **COMPLEMENT C3A ANAPHYLATOXIN SERUM TEST COULD ALLOW NON-INVASIVE SCREENING FOR COLORECTAL TUMORS**
J.K. Habermann, U. Roblick, B. Luke, D. Prieto, W. Finlay, V. Podust, J. Roman, E. Oevermann, T. Schiedeck, N. Homann, T. Conrads, T. Veenstra, S. Burt, H.-P. Bruch, G. Auer, T Ried (*Bethesda, MD; Frederick, MD, Fremont, CA, USA. Lübeck, Germany. Dublin, Republic of Ireland. Stockholm, Sweden*)

17.30 – 17.50 **REFERENCE MATERIALS FROM HUMAN BODY FLUIDS: QUANTITATIVE WORKFLOWS FOR BIOMARKER DISCOVERY AND VALIDATION USING TANDEM MASS TAGS**
P. Schulz-Knappe, I. Pike, K. Kuhn (*Cobham, UK*)

17.50 – 18.10 **DEVELOPING MRM-BASED ASSAYS FOR THE VALIDATION OF POTENTIAL MARKER CANDIDATES FOR COLORECTAL CANCER**
J. Dojahn, B. Carvalho, J. Albrethsen, J.C. Knol, M. Glückmann, C. Lenz, V. Kruff, C.R. Jimenez, G.A. Meijer (*Darmstadt, Germany. Amsterdam, The Netherlands*)

18.10 – 18.30 **ROBUST AND ABSOLUTE QUANTITATION OF PSA IN CLINICAL HUMAN SERA USING PROTEIN REACTION MONITORING (PRM)**
T. Fortin, A. Salvador, J.P. Charrier, C. Lenz, X. Lacoux, G. Choquet-Kastylevsky, J. Lemoine (*Marcy l'Etoile, Villeurbanne, France. Darmstadt, Germany*)

18.45 **WINE AND CHEESE TASTING** (sponsored by **Proteome Sciences plc.**)

PARALLEL SESSION T

SUGARS AND PHOSPHATES

Chairperson: F. Lottspeich

14.30 – 14.50 **SOFTWARE PLATFORM FOR DISSECTION OF HUMAN GLYCOURINOME BY ION MOBILITY MASS SPECTROMETRY**
S.Y. Vakhruhev, D. Dadimov, J. Langridge, I. Campuzano, C. Hughes, J. Peter-Katalinić (*Muenster, Germany. Manchester, UK*)

14.50 – 15.10 **ELECTRON TRANSFER DISSOCIATION AND MULTI-STAGE ACTIVATION ANALYSIS OF HUMAN KINASE SITES OF PHOSPHORYLATION**
M.P. Hornshaw, K. Scheffler, M. Zeller, N. Morrice (*Hemel Hempstead, Dundee, UK. Dreieich, Bremen, Germany*)

15.10 – 15.30 **COMPARISON OF TOP-DOWN VERSUS NOVEL BOTTOM-UP APPROACHES FOR ENHANCED CHARACTERIZATION OF THERAPEUTIC ANTIBODY GLYCOSYLATION**
E. Wagner-Rousset, A. Bednarczyk, M.C. Bussat, O. Colas, N. Corvaia, C. Schaeffer, A. Van Dorsselaer, A. Beck (*Saint-Julien-en-Genevois, Strasbourg, France*)

- 15.30 – 15.50 **GLYCOPROTEOMIC INVESTIGATION OF HUMAN IgM CRYOGLOBULINS**
D. Kolarich, P.H. Jensen, V. Vallas, W. Farrugia, P.A. Ramsland, N.H. Packer
(Sydney, NSW, VIC, Australia)
- 15.50 – 16.10 **RELATIVE QUANTITATION OF O-GlcNAc GLYCOSYLATION BY ETD USING TMT ISOBARIC TAGS**
R. Viner, T. Zhang, T. Second, V. Zabrouskov *(San Jose, CA, USA)*
- 16.10 – 16.30 **NOVEL STRATEGIES ENABLING RAPID ANALYSIS OF POST-TRANSLATIONAL MODIFICATIONS**
B. Domon, C. Carapito, P. Picotti, N. Selevsek, R. Aebersold *(Zurich, Switzerland)*
- 16.30 – 16.50 **COFFEE BREAK**

PARALLEL SESSION T

FROM PEPTIDE TO PROTEIN ARRAY

Chairperson: D. Goodlett

- 16.50 – 17.10 **RAISING THE DEAD: ANALYZING EXTINCT PROTEOMES**
E Cappellini, D Ashford, C Baessmann, M Lubeck, E Bergström, J Thomas, M Collins,
J Thomas-Oates *(York, UK. Bremen, Germany)*
- 17.10 – 17.30 **THE AMPHIBIAN SKIN VENOM: A RICH SOURCE OF BIOACTIVE PEPTIDES, JUST WAITING TO BE IDENTIFIED: THE CHINESE ODOROUS FROG, *ODORRANA SCHMACKERI*, AS AN EXAMPLE**
P. Verhaert, G. Caprini, T. Chen, C.r Shaw, M. Pinkse *(Delft, the Netherlands. Belfast, UK)*
- 17.30 – 17.50 **QUANTITATIVE PROTEIN PROFILING BY LABEL-FREE 2D-LC-MS/MS FOR THE STUDY OF ENDOTHELIAL CELL BIOLOGY**
M. Heller, E. Schlappritzi, M. Stutz, A. Al Kaabi, A. Haeberli *(Bern, Switzerland)*
- 17.50 – 18.10 **PROTEIN MICROARRAYS AS TOOL FOR THE QUANTITATIVE ANALYSIS OF PROTEIN NETWORKS**
U. Korf, F. Henjes, A. Tresch, H. Mannsperger, C. Löbke, C. Schmidt, H. Sültnann, T. Beissbarth,
A. Poustka *(Heidelberg, Munich, Germany)*
- 18.10 – 18.30 **CHARACTERISATION OF THE AUTOIMMUNE ANTIBODY REPERTOIRE OF PARKINSON'S DISEASE PATIENTS BY SYSTEMATIC SCREENING OF PROTEIN ARRAYS**
H.E. Meyer, A. Kowald, A. Lueking, T. Florian, M. Gerlach, P. Riedere, K. Marcus, D. Woitalla,
H. Goehler *(Bochum, Dortmund, Wuerzburg, Germany)*

18.45 **WINE AND CHEESE TASTING** (sponsored by **Proteome Sciences plc.**)

WEDNESDAY SEPTEMBER 3

PLENARY SESSION 3 *QUANTITATIVE AND FUNCTIONAL PROTEOMICS* Chairperson: L. BINI

PLENARY Lecture 4, 5 and 6

- 09.00 – 09.30 **CLASSIFICATION AND EVOLUTION OF STRUCTURAL AND SEQUENCE PROTEOMES**
S.-H. Kim, S.-R. Jun, G.A. Wu, G.E. Sims (*Berkeley, CA, U.S.A*)
- 09.30 – 10.00 **TOOLS FOR ACCURATE MEASUREMENT OF CANDIDATE BIOMARKERS IN PLASMA: DEVELOPMENT OF MULTIPLEXED MS-BASED SISCAPA ASSAYS**
L. Anderson (*Washington, DC, USA*)
- 10.00 – 10.30 **TRANSLATION OF PHOSPHOPROTEOMIC DATA TO CLINICAL PHARMACODYNAMIC BIOMARKER ASSAYS**
S.D. Patterson (*Thousand Oaks, CA, USA*)
- 10.30 – 11.00 **COFFEE BREAK**

11.00 – 12.30 **POSTER SESSION 3**

- 12.30 – 14.30 **LUNCH (sponsored by Waters)**

PARALLEL SESSIONS A

CHEMO-INTERFERENCE IN PATHWAYS Chairperson: S. Patterson

- 14.30 – 14.50 **TARGET DECONVOLUTION IN THE POSTGENOMIC ERA**
G.C. Terstappen (*Siena, Italy*)
- 14.50 – 15.10 **A SYSTEMS BIOLOGY APPROACH TO ELUCIDATING MECHANISMS UNDERLYING SMOG-INDUCED AIRWAY INFLAMMATION**
Å.M. Wheelock, C.E. Wheelock, S. Okuda, S. Goto (*Sweden, Kyoto, Japan*)
- 15.10 – 15.30 **A PROTEOMICS APPROACH TO UNRAVEL THE MODE OF ACTION OF SILIBININ, A STRONG ANTICANCER FLAVONOID**
J. Mateo, P. García-Maceira, E. Camafeita, E. Calvo, J. A. López (*Madrid, Spain*)
- 15.30 – 15.50 **ANALYSIS OF MAPK SIGNALING BY PHOSPHOPROTEOMICS AND CHEMICAL GENETICS**
S. Morandell, K. Grosstessner-Hain, I. Feuerstein, T. Lindhorst, G.K. Bonn, K. Mechtler, L.A. Huber (*Innsbruck, , Vienna, Austria*)
- 15.50 – 16.10 **COFFEE BREAK**

PARALLEL SESSION A

BRAIN

Chairperson: G.Terstappen

- 16.10 – 16.30 **EVIDENCE FOR CYTOSKELETAL ABNORMALITIES IN WHITE MATTER IN SCHIZOPHRENIA AND BIPOLAR DISORDER**
J.A. English, P Dicker, M. Föcking, M.J. Dunn D.R. Cotter (*Dublin, Ireland*)
- 16.30 – 16.50 **SYSTEMATIC DEVELOPMENT OF NOVEL ANTIBODY BIOMARKERS FOR DIAGNOSTIC PROTEIN BIOCHIPS – THE MULTIPLE SCLEROSIS CASE STUDY**
A. Lueking, A. Kowald, S. Schimrigk, H.E. Meyer, J. Beator, S. Müllner
(*Dortmund, Bochum, Lüdenscheid, Germany*)
- 16.50 – 17.10 **IDENTIFICATION OF PROTEIN BIOMARKERS FOR STROKE IN HUMAN MICRODIALYSATES: MS/MS-BASED PROTEIN QUANTITATION IN INFARCT CORE, PENUMBRA AND CONTROLATERAL BRAIN REGIONS USING ISOBARIC TAGGING**
L. Dayon, N. Turck, J. Montaner, J.-C. Sanchez (*Geneva, Switzerland. Barcelona, Spain*)

PARALLEL SESSIONS T

DATA INTEGRATION AND CLASSIFICATION

Chairperson: R. Appel

- 14.30 – 14.50 **FROM PROTEIN IDENTIFICATION TO OMICS DATA INTEGRATION VIA PHYSICAL PROTEIN INTERACTIONS**
J. Colinge, T. Burkard, A. Masselot, T. Stranzl, U. Rix, L. Rix, O. Hantschel, N. Fernbach, R. Kralovics, K. Bennett, G. Superti-Furga (*Vienna, Austria. Geneva, Switzerland*)
- 14.50 – 15.10 **PROTEOMICS: DATA EXPLOSION UNDER CONTROL?**
P.-A. Binz, N. Budin², M. Sankar, M. Müller, F. Lisacek, A. Masselot (*Geneva, Switzerland*)
- 15.10 – 15.30 **BIOINFORMATICS STRATEGIES FOR DIAGNOSIS AND BIOMARKER DISCOVERY IN MALDI-TOF MS PROFILES**
H. Thiele (*Bremen, Germany*)
- 15.30 – 15.50 **BIOINFORMATICS STRATEGIES FOR SHARP DETECTION OF MEANINGFUL MASS SHIFTS IN SPECTRA**
A. Quandt, E. Ahrne, A. Masselot, P. Hernandez, M. Mueller, F. Lisacek (*Geneva, Switzerland*)
- 15.50 – 16.10 **COFFEE BREAK**

PARALLEL SESSION T

PUSHING THE LIMITS

Chairperson: A. Görg

- 16.10 – 16.30 **TAKING BENEFIT FROM HIGH MASS ACCURACY DATA**
A. Scherl, S.A. Shaffer, P. Singh, Y. Shannon Tsai, D.R. Goodlett (*Seattle, WA, USA*)
- 16.30 – 16.50 **INTERACTOME AND INTERFACE PROTOCOL – 2ND GENERATION STRATEGY FOR TOPOLOGY MAPPING OF PROTEIN COMPLEXES**
T. Shi, R. Weerasekera, G. Schmitt-Ulms (*Toronto, Ontario, Canada*)
- 16.50 – 17.10 **ESTIMATING THE SCOPE AND SELECTIVITY OF A TARGETED PROTEOMICS APPROACH BASED ON COMBINATORIAL PROTEOLYSIS**
M. Mueller, L. Martens, H. Hermjakob, R. Apweiler (*Cambridge, UK*)

PLENARY SESSION 3
QUANTITATIVE AND FUNCTIONAL PROTEOMICS
Chairperson: D.F. HOCHSTRASSER

PLENARY Lecture 7

17.15 – 17.45 **A PROTEOMIC VIEW OF VIRAL INFECTION AND TUMOR PROGRESSION**
S. Belin, M. Rosa-Calatrava, Y. Couté, C. Couderc, S. Hacot, S. Pourpe, A. Magron,
F. Borson-Chazot, E. Frobert, L. Josset, G. Cartet, M.A. Albaret, C. Roche, J.-Y. Scoazec,
J.-C. Sanchez, J.-J. Diaz (*Villeurbanne, Lyon, France. Geneva Switzerland*)

CLOSING MAIN LECTURE

17.45 – 18.30 **TOWARDS COMPLETE PROTEOME QUANTITATION: TECHNOLOGY AND APPLICATIONS**
M. Mann (*Martinsried, Germany*)

18.30 – 18.45 **CONCLUDING REMARKS**
D.F. Hochstrasser, J.-C. Sanchez, V.Pallini, L. Bini

20.00 – 01.00 **SOCIAL DINNER** (*Cloister of Piazza San Francesco*)

THURSDAY SEPTEMBER 4

09.00 – 10.00 **CAPPUCCINO E CORNETTI before the departure** (*Main Auditorium, Via Mattioli, 10*)

POSTERS

(Alphabetical order sorted by first author)

ISOLATION OF PROTEIN ISOFORMS BY FREE FLOW ELECTROPHORESIS PRESERVING BIOLOGICAL ACTIVITY

A. Abdolzade-Bavil, C. Obermaier, S. Hirler, U. Sukop, M. Nissum, C. Dufter, G. Weber, J. Homfeld, C. Eckerskorn
(Planegg, Germany)

RNAi MEETS MS - siRNA-MEDIATED TARGET SILENCING AND QUANTITATIVE PROTEOMICS FOR VALIDATION STUDIES

A. Abdrakhmanova, R. Schlichting, C.L. Hunter, C. Lenz, C.J. Echeverri, B. Sönnichsen, A. Jung, C. Weiss-Haljiti
(Darmstadt, Dresden, Germany. Foster City CA, USA)

PROTEOMIC ANALYSIS OF CIPROFLOXACIN-RESISTANT MURINE MACROPHAGES

M. Aerts, N. Caceres, J. Van Beeumen, P. Tulkens, F. Van Bambeke, B. Devreese (Ghent, Louvain, Belgium)

RAPID IDENTIFICATION OF MODIFIED PEPTIDES WITH A WORKFLOW COMBINING A MS2 SEQUENCE SEARCH WITH AN UNRESTRICTED SPECTRAL LIBRARY SEARCH

E. Ahrné, A. Masselot, P.-A. Binz, M. Müller, F. Lisacek (Geneva, Switzerland)

THE RELATIONSHIP BETWEEN THE INTACT MOLECULAR INTERACTION AND UNIPROTKB DATABASES

Y. Alam-Faruque, S. Orchard, The UniProt Consortium and the IntAct Team (Cambridge, UK. Washington DC, USA. Geneva, Switzerland)

INACTIVATION OF TISSUE SAMPLES BY NOVEL TECHNOLOGY STABILIZES THE IN VIVO LEVELS OF PROTEINS, PEPTIDES AND PHOSPHORYLATIONS

K. Alenäs, M. Svensson, M. Borén, M. Fälth, P.E. Andrén, P. Svenningsson, K. Sköld (Gothenburg, Uppsala, Stockholm, Sweden)

A NOVEL CHROMATOGRAPHIC METHOD ALLOWS ONLINE REANALYSES IN PROTEOMIC INVESTIGATIONS

R. Almeida, L.F. Waanders, S. Prosser, J. Cox, D. Eikel, M.H. Allen, G.A. Schultz, M. Mann
(Hethersett, UK. Martinsried, Germany. Ithaca, NY, USA)

COMPARATIVE ANALYSIS OF THE SURFACE PROTEOME IN EIGHT DIFFERENT GROUP B STREPTOCOCCUS STRAINS PROVIDES A POSSIBLE NEW CORRELATE OF PROTECTION IN THE ANIMAL MODEL

E. Altindis, C. Ricci, F. Doro, R. Rosini, C.D. Rinaudo, A. Grandi, L. Sanguinetti, R. D'Aurizio, M. Stella, N. Norais, M. Mora, M. Scarselli, I. Margarit, D. Maione, J.L. Telford, S. Liberatori, G. Grandi (Siena, Italy)

PROTEOME INVESTIGATION ON WHARTON'S JELLY CELLS DURING IN VITRO EXPANSION: THE MOLECULAR MECHANISM OF CELLULAR SENESCENCE

S. Angelucci, F. Di Giuseppe, M. Marchisio, L. Pierdomenico, M. Sulpizio, E. Eleuterio, S. Miscia, C. Di Ilio (Chieti, Italy)

PROTEOME ANALYSIS OF BRONCHOALVEOLAR LAVAGE IN INDIVIDUALS FROM METSOVO, NON-OCCUPATIONALLY EXPOSED TO ASBESTOS

D.T. Archimandriti, R. Cianti, Y.A. Dalavanga, L. Bianchi, C. Manda-Stachouli, A. Armini, A.I. Koukkou, P. Rottoli, S.H. Constantopoulos, L. Bini (Ioannina, Greece. Siena, Italy)

PROTEIN ONTOLOGY (PRO): A FORMAL REPRESENTATION OF PROTEIN OBJECTS

C. Arighi, D. Natale, H. Liu, W. Barker, Z. Hu, H. J. Drabkin, J. Blake, B. Smith, C. Wu (Washington DC; Bar Harbor; Buffalo, USA)

FINALLY COMPREHENSIVE MEMBRANE PROTEOMICS IS COMING!

M.S. Baker, P. Haynes, M.P. Molloy, A. Lee, P. Uitto, R. Saldanha, J. Chick (Sydney, Australia)

PROTEOMIC ANALYSIS OF HUMAN LOW DENSITY LIPOPROTEIN REVEALS THE PRESENCE OF PRENYLCYSTEINE LYASE, A HYDROGEN PEROXIDE-GENERATING ENZYME

C. Banfi, M. Brioschi, A. Rizzi, R. Wait S. Barcella, S. Begum, E. Tremoli (Milan, Italy. London, UK)

ANALYSIS OF LUMIER PERFORMANCE IN A BENCHMARK STUDY: TOWARDS A CONFIDENCE SCORE FOR NOVEL PROTEIN-PROTEIN INTERACTIONS

M. Barrios-Rodiles, B. Miller, P. Braun, L. Attisano, M. Vidal, J.L. Wrana (Toronto ON, Canada. Boston, MA, USA)

NEW RED EMITTING FLUORESCENCE DYES FOR PROTEIN LABELING

M. Bäuml, J. Bricks, R. Meier, A. Rück, B. Schönenberger, J. Slominskii, A. Tolmachev, K. Trummler
(Buchs, Switzerland. Kiev, Ukraine)

SALIVARY PROTEOMIC PATTERNS IN PRIMARY FIBROMYALGIA PATIENTS

L. Bazzichi, L. Giusti, F. Ciregia, C. Baldini, G. Giannaccini, F. De Feo, C. Giacomelli, A. Consensi, M. Doveri, S. Bombardieri, A. Lucacchini (Pisa, Italy)

ACCUMULATION OF CASEINS IN THE ENDOPLASMIC RETICULUM OF MAMMARY EPITHELIAL CELLS DUE TO α_{S1} -CASEIN DEFICIENCY, INDUCES A CHRONIC ER STRESS AND A MILK PROTEIN COMPOSITION SIGNING A SINGULAR SECRETION MODE

C. Beauvallet, C. Bevilacqua, B. Badaoui, C. Cebo, S. Makhzami, S. Pollet, E. Chanut, P. Martin (*Jouy en Josas, France*)

PROTEOMIC ANALYSIS OF MEMBRANE MICRODOMAIN-ASSOCIATED PROTEINS IN THE DORSOLATERAL PREFRONTAL CORTEX IN SCHIZOPHRENIA AND BIPOLAR DISORDER REVEALS ALTERATIONS IN LAMP, STXBPI AND BASP1 PROTEIN EXPRESSION

Á.T. Behan, C. Byrne, M.J. Dunn, G. Cagney, D.R. Cotter (*Dublin, Ireland*)

MITOFILIN EXPRESSION IN RENAL CELL CARCINOMA

M. Beretta, C. Chinello, M. Soldi, F. Falcetta, E. Gianazza, V. Proserpio, V.F. Dibari, S. Bombelli, M. Pitto, E. Fasoli, G. Galasso, P. Brambilla, F. Magni, C. Sarto (*Milan, Italy*)

PROTEOMIC CHARACTERIZATION OF OUTER MEMBRANE VESICLES FROM THE EXTRAINTESTINAL PATHOGENIC *Escherichia coli* *AtolR* IHE3034 MUTANTS

F. Berlanda Scorza, F. Doro, M.J. Rodríguez-Ortega, M. Stella, S. Liberatori, A.R. Taddei, L. Serino, D. Gomes Moriel, M.R. Fontana, A. Spagnuolo, M. Pizza, N. Norais, G. Grandi (*Siena, Viterbo, Italy*)

ANALYSIS OF PLASMA PROTEINS ADSORPTION PATTERNS ON CARBOXY-METHYL-CELLULOSE-DERIVED SURFACE BIOMATERIALS

G. Bernardini, M. Laschi, M. Lorenzetti, G. Leone, D. Magrini, S. Possenti, D. Braconi, R. Barbucci, A. Santucci (*Siena, Italy*)

A PROTEOMIC STUDY OF GUAR HYDROGELS BIOCOMPATIBILITY

G. Bernardini, M. Laschi, M. Lorenzetti, G. Leone, A. Spreafico, F. Chellini, D. Braconi, S. Possenti, D. Magrini, R. Barbucci, A. Santucci (*Siena, Italy*)

THE PAN-SURFOME OF GROUP A *STREPTOCOCCUS*: A NEW TOOL FOR DETECTING BROADLY PROTECTIVE VACCINES

M. Biagini, S. Capo, M.J. Rodríguez-Ortega, M. Stella, R. D'aurizio, S. Liberatori, M. Scarselli, M. Mora, G. Bensi, I. Margarit, N. Norais, G. Grandi (*Siena, Italy*)

Fyn AND Syk KINASES: A NOVEL FUNCTIONAL INTERACTION IDENTIFIED BY PHOSPHOPROTEIN NETWORK TOPOLOGICAL ANALYSIS IN MOUSE RED CELLS

A. Biondani, F. Turrini, F. Carta, A. Mattè, R. Corrocher, A. Elson, L. De Franceschi (*Verona, Torino, Sassari, Italy. Rehovot, Israel*)

SYSTEMATIC MOLECULAR PROTEOMIC APPROACHES TOWARDS PERSONALISED MEDICINE

J.M. Blackburn, A. Shoko, N. Beeton-Kempen (*Cape Town, South Africa*)

THE WAYS LEADING TO IDENTIFICATION OF POTENTIAL BIOMARKERS IN SELDI-TOF MS BASED PROTEOMIC STUDIES

P. Bouchal, L. Hernychova, M. Mudrochova, K. Brozkova, J. Sobotkova, S.D. Garbis, P. Novak, R. Vyzula, R. Nenutil, B. Vojtesek (*Brno, Hradec Kralove, Praha, Czech Republic. Athens, Greece*)

THE STUDY ON THE FNRP, NNR AND NARR TRANSCRIPTION REGULATOR FUNCTION IN BACTERIUM *PARACOCCUS DENITRIFICANS* AT GLOBAL PROTEOME LEVEL

P. Bouchal, T. Vyhldalova, I. Struharova, O.Sedo, Z. Zdrahal, W. Reijnders, R. van Spanning, I. Kucera (*Brno, Czech Republic. Amsterdam, The Netherlands*)

ANALYSIS OF BCG INDUCED ANTIBODY RESPONSES IN INFANTS USING PEPTIDE ARRAY TECHNOLOGY

M: Bowmaker, J.M Blackburn, W. Hanekom (*Cape Town, South Africa*)

THE ANNOTATION OF BOTH HUMAN AND MOUSE KINOMES IN UNIPROTKB/SWISS-PROT : AN IMPORTANT STEP FOR FULL COMPREHENSION OF GENOMES

S. Braconi Quintaje, S. Orchard, the UniProt Consortium (*Geneva, Switzerland. Hinxton, UK. ³Protein. Washington, DC, USA*)

REPRODUCIBILITY OF 2D GEL-BASED PROTEOMICS

D. Bramwell, M. C. Hurley, A. Khan, G. Poschmann, J.A. Westbrook, S. Hoving (*Newcastle upon Tyne, UK. Ann Arbor, MI, USA. Sydney, Australia. Bochum, Germany. Dublin, Ireland. Basel, Switzerland*)

HIGH-THROUGHPUT PROFILING OF BODY FLUIDS: 96 INDIVIDUAL SAMPLES IN 27 HRS

E. Breivold, T. Rivrud, E. Ragnhildstveit, D. Gillooly (*Oslo, Norway*)

OPTIMIZED IMMUNOPRECIPITATION AND CO-IMMUNOPRECIPITATION USING DYNABEADS

E. Breivold, D. Gillooly, P. Songe, E. Ragnhildstveit (*Oslo, Norway*)

COMPREHENSIVE PROTEOME OF PLATELETS: STUDIES IN PATIENTS WITH STABLE ANGINA AND ACUTE CORONARY SYNDROME

M. Brioschi, G. Marenzi, M. Demetrio, M. Camera, L. Mussoni, E. Tremoli, C. Banfi (*Milan, Italy*)

QUANTITATIVE MODIFICATIONS OF THE INSULIN GRANULE PROTEOME INDUCED BY CHRONIC HYPERGLYCAEMIA: IDENTIFICATION OF PROSAAS

Y. Brunner, D. Schwartz, Y. Coute, C.B. Wollheim, J.-C. Sanchez, (*Geneva, Switzerland*)

MEMBRANE-PROTEIN EXTRACTATIONS FOR SUBSEQUENT PROTEIN PROFILING OF CLINICAL TISSUE

S. Bünger, B. Fritzsche, T. Gemoll, H.-P. Bruch, U.J. Roblick, H. Jörnvall, G. Auer, J.K. Habermann (*Lübeck, Germany. Stockholm, Sweden*)

INTEGRATED WORKFLOW FOR BIOMARKER DISCOVERY, ASSAY DEVELOPMENT AND VALIDATION USING TANDEM MASS TAGS

H. Byers, K. Kuhn, D. O'Brien, M. Ward, P. Schulz-Knappe (*London, UK. Frankfurt am Main, Germany*)

PROTEOMIC ANALYSIS OF NORMAL AND OSTEOARTHRITIC CHONDROCYTES TREATED WITH GLUCOSAMINE AND CHONDROITIN SULFATE

V. Calamia, C. Ruiz-Romero, V. Carreira, J. Mateos, B. Cillero-Pastor, E. Montell, J. Vergés, F.J. Blanco (*A Coruña, Barcelona, Spain*)

CHARACTERIZATION OF SMALL MOLECULE-PROTEIN INTERACTION SITE BY COMBINED SCANNING MODE-ION FILTERING IN A HYBRID TRIPLE QUADRUPOLE

E. Calvo, E. Camafeita, J. A. López (*Madrid, Spain*)

NOISE FILTERING IN HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY

S. Cappadona, F. Levander, M. Jansson, P. James, S. Cerutti, L. Pattini (*Milan, Italy. Lund, Sweden*)

PHOSPHOPROTEOME OF HUMAN MILK

B. Casado, R. Jenni, A. Panchaud, M. Affolter, M. Kussmann (*Lausanne, Switzerland. Seattle, WA, USA*)

MONOMERIC AND HETERODIMERIC DIFFERENTIAL PHOSPHORYLATION PATTERN IN THE CYCLIN-A2/CDK2 COMPLEX

J. Casado-Vela, J. Martínez, J.I. Casal (*Madrid, Spain*)

PROTEOMIC ANALYSIS TO UNRAVEL THE FUNCTION OF HRPS19

M. Caterino, S. Orrù, A. Aspesi, M. Armiraglio, F. Loreni, C. Santoro, I. Dianzani, M. Ruoppolo (*Napol, Novara, Roma, Italy*)

PROTEIN EXPRESSION IN MODELS OF HEPATIC CANCEROGENESIS AFTER TREATMENT WITH THIAZOLIDINEDIONES

E. Ceni, F. Buccoliero, T. Mello, S. Polvani, L. Cioni, F. Lisi, B. Ottanelli, G. Moneti, A. Galli (*Florence, Italy*)

THE UNIVERSAL PROTEIN RESOURCE (UniProt)

W.M.Chan, The UniProt Consortium (*Cambridge, UK. Washington DC, USA. Geneva, Switzerland*)

SWEET SILVER: A FORMALDEHYDE-FREE SILVER STAINING USING ALDOSES AS DEVELOPING AGENTS, WITH ENHANCED COMPATIBILITY WITH MASS SPECTROMETRY

M. Chevallet, S. Luche, H. Diemer, J.-M. Strub, A. Van Dorselaer, T. Rabilloud (*Grenoble, Strasbourg, France*)

PROTEOMIC ANALYSIS OF BRONCHOALVEOLAR LAVAGE IN PATIENTS WITH PULMONARY LANGERHANS CELL HISTIOCYTOSIS (PLCH)

R. Ciantì, E. Bargagli, C. Landi, L. Bianchi, A. Armini, B. Magi, N. Nikiforakis, P. Rottoli, L. Bini (*Siena, Italy*)

DIFFERENTIAL PROTEIN PROFILE OF HUMAN CHONDROCYTES BY THE ACTION OF TUMOR NECROSIS FACTOR- α AND INTERLEUKIN- 1β . A 2-DE ELECTROPHORESIS APPROACH

B. Cillero-Pastor, M. J. López-Armada, C. Ruiz-Romero, J. Mateos, B. Lema, F.J. Blanco (*A Coruña, Spain*)

DIFFERENTIAL PROTEOME ANALYSIS OF PRIMARY LACTIFEROUS GLAND EPITHELIAL CELLS AFTER INFECTION WITH MASTITIS CAUSING PATHOGENS

C. Ciosto, M. Forgber, R. Bruckmaier, H.-M. Seyfert, G.J. Arnold (*Munich, Dummerstorf, Germany. Bern, Switzerland*)

COUPLING MALDI MS WITH HIGH-EFFICIENCY ION MOBILITY SPECTROMETRY FOR TISSUE IMAGING OF LOW MASS ENDOGENOUS COMPOUNDS

E. Claude, P.J Trim, M. F Snel, T. McKenna, J. Langridge (*Manchester, Sheffield, UK*)

CORRELATIONS OF LABEL-FREE SPECTRAL COUNTING TO iTRAQ QUANTITATION – AN EVALUATION ON MUSCLE PROTEOMES

M.C. Codrea, M. Danielsen, E. Bendixen (*Tjele, Denmark*)

USING IMS TO SEPARATE PRECURSORS FROM SPECIES OF DIFFERENT CHARGES IN TANDEM MS ANALYSES

K. Compson, C. Hughes, T. McKenna, J. Langridge (*Manchester, UK*)

ENRICHMENT OF PHOSHOPEPTIDES BY FREE FLOW ELECTROPHORESIS

D. Craft, S. Kronbauer, C. Kim, C.A. Gelfand, C. Eckerskorn, G. Weber, M. Nissum (*Franklin Lakes, NJ, USA. Martinsried, Germany*)

ENHANCED DETECTION OF PHOSPHOPROTEINS THROUGH MOBILITY SHIFT AMPLIFICATION USING PHOSPHATE AFFINITY SDS-PAGE WITH PHOS-TAG™ ACRYLAMIDE

U. Cucchi, R. Colombo, R. Baldi, B. Valsasina, L. Rusconi (*Nerviano, Italy*)

MICROBIAL IMPACT ON INTESTINAL PROTEIN EXPRESSION

M. Danielsen, H. Hornshøj, S. Purup, A.G. Kessel, R.H. Siggers, B.B. Jensen, E. Bendixen (*Aarhus, Copenhagen, Denmark. Saskatchewan, Canada*)

IDENTIFICATION OF IMMUNO-REACTIVE PROTEINS DURING OVINE GIARDIASIS

M.A. Dea-Ayuela, C. Cámara, M. Santín, R. Fayer, M.T. Gómez-Muñoz (*Valencia, Spain. Beltsville, MD, USA*)

A NOVEL MARKER PEPTIDE APPROACH TO THE EVALUATION OF THE 2DE MAP OF THE HIGHLY HOMOLOGOUS WOOL KERATIN FAMILY

S. Deb-Choudhury, J.E. Plowman, S. Clerens, C.D. Cornellison, J.M. Dyer (*Christchurch, New Zealand*)

DESIGN AND IMPLEMENTATION OF THE NEW PROTEOMICS STANDARDS INITIATIVE'S MASS SPECTROMETRY FILE STANDARD FORMAT: mzML

E.W. Deutsch, P.-A. Binz, D. Kessner, M. Chambers, L. Montecchi-Palazzi, J. Shofstahl, J. Tasman, R.K. Julian, F. Levander, P. Souda, L. Martens (*Seattle, WA; Los Angeles, CA; Nashville, TN; San Jose, CA; Carmel, IN, USA. Geneva, Switzerland. Hinxton, UK. Lund, Sweden*)

PROTEOMIC ANALYSIS OF LIPID RAFTS PURIFIED FROM ERYTHROCYTES INFECTED BY MALARIA PARASITE

F. Di Girolamo, X. Yam, C. Raggi, C. Birago, E. Pizzi, K. Brick, A. Bachi, M. Sargiacomo, C. Braun-Breton, M. Ponzi (*Roma, Milan, Italy. Montpellier, France*)

OFF-LINE MULTIDIMENSIONAL RPXRP NANOLC FOR SEPARATION AND TANDEM MS DETECTION OF COMPLEX PROTEIN DIGESTS

B. Dolman, E.-J. Sneekes, F. Abballe, C. Huber, R. Swart (*Amsterdam, The Netherlands. Milan, Italy. Salzburg, Austria*)

IDENTIFICATION OF A NOVEL PROTECTIVE ANTIGEN FOR GROUP B STREPTOCOCCUS BY SURFACE PROTEOME ANALYSIS OF THE HYPERVIRULENT STRAIN COH1

F. Doro, S. Liberatori, C.D. Rinaudo, R. Rosini, R. D'Aurizio, M. Stella, M. Mora, M.J. Rodríguez-Ortega, M. Scarselli, I. Margarit, D. Maione, J.L. Telford, N. Norais, G. Grandi (*Siena, Italy*)

THE RESPIRATORY CHAIN REVISITED: SEPARATION OF FUNCTIONAL MEMBRANE PROTEIN COMPLEXES BY ISOELECTRIC POINT IN THE ANALYSIS OF THE MITOCHONDRIAL SUBPROTEOME

Q. Drews, Y. Wang, J. Zhang, P. Ping (*Los Angeles, CA, USA*)

QUANTITATIVE PROTEOME ANALYSIS OF HUMAN PANCREATIC CANCER CELL LINES FG AND L3.6PL REVEALS A CRUCIAL ROLE OF CYTOSKELETON REGULATING PROTEINS FOR ANGIOGENETIC AND METASTATIC POTENTIAL

E. Dültsner, P. Gruber, T. Fröhlich, P. Camaj, C. Bruns, B. Göke, G.J. Arnold (*Munich, Germany*)

ELISA PROFILING OF BIOMARKER-ISOFORMS IN PLASMA AFTER SEPARATION BY FREE FLOW ELECTROPHORESIS

C. Eckerskorn, M. Nissum, A. Abdolzade-Bavil, P. O'Mullan, U. Sukop, S. Hirler, C. Gelfand, M. Safinowski, A. Pfützner, T. Forst (*Martinsried, Mainz, Germany. Franklin Lakes, NJ, USA*)

PROTEIN PROFILING OF DENTAL PULP AND PERIODONTAL LIGAMENT MESENCHYMAL STEM CELLS

E. Eleuterio, F. Di Giuseppe, O. Trubiani, T. Bonfini, M. Sulpizio, C. Di Ilio, S. Caputi, S. Angelucci (*Chieti, Pescara, Italy*)

MASS SPECTROMETRY-BASED ANALYSIS OF ISOLATED RABBIT CARDIAC MITOCHONDRIA USING ORBITRAP AND TEMPO LC/4800 MASS SPECTROMETERS

S.T. Elliott, M.Y. White, S. Sheng, D.A. Brown, J.E. Van Eyk (*USA*)

IDENTIFICATION OF NEW p16^{INK4A}-BINDING PROTEINS USING A PROTEOMIC APPROACH. SEARCH OF NEW p16^{INK4A} FUNCTIONS

J.M. Estanyol, E. Souza-Rodrigues, E. Friedrich-Heineken, E. Olmedo, J. Vera, N. Canela, S. Brun, N. Agell, U. Hübscher, O. Bachs, M. Jaumot (*Barcelona, Spain. Zürich, Switzerland*)

THE ANNOTATION OF HUMAN GENETIC VARIANTS AND DISEASES IN THE UNIPROTKB/SWISS-PROT KNOWLEDGEBASE

M.L. Famiglietti, A. Gos¹, P. Duek Roggli¹, A. Bairoch, the Swiss-Prot group (*Geneva, Switzerland*)

POST-TRANSLATIONAL MODIFICATIONS IN UNIPROTKB/SWISS_PROT

N. Farriol-Mathis, J. James, the Swiss-Prot group (*Geneva, Switzerland*)

CHEMOKINE RECEPTOR CCR2 UNDERGOES TRANSPORTIN1-DEPENDENT NUCLEAR TRANSLOCATION

N. Favre, M. Camps, C. Arod, C. Chabert, C. Rommel, C. Pasquali (*Sion, Geneva, Switzerland. La Jolla, CA, USA*)

PROTEOMIC PROFILING IN ACUTE PANCREATITIS

V. Fétaud, C.M. Pastor, A. Farina, A. Wadel, L. Bühler, J.M. Dumonceau, A. Hadengue, D.F. Hochstrasser, J.L. Frossard, P. Lescuyer (Geneva, Switzerland)

HIGH-THROUGHPUT METALLOPROTEOMICS: X-RAY FLUORESCENCE IMAGING PAIRED WITH ELECTROPHORESIS

L. Finney, Y. Chishti, T. Khare, C. Giometti, S. Vogt (USA)

PROTEOMIC ANALYSIS OF HIPPOCAMPAL SUBREGIONS IN SCHIZOPHRENIA AND BIPOLAR DISORDER

M. Föcking, P. Dicker, L. Hudson, M.J. Dunn, D.R. Cotter (Beaumont, Belfield, Dublin, Ireland)

LUDESI IMAGE AND DATA ANALYSIS ENABLED DISCOVERY OF POTENTIAL THERAPEUTIC TARGETS FOR SOLID TUMORS WHERE CONVENTIONAL 2-DE SOFTWARE DID NOT PROVIDE SUFFICIENT CONFIDENCE

O. Forsstrom-Olsson, H. Lexander, W.D. Culp, D. Garland (Malmo, Sweden. Chapel Hill, NC; Philadelphia, PA, USA)

CHARACTERIZATION OF POST-TRANSLATIONAL MODIFICATIONS OF BLOOD PROTEINS INDUCED BY ALKYLATING AGENT DRUGS

L. Geiser, M. Müller, M. Fathi, A.P. Sappino, P. Lescuyer, F. Lisacek, D.F. Hochstrasser (Geneva, Switzerland)

ENRICHMENT OF N-TERMINAL CYSTEINYL-PEPTIDES BY COVALENT CAPTURE

P. Giron, L. Dayon, F. David, J.-C. Sanchez, K. Rose (Geneva, Switzerland)

SALIVARY PROTEOMIC PROFILE OF RHEUMATOID ARTHRITIS: A PRELIMINARY STUDY

L. Giusti, F. Ciregia, C. Baldini, L. Bazzichi, G. Giannaccini, C. Giacomelli, F. De Feo, A. Delle Sedie, L. Riente, S. Bombardieri, A. Lucacchini (Pisa, Italy)

GLYCOMICS: ANALYSIS OF CARBOHYDRATE FRAGMENT ION SPECTRA BY DATABASE SEARCHING

M. Glueckmann, C. Lenz, L. Nuwaysir, N. Sanjib Meitei, R. Nigam, K. Kishore (Darmstadt, Germany. Foster City, Palo Alto, CA, USA)

LABEL INCORPORATION KINETICS EMPLOYING SILAC-CULTURED RAT CORTICAL NEURONS AND ITS APPLICATION TO AMYLOID-BETA TOXICITY STUDIES

S. Gotta, G.L. Sardone, A. Tarditi, D. Franceschini, C. Andersen, R. Raggiaschi (Siena, Italy)

COMPARATIVE ANALYSIS OF SERUM FROM CERVICAL CANCER PATIENTS AT DIFFERENT STAGES OF DISEASE

N.I. Govorukhina, P. Horvatovich, A. Hesselting, B. Hoekman, F. Suits, A.G.J. van der Zee, R. Bischoff (Groningen, Haren, The Netherlands. New York, USA)

PRESERVING THE YEAST PROTEOME FROM SAMPLE DEGRADATION

J. Grassl, J.A. Westbrook, A. Robinson, M. Borén, R.K. Clyne, M.J. Dunn (Dublin, Ireland. Gothenburg, Sweden)

THE PROTEIN EXPRESSION PROFILE OF MEIOSIS IN THE BUDDING YEAST *S. CEREVISIAE*

J. Grassl, C. Scaife, M. J. Dunn, R. K. Clyne (Belfield, Dublin, Ireland)

IMAGEQUANT™ IMAGERS AND IMAGEQUANTTL SOFTWARE –A POWERFUL PLATFORM FOR SIGNAL QUANTIFICATION OF WESTERN BLOTS AND 1D GEL IMAGES

S. Grimsby, E. Svensson, Å. Hagner McWhirter (Uppsala, Sweden)

A MULTIPARAMETER PANEL FOR THE STAGING OF HUMAN AFRICAN TRYPANOSOMIASIS PATIENTS

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DIFFERENTIAL PROTEIN PROFILING OF HUMAN FOLLICULAR FLUID AND PLASMA

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COMBINING ICPL™-QUADRUPLEX (ISOTOPE-CODED PROTEIN LABELING) WITH SDS-PAGE, STRONG ION EXCHANGE CHROMATOGRAPHY (SCX), AND LC-MALDI-MS OR LC-ESI-MS

T.M. Halder, M. Kersten, V.r Krey, E.-M. Keidel, A. Brunner, J. Kellermann, F. Lottspeich (Martinsried, Germany)

AUTOMATED SERUM PEPTIDE PROFILING IN DIABETES PEPTIDOMICS USING MAGNETIC BEAD-ASSISTED FRACTIONATION AND HIGH CAPACITY MALDI-TOF-MS

H.G. Hansen, J.N. McGuire, P. Rossing, F. Pociot (Gentofte, Denmark)

SEPARATION OF MEMBRANE PROTEINS AND PROTEIN COMPLEXES USING FREE-FLOW ELECTROPHORESIS (FFE)

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PROTEOMIC BIOMARKER DISCOVERY METHODS REVEAL POTENTIAL MATERNAL PLASMA MARKERS FOR PRENATAL DIAGNOSIS OF DOWN SYNDROME

W. Heywood, K.M. Mills, D. Wang, T.E. Madgett, A. Wallington, J. Hogg, N. Avent, L.S. Chitty (*London, Bristol, UK*)

UNI-PROTKB/SWISS-PROT: INTEGRATION OF INFORMATION FROM PROTEIN 3D-STRUCTURES, PROTEOMICS AND PUBLICATIONS

U. Hinz, J.Jacobsen, the UniProt Consortium (*Geneva, Switzerland. Hinxton, UK. Washington, DC, USA*)

COMPARISON OF MUSCLE PROTEOME PROFILE IN NORWEGIAN LANDRACE, DUROC AND HAMPSHIRE AT THREE DIFFERENT AGES

K. Hollung, V. Høst, H. Grove, E. Mosleth Færgestad, M. Singh Sidhu, P. Berg (*Ås, Oslo, Norway*)

WORLD-2DPAGE REPOSITORY: YOUR CONTRIBUTION TO A LARGE PROTEOMICS DATA NETWORK

C. Hoogland, K. Mostaguir, R.D. Appel, F. Lisacek (*Geneva, Switzerland*)

DIFFERENTIAL PROTEOMIC ANALYSIS OF HUMAN PERIPHERAL BLOOD LYMPHOCYTES TREATED WITH DIHYDROTESTOSTERONE AS A TOOL FOR BIOMARKER IDENTIFICATION IN DOPING SURVEY

E. Imperlini, A. Alfieri, A. Mancini, D. Martone, P. Buono, S. Orrù (*Naples Italy*)

PROTEOMIC CHARACTERIZATION OF NUCLEAR EXTRACTS FOR THE IDENTIFICATION OF HOLLIDAY JUNCTION (HJ) PROCESSING ENZYMES IN HUMAN CELLS

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PROTEOMIC ANALYSIS OF WHEAT (*Triticum durum* Desf) VARIETIES WITH DIFFERENT SENSITIVITY TO DROUGHT AND SALT STRESS

S. Irar, F. Brini, K. Masmoudi, A. Goday, M. Pagès (*Barcelona, Spain. Sfax, Tunisia*)

ISOLATION AND EVALUATION OF DIFFERENT PEROXISOMES SUBPOPULATIONS FROM RAT LIVER

M. Islinger, A. Aboldzade-Bavil, S. Liebler, J. Homfeld, C. Eckerskorn, G. Weber, A. Völkl (*Martinsried, Heidelberg, Germany*)

MEMBRANE PROTEIN ANALYSIS: N-TERMINAL LABELLING OF NON-TRYPTIC *BACILLUS SUBTILIS* MEMBRANE PROTEINS USING H4/D4 NicNHS

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HUMAN PROTEOME INITIATIVE, PROVIDING THE FIRST COMPLETELY MANUALLY ANNOTATED SET OF HUMAN PROTEIN SEQUENCES

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HIGH COMBINED CORRECTNESS ENSURES REPRODUCIBILITY IN 2D GEL DATA

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ICPLTM-*QuadruPlex* – ISOTOPIC LABELLING OF INTACT PROTEINS

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DIGGING FOR BIOMARKERS: ICPL*Quant* – A NEW SOFTWARE SUITE FOR ISOTOPE-LABELING BASED PROTEOMICS

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STUDY OF THE *FRANCISELLA TULARENSIS* MEMBRANE PROTEIN COMPLEXES USING BLUE NATIVE POLYACRYLAMIDE GEL ELECTROPHORESIS

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MICROFLUIDIC PLATFORM FOR ESI (DESI) AND MALDI (LDI) SHOTGUN PROTEOMIC ANALYSIS

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IMMUNOMODULATORY EFFECTS OF HOLOTHURIAN TRITERPENE GLYCOSIDES DETERMINED BY PROTEOME ANALYSIS

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PROTEOME ANALYSIS OF MITOTIC ARREST-INDUCED APOPTOSIS

F. Kozielski, T. Riaz, M. Strozynski, B. Thiede (*Glasgow, UK. Oslo, Norway*)

PROTEOMIC MONITORING OF PLASMA MEMBRANE PROTEINS IN HUMAN PERIPHERAL BLOOD MONONUCLEAR CELLS

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PROTEOMIC DATA INTEGRATION IN UNIPROTKB/SWISS-PROT

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THE PROTICDB DATABASE FOR 2-D ELECTROPHORESIS AND MASS SPECTROMETRY PROTEOMICS: VERSION 2.0 NOVELTIES

O. Langella, B. Valot, M. Zivy, J. Joets (*Gif-sur-Yvette, France*)

PROTEIN EXPRESSION ANALYSES IN BONE MARROW STEM CELL MEDIATED RESTORATION OF MYOCARDIUM AFTER ISCHEMIC INSULT

K. Lee, M. Lovell, M. Yasin, C. Thiemermann, KY. Leung, P. Munroe, A. Mathur (*London, UK*)

SERUM PROTEIN PROFILING FOLLOWING PROTEOMINER BEAD-BASED PRE-FRACTIONATION AND 2D-DIGE: GETTING A BETTER RESOLUTION WITH A NOVEL, HIGHLY REPRODUCIBLE APPROACH

S. Lehr, A. Czibere, S. Hartwig, W. Passlack, R. Haas, J. Kotzka (*Duesseldorf, Germany*)

GENDER DIFFERENCES IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD): INTERNAL STANDARD METHODS DEVELOPMENT FOR QUANTITATIVE 2DE

B. Levänen, Å.M. Wheelock (*Sweden*)

A MULTIPLEX QUANTITATIVE PROTEOMIC STUDY OF HUMAN *SUBSTANTIA NIGRA* IN PATIENTS WITH PARKINSON'S DISEASE

V. Licker, L. Dayon, M. Côte, N. Rodrigo, J.-C. Sanchez, P.R. Burkhard (*Geneva, Switzerland*)

PLATFORM TO ASSESS UNDESIRABLE DIRECT INTERACTIONS OF POLYCLONAL AFFINITY PURIFIED SECONDARY ANTIBODIES WITH PEPTIDES ON MICROARRAYS

P. Lorenz, Z. Qian, M. Kreutzer, M. Hecker, C. Koy, L. Hong, Y. Li, M. Glocker, H.-J. Thiesen (*Rostock, Germany. Shanghai China*)

ANALYSIS OF TRANSCRIPTOME PROTEOME AND CELLULAR ACTIVITY IN RESPONSE TO STRESS

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FROM GENOME TO PROTEOME IN LAMINOPATHIES

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PROTEIN RESOURCES AT EBI

M. Magrane and PANDA Group (*Cambridge, UK*)

QUALITATIVE AND QUANTITATIVE PROTEOMIC PROFILING OF SYNAPTOSOMES FROM MOUSE MODELS OF ALZHEIMER'S DISEASE

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PROTEOMIC PROFILING OF CEM T-LYMPHOBLASTIC LEUKAEMIA CELLS WITH RESISTANCE TO ANTICANCER EFFECT OF CDK INHIBITION

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PROTEIN PROFILES OF CARDIAC TISSUES USING PROTEOMIC APPROACH BASED ON TWO DIMENSIONAL CHROMATOGRAPHY COUPLED TO TANDEM MASS SPECTROMETRY (2DC-MS/MS)

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RAPID PROTEOME PROFILING USING POSITIONAL SIGNATURE PEPTIDES

L. McDonald, J.r Siepen, J.C. Wright, S.J. Hubbard, R.J. Beynon (*Liverpool, Manchester, UK*)

BUILDING A BIOMARKER PIPELINE FOR DIABETIC COMPLICATIONS

J. McGuire, J. Overgaard, H.G. Hansen, P. Rossing, F. Pociot (*Gentofte, Denmark*)

THE DEVELOPMENT OF AN MRM ASSAY FOR QUANTITATION OF LOW ABUNDANCE CYTOCHROME P450 PROTEINS

T. McKenna, A. Bartlett, C. Hughes, K. Neeson, J. Langridge (*Manchester, UK*)

QUANTITATIVE PROTEOMICS OF YIELD IN THE MODEL PLANT *ARABIDOPSIS THALIANA* EXPLORED BY DIFFERENTIAL MASS TAGGING

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2-DE PATTERN OF CARBAMOYLPHOSPHATE SYNTHASE 1 FROM RAT MITOCHONDRIA: THE INFLUENCE OF LIPOPOLYSACCHARIDE-TREATMENT

I. Miller, J. Struck, B. Gesslbauer, W. Gregor, S. Haindl, H. Redl, A. Kungl, M. Gemeiner, A. V. Kozlov (*Vienna, Graz, Austria. Hennigsdorf, Germany*)

PROTEOMIC PROFILING OF GLIOBLASTOMA CELLS FOLLOWING MIR-21 KNOCKDOWN

M. Minkoff, T. Papagiannakopoulos, M. Willetts, K.S. Kosik, D. Pappin (*Santa Barbara, USA*)

USE OF 2-D DIGE AND PREPARATIVE DENATURING IEF TO ENHANCE SENSITIVITY IN THE DIFFERENTIAL PROTEIN EXPRESSION ANALYSIS OF *Candida albicans* YEAST-TO-HYPHA TRANSITION

L. Monteoliva, A. Pitarch, R. Martínez-López, A. Serna, C. Nombela, J.P. Albar, C. Gil (*Madrid, Spain*)

AN IMPROVED AND RAPID METHOD FOR ANALYSIS OF 2-DE IMAGES; A PIXEL BASED APPROACH
E. Mosleth Færgestad, M. Høy, H. Grove, L. Gidskehaug, A. Moldestad, K. Hollung, B. Walczak, H. Martens, M. Beck Rye
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ANALYSIS OF EXPANDED GENE FAMILIES IN MYCOBACTERIA AND COMPARISON WITH OTHER MICROBIAL GENOMES
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QUANTITATIVE PROTEOMIC ANALYSIS OF CELL STRESS RESPONSE PATHWAYS FOLLOWING DNA REPLICATION INHIBITION
C. Mulvey, S. Tudzarova, K. Stoeber, G.H. Williams, J. Godovac-Zimmermann (London, UK)

DETECTION AND SITE IDENTIFICATION OF NITROXYL MODIFICATIONS USING A MODIFIED BIOTIN SWITCH ASSAY
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DIFFERENTIAL PROTEIN PROFILING ANALYSIS OF INTESTINAL EPITHELIAL CELLS BY LC ESI/QTOF MASS SPECTROMETRY
P. Nanni, L. Mezzanotte, G. Roda, A. Caponi, F.K. Levander, P. James, E. Roda, A. Roda (Bologna, Italy. Lund, Sweden)

COMPARISON OF PROTEOMIC APPROACHES FOR PROTEIN BIOMARKER DISCOVERY IN AMYOTROPHIC LATERAL SCLEROSIS
G. Nardo, S. Mantovani, S. Garbelli, G. Mora, C. Bendotti, V. Bonetto (Milan, Pavia, Italy)

PROTEOMICS IN THE BACKYARD: 2DE BASED COMPARISON OF VEGETABLES GROWN AT CONVENTIONAL FARMING CONDITIONS AND ORGANIC FARMING CONDITIONS
A. Nawrocki, K. Thorup-Kristensen, O. Nørregaard Jensen (Odense, Aarhus, Denmark)

FAECAL PROTEOMICS APPROACHES FOR THE DETECTION AND MONITORING OF COLON CANCER BIOMARKERS
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STRATEGIES FOR SPECIFIC AND SENSITIVE IDENTIFICATION OF THE NEUROPEPTIDOME IN AN EXPERIMENTAL MODEL OF PARKINSON'S DISEASE
A. Nilsson, M. Fälth, X. Zhang, K. Kultima, M. Svensson, K. Sköld, D. Fenyö, P. Svenningsson, P.E. André
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OPTIMISATION OF A WESTERN BLOT-BASED HEAT-INDUCED INTACT PROTEIN EXTRACTION STRATEGY FOR FORMALIN-FIXED TISSUES: APPLICATION TO QUANTITATIVE VALIDATION OF TISSUE BIOMARKERS IN RENAL CELL CARCINOMA
N.J. Nirmalan, P. Harnden, P.J. Selby, R.E. Banks (Leeds, UK)

MINING THE ARCHIVAL FORMALIN-FIXED TISSUE PROTEOME: METHOD OPTIMISATION OF AN EFFICIENT SURFACTANT-BASED ANTIGEN RETRIEVAL STRATEGY FOR SHOTGUN PROTEOMIC ANALYSES
N.J. Nirmalan, J. Peng, P. Harnden, P.J. Selby, R.E. Banks (Leeds, UK)

PROTEOMIC IDENTIFICATION OF ALLERGEN REGULATED PROTEINS AT THE HUMAN SKIN IMMUNE BARRIER
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THE INTERNATIONAL MOLECULAR EXCHANGE CONSORTIUM
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AUTOMATED SAMPLE PROCESSING FOR SERUM PROTEOME PROFILING
J. Overgaard, J.N. McGuire, L. Tarnow, P. Rossing, F. Pociot (Gentofte, Denmark)

ENRICHMENT OF PHOSPHORPROTEINS AND PHOSPHORPEPTIDES BY A CHT MICRO SPIN COLUMN FOR MASS SPECTROMETRIC ANALYSIS
A. Paulus, T. Wehr, N. Liu (Hercules, CA, USA)

PROTEOMIC CHARACTERIZATION OF *FRANCISELLA TULARENSIS* DURING GROWTH WITHIN A HOST MACROPHAGE
I. Pávková, M. Brychta, J. Stulík (Czech Republic)

ADVANCING GASTRIC CANCER DETECTION: IDENTIFYING PREDICTIVE BIOMARKERS USING MALDI-TOF MS PROFILING AND 2-D DIFFERENCE IN-GEL ELECTROPHORESIS
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MAPPING THE 14-3-3 PROTEIN INTERACTION BY MASS SPECTROMETRY

K. Peslova, P. Novak, T. Obsil, P. Hodek, M. Sulc (*Prague, Czech Republic*)

A GENERIC PROTOTYPE STRATEGY TO ASSESS CLINICAL ACCURACY OF SERUM ANTIBODIES TO CANDIDA METHIONINE SYNTHASE FOR INVASIVE CANDIDIASIS

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SEROLOGICAL PROTEOME ANALYSIS TO IDENTIFY INVASIVE CANDIDIASIS PATIENTS IN THE INTENSIVE CARE UNIT: VALIDATION OF ANTI-ENOLASE ANTIBODIES

A. Pitarch, A. Jiménez, C. Nombela, C. Gil (*Madrid, Salamanca, Spain*)

PROTEOMIC ANALYSIS OF THE CYTOSKELETON ASSEMBLY IN CHRONIC MYELOGENOUS LEUKEMIA CELLS: EFFECT OF TYROSINE-KINASE INHIBITOR IMATINIB MESYLATE

M. Pluskalová, D. Grebeňová, K. Kuželová, P. Halada, K. Pešlová, Z. Hrkal (*Prague, Czech Republic*)

VISUALISING COMPLEX PROTEOMES ON 2D GELS – A NEW REDUCTION AND ENRICHMENT STRATEGY

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QUANTITATIVE ASSESSMENT OF PROTEIN GLYCATION

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IMMUNOREACTIVE PROTEINS IN RENAL CELL CARCINOMA

V. Proserpio, C. Chinello, N. Tiberti, M. Soldi, M. Beretta, V.F. Dibari, F. Falcetta, V. Mainini, F. Raimondo, C. Bianchi, S. Ferrero, S. Casellato, P. Brambilla, F. Magni, C. Sarto (*Milan, Italy*)

QUANTITATIVE ANALYSIS OF PROTEIN COMPLEXES: CONCURRENT IDENTIFICATION OF COMPONENTS AND THEIR PHOSPHORYLATIONS

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IMPROVED IDENTIFICATION RATE ON THE EXAMPLE A OF PTM-RICH DATA SET BY PERFORMING PARAMETER STUDIES AND WORKFLOW ANALYSES

A. Quandt, A. Masselot, P. Hernandez, P. A. Binz, F. Lisacek (*Geneva, Switzerland*)

PROTEOMICS ANALYSIS OF DIFFERENT AREAS OF BRAIN FROM GBM PATIENTS

R. Raggiaschi, S. Matteoni, A. Mangiola, L. Magnoni, S. Gotta, M. Rossi, S. Valensin, A. Kremer, A. Bakker (*Siena, Rome, Italy*)

PROTEOMICS BASED ON PEPTIDE FRACTIONATION BY SDS-FREE PAGE

Y. Ramos, E. Gutierrez, Y. Machado, A. Sánchez, L. Castellanos-Serra, L. J. González, J. Fernández-de-Cossio, Y. Pérez-Riverol, L. Betancourt, J. Gil, G. Padrón, V. Besada (*Havana, Cuba*)

ACUTE SINGLE MEAL EFFECTS OF TROUT AND POULTRY ON THE HUMAN PLASMA PROTEOME

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ENRICHMENT AND PROTEOMIC ANALYSIS OF ACYLATED PROTEINS FROM INS-1E CELLS

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COMPARISON OF STATISTICAL LEARNING METHODS FOR BIOMARKER COMBINATION

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MIAPEGELDB: A WEB-BASED SUBMISSION TOOL AND PUBLIC REPOSITORY FOR MIAPE GEL ELECTROPHORESIS DOCUMENTS

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PROTEOMICS OF DIFFERENT STRAINS OF SALMONELLA SPP. ISOLATED FROM FOOD

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PHOSPHOPROTEOME OF S. THERMOPHILUS AND ITS BIOENERGETIC METABOLISM

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REDUCTION OF DYNAMIC CONCENTRATION RANGE ALLOWS DETECTING LOW-ABUNDANCE PROTEINS: RBC LYSATE AND CSF CASES

F. Roux-Dalvai, A. Gonzalez de Peredo, C. Simó, L. Guerrier, K. Smith, F. Berger, O. Burlet-Schiltz, E. Boschetti, P.G. Righetti, B. Monsarrat (*Toulouse, Gif-sur-Yvette, Grenoble, France. Milan, Italy*)

COLD ACCLIMATION IN SYNECHOCYSTIS PCC6803

J.G. Rowland, J.L. Robson, J. Prakash, G. Kemp, A. Treumann, N. Murata, I. Suzuki, D. Bramwell, W. Simon, A.R. Slabas (*Durham, Newcastle, UK. Hyderabad, India. Okazaki, Tsukuba, Japan*)

MITOCHONDRIAL PROTEOMIC ANALYSIS OF OSTEOARTHRITIC HUMAN ARTICULAR CHONDROCYTES EVIDENCES THEIR MITOCHONDRIAL DYSREGULATION

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DIFFERENTIAL PROTEIN EXPRESSION PROFILING OF SW480-ADH COLON CARCINOMA CELLS TREATED WITH VITAMIN D3 BY iTRAQ-2DLC-MS/MS

I. Ruppen, M.J. Larriba, A. Muñoz, I. Casal (*Madrid, Spain*)

TRANSGLUTAMINASE 2: ITS CELLULAR LOCALIZATION IN HUMAN PANCREAS AND INSIE AND ITS ROLE IN THE FIRST PHASE INSULIN SECRETION. A PROTEOMIC APPROACH

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DEVELOPMENT OF A NOVEL METHOD FOR GEL-BASED SEPARATION OF MEMBRANE PROTEINS; STUDYING AUTOIMMUNE COMPONENTS IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

A. Sandberg, Å.M. Wheelock (*Sweden*)

PROTEOMIC AND IMMUNOHISTOCHEMISTRY EVALUATION OF PSORIATIC PATIENTS SKIN RESPONSES TO PSORALEN-UVA PHOTOTHERAPY

M.R. Santos, A.M. P. Santos, R. Rosa, M.G. Almeida, J. Lampreia, P. Filipe (*Caparica, Lisboa, Portugal*)

UNITED STATES NATIONAL HEART LUNG AND BLOOD INSTITUTE PROTEOMICS INITIATIVE

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NOVEL APPROACHES TO PHOSPHOPROTEIN ISOFORM SEPARATION

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CYCLIC ABUNDANT PLASMA IMMUNO-DEPLETION (CAPI)

W-K. Shum, A. Kapur, V. Polaskova, S.H. Tan, M. Baker (*Sydney, NSW, Australia*)

QconCAT STRATEGY APPLIED TO POLYMORPHISM SCREENING OF MOUSE URINARY PROTEINS

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REDUCTION OF HIGH ABUNDANCE PROTEINS IN SERUM, PLASMA AND NON-BLOOD SAMPLES WITH PROTEOMINER BEADS

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COMPUTATIONAL DEPLETION AS A NEW TOOL FOR ANALYSIS OF SERUM PROTEOME

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PROTEOME ANALYSIS OF HYPOTHETICAL *FRANCISELLA TULARENSIS* PROTEIN FTT1103: STUDY OF ITS EXPRESSION IN STRAINS DIFFERING IN VIRULENCE, TYPE OF POST-TRANSLATIONAL MODIFICATION AND POSSIBLE BIOLOGICAL FUNCTION

J. Stulík, I. Pávková, L. Hernychová, J. Lenčo, A. Strašková (*Hradec Králové, Czech Republic*)

PREFRACTIONATION OF HUMAN FOLLICULAR FLUID PROTEINS BY LIQUID-PHASE ISOELECTRIC FOCUSING

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LC-MS BASED QUANTITATION OF PROTEINS SEPARATED BY GEL-ELECTROPHORESIS

Z. Szabo, I. Foldi, J. Szeline Szomor, T. Janaky (*Szeged, Hungary*)

FISHING FOR NEW ALZHEIMER'S DRUG TARGETS IN LARGE PROTEOMICS AND TRANSCRIPTOMICS DATASETS USING EXPERT-CURATED PATHWAYS AND PREDICTED INTERACTION NETWORKS

A. Tarditi, S. Gotta, R. Raggiaschi, L.J. Jensen, F. Casamenti, M.C. Rosi, C. Grossi, S. Rasmussen, H.B. Nielsen, H. Jarmer, S. Brunak, C.A. Andersen (*Siena, Firenze, Italy. Heidelberg, Germany. Denmark*)

MALDI-TOF MS ANALYSIS OF LOW-ABUNDANCE PEPTIDE ENRICHED FROM BODY FLUIDS BY MESOPOROUS SILICA BEADS

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EVONOVO: A NEW EVOLUTIONARY ALGORITHM FOR DE NOVO PEPTIDE SEQUENCING

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NUCLEOPLASMIN: ELECTROPHORETIC BEHAVIOUR DIFFERENCES BETWEEN QUEEN- AND WORKER-FATE LARVAE OF HONEYBEE

D. Tognetti, B. Baldacci, M.G. Giuffrida, D. Fortunato, E. Balestrieri, R. Felicioli, M. Pinzauti, A. Felicioli (*Pisa, Torino, Italy*)

PROTEOMIC ANALYSIS OF MILK FAT GLOBULES FROM *OVIS ARIES*

C.M. Trombetta, D. Perini, M. Verani, A. Armini, V. Pallini, L. Bini (*Siena, Italy*)

IMMUNOPROTEOMICS OF MYASTHENIA GRAVIS

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PROTEOMIC ANALYSIS OF 20S PROTEASOME PURIFIED FROM NORMAL AND TUMOR COLORECTAL CELLS

S. Uttenweiler-Joseph, M. Ducoux-Petit, F. Brichory, M.-P. Bousquet-Dubouch, O. Burlet-Schiltz, J.-F. Haeuw, B. Monsarrat (*Toulouse, Saint Julien en Genevois, France*)

ELECTRICAL STIMULATION OF BOVINE CARCASSES CAUSE CHANGES IN STRESS PROTEINS IN THE LONGISSIMUS DORSI MUSCLE AS REVEALED BY PROTEOMICS

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3D-GEL ELECTROPHORESIS, A NOVEL DEVELOPMENT IN PROTEIN SEPARATION

R. Ventzki, S. Hoving, J. van Oostrum, J. Stegemann (*Heidelberg, Germany. Basel, Witterswil, Switzerland*)

HUNTING FUNGAL SECRETED PROTEINS DOWN

D. Vincent, C. Plomion, M.-H. Balesdent, F. Blaise, T. Rouxel, J. Gibon, F. Martin, S. Claverol, D. Lapaillerie, M. Bonneu, C. Ribot, M.-J. Gagey, M.-H. Lebrun (*Bordeaux, Versailles, Nancy, Lyon, France*)

THE INFLUENCE OF PROTEOME VARIATION ON TECHNOLOGICAL FUNCTIONAL PROPERTIES OF SOYBEAN SEEDS

B. Vucelic-Radovic, S. Stanojevic, M. Pesic (*Belgrade, Serbia*)

IDENTIFICATION OF NOVEL PROTEIN BIOMARKERS IN AMNIOTIC FLUID AND FETAL URINE IN FETUSES WITH SERIOUS RENAL ABNORMALITIES

D. Wang, W. Heywood, L. Thomasson, K. Mills, L.S. Chitty, P. Winyard (*London, UK*)

PROTEOMIC ADAPTATION OF NEUROBLASTOMA CELLS TO HYPOXIA

K. Wårell, M. Jansson, S. Waldemarson, E. Fredlund, S. Pählman, P. James (*Lund, Sweden*)

LC-MS/MS MULTIPLEX ANALYSIS OF GUANIDINO-LABELED (GLAD) SAMPLES FOR QUANTITATIVE PROTEOMICS

P. Waridel, F. Brancia, J. Barblan, M. Quadroni (*Lausanne, Switzerland. Manchester, UK*)

CANDIDATE BIOMARKER DISCOVERY IN THE TIME DEPENDANT PROGRESSION OF A MOUSE MODEL OF LUNG FIBROSIS USING MULTIPLEX PROTEOMICS STRATEGIES

K. Williams, D. Gostick, A. Hudson, C. Lombardo, K. Blese, C. Hunter (*Foster City, San Diego, CA, USA*)

USING ETTAN™ DIGE SYSTEM FOR ANALYSIS OF PROTEOME CHANGES IN TRANSFORMED *E. COLI*

M. Winkvist, Å. Hagner McWhirter, B. Westerlund, G. Jacobson, J. Flensburg, G. Malmquist, L. Björkesten (*Uppsala, Sweden*)

STRESS INDUCED ALTERATION IN THE PROTEOME OF FARMED TROUT: INVESTIGATION OF THE MECHANISM BEHIND CHANGES IN SENSORY PROPERTIES

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