



7<sup>th</sup> SIENA MEETING

**FROM GENOME TO PROTEOME:  
BACK TO THE FUTURE**

**Sept. 3-7, 2006, 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 sponsored by

**Applied Biosystems**  
**GE Healthcare**  
**GeneBio S.A.**  
**Ludesi AB**  
**Proteome Sciences plc.**  
**Waters**

and by the following journal

**Journal of Proteome Research**

## PROGRAM OVERVIEW

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### SUNDAY SEPTEMBER 3

16.00 – 19.00 Registration  
19.30 Welcome Party

### MONDAY SEPTEMBER 4

08.00 – 09.15 Registration, Opening Remarks and Welcome Address  
09.15 – 10.00 Opening Main Lecture: **U.K. LAEMMLI**  
10.00 – 12.30 **PLENARY SESSION 1 – SYSTEM BIOLOGY**  
12.30 – 14.30 Lunch  
14.30 – 15.10 **PARALLEL SESSIONS A and B: PROKARYOTES, POST-TRANSLATIONAL MODIFICATIONS**  
15.10 – 16.30 **POSTER SESSION 1**  
16.30 – 18.30 **PARALLEL SESSIONS A and B: SELECTIVE-MS, NEUROPROTEOMICS**

### TUESDAY SEPTEMBER 5

09.00 – 12.30 **PLENARY SESSION 2 – DATA FLOW OR FLOOD?**  
12.30 – 14.30 Lunch  
14.30 – 15.10 **PARALLEL SESSIONS A and B: MODEL ORGANISMS, GRANULO-SECRETOME**  
15.10 – 16.30 **POSTER SESSION 2**  
16.30 – 18.30 **PARALLEL SESSIONS A and B: BIOMEDICAL APPLICATIONS, PROFILING: BACK TO THE FUTURE**  
20.00 Social Dinner

### WEDNESDAY SEPTEMBER 6

09.00 – 12.00 **PLENARY SESSION 3 – IMAGING: FROM ORGANS TO PROTEINS**  
12.00 – 14.00 Lunch  
14.00 – 15.00 **PARALLEL SESSIONS A and B: CELLS AND TISSUES, PHARMACOLOGY AND TOXICOLOGY**  
15.00 – 16.30 **POSTER SESSION 3**  
16.30 – 18.30 **PARALLEL SESSIONS A and B: ONCOLOGY, MATH AND DB**  
18.35 Wine and cheese tasting

### THURSDAY SEPTEMBER 7

09.00 – 12.30 **PLENARY SESSION 4 – FROM SINGLE TO MULTIPLEXED BIOMARKERS**  
12.30 – 14.30 Lunch  
14.30 – 15.15 Closing Main Lecture: **A. BAIROCH**  
15.15 – 15.30 Concluding Remarks

## SUNDAY SEPTEMBER 3

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- 16.00 – 19.00 Registration (*Main Auditorium, Via Mattioli, 10*)
- 19.30 Welcome Party (*below the tower of Piazza del Campo*) (sponsored by **GeneBio S.A.**)

## MONDAY SEPTEMBER 4

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- 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**  
S. Focardi (President of Siena University)  
G.M. Rossolini (Director, Department of Molecular Biology)

### OPENING MAIN LECTURE

- 9.15 – 10.00 **NUP-PI: THE NUCLEOPORE-PROMOTER INTERACTION OF GENES IN YEAST**  
M. Schmid, G. Arib, C. Laemmli, J.i Nishikawa, T. Durussel, U.K. Laemmli (*Geneva, Switzerland*)

### PLENARY SESSION 1 SYSTEM BIOLOGY

Chairpersons: D.F. Hochstrasser, V. Pallini

- 10.00 – 10.30 **PHOSPHOPROTEOMICS OF EGF-RECEPTOR / MAP KINASE SIGNALING**  
(A project of the Austrian Proteomics Platform –APP)  
S. Morandell, T. Stasyk, K. Grosstessner-Hain, I. Feuerstein, T. Lindhorst, G.K. Bonn, K. Mechtler,  
L.A. Huber (*Innsbruck, Vienna, Austria*)
- 10.30 – 11.00 **COFFEE BREAK**
- 11.00 – 11.30 **PROTEOME CHARACTERIZATION OF *FRANCISELLA TULARENSIS* SUBSPECIES *NOVICIDA***  
P. Singh, S. Ryu, G. Taylor, S. Hengel, B. Gallis, S.A. Shaffer, J. Chen<sup>3</sup>, L. Rohmer, M. Brittnacher,  
T. Guina, Y. Zhou, H. Hayden, L. Malmstroem, R. Bonneau, D. Baker, D. Radulovic, R. Kaul, S.I.  
Miller, D.R. Goodlett (*Seattle, WA; New York, NY; Boca Raton, FL, USA*)
- 11.30 – 12.00 **PROTEIN NETWORKS AND DRUG ACTION**  
G. Superti-Furga, U. Rix, G. Schütze, O. Hantschel, T. Bürckstümmer, A. Bauch, K. Bennett  
(*Vienna, Austria*)
- 12.00 – 12.30 **QUANTITATIVE PROTEOMICS AND SYSTEMS BIOLOGY**  
R. Aebersold (*Zurich, Switzerland; Seattle, WA, USA*)
- 12.30 – 14.30 **LUNCH** (sponsored by **Applied Biosystems/MDS SCIEX**)

## MONDAY SEPTEMBER 4

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### PARALLEL SESSIONS A

#### *PROKARYOTES*

Chairperson: A. Scherl

- 14.30 – 14.50 **HELICOBACTER PYLORI PROTEOME DATABASE: ONE THIRD OF THE PREDICTED ORFs DETECTED AND DOCUMENTED BY MS DATA IN THE 2D-PAGE DATABASE PORTAL**  
R. Stein, R. Ackermann, F. Schiele, P.R. Jungblut (Berlin, Germany)
- 14.50 – 15.10 **ANALYSIS OF GLOBAL GENOME EXPRESSION IN FREE-LIVING AND SYMBIOTICALLY-ASSOCIATED *RHIZOBIUM ETLI* AND *SINORHIZOBIUM MELILOTI*, USING PROTEOMICS APPROACHES**  
S. Encarnación, M. Hernández, G. Martínez, A. Reyes, M.C. Vargas, S. Contreras, M. Elizalde, R. Noguez, I. Garcia, R. Sánchez, N. Meneses, Y. Mora, J. Mora (Cuernavaca, Mor, Mexico)

15.10 – 16.30

### POSTER SESSION 1 AND COFFEE BREAK

### PARALLEL SESSIONS A

#### *SELECTIVE-MS*

Chairperson: F. Lottspeich

- 16.30 – 16.50 **QUANTITATIVE CELL CYCLE PROTEOMICS IN CAULOBACTER USING A NOVEL 8-PLEX SET OF ISOBARIC PEPTIDE LABELS**  
P. Ross, E. Toro, S. Dey, S.Pillai, S. Daniels, B. Williamson, L. Britos, L. Shapiro, B. Purkayastha, D. Pappin (Framingham, MA; Stanford, CA, USA)
- 16.50 – 17.10 **MULTIPLICATED ABSOLUTE QUANTIFICATION PROTEOMICS USING CONCATENATED SIGNATURE PEPTIDES ENCODED BY QCONCAT GENES**  
J. Pratt, M. Doherty, D. Simpson, S. Gaskell, M. Fischer, R. Beynon (Regensburg, Germany. Liverpool, Manchester, UK)
- 17.10 – 17.30 **CELL SURFACE CAPTURING (CSC) ALLOWS FOR THE MS-BASED IDENTIFICATION AND QUANTIFICATION OF CELL SURFACE ANTIGENS**  
C. Neou, R. Aebersold, J.D. Watts, B. Wollscheid (Seattle, WA, USA. Zurich, Switzerland)
- 17.30 – 17.50 **PROTEOLYTIC BACKGROUND: AN UNDERESTIMATED ISSUE IN SHOTGUN PROTEOMICS**  
P. Picotti, R. Aebersold, B. Domon (Zurich, Switzerland. Udine, Italy)
- 17.50 – 18.10 **THE DEVELOPMENT AND APPLICATION OF IMS-IMS-MS FOR PROTEIN STUDIES**  
D.E. Clemmer (Bloomington, Indiana, USA)
- 18.10 – 18.30 **HUMAN LIVER PROTEOME PROJECT: PLAN, PROGRESS AND PERSPECTIVE**  
F. He (Beijing, Shanghai, P.R China)

## MONDAY SEPTEMBER 4

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### PARALLEL SESSIONS B

#### *POST-TRANSLATIONAL MODIFICATIONS*

Chairperson: N. Packer

- 14.30 – 14.50 **PHOSPHOPROTEOMIC ANALYSIS OF LIPOPOLYSACCHARIDE-INDUCED SIGNALLING IN MACROPHAGES**  
M. Peirce, M. Smolinska-Bylanska, S. Begum, A. Cope, R. Wait (*London, UK*)
- 14.50 – 15.10 **PI3K $\gamma$ -DEPENDENT PHOSPHORYLATION EVENTS DEFINES VIMENTIN AS A TARGET OF CHEMOKINE-DRIVEN SIGNAL TRANSDUCTION**  
L. Barberis, C. Pasquali, A. Cuccurullo, F. Altruda, M. Wymann, D.B. Meier, F. Villbois, C. Rommel, E. Hirsch (*Torino, Italy, Geneva, Basel, Switzerland*)

15.10 – 16.30

### POSTER SESSION 1 AND COFFEE BREAK

### PARALLEL SESSIONS B

#### *NEUROPROTEOMICS*

Chairperson: G.C. Terstappen

- 16.30 – 16.50 **THE HUPO BRAIN PROTEOME PROJECT: THE PILOT STUDIES**  
M. Hamacher, C. Stephan, K. Marcus, K.A. Reidegeld, K. Stühler, A. van Hall, H.E. Meyer (*Bochum, Germany*)
- 16.50 – 17.10 **INVESTIGATION OF VARIATIONS IN THE PHOSPHOPROTEOME OF PRIMARY RAT CORTICAL NEURONS INDUCED BY A $\beta$  PEPTIDE TREATMENT**  
R. Raggiaschi, L. Magnoni, C. Andersen, S. Gotta, E. Diodato, G. Pollio, R. Roncarati, A. Kremer, A. Caricasole, G.C. Terstappen (*Siena, Italy*)
- 17.10 – 17.30 **NODAL POINT PROTEINS IN NEURODEGENERATIVE AND NON-NEURODEGENERATIVE DISEASES OF THE BRAIN**  
C. Zabel, D. Sagi, A. M. Kaindl, N. Steireif, Y. Kläre, L. Mao, H. Peters, M. A. Wacker, R. Kleene, J. Klose (*Berlin, Hamburg, Germany*)
- 17.30 – 17.50 **PROTEOMIC ANALYSIS OF AUTOANTIBODY REACTIVITY TO NEURAL ANTIGENS IN SERA AND CEREBROSPINAL FLUID OF MULTIPLE SCLEROSIS PATIENTS**  
L. Lovato, G. Vattemi, R. Cianti, B. Gini, L. Bini, B. Sonetti (*Verona, Siena, Italy*)
- 17.50 – 18.10 **COMPARATIVE PROTEOMICS OF MULTIPLE SCLEROSIS LESIONS**  
J. Newcombe, B. Eriksson, J. Otterwald, Y. Yang, B. Franzén (*London, UK, Södertälje, Sweden*)
- 18.10 – 18.30 **PROTEOMIC ANALYSIS OF THE HUMAN BRAIN IN SCHIZOPHRENIA AND BIPOLAR DISORDER**  
K. Pennington, J. English, P. Dicker, R. Wait, N. O'Donoghue, A. Fagan, C. Beasley, L. Hudson, S.R. Pennington, D.R. Cotter, M.J. Dunn (*Dublin, Ireland, British Columbia, Canada*)

## TUESDAY SEPTEMBER 5

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### PLENARY SESSION 2 *DATA FLOW OR FLOOD?*

Chairperson: R. Aebersold

- 9.00 – 9.30      **TECHNOLOGY AND APPLICATION OF SUBTRACTIVE PROTEOMICS**  
J.R. Yates (*La Jolla, CA, USA*)
- 9.30 – 10.00    **HIGH MEASURED MASS ACCURACY ON CID FRAGMENTS: WHAT DO WE GAIN, WHAT DO WE LOSE?**  
A. Scherl, H. Kulasekara, P.-A. Binz, P. Hernandez, S. Shaffer, G. Taylor, S. Ryu, A. Masselot, R.D. Appel, D. Radulovic, S.I. Miller, D.R. Goodlett  
(*Seattle, WA; Boca Raton, FL, USA; Geneva, Switzerland*)
- 10.00 – 10.30   **WE SHOULD NOT IGNORE THE PROTEIN INFORMATION! - QUANTITATIVE PROTEOMICS WITH HIGHER MULTIPLEXED ICPL PROTEIN LABELLING**  
F. Lottspeich, E. Keidel, S. Martin, J. Kellermann (*Martinsried, Munich, Germany*)
- 10.30 – 11.00   **COFFEE BREAK**
- 11.00 – 11.30   **GLYCOMICS: CAN WE LEARN FROM THE PROTEOMICS EXPERIENCE?**  
N.H. Packer (*Sydney, Australia*)
- 11.30 – 12.00   **swissPIT - A PLATFORM FOR KNOWLEDGE EXTRACTION FROM MASS SPECTROMETRY DATA**  
P. Hernandez, A. Quandt, C. Hernandez, M. Müller, R.D. Appel (*Geneva, Zürich, Switzerland*)
- 12.00 – 12.30   **TOWARDS EASIER NAVIGATION THROUGH THE DATA FLOOD: INTEGR8 AND BEYOND**  
R. Apweiler (*Hinxton, UK*)
- 12.30 – 14.30   **LUNCH**                      (sponsored by **GE Healthcare**)

### PARALLEL SESSIONS A

#### MODEL ORGANISMS

Chairperson: L. Bini

- 14.30 – 14.50 **A HIGH QUALITY MAP OF THE *DROSOPHILA MELANOGASTER* PROTEOME**  
E. Brunner, S. Mohanty, H. Baetschmann, S. Loevenich, F. Potthast, E. Deutsch, U. de Lichtenberg, O. Rinner, H. Lee, P. Pedrioli, J. Malmstrom, C.H. Ahrens, E. Hafen, R. Schlapbach, R. Aebersold  
(Zurich, Switzerland. Seattle, WA, USA. Lyngby, Denmark)
- 14.50 – 15.10 **INTEGRATED PROTEOMIC AND GENOMIC STRATEGIES BRING NEW INSIGHTS OF *CANDIDA ALBICANS* RESPONSE UPON MACROPHAGE INTERACTION**  
E. Fernandez-Arenas, V. Cabezon, L. Monteoliva, L. Martinez-Solano, G. Molero, C. Nombela, R. Diez-Orejas, C. Gil (Madrid, Spain)

15.10 – 16.30

### POSTER SESSION 2 AND COFFEE BREAK

### PARALLEL SESSIONS A

#### BIOMEDICAL APPLICATIONS

Chairperson: J.-C. Sanchez

- 16.30 – 16.50 **THE IMPACT OF MASS SPECTROMETRY IN ALZHEIMER'S DISEASE RESEARCH**  
M. Ward, A. Hye, S. Lynham, J. Campbell, H. Byers, J. Westbrook, K. Kuhn, P. Sham, B.H. Anderton, S. Lovestone (London, UK)
- 16.50 – 17.10 **NDKA AS A NEW BLOOD BIOMARKER FOR STROKE DIAGNOSIS: A PROOF OF CONCEPT OF A PROTEOMICS DISCOVERY STRATEGY**  
N. Turck, LAllard, N. Walter, C. Fouda, P.R. Burkhard, A. Rosell, D.F. Hochstrasser, J. Montaner, J.-C. Sanchez (Geneva, Switzerland. Barcelona, Spain)
- 17.10 – 17.30 **THE HUMAN MUSCLE PROTEOME: A SENSITIVE INDICATOR OF HYPOXIA**  
C. Gelfi, A. Viganò, M. Ripamonti, S. De Palma, M. Moriggi, D. Capitanio, S. Begum, R. Wait, P. Cerretelli (Milan, Italy. London, UK)
- 17.30 – 17.50 **MYOCARDIAL ISCHEMIA BIOMARKER DISCOVERY: MULTIPLE PROTEIN SEPARATION METHODOLOGIES FOR ANALYSIS OF ALBUMIN DEPLETED AND ENRICHED FRACTIONS FROM SERUM**  
Q. Fu, R. Gundry, J. Zhu, M. Stastna, S. Sheng, J. Miller, O. Forsstrom-Olsson, R. Cotter, E. Marban, J. Van Eyk (Baltimore, USA. Sweden)
- 17.50 – 18.10 **BRONCHIAL-ALVEOLAR LAVAGE PROTEOME PROFILING FOR IDENTIFYING COPD PATIENTS BEFORE THE ONSET OF CLINICAL SYMPTOMS**  
A. Plymoth, C.G. Löfdahl, W.S. Hancock, T.E. Fehniger, G. Marko-Varga (Lund, Sweden. Boston, MA, USA)
- 18.10 – 18.30 **NOVEL REJECTION MARKERS IN RENAL TRANSPLANTATION**  
S. Kienle, R. Joubert, P. Prefot, J. Arnhold, J. Schäfer, S. Fuggle, J. Schwarz  
(Frankfurt, Germany. Oxford, UK)
- 20.00 **SOCIAL DINNER**

## TUESDAY SEPTEMBER 5

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### PARALLEL SESSIONS B

#### *GRANULO-SECRETOME*

Chairperson: D. Neri

- 14.30 – 14.50 **PROTEOMIC ANALYSIS OF INSULIN SECRETORY GRANULES**  
Y. Brunner, Y. Coute, D.F. Hochstrasser, C.B. Wollheim, J.-C. Sanchez (*Geneva, Switzerland*)
- 14.50 – 15.10 **SOME TRICKS FOR THE PROTEOMICS ANALYSIS OF SECRETED PROTEINS. APPLICATION TO THE SECRETOME OF MYELOID CELLS**  
T. Rabilloud, M. Chevallet (*Grenoble, France*)

15.10 – 16.30

### POSTER SESSION 2 AND COFFEE BREAK

### PARALLEL SESSIONS B

#### *PROFILING: BACK TO THE FUTURE*

Chairperson: T. Rabilloud

- 16.30 – 16.50 **TWO-DIMENSIONAL ELECTROPHORESIS FOR PROTEOME ANALYSIS: OUTDATED OR STILL INDISPENSABLE?**  
A. Görg, A. Klaus, C. Lück, F. Weiland, W. Weiss (*Freising, Germany*)
- 16.50 – 17.10 **IMPROVED PREDICTION OF PEPTIDE ISOELECTRIC POINT BY MODELLING THE EFFECT OF INTERACTION BETWEEN CHARGED NEIGHBOURING AMINO ACIDS**  
K. Uhlen, D. Fenyo, L. Hörnsten, B. Bjellqvist (*Uppsala, Sweden. New York, NY, USA*)
- 17.10 – 17.30 **A NEW ALGORITHM FOR pI PREDICTION OF PEPTIDES FROM IPG-IEF: APPLICATIONS TO ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISMS**  
J.L. Stephenson Jr., M.K. Bungler, B.J. Cargile, J.R. Sevinsky (*Triangle Park, NC, USA*)
- 17.30 – 17.50 **HIGH-THROUGHPUT PROFILING OF BACTERIUM PROTEOME BY SHOTGUN IEF**  
A.R. Vaezzadeh, C. Zimmermann-Ivol, O. Lassout, P. François, C. Hoogland, R.D.Appel, J. Schrenzel, D.F. Hochstrasser (*Geneva, Switzerland*)
- 17.50 – 18.10 **A DIRECTED SHOTGUN PROTEOMICS APPROACH BASED ON A FEEDBACK LOOP STRATEGY DELIVERS AN UNPRECEDENTED HIGH COVERAGE OF THE DROSOPHILA MELANOGASTER PROTEOME**  
C.H. Ahrens, H. Baetschmann, F. Potthast, O. Rinner, S. Mohanty, E. Niederer, E. Brunner, R. Aebersold, R. Schlapbach (*Zurich, Switzerland*)
- 18.10 – 18.30 **SHERLOCK HOLMES AND THE PROTEOME: A DETECTIVE STORY**  
P.G. Righetti, E. Boschetti, L. Lomas, J. Rappsilber (*Milan, Italy. Fremont, CA, USA*)
- 20.00 **SOCIAL DINNER**



## WEDNESDAY SEPTEMBER 6

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### PLENARY SESSION 3 *IMAGING: FROM ORGANS TO PROTEINS*

Chairperson: D.F. Hochstrasser

- 9.00 – 9.30      **THE RENAISSANCE OF MOLECULAR IMAGING IN CLINICAL PRACTICE**  
O. Ratib (*Geneva, Switzerland*)
- 9.30 – 10.00    **A HUMAN PROTEIN ATLAS FOR NORMAL AND CANCER TISSUES**  
M. Uhlen (*Stockholm, Sweden*)
- 10.00 – 10.30   **HIGH SPATIAL RESOLUTION IMAGING MASS SPECTROMETRY OF HIGH MASS MOLECULES**  
L.A. McDonnell, A.F. Maarten Altelaar, K. Glunde, E.R. Amstalden, I.M. Taban, R.M.A. Heeren  
(*Utrecht, The Netherlands; Baltimore, USA*)
- 10.30 – 11.00    **COFFEE BREAK**
- 11.00 – 11.30   **DESI: AMBIENT MASS SPECTROMETRY FOR BIOMARKER DETECTION AND TISSUE IMAGING**  
R.G. Cooks, Z. Takats, J. Wiseman, Z. Ouyang, D. Ifa, N. Talaty, A. Jackson, Z. Pan, D. Raftery  
(*West Lafayette, IN, USA*)
- 11.30 – 12.00   **IMAGING IN PROTEOMICS: 2-DE vs. LC/MS DATA ANALYSIS**  
D. Walther, G. Bouchet, S. Catherinet, S. Pelhatre, M. Tuloup, P.M. Palagi, R.D. Appel  
(*Geneva, Switzerland*)
- 12.00 – 14.00   **LUNCH**                      (sponsored by **Ludesi AB**)

### PARALLEL SESSIONS A

#### CELLS AND TISSUES

Chairperson: L. Anderson

- 14.00 – 14.20 **TRANSCRIPTION FACTOR NFAT5 IDENTIFIED BY TANDEM AFFINITY-PURIFICATION AS NAB2 INTERACTING PROTEIN**  
S. Connert, B. Wollscheid, R. Aebersold, J. D. Watts, H. Eibel  
(Freiburg, Germany. Seattle, WA, USA. Zurich, Switzerland)
- 14.20 – 14.40 **CELL DEATH SYSTEMS PROTEOMICS**  
F. Schmidt, M. Strozynski, H. Hustoft, B. Thiede (Oslo, Norway)
- 14.40 – 15.00 **A NOVEL APPROACH TO PLASMA PROTEOMICS USING DEPLETION OF MOST ABUNDANT PROTEINS COMBINED WITH MULTI-LECTIN AFFINITY CHROMATOGRAPHY (M-LAC)**  
T. Plavina, M. Hincapie, W.S. Hancock (Boston, MA, USA)

### POSTER SESSION 3 AND COFFEE BREAK

15.00 – 16.30

### PARALLEL SESSIONS A

#### ONCOLOGY

Chairperson: M. Uhlen

- 16.30 – 16.50 **IDENTIFYING CANCER BIOMARKERS USING 2D-DIGE**  
M. O'Connor (Cambridge, UK)
- 16.50 – 17.10 **ANALYSIS OF 1000 MICRODISSECTED CELLS USING FLUORESCENCE DYE SATURATION LABELLING FOR THE IDENTIFICATION OF CANDIDATE MOLECULAR MARKERS OF THE PANCREATIC TUMOUR PROGRESSION**  
B. Sitek, B. Sipos, T. Schulenburg, K. Marcus, G. Klöppel, S.A. Hahn, H.E. Meyer, K. Stühler  
(Bochum, Kiel, Germany)
- 17.10 – 17.30 **EFFICIENT SCREENING OF POTENTIAL BIOMARKERS IN COLORECTAL CANCER USING PARALLEL PROTEOMICS WORKFLOWS**  
H. Nordvarg, J. Axelman, J. Flensburg, A. Kaplan, O. Rönn, J. Samskog, H. Wadensten, D. Haid  
(Uppsala, Sweden)
- 17.30 – 17.50 **DEFINING PARAMETERS FOR OVARIAN CANCER TUMOUR CLASSIFICATION AND THE EXTENT OF BIOLOGICAL VARIATION USING 2D-PAGE AND 2D-HPLC-MS**  
S. Bengtsson, M. Krogh, C. Al-Khalili Szigyarto, M. Uhlen, A. Alaiya, K. Schedvins, C. Silfverswärd, S. Linder, G. Auer, P. James (Lund, Stockholm, Sweden)
- 17.50 – 18.10 **MULTIPLE CANCER BIOMARKERS IN ULTRA HIGH-SENSITIVITY BLOOD-BASED DIAGNOSTICS USING MULTI PHOTON DETECTION**  
J. Godovac-Zimemrmann, A.K. Drukier, R. Sainsbury (London, UK)
- 18.10 – 18.30 **IDENTIFICATION OF CENTRAL CELL CYCLE MOLECULES AS NEW DOWNSTREAM TARGETS FOR TUMOR PROGRESSION FACTOR OSTEOPOINTIN BY PROTEOME ANALYSIS**  
M. Kunz, V. Kotsikoris, C. Koy, B. Ringel, M. Kreutzer, M.O. Glocker, H.J. Thiesen  
(Rostock, Germany)

**WEDNESDAY SEPTEMBER 6**

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**PARALLEL SESSIONS B****PHARMACOLOGY AND TOXICOLOGY**

Chairpersons: S. Patterson

- 14.00 – 14.20 **AUTOMATED QUANTITATIVE PROTEOMICS WORKFLOW FOR LARGE SCALE SYSTEMS PHARMACOLOGY APPLICATIONS**  
J. Bonapace, S. Booth, W. Hines, N. Khainovski, M. Lynch, C. Ruel, P. Snell, L. Song, S. Martin, P. Juhasz (*Waltham, MA, USA*)
- 14.20 – 14.40 **TOXICOPROTEOMICS - IDENTIFICATION AND PREVALIDATION OF POTENTIAL EARLY BIOMARKERS IN CHEMICALLY INDUCED HEPATOCARCINOGENESIS**  
M. Kröger, K. Fella, M. Glückmann, V. Krufft, Y. Walter, P.-J. Kramer (*Darmstadt, Germany*)
- 14.40 – 15.00 **A CHEMICAL PROTEOMICS APPROACH REVEALS THE TAXOID BINDING TO MICROTUBULES**  
E. Calvo, R. Buey, I. Barasoain, O. Pineda, M.C. Edler, R. Matesanz, G. Cerezo, C.D. Vanderwal, B.W. Day, E.J. Sorensen, J.A. López, J.M. Andreu, E. Hamel, J.F. Díaz (*Madrid, Barcelona, Spain. Frederick; Irvine, CA, Pittsburgh, PA; Princeton, NJ, USA*)

**POSTER SESSION 3  
AND COFFEE BREAK**

15.00 – 16.30

**PARALLEL SESSIONS B****MATH and DB**

Chairperson: R. Apweiler

- 16.30 – 16.50 **MASS SPECTROMETRY DATA MINING SUPPORTED BY AN OPEN-SOURCE INITIATIVE TO DEVELOP NEW GENERIC PEAK INTENSITY MODELS AND EVALUATE PEPTIDE DE NOVO SEQUENCING ALGORITHMS**  
J. Colinge, A. Masselot, E. Pitzer, R. Mylonas, R.D. Appel (*Vienna, Hagenberg, Austria. Geneva, Switzerland*)
- 16.50 – 17.10 **MATHEMATICAL TECHNIQUES FOR PRE-PROCESSING, PATTERN RECOGNITION AND CLASSIFICATION OF MASS SPECTRA**  
H. Thiele, F.-M. Schleif, J. Decker (*Bremen, Germany*)
- 17.10 – 17.30 **PROMOTING PROTEOMICS TO A DATA PRODUCER: BIOINFORMATICS TOOLS TO MANAGE, VALIDATE AND DISPERSE PROTEOMICS DATA IN ORDER TO REALLY MAKE IT WORK**  
L. Martens, P. Jones, R. Côté, K. Flikka, H. Hermjakob, K. Helsens, K. Gevaert, J. Vandekerckhove, R. Apweiler (*Ghent, Belgium. Cambridge, UK. Bergen, Norway*)
- 17.30 – 17.50 **APPLICATION OF A SILAC APPROACH AND NOVEL BIOINFORMATICS TOOLS IN THE SEARCH FOR MARKERS OF MURINE EMBRYONIC STEM CELLS**  
M. Gallagher-Gambarelli, C. Bruley, A. Adrait, A. Kraut, A. Conscience, B. Pain, G. Montillet, P. Gardellin, A. Fraichard, J. Samarut, J. Garin (*Grenoble, Lyon, France*)
- 17.50 – 18.10 **HUNTINGTON'S DISEASE PROTEOMICS EXPERIMENTS: FROM DIGE TO PATHWAY**  
A. Kremer, R. Kern, R. Raggiaschi, S. Gotta, C. Andersen, E. Gonzalez Couto, L. Magnoni, S. Matteoni, F. Paoli, F. Malusa, F. Heitz, G.C. Terstappen (*Siena, Italy*)
- 18.10 – 18.30 **"GARBAGE IN – GARBAGE OUT": THE PEAKLIST ISSUE IN PROTEOMICS**  
P.-A. Binz, A. Masselot, R. Mylonas, D. Bouyssié, A. Niknejad, N. Budin, R. Appel (*Geneva, Switzerland*)



## THURSDAY SEPTEMBER 7

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### PLENARY SESSION 4 *FROM SINGLE TO MULTIPLEXED BIOMARKERS*

Chairperson: R.D. Appel

- 9.00 – 9.30      **DISCOVERY OF VASCULAR TUMOR MARKERS USING CHEMICAL PROTEOMIC METHODOLOGIES**  
D. Neri (*Zurich, Switzerland*)
- 9.30 – 10.00    **NEW APPROACHES FOR THE ANALYSIS OF BACTERIAL MEMBRANE-ASSOCIATED PROTEINS**  
G. Grandi (*Siena, Italy*)
- 10.00 – 10.30   **CANDIDATE-BASED PLASMA PROTEOMICS**  
L. Anderson (*Washington DC, USA*)
- 10.30 – 11.00   **COFFEE BREAK**
- 11.00 – 11.30   **MEASURING THE EFFECTS OF THERAPEUTICS IN EARLY DRUG DEVELOPMENT**  
S.D. Patterson (*Thousand Oaks, CA, USA*)
- 11.30 – 12.00   **FROM PANELS TO PATTERNS: CLINICAL QUALITY CONTROL FOR PROTEOMICS**  
S.R. Master (*Philadelphia, PA, USA*)
- 12.00 – 12.30   **RECENT APPLICATIONS OF PROTEIN ARRAYS: DISCOVERY OF CANDIDATE DISEASE BIOMARKERS**  
D.J. Cahill (*Dublin, Ireland*)
- 12.30 – 14.30   **LUNCH**                      **(sponsored by Waters)**

### CLOSING MAIN LECTURE

- 14.30 – 15.15   **THE UNIPROT/SWISS-PROT KNOWLEDGEBASE: FROM 1986 TO 2006 AND BEYOND**  
A. Bairoch (*Geneva, Switzerland*)
- 15.15 – 15.30   **CONCLUDING REMARKS**  
V. Pallini, L. Bini, J.-C. Sanchez, D.F. Hochstrasser

## POSTERS

(Alphabetical order sorted by first author)

### REPRODUCIBLE ORGANELLE PURIFICATION FACILITATES ANALYSIS AND DISCOVERY OF ORGANELLE PROTEINS

A. Aboldzade-Bavil, M. Nissum, R. Wildgruber, C. M. Islinger, A. Völkl, C. Eckerskorn, G. Weber  
(Martinsried, Heidelberg, Germany)

### PROTEOMIC IDENTIFICATION OF DIFFERENTIALLY EXPRESSED MEMBRANE PROTEINS IN RENAL CELL CARCINOMA

V. Aggelis, R.A. Craven, R. Tonge, P.J. Selby, R.E.Banks (Leeds, Alderley Park, Cheshire, UK)

### “CARDIAC RESYNCHRONIZATION THERAPY EFFECTS ON MITOCHONDRIAL SUB-PROTEOME IN A CANINE MODEL FOR HEART FAILURE”

G. Agnetti, S. Elliot, L. Kane, C. Yung, K. Chakir, D. Samantapudi, C. Guarnieri, C.M. Caldarera, D. Kass, J. Van Eyk  
(Bologna, Italy. Baltimore, MD, USA)

### PROTEOMIC ANALYSIS OF MATURE POLLEN GRAINS OF *PARIETARIA JUDAICA*

R. Alessandro, S. Fontana, M. Barranca, V. Di Caro, F. Damiani, G. Duro, M. Ceccherini, F. Vasile, S. Marino, G. De Leo  
(Palermo, Italy)

### DIFFERENTIAL EXPRESSION ANALYSIS OF MEMBRANE PROTEIN EXTRACTS FROM TUMORAL AND NORMAL PAIRED SAMPLES IN COLORECTAL CANCER USING 2D-DIGE AND SATURATION LABELLING

P. Alfonso, F. Fernández-Carbonié, A. Núñez, J. Casado, J.I. Casal (Madrid, Spain)

### DANSYL CHEMISTRY IN PROTEOMICS: BACK TO THE FUTURE

A. Amoresano, C. Cirulli, G. Chiappetta, G. Marino (Naples, Italy)

### ANALYSIS OF PROTEINS IN BRONCHOALVEOLAR LAVAGE FLUID OF METSOVITES ENVIROMENTALLY EXPOSED TO TREMOLITE ASBESTOS

D. Archimandriti, R. Cianti, L. Bini, V. Pallini, P. Rottoli, S.H. Constantopoulos, A. Koukou, Y.A. Dalavanga  
(Ioannina Greece. Siena, Italy)

### PHOSPHORYLATION OF CALMODULIN: NEW PERSPECTIVES FOR AN OLD PROBLEM

G. Arrigoni, T. Berggard, G. Poletto, F. Meggio, P. James (Padova, Italy. Lund, Sweden)

### DIFFERENTIAL PROTEIN EXPRESSION IN E2F2-DEFICIENT ACTIVATED T LYMPHOCYTES

M. Azkargorta, K. Aloria, A.M. Zubiaga, J.M. Arizmendi, A. Fullaondo (Leioa, Spai)

### CYCLIC ABUNDANT PROTEIN IMMUNODEPLETION (CAPI) OF HUMAN PLASMA FOR BIOMARKER DISCOVERY

M.S. Baker, A. Khan, A. Lee, S-H. Tan, M.P. Molloy, A. Kapur (Sydney, NSW, Australia)

### BIOINFORMATICS TOOLS FOR IMPROVEMENT OF SHOTGUN PROTEOMICS DATA ANALYSIS

M.E. Barrios-Llerena, S.Y. Ow, P.K. Chong, C.S. Gan, A.P.L. Snijders, K.F. Reardon, P.C. Wright  
(Sheffield, UK. Fort Collins, CO, USA)

### PROTEIN EXPRESSION PROFILING OF HEREDITARY BREAST CANCER

S. Bengtsson, M. Krogh, J. Vallon-Christersson, H. Olsson, Å. Borg, P. James (Lund, Sweden)

### DIFFERENTIAL PROTEOME ANALYSIS OF BOVINE OOCYTE MATURATION USING SATURATION DYES

F.J. Berendt, M. Boelhave, T. Fröhlich, E. Wolf, G.J. Arnold (Munich, Germany)

### MASS SPECTROMETRIC ANALYSIS OF THE MOUSE BRAIN $Ca^{2+}$ -CALMODULIN INTERACTOME

T. Berggård, G. Arrigoni, O. Olsson, M. Fex, S. Linse, P. James (Lund, Sweden. Padova, Italy)

### OUTER MEMBRANE VESICLES FROM ExPEC *AtolR* MUTANT: A TOOL FOR VACCINE DESIGN

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

### EXPANDING THE PROTEOME DATABASE OF MENINGOCOCCUS A

G. Bernardini, S. Arena, D. Braconi, T. Serchi, R. Mini, A. Paffetti, A. Scaloni, A. Santucci (Siena, Napoli, Italy)

### SUBCELLULAR FRACTIONATION OF RAT CORTICAL NEURONS USING DIFFERENTIAL DETERGENT FRACTIONATION

S. Bernocco, C. Fondelli, S. Matteoni, S. Gotta, L. Magnoni, G. C. Terstappen, R. Raggiaschi (Siena, Italy)

### PRE-ANALYTICAL INFLUENCE ON THE LOW MOLECULAR WEIGHT CEREBROSPINAL FLUID PROTEOME

F.S. Berven, A.C. Kroksveen, M. Berle, R. Arneberg, T. Rajalahti, O.M. Kvalheim, R.J. Ulvik (*Bergen, Norway*)

**EVALUATION OF THE SCAPE METHOD IN THE PROTEOMIC ANALYSIS OF AN OMV FRACTION FROM THE GRAM-NEGATIVE BACTERIA *NEISSERIA MENINGITIDIS***

L. Betancourt, J. Gil, R. Pajón, V. Besada, L.J. Gonzalez, J. Fernandez-de-Cossio, F. Alvarez, G. Padrón (*Havana, Cuba*)

**PROTEOMIC APPROACH FOR IDENTIFICATION OF BIOMARKERS OF FABRY DISEASE**

S. Beyer, S. Mikkat, E. Mix, U. Völker, A. Rolfs (*Rostock, Greifswald, Germany*)

**MAPPING OF THE RAT NATURAL KILLER CELL MEMBRANE MICRODOMAIN USING A SHOTGUN PROTEOMIC APPROACH**

K. Bezouška, P. Man, P. Novák, P. Pompach, A. Fišerová, O. Horváth, V. Havlíček (*Prague, Czech Republic*)

**PROTEIN EXPRESSION PROFILING IN MACROPHAGEAL RESPONSE TO BACTERIAL QUORUM SENSING USING AMINE SPECIFIC LABELING AND LC MS/MS ANALYSIS**

S. Bhardwaj, S. Iyer, R. Martin, R. Iyer (*Framingham, MA; Los Alamos, NM, USA*)

**PROTEOMIC APPROACH AS A TOOL TO INVESTIGATE TOXICOLOGICAL HAZARD DUE TO CONTAMINANTS IN MEDITERRANEAN CETACEANS**

L. Bianchi, L. Marsili, S. Casini, A. Armini, L. Bini, M.C. Fossi (*Siena, Italy*)

**COMPARATIVE ANALYSIS OF PROTEIN EXPRESSION PROFILES FROM BLOOD AND LYMPHATIC VESSEL ENDOTHELIAL CELLS**

L. Bianchi, P. Lorenzoni, C. Tani, L. Bini, E. Weber, A. Rossi, V. Pallini, G. Sacchi (*Siena, Italy*)

**HUMAN SPERM PROTEIN PROFILE VARIATIONS DURING CAPACITATION**

L. Bianchi, F. Secciani, A. Armini, L. Ermini, R. Focarelli, L. Bini, F. Rosati (*Siena, Italy*)

**2D DIGE BASED SUBPROTEOME ANALYSIS OF RENAL GLOMERULI FROM TWO MURINE NEPHROPATHY MODELS**

C. Block, A. Blutke, F.J. Berendt, E. Kemter, N. Herbach, R. Wanke, G.J. Arnold (*Munich, Germany*)

**POPLAR UNDER OZONE STRESS: A PROTEOMIC APPROACH**

S. Bohler, L. Hoffmann, P. Dizengremel, Y. Jolivet, J.-F. Hausman, J. Renaut (*Belvaux, Luxembourg. Vandoeuvre, France*)

**CHALLENGES WORKING WITH PROTEOMICS IN A SPECIES WITH LIMITED GENOME DATA: SEARCHING AGAINST A RAPIDLY EVOLVING EST- DATABASE FOR PROTEIN IDENTIFICATION IN COD (*GADUS MORHUA*)**

A. Bohne Kjersem, B. E. Grøsvik, P. Olsvik, F. Nilsen, A. Lanzen, P. Puntervoll, A. Goksøyr (*Bergen, Norway*)

**A NEW LABEL-FREE WORKFLOW FOR ITERATIVE BOTTOM-UP DISCOVERY OF HUMAN PLASMA MARKERS USING IN-LINE FRACTIONATION AND NANO-ESI FTMS**

L. Bonilla, J.N. Sutton, T. Richmond, M. Askenazi, C. Ptak (*Cambridge, MA; Ithac, NY; Morgantown, WV, USA*)

**THE EFFECT OF SERUM WITHDRAWAL ON THE PROTEIN PROFILE OF QUIESCENT HUMAN DERMAL FIBROBLASTS**

F. Boraldi, G. Annovi, C. Paolinelli Devincenzi, R. Tiozzo, I. Pasquali Ronchetti, D. Quaglino (*Modena Italy*)

**MFPaQ: A NEW TOOL FOR PARSING, VALIDATION, AND QUANTIFICATION OF PROTEINS IDENTIFIED BY MASCOT**

D. Bouyssié, E. Mouton, A. Gonzalez de Peredo, R. Albigot, A. Stella, O. Schiltz, B. Monsarrat (*Toulouse, France*)

**LC-MALDI TOP-DOWN PROFILING AND DIRECT MARKER IDENTIFICATION**

S. Brand, S. Hahner, A. Asperger, M. Meyer, I. Sanders, D. Suckau (*Bremen, Germany*)

**CHARACTERISATION AND IDENTIFICATION OF GLYCOSYLATED BIOMARKERS IN PRIMARY TUMOURS AND SERA FROM BREAST CANCER PATIENTS**

C. Bratt, B. Jansson, H. Olsson, M. Fernö, B. Baldetorp (*Lund, Sweden*)

**IDENTIFICATION OF PC-1 ASSOCIATED PROTEINS BY 2D-ELECTROPHORESIS AND MALDI MASS SPECTROMETRY**

R. Braunrath, E. Ponweiser, M. Marchetti, R. Sunder Plassmann, G. Allmaier (*Vienna, Austria*)

**SAMPLE PREPARATION FOR PLASMA AND SERUM PROFILING USING MAGNETIC BEAD TECHNOLOGY**

E. Breivold, D. Gillooly, K. Evensen, D. Tran, G. Fonnum, E. Raghildstveit (*Oslo, Norway*)

**PROTEOME OF ENDOTHELIAL CELL-DERIVED PROCOAGULANT MICROPARTICLES**

M. Brioschi, R. Wait, L. Mussoni, E. Tremoli, C. Banfi (*Milan, Italy. London, UK*)

**PROTEOMIC ANALYSIS OF MEMBRANE MICRODOMAINS DERIVED FROM BOTH FAILING AND NON-FAILING HUMAN HEARTS**

M. Brioschi, R. Wait, G. Polvani, L. Mussoni, E. Tremoli, C. Banfi (*Milan, Italy. London, UK*)

**CHANGE IN FLUORESCENCE PROPERTIES ON pH-DEPENDENT REVERSIBLE BINDING PROVIDES A NOVEL, MS COMPATIBLE APPROACH FOR QUANTIFICATION AND STAINING OF PROTEINS AND PEPTIDES**

C. Buelles, H.-Y. Choi, M. Ball, D. Veal, P. Karuso (Sydney, NSW, Australia)

**DIFFERENTIAL PROTEOMIC ANALYSIS OF CITRUS PLANTS: EVALUATION OF THE CITRUS SUDDEN DEATH DISEASE**

M.D. Cantú, N.A. Wulff, M.S. Palma, W.S. Lane, E. Carrilho (São Paulo, Araraquara, Rio Claro, SP, Brazil. Cambridge, MA, USA)

**A GLANCE AT THE MERISTEM PROTEOME: A STUDY OF OSMOTIC STRESS ACCLIMATION FROM DIFFERENT *MUSA* VARIETIES**

S.C. Carpentier, E. Witters, K. Laukens, R. Swennen, B. Panis (Leuven, Antwerp, Belgium)

**CHARACTERIZATION OF *N. MENINGITIDIS* AND *N. GONORRHOEAE* ANTIGENS BY PROTEOMIC ANALYSIS OF WILD-TYPE AND ISOGENIC KNOCK OUT MUTANTS**

E. Cartocci, J. Adu-Bobie, L. Ciucchi, R. Leuzzi, N. Norais, D. Serruto, S. Savino, D. Veggi, R. Rappuoli, M. Pizza (Siena, Italy)

**PROTEOMIC ANALYSIS OF NAPHTHALENE-INDUCED AIRWAYS INJURY IN CYSTIC FIBROSIS TRANSGENIC MOUSE**

I. Carvalho-Oliveira, N. Charro, B.J. Scholte, D. Penque (Lisboa, Portugal. Rotterdam, The Netherlands)

**DIFFERENT STRATEGIES FOR MAPPING PHOSPHORYLATION SITES IN THE REGULATORY DOMAIN OF *XENOPUS* CDC25 USING A LINEAR ION TRAP**

J. Casado-Vela, E.J. Ruiz, A.R. Nebreda, I. Casal (Madrid, Spain)

**A PROTEOMIC APPROACH FOR THE STUDY OF CULTURED CELLS-SECRETED PROTEINS**

M. Chevallet, H. Diemer, S. Luche, T. Rabilloud (Grenoble, Strasbourg, France)

**MODIFICATION OF PROTEINS PROFILE OF AN ERICOID MYCORRHIZAL STRAIN GROWN IN THE PRESENCE OF METAL IONS**

M. Chiapello, E. Martino, S. Perotto (Torino, Italy)

**PROTEOMIC ANALYSIS FOR BIOMARKER DISCOVERY IN TRISOMY 21 PLASMA USING 2-D DIFFERENTIAL IN GEL ELECTROPHORESIS (DIGE)**

S.K.R. Chinnappagari, W. Holzgreve, I. Lefkovits, S. Hahn (Basel, Switzerland)

**ITRAQ REPRODUCIBILITY AND RELIABILITY: IMPLICATION OF MULTIPLE INJECTIONS**

P.K. Chong, C.S. Gan, T.K. Pham, P.C. Wright (Sheffield, UK)

**ANTIOXIDANT AND ANTIPROTEASE PROTEINS ANALYZED BY A PROTEOMIC APPROACH IN BRONCHOALVEOLAR LAVAGE OF PATIENTS WITH INTERSTITIAL LUNG DISEASES**

R. Cianti, L. Bini, E. Bargagli, B. Magi, F. Penza, N. Nikiforakis, P. Rottoli (Siena, Italy)

**MODIFICATIONS IN THE HUMAN T CELL PROTEOME INDUCED BY INTRACELLULAR HIV-1 TAT PROTEIN EXPRESSION**

M. Coiras, J.A. López, T. Ureña, E. Camafeita, F. Caballero, B. Fernández, M.R. López-Huertas, M. Pérez-Olmeda, J. Alcamí (Madrid, Spain)

**THE USE OF TRAVELLING WAVE AND DRIFT TUBE IMS SEPARATIONS FOR SEPARATING PROTEIN ION CHARGE STATES AND THEIR FRAGMENTS**

K.R. Compson, S.D. Pringle, K. Giles, S.L. Koeniger; S.J. Valentine; R.H. Bateman, S. Merrenbloom, D.E. Clemmer (Manchester, UK. Bloomington, IN, USA)

**BEYOND HUMAN NUCLEOLAR PROTEOMICS: CHARACTERIZATION OF PROTEINS WITH UNKNOWN FUNCTION**

Y. Couté, K. Kindbeiter, R. Dieckmann, S. Belin, V. Converset, J.J. Diaz, J.-C. Sanchez (Geneva, Switzerland. Villeurbanne, France)

**IDENTIFICATION OF VON HIPPEL LINDAU-DEPENDENT CHANGES IN PROTEIN EXPRESSION IN RENAL CANCER CELLS**

R.A. Craven, S. Hanrahan, N. Totty, P. Harnden, A.J. Stanley, E.R. Maher, A.L. Harris, W.S. Trimble, P.J. Selby, R.E. Banks (London, Birmingham, Oxford, UK. Toronto, Canada)

**PROTEOMICS AS A TOOL TO UNDERSTAND THE ABIOTIC STRESS TOLERANCE UNDERLYING CRYOPRESERVATION IN POTATO**

B. Criel, J. Renaut, R. Swennen, B. Panis, J.-F. Hausman (Leuven, Belgium. Belvaux, Luxembourg)

**FRACTIONATION OF PLATELET RELEASATE USING ION EXCHANGE CHROMATOGRAPHY**

L.M. Cryan, R.I. O'Connor, C. O'Brien, G. Cagney (Dublin, Ireland)

**DROSOPHILA KINETOCORE STRUCTURAL ORGANIZATION PROFILE**

G. da Costa, J. Borch, P. Roepstorff, A. Tavares, A.V. Coelho (Oeiras, Évora, Portugal. Odense, Denmark)



**QUANTITATIVE PROTEOME AND TRANSCRIPTOME ANALYSES OF INTESTINAL TISSUES FROM GERM-FREE AND *LACTOBACILLUS FERMENTUM* OR *ESCHERICHIA COLI* INFECTED PIGS**

M. Danielsen, B. Thomsen, C. Bendixen, J. Hedegård, R.H. Siggers, A.V. Kessel, B.B. Jensen, E. Bendixen  
(Tjele, Odense, Frederiksberg, Denmark. Saskatoon, Canada)

**HYPOTHESIS-DRIVEN BIOMARKER DISCOVERY IN CARDIOVASCULAR DISEASES**

P. Davidsson, Å. Henriksson, T. Miliotis, B.-M. Olsson, A.-C. Nystrom, J. Hulthe, G. Caméjo, B. Fagerberg  
(Mölndal, Gothenburg, Sweden)

**IDENTIFICATION AND FUNCTIONAL VALIDATION OF AUTOANTIGENS DEFINING AUTOIMMUNITY FOR RECURRENT AUTOIMMUNE UVEITIS**

C.A. Deeg, D. Pompetzki, A.J. Raith, S.M. Hauck, B. Amann, S. Suppmann, T.W.F. Goebel, U. Olazabal, H. Gerhards, S. Reese, M. Stangassinger, B. Kaspers, M. Ueffing (Munich, Germany)

**CLASS BASED MALDI IMAGING ANALYSIS FOR THE DETECTION OF TISSUE FEATURES**

S.-O. Deininger, M. Schuerenberg, C. Luebbert, A. Fuetterer, S. Dikler, M. Ebert, C. Roecken, D. Suckau  
(Bremen, Billerica, Munich, Berlin, Germany)

**PROTEIN EXTRACTION OF *MYCOBACTERIUM AVIUM* SUB. *PARATUBERCULOSIS*: CHEMICAL METHODS VS PHYSICAL METHODS**

F. Deriu, L. Musante, G. Candiano, A. Crippa, N. Arrigoni, G. Belletti, L. Bonizzi, P. Roncada (Milano, Genova, Piacenza, Italy)

**APPLICATION OF REVERSIBLE GELS TO PROTEOMICS**

H.P. Desmond, R. Chung, A. Khan, J. Staddon (London, UK)

**COMPARISON OF DECYDER 6.5 AND IMAGE MASTER 2D PLATINUM 6.01 SOFTWARE IN THE ANALYSIS OF TWO-DIMENSIONAL DIFFERENCE IN GEL ELECTROPHORESIS**

V.F. Dibari, C. Sarto, V. Proserpio, M. Soldi, R. Sanvito, C. Bianchi, P. Favini, S. Ferrero, F. Magni, P. Mocarelli (Milano, Italy)

**PROTEOME ANALYSIS OF A MOUSE MODEL FOR PARKINSON'S DISEASE: PINK1 KNOCKOUT MOUSE<sup>1</sup> AND MPTP TREATED C57BL/6 MOUSE<sup>2</sup>**

M. Diedrich, G. Nebrich, S. Becker, B. Esch, M. Herrmann, J. Stuwe, D. Sagi, J. Klose (Berlin, Germany)

**MULTIPLEXED QUANTITATIVE PROTEOMICS BASED ON NOVEL TANDEM MASS TAGS**

B. Doman, H.-K. Lee, V. Link, R. Aebersold (Zurich, Switzerland)

**PROTEOMIC ANALYSIS OF MEMBRANE VESICLES PRODUCED BY GROUP B *STREPTOCOCCUS* GROWN IN PRESENCE OF A NON LETHAL CONCENTRATION OF PENICILLIN**

F. Doro, M.J. Rodríguez-Ortega, G. Ferrari, I. Garaguso, A.R. Taddei, J.L. Telford, N. Norais, G. Grandi (Siena, Italy)

**FREE-FLOW-ELECTROPHORESIS: A HIGHLY VERSATILE FRACTIONATION AND SEPARATION METHOD IN PROTEOMICS**

C. Eckerskorn, M. Nissum, R. Wildgruber, G. Weber (Martinsried, Germany)

**A TECHNOLOGY PLATFORM TO ISOLATE AND ANALYSE PROTEIN COMPLEXES FROM PLANT CELL SUSPENSION CULTURES**

D. Eeckhout, J. Van Leene, H. Stals, G. Persiau, G. Van Isterdael, E. Van De Slijke, J. Geerinck, G. Lopes, N. Remmerie, K. Laukens, A. Azmi, A. Pharazijn, H. Van Onckelen, D. Inzé, E. Witters, G. De Jaeger (Gent, Antwerpen, Belgium)

**PROTEOMIC ANALYSIS OF DIFFERENTIAL PROTEIN TRANSLATION IN AN *IN VIVO*-DERIVED BACTERIAL PATHOGEN**

S. Egan, M. Lanigan, G. Beddome, B. Shiell, D. Stewart, J. Vaughan, T. Doran, W.P. Michalski (Geelong, Parkville, VIC, Australia)

**PROTEOMIC ANALYSIS OF WHITE MATTER FROM THE DORSOLATERAL PREFRONTAL CORTEX IN SCHIZOPHRENIA AND BIPOLAR DISORDER**

J.A. English, P. Dicker, K. Pennington, N. O' Donoghue, S.R. Pennington, M.J. Dunn, D.R. Cotter (Dublin, Ireland)

**VIEWING IMAGES AS SPECTRA: A NOVEL APPROACH OF ANALYSING 2DE PROTEOME DATA**

E.M. Færgestad, F. van der Berg, M. Rye, H. Grove, F. Westad, K. Hollung, A.H. Bjerke, H. Martens (Ås, Norway)

**NEUROPEPTIDOMICS: STRATEGIES FOR MORE RELIABLE AND SENSITIVE IDENTIFICATION OF ENDOGENOUS PEPTIDES IN THE BRAIN**

M. Falth, K. Sköld, M. Svensson, A. Nilsson, D. Fenyö, P.E. Andren (Uppsala, Sweden. New York, USA)

**EFFICIENT FRACTIONATION OF MITOCHONDRIA AND PLASMA-MEMBRANE PROTEINS**

C. Feckler, A. Erpenbach, H. Wolgast, P. Porschewski, K. Steinert (Hilden, Germany)

**MASSIVE QUANTIFICATION OF PROTEINS EXPRESSION LEVELS BY DIFFERENTIAL ISOTOPE LABELING IN PROTEOMICS**

J. Fernandez-de-Cossío, L.J. Gonzalez, Y. Satomi, J. Gil, A. Sanchez, L. Betancourt, V. Besada, G. Padrón, T. Takao  
(Havana, Cuba. Osaka, Japan)

**HIGH-SPEED BIOMARKER IDENTIFICATION UTILIZING POROUS SILICON NANOVIOL ARRAYS AND MALDI-TOF MASS SPECTROMETRY**

D. Finnskog, K. Järås, A. Ressine, J. Malm, G. Marko-Varga, H. Lilja, T. Laurell (*Lund, Malmö, Sweden. NY, USA*)

**2D-DIGE AS A SEMI-QUANTITATIVE TOOL FOR ANALYSIS OF BRAIN DEVELOPMENT**

M. Föcking, P.J. Boersema, N. O'Donoghue, S.R. Pennington, D.R. Cotter, M.J. Dunn (*Dublin, Ireland. Utrecht, The Netherlands*)

**MOLECULAR CHARACTERIZATION OF IMATINIB-RESISTANT CML CELL LINES BY PROTEOMIC PROFILING**

S. Fontana, R. Alessandro, M. Barranca, M. Giordano, M. Becchi, I. Zanella-Cleon, G. De Leo (*Palermo, Italia. Lyon, France*)

**ALPHA1-ACID GLYCOPROTEIN POST-TRANSLATIONAL MODIFICATIONS: A COMPARATIVE 2-DE BASED ANALYSIS**

R. Fortin, F. Cecilian, P. Sartorelli, A. Miranda-Ribera, L. Musante, M. Bruschi, G. Candiano, G.F. Greppi, P. Roncada (*Milan, Genova, Italy*)

**MONITORING STRUCTURAL INTEGRITY OF ROTAVIRUS LIKE PARTICLES USING AMIDE HYDROGEN (<sup>1</sup>H/<sup>2</sup>H) EXCHANGE MONITORED BY MASS SPECTROMETRY**

C. Franco, G. da Costa, C. Peixoto, T.J.D. Jørgensen, P. Alves, A.V. Coelho (*Oeiras, Évora, Portugal. Odense, Denmark*)

**DIVERSITY OF *MEDICAGO*-NODULATING RHIZOBIAL STRAINS FROM SOUTHERN PORTUGAL- IDENTIFICATION AND CHARACTERIZATION USING MASS SPECTROMETRY APPROACH**

C. Franco, A.C. Dourado, P. Alves, A.V. Coelho, J. Marques, P. Fareleira, T.M.T. Crespo (*Oeira, Évora, Portugal*)

**PRETERM SERUM INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 4 (IGFBP4) AND ITS PROTEOLYSIS IN RELATION TO BIRTH WEIGHT, GESTATIONAL AGE, SMALL FOR GESTATIONAL AGE (SGA) AND LARGE FOR GESTATIONAL AGE (LGA) SYNDROMES**

A. Gandini, F. Ion Popa, M. Camilot, F. Teofoli, L. Tatò (*Verona, Italy*)

**CELL SURFACE PROTEIN TRAFFICKING IN OVIDUCTAL CELLS IN RESPONSE TO SPERMATOZOA**

A.S. Georgiou, E. Sostaric, A.P.L. Snijders, P.C. Wright, A. Fazeli (*Sheffield, UK*)

**USE OF 2, 5-DIHYDROXYBENZOIC ACID (DHB) INSTEAD OF  $\alpha$ -CYANO-4-HYDROXYCINNAMIC ACID (CHCA) IMPROVES PEPTIDE MASS FINGERPRINTING OF SILVER STAINED PROTEINS**

B. Ghafouri, H. Karlsson, A. Lewander, C. Tagesson, M. Lindahl (*Linköping, Sweden*)

**PROTEOMICS OF RIBOFLAVIN-RESPONSIVE ACYL-COENZYME A DEHYDROGENASE DEFICIENCY**

E. Gianazza, L. Vergani, R. Wait, C. Brizio, D. Brambilla, S. Begum, T.A. Giancaspero, F. Conserva, I. Eberini, D. Bufano, C. Angelini, E. Pegoraro, A. Tramontano, A. Russell, B. Lènger, M. Barile (*Milano, Padova, Bari, Roma, Italy. London, UK. Sion, Switzerland*)

**STRUCTURAL AND FUNCTIONAL ALTERATIONS IN BRAIN MITOCHONDRIA FROM AN ALZHEIMER DISEASE MOUSE MODEL OCCUR BEFORE PLAQUE DEPOSITION**

F. Gillardon, W. Rist, L. Kussmaul, M. Berg, J. Vogel, B. Hengerer (*Biberach an der Riss, Freiburg, Germany. Zürich, Switzerland*)

**PROTEOMIC ANALYSIS OF AUTOANTIBODY REACTIVITY TO NEURAL ANTIGENS IN SERA AND CEREBROSPINAL FLUID OF HASHIMOTO'S ENCEPHALOPATHY PATIENTS**

B. Gini, L. Lovato, R. Cianti, L. Bini, B. Bonetti (*Verona, Siena, Italy*)

**GRAPE BERRY RIPENING: QUALITATIVE AND QUANTITATIVE CHANGES IN PROTEIN PATTERN**

M. Giribaldi, I. Perugini, F.-X. Sauvage, A. Schubert (*Torino; Italy. Montpellier, France*)

**SYNTHESIS AND USE OF NEW CHEMICAL TAGS IN COMBINATION WITH COVALENT CAPTURE AS THE PURIFICATION METHOD**

P. Giron, N. Mihala, K. Rose (*Geneva, Switzerland*)

**PROTEOME ANALYSIS IN WHOLE SALIVA OF PATIENTS AFFECTED BY AUTOIMMUNE RHEUMATOLOGICAL DISORDERS: A STUDY OF SYSTEMIC SCLEROSIS AND PRIMARY SJÖGREN'S SYNDROME**

L. Giusti, C. Baldini, L. Bazzichi, F. Ciregia, I. Tonazzini, G. Mascia, G. Giannaccini, S. Bombardieri, A. Lucacchini (*Pisa, Italy*)

**SPICING UP PROTEOMICS WITH SPLICING**

J. Godovac-Zimmermann (*London, UK*)

**COMPARATIVE ANALYSIS OF SECRETED PROTEINS OF HUMAN PROSTATE AND BLADDER STROMAL MESENCHYME CELLS**

Y. Goo, S. Ryu, L. Walashek, S. Shaffer, A. Liu, D. Goodlett (*Seattle, WA, USA*)

**LARGE-SCALE SHOTGUN SEQUENCING OF CARDIAC VENTRICULAR TISSUE IN MOUSE MODELS OF DILATED CARDIOMYOPATHY**

A.O. Gramolini (*Toronto, Canada*)

**MAPPING THE PROTEOME OF THYLAKOID MEMBRANES BY DE NOVO SEQUENCING OF**

### **INTERMEMBRANE PEPTIDE DOMAINS**

B. Granvogl, V. Reisinger, L.A. Eichacker (*Munich, Germany*)

### **PROTEOMIC ANALYSIS OF IMMUNOGENIC PROTEINS IN XENOGENEIC HEART VALVE BIOSCAFFOLDS**

L.G. Griffiths, E.C. Orton, K.F. Reardon (*Fort Collins, CO, USA*)

### **CHALLENGES RELATED TO ANALYSIS OF PROTEIN SPOT VOLUMES FROM 2-DE, AS REVEALED BY REPLICATE GELS**

H. Grove, K. Hollung, A.K. Uhlen, E.M. Færgestad (*Ås, Norway*)

### **INFLUENCE OF MULTIPURPOSE SOLUTIONS ON THE PROTEIN COMPOSITION OF THE TEAR FILM**

F. Grus, N. Wiegel, N. Pfeiffer (*Mainz, German*)

### **PROTEOMIC PROFILING STUDIES IN GLAUCOMA USING SELDI-TOF AND CLINPROT MAGNETIC BEADS**

F. Grus, L. Hornberger, N. Wiegel, S. Berneiser, U. Thiel, N. Pfeiffer (*Mainz, Germany*)

### **USE OF A NOVEL IONIZATION MODIFIER ALLOWS THE INVESTIGATION OF THE CARBOXY-TERMINUS OF THE AMYLOID PEPTIDE EXCISED FROM SENILE PLAQUES OF HUMAN AND TRANSGENIC MICE**

A. Guentert, B. Bohrmann, H. Döbeli (*Basel, Switzerland*)

### **SIMPLE METHOD FOR PROTEIN ISOLATION FROM A COMPLEX MIXTURE IN VIEW OF IDENTIFICATION BY MASS SPECTROMETRY**

L. Guerrier, L. Lomas, E. Boschetti (*Fremont CA, USA*)

### **SELDI-TOF MASS SPECTROMETRY ALLOWS THE DETECTION OF SERUM MARKERS FOR COLORECTAL CANCER**

J.K. Habermann, U.J. Roblick, B.T. Luke, D.A. Prieto, E. Oevermann, M. Duchrow, T.D. Veenstra, H.-P. Bruch, G. Auer, T. Ried (*Lübeck, Germany. Frederick, MD, USA. Stockholm, Sweden. Bethesda, MD, USA*)

### **PROTEOMICS ANALYSIS UTILIZING MULTI-DIMENSIONAL CHROMATOGRAPHY INTERFACED TO MALDI-TOF/TOF**

S. Hahner, U. Lewandrowski, A. Sickmann, S. Brand, J. Glandorf, W. Jabs, D. Suckau (*Bremen, Germany*)

### **MAJOR PROTEINS OF THE AMYLOPLAST OF AGAR- AND SOIL-GROWN POTATO TUBERS**

S. Hald, A. Blennow, A. Stensballe, G. Bauw, K.G. Welinder (*Aalborg, Frederiksberg C, Denmark*)

### **QUANTIFICATION OF CSF PROTEINS FROM MIGRAINEURS IN THE HEADACHE AND NON-HEADACHE STATES BY MASS SPECTROMETRY**

M. Harrington, M. Scigelova, A.F. Hühmer, R.G. Biringer (*Pasadena, San Jose, CA, USA. Hemel Hempstead, UK*)

### **PROTEOME ANALYSIS OF MOUSE MODELS FOR ALZHEIMER'S DISEASE: APP-TRANS<sup>1</sup>, (APP+PS1)-TRANS<sup>2</sup> AND (PS1+PS2)-CDKO<sup>3</sup> MICE**

D. Hartl, I. Römer, D. Sagi, S. Becker, B. Esch, M. Herrmann, J. Klose (*Berlin, Germany*)

### **DIFFERENTIAL MODIFICATION OF PHOSDUCIN PROTEIN IN DEGENERATING RD1 RETINA IS ASSOCIATED WITH CONSTITUTIVELY ACTIVE CAMKII IN ROD OUTER SEGMENTS**

S.M. Hauck, P. Ekström, P. Ahuja-Jensen, S. Suppmann, F. Paquet-Durand, T. van Veen, M. Ueffing (*Munich-Neuherberg, Germany. Lund, Sweden*)

### **IMMUNOAFFINITY-MASS SPECTROMETRY FOR TARGETED DISEASE MARKER STUDIES**

N.H.H. Heegaard, N. Helena Beyer, D.B. Corlin, J.M. Czarna, J.W. Şen (*Copenhagen, Denmark*)

### **ERBB2 TYROSINE PHOSPHORYLATION: MASS SPECTROMETRY BASED IDENTIFICATION OF BINDING PARTNERS AND THEIR FUNCTIONAL CHARACTERISATION**

C. Heinrich, F. Roux, R. Sack, D. Hess, A. Di Cara, N.E. Hynes, J. Hofsteenge (*Basel, Switzerland*)

### **IDENTIFICATION OF SHORT-LIVED PROTEINS IN *CANDIDA ALBICANS* BY 2D-DIGE ANALYSIS OF PROTEASOME MUTANTS**

M.L. Hernáez, M. Martínez, C. Gil C. Nombela, J. Pla (*Madrid, Spain*)

### **COMPARISON OF DIFFERENT PROTEIN STAINING PROTOCOLS FOR SDS-PAGE OF RECOMBINANT ERYTHROPOIETIN WITH RESPECT TO STAINING SENSITIVITY AND SEQUENCE COVERAGE OF MALDI-BASED PEPTIDE MASS FINGERPRINTING**

J. Hirschmann, M. Marchetti, C. Reichel, G. Allmaier (*Vienna, Austria*)

### **DEEP MINING OF LOW ABUNDANT PROTEINS IN COMPLEX SAMPLES ACHIEVED BY OFFGEL ISOELECTRIC FOCUSING OF TRYPTIC PEPTIDES**

P. Hoerth, C. Wenz, T. Wulff, T. Preckel (*Waldbronn, Germany*)

### **USE OF FREE FLOW ELECTROPHORESIS AND MASS SPECTROMETRY TO INVESTIGATE CHANGES IN PROTEIN EXPRESSION IN BUTYRATE TREATED COLORECTAL CANCER CELLS**

P. Hoffmann, T. Lewanowitsch, L. Cosgrove, T. Lockett, R. Head (*Adelaide, South Australia, Australia*)

**GDNF OVEREXPRESSION-RELATED PROTEOME CHANGES IN DIFFERENTIATING RAT PROGENITOR CELLS ST14A**

R. Hoffrogge, S. Beyer, S. Mikkat, U. Schmitz, E. Mix, A. Rolfs (*Rostock, Germany*)

**2-DE PROTEOME ANALYSIS OF A PROLIFERATING AND DIFFERENTIATING HUMAN NEURAL STEM CELL LINE (RENCELL VM)**

R. Hoffrogge, S. Beyer, S. Mikkat, E. Mix, U. Völker, A. Rolfs (*Rostock, Greifswald, Germany*)

**PROTEOME ANALYSES OF SPRING WHEAT REVEAL DIFFERENT RESPONSES TO AMOUNT OF S-FERTILISER**

K. Hollung, H. Grove, E.M. Færgestad, A.K. Uhlen (*Ås, Norway*)

**THE EuPA WEBSITE**

C. Hoogland, A. Quinn, L. Bini, D. Noukakis, J. Jorin, J.-C. Sanchez (*Geneva, Switzerland. Cambridge, UK., Siena, Italy, Cordoba, Spain*)

**iTRAQ BASED QUANTITATION ON A LINEAR ION TRAP MASS SPECTROMETER UTILIZING PQD, A NOVEL ION ACTIVATION TECHNIQUE**

M.P. Hornshaw, K.W. Li, T. Zhang, R. Kiyonami, S. Spijker, R. van der Schors, A.B Smit (*Hemel Hempstead, UK. Amsterdam, Netherlands. San Jose, CA, USA*)

**USE OF Cy5 TAGGED pI-MARKERS FOR PRECISE pI DETERMINATION OF PEPTIDES**

L. Hörnsten, K. Uhlén, B. Bjellqvist (*Uppsala, Sweden*)

**EFFECTS OF IMATINIB MESYLATE ON CHRONIC MYELOGENOUS LEUKEMIA DERIVED CELLS JURL-MK1**

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

**ENHANCED GENOME ANNOTATION BY HIGH-THROUGHPUT MASS SPECTROMETRY USING ETD BASED PEPTIDE IDENTIFICATION**

A.F.R. Hühmer, Z. Hao, R. Biringer, A. Fonteh, M. Harrington (*Pasadena, San Jose, CA, USA*)

**RAPID IDENTIFICATION OF A NOVEL PHOSPHORYLATION SITE USING THE MALDI-TOF/TOF TECHNOLOGY**

M. Innocenti, L.B. Areces (*Frankfurt, Germany. Milan, Italy*)

**USING CHARGE-DIRECTED FRAGMENTATION FOR DATABASE SEARCHING WITH NON-TRYPTIC PEPTIDES OF MEMBRANE PROTEINS FROM LEUKAEMIA CELLS**

M. Jansson, C. Lassen, P. James (*Lund, Sweden*)

**LABELFREE MICROARRAY DETECTION OF PSA ON POROUS SILICON FOR CLINICAL AND CELL LINE APPLICATIONS**

K. Järås, A. Ressine, E. Nilsson, J. Malm, G. Marko-Varga, H. Lilja, T. Laurell (*Malmö, Lund, Sweden. NewYork, NY, USA*)

**USE OF MULTIVARIATE ANALYSIS IN THE TRANSFORMATION OF 2D GEL IMAGES INTO RELEVANT SPOT QUANTITY DATA**

K.N. Jensen, I. Søndergaard, S. Jacobsen, B.M. Jørgensen, F. Jessen (*Lyngby, Denmark*)

**CHANGES IN ENZYMES ASSOCIATED WITH ENERGY METABOLISM IN BOVINE MUSCLE PRE AND POST MORTEM ANALYZED BY PROTEOMICS**

X. Jia, K. I. Hildrum, F. Westad, E. Kummen, L. Aass, K. Hollung (*Ås, Øyer, Norway*)

**ALKALINE EXTRACTION OF HUMAN PLASMA PROTEINS FROM A NON-DENATURING MICRO TWO-DIMENSIONAL GEL FOR PROTEIN/POLYPEPTIDE MASS MEASUREMENT AND PEPTIDE MASS FINGERPRINTING USING MALDI-TOF MS**

Y. Jin, T. Manabe (*Matsuyama, Japan*)

**DIRECT TARGETING OF HUMAN PLASMA FOR MATRIX-ASSISTED LASER DESORPTION/IONIZATION AND ANALYSIS OF PLASMA PROTEINS BY TIME OF FLIGHT MASS SPECTROMETRY**

Y. Jin, T. Manabe (*Matsuyama, Japan*)

**ANTIBODY PROFILE ANALYSIS VIA WESTERN BLOT AND PROTEIN-CHIP METHODS IN A RETINAL GANGLION CELL DEGENERATION ANIMAL MODEL**

S.C. Joachim, D. Kraft, N. Pfeiffer, M. B. Wax, F.H. Grus (*Mainz, Germany. Fort Worth, Texas, USA*)

**THE EXTERNAL PROTEOME OF *H. CAPSULATUM*: A SEARCH FOR THE PATHOSOME**

C.H. Johnson, V. Krufft, D. Merkel, C. Lichty<sup>1</sup>, K. Raney, A.M. Galuszka, J.E. McEwen (*Little Rock, AR., USA. Darmstadt, Germany*)

**IMMUNOMODULATORY COMPOUNDS IN MARSUPIAL MILK**

J.L. Joss, M.P. Molloy, L.A. Hinds, E.M. Deane (*Sydney, Canberra, Australia*)

**EXPLORING THE ROLE OF PTMS IN MITOCHONDRIA: LINKING PROTEOMICS AND FUNCTION**

L.A. Kane, C.K Yung, Y. Guo, G. Agnetti, S. Sheng, M. Youngman, R. Jensen, I. Neverova, J.E. Van Eyk (USA, Bologna, Italy)

**OPTIMISATION OF HUMAN PLASMA SAMPLE PREPARATION USING IMMUNODEPLETION AND DIGE FOR BIOMARKER DISCOVERY**

A. Khan, J. Soon, A. Kapur, M.P. Molloy, M.S. Baker (Sydney, NSW, Australia)

**GLOBAL SURVEY OF ORGANE AND ORGANELLE PROTEIN EXPRESSION IN MOUSE: COMBINED PROTEOMIC AND TRANSCRIPTOMIC PROFILIN**

T. Kislinger, B. Cox, A. Kannan, C. Chung, P. Hu, A. Ignatchenko, M.S. Scott, A.O. Gramolini, Q. Morris, M.T. Hallett, J. Rossant, T.R. Hughes, B. Frey, A. Emili (Toronto, ON; Montreal, QC, Canada)

**TWO-DIMENSIONAL GEL ELECTROPHORESIS OF LOW ABUNDANCE PROTEINS**

A. Klaus, C. Lück, F. Weiland, A. Görg (Freising-Weihenstephan, Germany)

**IDENTIFICATION OF PROTEIN-PROTEIN INTERACTIONS OF p101 (REGULATORY SUBUNIT OF PI3K $\gamma$ ) USING FREE FLOW ELECTROPHORESIS AND MASS SPECTROMETRY**

M. Klingler-Hoffmann, J. Brazzatti, E. Procko, A. C. Caon, P. Hoffmann, S. R. McColl (Adelaide, Australia)

**MICROFLUIDIC DEVICES FOR PROTEOMIC ANALYSIS**

D.R. Knapp, J. Liu, K.W. Ro, and R. Nayak (Charleston, SC, USA)

**GLYCO-PROTEOMICS OF YELLOW JACKET VENOM ALLERGENS**

D. Kolarich, A. Loos, R. Léonard, L. Mach, W. Hemmer, F. Altmann (Vienna, Austria)

**PROTEOME BIOINFORMATICS PROJECT AT NATIONAL CANCER CENTER RESEARCH INSTITUTE**

T. Kondo, K. Fujii, H. Hatakeyama, S. Hirohashi (Tokyo, Japan)

**DEVELOPMENT OF QUANTITATIVE PROTEIN DETECTION ARRAYS FOR SYSTEMS BIOLOGY**

U. Korf, F. Henjes, S. Schuhmacher, A. Tresch, S. Derdak, T. Beissbarth, U. Klingmüller, A. Poustka (Heidelberg, Germany)

**DEPLETION OF ZONA PELLUCIDA PROTEINS FROM OOCYTES FOR IMPROVEMENT OF PROTEOMIC ANALYSES**

E. Kronusová, P. Halada, H. Kovarova (Libechov, Prague, Czech Republic)

**QUANTITATIVE ANALYSIS OF *ARABIDOPSIS THALIANA* PLASMA MEMBRANE PROTEINS USING <sup>15</sup>N-METABOLIC LABELING**

L. Kuhn, V. Lanquar, F. Lelièvre, C. Bruley; C. Espagne, H. Barbier-Brygoo, S. Thomine, J. Garin (Grenoble, Gif-sur-Yvette, France)

**META-PROTEOMIC ANALYSIS OF THE CADMIUM STRESS RESPONSE OF A MICROBIAL COMMUNITY**

C.M.R. Lacerda, K.F. Reardon (Fort Collins, CO, USA)

**MERCATOR™ MULTIPLEX PHOSPHOANTIBODY-BASED ARRAY: A NOVEL QUANTITATIVE MULTIPLEXING PLATFORM FOR PHOSPHOPROTEOMIC APPLICATIONS**

M. Lakkis; J. Knowles; E. Schaefer (Hopkinton, MA, USA)

**THE PROTICDB DATABASE FOR 2-DE PROTEOMICS**

O. Langella, H. Denos, T. Leboucher, M. Zivy, J. Joets (Gif-sur-Yvette, France)

**PROTEOMIC SAMPLE PREPARATION: ANALYZING PROTEINS FROM WHOLE BLOOD**

J.T. Lathrop, D.J. Hammond (Rockville, MD, USA)

**SERUM PROTEOME ANALYSIS USING OFF-GEL ELECTROPHORESIS AND MALDI TOF/TOF MASS SPECTROMETRY**

H. Lee, R. Ossola, B. Casado, J. Malmström, R. Aebersold (Zürich, Switzerland)

**IDENTIFICATION OF EARLY EXPRESSED BIOMARKERS FOR MACULAR TELANGIECTASIA**

A.C.L. Len, M.S. Baker, M. Gillies (Sydney, NSW, Australia)

**SHOTGUN PROTEOMICS OF DNA-BINDING PROTEINS WITH ISOELECTRIC FOCUSING LC-MS/MS**

J. Lengqvist, R. Lewensohn, H. Jörnvall, J. Lehtiö (SE, KI, Sweden)

**KEEPING TRACK OF GEL-BASED PROTEOMICS EXPERIMENTS USING THE OPEN-SOURCE SOFTWARE PROTEIOS**

F. Levander, M. Krogh, K. Wårell, P. Gärdén, P. James, J. Häkkinen (Lund, Sweden)

**IDENTIFICATION OF PEPTIDES IN URINE OF COPD PATIENTS**

C. Lindberg, S. Shaker, G. Marko-Varga, J. Griffin, S. Kjellström, T.E. Fehniger, P. Broberg, J. Mo, K. Forsman-Semb, H. Vissing, I. Groth Clausen, M. Dahlbäck, A. Dirksen (Hellerup, Denmark, Lund, Sweden)

**PROTEOME ANALYSIS OF MITOCHONDRIA IN ADIPOSE TISSUES OF BARIATRIC PATIENTS: IDENTIFICATION OF RISK FACTORS AND/OR PREDICTORS FOR THE TREATMENT OUTCOME**

P. Lindinger, A.N. Eberle, R. Peterli, T. Peters, S. Hoving, H. Voshol, I. Fearnley, J.E. Walker (Basel, Switzerland, Cambridge, UK)

**CONIFER DEFENSE AGAINST INSECTS: PROTEOME ANALYSIS OF SITKA SPRUCE (*PICEA SITCHENSIS*) INDUCED BY MECHANICAL WOUNDING OR FEEDING BY WHITE PINE WEEVILS (*PISSODES STROBI*)**  
D. Lippert, S. Chowrira, S.G. Ralph, D. Aeschliman, J. Zhuang, C. Ritland, K. Ritland, J. Bohlmann (*Vancouver, Canada*)

**DATA MANAGEMENT WITH IDQUEST IN A PROTEOME LABORATORY**  
G. Lochnit, M. Pekelis, B. McGlothlen (*Giessen, Germany. Hercules, CA, USA*)

**REVERSE PHASE PROTEIN ARRAYS AS TOOL FOR PROTEIN QUANTIFICATION**  
C. Loebke, C. Schmidt, H. Sueltmann, U. Korf, A. Poustka (*Heidelberg, Germany*)

**A NEW METHOD FOR GENERATING QUANTITATIVE AND REPRODUCIBLE DATA USING LASER-DESORPTION/IONIZATION MASS SPECTROMETRY**  
L. Lomas, E. Fung, E. Boschetti (*Fremont, CA, USA*)

**DEVELOPMENT OF A PROTEOMIC-BASED BIOMARKER PANEL THAT MAY AID IN THE STRATIFICATION OF WOMEN WITH A PELVIC MASS**  
L. Lomas, E. Fung, E. Boschetti (*Fremont, CA, USA*)

**PROTEOMIC ANALYSIS OF THE KIDNEY IN RAT BILIARY CIRRHOSIS**  
J.A. López, E. García-Navarro, E. Camafeita, N.M. Atucha, M. C. Ortiz, J. García-Estañ (*Madrid; Murcia, Spain*)

**DIFFERENTIAL PROTEOME ANALYSIS OF *C. GLUTAMICUM* WILDTYPE VS. OVEREXPRESSION MUTANTS AND PROTEOMIC PROFILING AFTER GROWTH ON DIFFERENT CARBON SOURCES**  
C. Lück, F. Weiland, A. Klaus, A. Görg (*Freising, Germany*)

**FAST SELECTION OF THE BEST - SPECIFICITY ANALYSIS OF THERAPEUTIC PROTEINS WITH PROTEIN BIOCHIPS**  
A. Lueking, C. Gutjahr, K. Schulte, V. Gruß, H.E. Meyer, C. Huels, S. Muellner (*Dortmund, Bochum, Germany*)

**HUMAN CD4<sup>+</sup>CD25<sup>+</sup> REGULATORY T CELLS EXPRESS GALECTIN-10, ESSENTIAL FOR THEIR ANERGIC STATE AND SUPPRESSIVE CAPACITY**  
P. Lutter, J. Kubach, C. Richter, C. Becker, E. Huter, S. Stoll, T. Bopp, M. Milo, A. Dommermuth, E. Schwitulla, S. Bailey, A. Tuettenberg, J. Knop, J. Wijdenes, S. Müllner, E. Schmitt, H. Jonuleit (*Dortmund, Mainz, Heidelberg, Germany. Besançon, France*)

**COMPARISON OF IMMUNOAFFINITY DEPLETION DEVICES FOR HUMAN SERUM FOR PROTEOME ANALYSIS**  
P. Lutter, E. Schwitulla, B. Korte, S. Felske-Mueller, A. Dommermuth, A. Wattenberg, S. Muellner (*Dortmund, Germany*)

**CELL SIGNALLING ANTIBODY MICROARRAY FOR BIOMARKER DISCOVERY IN COLORECTAL CANCER**  
J. Madoz-Gúrpide, F. Fernandez-Carbonie, J.I. Casal (*Madrid, Spain*)

**UNIQUE SPOT IDENTIFIERS FOR INDEPENDENT REPLICATES OF 2D-GEL DIGE EXPERIMENTS**  
L. Magnoni, S. Matteoni, R. Raggiaschi, G.C. Terstappen, A. Kremer (*Siena, Italy*)

**ASSIGNMENT OF HUMAN PLASMA POLYPEPTIDES ON A NON-DENATURING TWO-DIMENSIONAL GEL USING MALDI-MS AND PEPTIDE MASS FINGERPRINTING, COMPARISONS WITH THE RESULTS OF INTACT PROTEIN MAPPING**  
T. Manabe, Y. Jin, O. Tani (*Matsuyama, Japan*)

**EST DATABASES FOR MASS SPECTROMETRIC-BASED PROTEIN IDENTIFICATION – REQUIREMENT OF PSD AND CID (MS/MS) EXPERIMENTS FOR SUCCESSFUL IDENTIFICATION OF A PLANT DEFENSE ELICITOR**  
M. Marchetti, V. Seidl, R. Schandl, C. Kubicek, G. Allmaier (*Vienna, Austria*)

**A NEW IMAGING PLATFORM FOR FLUORESCENCE BASED QUANTITATIVE ANALYSIS**  
R. Marouga (*Uppsala, Sweden*)

**NEW APPROACH TO STUDY YEAST SURFACE PROTEINS**  
M. Martínez-Gomariz, M.L. Hernáez, P. Ximénez-Embún, M.D. Gutiérrez, C. Gil (*Madrid, Spain*)

**THE CELL WALL MUTANT  $\Delta$ ECM33 AS A GOOD CANDIDATE FOR A *CANDIDA ALBICANS* VACCINE**  
R. Martínez-Lopez, L. Monteoliva, R. Díez-Orejas, C. Nombela, C. Gil (*Madrid, Spain*)

**PROTEOMIC AND FUNCTIONAL ANALYSIS OF TYROSINE PHOSPHORYLATED RED CELL MEMBRANE PROTEINS IN MOUSE LACKING Src-FAMILY- KINASES**  
A. Matte, F. Carta, F. Turrini, F. Morandini, G. Berton, A. Siciliano, C. Lowell, R. Corrocher, L. De Franceschi (*Verona, Alghero, Torino, Italy. San Francisco, CA, USA*)

**EFFICIENT ENRICHMENT AND PROTEOME ANALYSIS OF INTEGRAL PLASMA MEMBRANE PROTEINS OF MYCOBACTERIA**

J. Mattow, F. Siejak, U.E. Schaible, K. Hagens, F. Schmidt, C. Köhler, A. Treumann, S.H.E. Kaufmann  
(Berlin, Germany. London, UK. Oslo, Norway. Dublin, Ireland)

**DIFFERENTIAL PROTEOME ANALYSIS OF AN UBB<sup>+1</sup> TRANSGENIC MOUSE MODEL FOR ALZHEIMER'S DISEASE**

C. May, F.W. Van Leeuwen, M. Irmeler, J. Beckers, H.E. Meyer, K. Marcus (Bochum, Munich, Germany. Amsterdam, The Netherlands)

**PROTEOMICS OF ISOLATED GLOMERULI REVEALS NOVEL PROTEINS LINKED TO PUROMYCIN AMINONUCLEOSIDE INDUCED GLOMERULAR INJURY**

C. Mayrhofer, S. Krieger, M. Chang, D. Kerjaschki, G. Allmaier (Vienna, Austria)

**DEVELOPMENT OF MRM ASSAYS FOR MONITORING RESPONSE TO CHEMOTHERAPY IN COLORECTAL CANCER PATIENTS**

M. McKay, M.S. Baker, S.J. Clarke, M.P. Molloy (Sydney, Australia)

**PROTEIN AND METABOLITE PROFILING OF CEREBROSPINAL FLUID AND SERUM FOR POTENTIAL MARKERS FOR SCHIZOPHRENIA**

T. McKenna, H. Major, C. Hughes, J.P.C. Vissers, J.T.-J. Huang, E. Schwarz, S. Nahnsen, S. Bahn, J. Langridge  
(Manchester, Cambridge, UK)

**PROTEOME ANALYSIS OF SPINAL CORD PROTEINS REVEALS MOLECULAR DIFFERENCES IN MOUSE STRAINS WITH DISPARATE SUSCEPTIBILITY TO EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS**

S. Mikkat, P. Lorenz, M.O. Glocker, S. Ibrahim (Rostock, Germany)

**OPTIMIZATION OF PARAMETERS FOR PERFORMING ELECTRON TRANSFER DISSOCIATION ON 2-DIMENSIONAL LINEAR ION TRAPS**

K. Miller, J.C. Schwartz, Z. Hao, A.F. Huhmer, J.E. P. Syka, J.J. Coon (San Jose, CA, Madison, WI, USA)

**HOW VARIABLE IS THE PATTERN OF A COMPLEX SAMPLE LIKE SERUM WHEN USING DIFFERENT STAINS?**

I. Miller, J. Crawford, E. Gianazza (Vienna, Austria. Newcastle-upon-Tyne, UK. Milano, Italy)

**IDENTIFICATION AND QUANTITATION OF ISOBARICALLY LABELED PROTEINS. A COMPARISON OF SEPARATION STRATEGIES**

M. Minkoff, P. Ulintz, R. Marks, P. Andrews, M. Willetts (Framingham, MA; Ann Arbor, MI, USA)

**PROTEIN EXPRESSION CHANGES ASSOCIATED WITH CONSOLIDATION SPATIAL MEMORY USING TWO DIMENSIONAL ELECTROPHORESIS**

M. Monopoli, S. Pennington, M.J. Dunn, K.J. Murphy (Dublin, Ireland)

**TWO-DIMENSIONAL DIFFERENCE GEL ELECTROPHORESIS ANALYSIS OF CANDIDA ALBICANS YEAST-TO-HYPHA TRANSITION**

L. Monteoliva, A. Pitarch., C. Nombela, J.P. Albar and C. Gil (Madrid, Spain)

**INFLAMMATORY BOWEL DISEASE (IBD): BIOMARKERS IDENTIFICATION BY PROTEOMIC APPROACH**

M. Moriggi, L. Pastorelli, A. Viganò, G. Borsi, M. Vecchi, C. Gelfi (Milan, Italy)

**SELECTIVE SOLID PHASE EXTRACTION FOR DIRECT MALDI-TOF MS PROFILING OF SERUM PROTEINS**

P. Nanni, D. Parisi, M. Casale, G. Roda, F. Tonon, A. Belluzzi, E. Roda, A. Roda (Bologna, Genoa, Italy)

**IDENTIFICATION OF PLASMA PROTEINS USING IN-SOLUTION ISOELECTRIC FOCUSING ON THE PEPTIDE LEVEL**

M. Nissum, R. Wildgruber, G. Weber, C. Eckerskorn (Martinsried, Germany)

**A PROTEOMIC ANALYSIS TO FIND BIOMARKERS FOR EARLY DETECTION OF ASBESTOS-RELATED LUNG DISEASES**

T.A. Nyman, A. Puustinen, N. Ahonen, M. Huuskonen, T. Toljamo, K. Vuopala, S. Anttila (Helsinki, Rovaniemi, Finland)

**SEARCH FOR PROTEIN OVEREXPRESSION IN MICRO-ORGANISMS USING PROTEOMICS TOOLS**

M.M.A. Olsthoorn, R.A.M. van der Hoeven, P. Klaassen, M. Akeroyd, D.A.M. Gutker-Vermaas, W. Plugge, T.J. Wenzel, A.A. van Dijk, M.W.E.M. van Tilborg (Delft, The Netherlands)

**ISOLATION OF PLASMA MICROPARTICLES FOR PROTEIN MARKER DISCOVERY**

O. Østergaard, N. Heegaard (Copenhagen, Denmark)

**2-NITROBENZENESULFENYL CHLORIDE (NBS) BASED QUANTITATIVE PROTEOME STUDY ON TAMOXIFEN INDUCED PROTEIN ALTERATION IN MCF-7 CELLS**

K. Ou, D. Kesuma, K. Ganesan, S.Y. Soon, S.Y. Lee, X.P. Goh, M. Hooi, W. Chen, H. Jikuya, T. Ichikawa, H. Kuyama, E. Matsuo, O. Nishimura, P. Tan (Singapore, Japan)

**THE PHOSPHORYLATION OF SUBUNITS OF ASSEMBLED COMPLEX I FROM BOVINE HEART MITOCHONDRIA**

G. Palmisano, M.R. Larsen, S. Papa (*Bari, Italy. Odense M, Denmark*)

**IDENTIFICATION OF BIOMARKERS OF TSE PATHOGENESIS USING A MOUSE MODEL**

V. Patel, H. Lu, M. Ward, S. Whatley (*London, UK*)

**DORSOLATERAL PREFRONTAL CORTEX PROTEIN EXPRESSION IN SCHIZOPHRENIA AND BIPOLAR DISORDER: EVIDENCE FOR SYNAPTIC AND CYTOSKELETAL DYSFUNCTION**

K. Pennington, C. Beasley, J. English, A. Fagan, P. Dicker, L. Hudson, M. Dunn, D. Cotter (*Dublin, Ireland. British Columbia, Canada*)

**PROTEOMIC PROFILING OF BLAST CELLS FROM PATIENTS WITH ACUTE MYELOID LEUKAEMIA, A RETROSPECTIVE STUDY**

M. Pernemalm, J. Forshed, SC Tan, L. Stenke, Y Pawitan, R Lewensohn, L Kanter, J Lehtiö (*Stockholm, Sweden*)

**IDENTIFICATION OF SERUM LOW MOLECULAR WEIGHT PROTEINS MARKEDLY OVER-EXPRESSED IN END STAGE RENAL DISEASE PATIENTS**

F. Piccolomini, E. Donadio, A. Felicioli, L. Bini, R. Cianti, V. Pallini, E. Balestreri, M. Ardini, R. Felicioli, C. Donadio (*Pisa, Siena, Italy*)

**EFFECTS OF THE INCUBATION *IN VITRO* WITH SORBENTS ON SERUM PROTEOMIC PATTERN AND CYTOKINES CONCENTRATION IN CANCER PATIENTS DURING CHEMOTHERAPY**

F. Piccolomini, M.L. Wratten, L. Sereni, E. Balestreri, E. Donadio, A. Felicioli, R. Felicioli, C. Donadio (*Pisa, Mirandola, Italy*)

**COMPARATIVE DIGE ANALYSIS OF THE OLFACTORY PROTEOME TO OBTAIN NEW INSIGHT INTO STIMULUS-INDUCED PLASTICITY OF SENSORY NEURONS IN *MUS MUSCULUS***

H. Piechura, J. Barbour, E.M. Neuhaus, H. Hatt, H.E. Meyer, B. Warscheid (*Bochum, Germany*)

**NOVEL WORKFLOW FOR THE INVESTIGATION OF THE PLASMA PROTEOME STATISTICAL ASPECTS OF THE UTILIZATION OF ITRAQ™ IN COMBINATION WITH DEPLETION COLUMNS**

J. Pieh, A. Walijew, S. Beyer, M. Glückmann, V. Kruff, P.-J. Kramer, M. Kröger (*Darmstadt, Germany*)

**DECODING SEROLOGICAL RESPONSE TO *CANDIDA* CELL WALL IMMUNOME INTO NEW DIAGNOSTIC, PROGNOSTIC AND THERAPEUTIC CANDIDATES FOR SYSTEMIC CANDIDIASIS**

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

**COMBINATION OF CHEMICAL CROSS-LINKING AND FT-MS FOR THE STRUCTURAL CHARACTERIZATION OF HUMAN AND RAT CD69 MOLECULE**

P. Pompach, P. Novak, D. Kavan, P. Man, V. Havlicek, K. Bezouska (*Prague, Czech Republic*)

**A PROTEOMIC PROFILE OF BRCA1 KNOCKDOWN IN A BREAST CANCER CELL LINE**

J.E. Prime, C.J. Lord, A. Lau, A. Ashworth, M.J. O'Connor (*Cambridge, London, UK*)

**EVALUATION OF FLUORESCENT AND TRADITIONAL STAINING METHODS APPLIED TO RENAL CORTEX PROTEOME**

V. Proserpio, C. Sarto, M. Soldi, M. Brambilla, R. Perego, F. Magni, F. Raimondo, E. Fasoli, F. Rocco, P. Mocarelli (*Desio, Monza, Milano, Italy*)

**USING A PROTEOMIC APPROACH TO UNDERSTAND TITIN'S M-LINE FUNCTION IN CARDIAC HYPERTROPHY**

K. Raddatz, J. Peng, D. Albrecht, J.D. Molkenin, H. Granzier, M. Gotthardt (*Berlin, Greifswald, Germany. Pullman, WA; Cincinnati, OH, USA*)

**IDENTIFICATION OF PROTEINS ASSOCIATED WITH CLUSTERING OF COLLAGEN RECEPTOR ALPHA2BETA1 INTEGRIN**

P. Rappu, M. Mattila, P. Kankaanpää, J. Heino (*Turku, Finland*)

**STRESS RESPONSE IN *DESULFOVIBRIO VULGARIS* HILDENBOROUGH: A PROTEOMICS APPROACH**

A.M. Redding, A. Mukhopadhyay, C.J. Petzold, A. Gilman, D. Joyner, T.C. Hazen, J.D. Keasling (*Berkeley, CA, USA*)

**A PROTEOMIC STRATEGY FOR BIOMARKER DISCOVERY AND ITS APPLICATION TO ANNUAL RYEGRASS TOXICITY**

M.A.S. Retallick, A. Bacic, S.M. Colegate, W.P. Michalski (*Geelong, Parkville, VIC, Australia*)

**PROTEINS INVOLVED IN APOPTOSIS AND OXIDATIVE STRESS ARE DIFFERENTIALLY EXPRESSED IN METHYLMALONIC ACIDEMIA PATIENTS**

E. Richard, L. Monteoliva, S. Suarez, B. Pérez, L.R. Desviat, M. Ugarte, J.P. Albar (*Madrid, Spain*)

**PROTEIN EXPRESSION PROFILES OF MUSCLE TISSUE AND OF PRIMARY MYOCTES IN MITOCHONDRIAL MYOPATHY PATIENTS**

M. Ripamonti, A. Viganò, M. Moriggi, D. Capitano, S. De Palma, L. Morandi, M. Mora, R. Wait, C. Gelfi (*Milano, Italy. London, UK*)



**SURFACE PROTEOME VARIABILITY AMONG DIFFERENT ISOLATES OF GROUP A *STREPTOCOCCUS***

M.J. Rodríguez-Ortega, S. Capo, G. Bensi, F. Doro, J.L. Telford, N. Norais, G. Grandi (*Siena, Italy*)

**A 2DE APPROACH TO INVESTIGATE CO<sub>2</sub> METABOLISM OF *STREPTOCOCCUS THERMOPHILUS***

P. Roncada, A. Crippa, S. Arioli, S. Corona, G.F. Greppi, D. Mora (*Milan, Pavia, Italy*)

**E-PROXEMIS : A BIOINFORMATICS LEARNING PORTAL FOR PROTEOMICS**

G. Rossier, F. Lisacek, R. D. Appel (*Geneva, Switzerland*)

**STUDY ERBB2 SIGNALLING USING A MASS SPECTROMETRY METHOD COMBINING METABOLIC LABELLING AND MULTIPLE REACTION MONITORING**

F. Roux, A. Di Cara, R. Sack, D. Hess, C. Heinrich, R. Portmann, N.E. Hynes, J. Hofsteenge (*Basel, Switzerland*)

**PROTEOMIC DIFFERENTIAL EXPRESSION ANALYSIS OF OSTEOARTHRITIS-RELATED PROTEINS IN HUMAN ARTICULAR CHONDROCYTES**

C. Ruiz-Romero, M.J. López-Armada, V. Carreira, M.C. Fernández, F.J. Blanco (*La Coruña, Spain*)

**AUTOMATIC SPOT CLASSIFICATION IN 2DE GEL ANALYSIS**

M. Rye (*Trondheim, Norway*)

**A NEW TOOL FOR 2DE-FREE QUANTITATIVE PROTEOMICS: SELECTIVE ISOLATION OF LYSINE-FREE TRYPTIC PEPTIDES DELIMITED BY ARGININE RESIDUES**

A Sánchez, L.J. González, Y. Ramos, L. Betancourt, J. Gil, V. Besada, J. Fernández-de-Cossio, F. Alvarez, G. Padrón (*Havana, Cuba*)

**2DE-FREE QUANTITATIVE PROTEOMICS BY USING THE SELECTIVE ISOLATION OF MULTIPLY-CHARGED PEPTIDES**

A. Sánchez, L.J. González, L. Betancourt, J. Gil, V. Besada, J. Fernández-de-Cossio, F. Alvarez, G. Padrón (*Havana, Cuba*)

**SERUM PROTEOMIC ANALYSIS OF SCLERODERMA PATIENTS**

C. Scambi, G. Barausse, A. Biondani, F. Poli, S. Crobu, I. Zarina, F. Deriu, P. Roncada, L.M. Barbara (*Verona, Milano, Italy*)

**EXPLORING CELL SURFACE PROTEOMES – SPECIFIC IDENTIFICATION AND QUANTIFICATION OF DROSOPHILA PLASMA MEMBRANE GLYCOPROTEINS VIA MASS SPECTROMETRY**

R. Schiess, L. Müller, M. Müller, B. Wollscheid, J. Watts, R. Aebersold (*Zurich, Switzerland. Seattle, WA, USA*)

**NEW FLUORESCENCE DYES FOR PROTEIN GEL STAINS**

B. Schönenberger, P. Nording, S. Yarmoluk, A. Rück, M. Bäuml, F. Wahl (*Buchs, Switzerland. Kiev, Ukraine*)

**THE *C. ELEGANS* COMPREHENSIVE PROTEOME INITIATIVE: GENERATION OF A COMPREHENSIVE, OPEN-ACCESS DATABASE OF THE *C. ELEGANS* PROTEOME**

S.P. Schimpf, M. Jovanovic, L. Reiter, J. Malmström, F. Potthast, E. Brunner, R. Aebersold, M.O. Hengartner (*Zurich, Switzerland*)

**ALZHEIMER'S DISEASE – DIFFERENTIAL ANALYSIS OF MODIFIED PROTEINS IN AN UBB<sup>+1</sup> TRANSGENIC MOUSE WITH ENDOGENOUS PROTEASOME INHIBITION**

T. Schulenberg, F.W. van Leeuwen, H.E. Meyer, K. Marcus (*Bochum, Germany. Amsterdam, The Netherlands*)

**PROTEOMIC ANALYSIS OF HUMAN SPERM MEMBRANE MICRODOMAINS**

F. Secciani, L. Bianchi, L. Ermini, A. Armini, R. Focarelli, F. Rosati, L. Bini (*Siena, Italy*)

**PROTEOME-BASED ANALYSIS OF T CELL EPITOPES AND T CELL RESPONSES BY PROTEOME-BASED ANALYSIS**

B. Seliger, R. Lichtenfels, S. Dressler, K. Kronfeld, J. Bukur, S. Stevanovich (*Tuebingen, Germany*)

**DISCOVERY AND VERIFICATION OF EARLY STAGE BIOMARKERS FOR METASTATIC LUNG CANCER USING ITRAQ<sup>TM</sup> REAGENTS AND MULTIPLEXED MRM ASSAYS**

T. Settineri, K. Chisholm, Y. Xu, M. Alaoui-Jamali, D. Pinto (*Foster City, CA, USA. Halifax, Montreal, Canada*)

**OPTIMISATION OF SECOND DIMENSION GRADIENTS FOR 2D-PAGE ANALYSIS OF HUMAN PLASMA**

J. Shaw, R. Tonge (*Macclesfield, Cheshire, UK*)

**LARGE-SCALE QUANTITATIVE PROTEOMIC ANALYSIS OF MOUSE EMBRYONIC STEM CELLS: 2D-LC PROTEIN SEPARATION (PF2D), IDENTIFICATION, ITRAQ QUANTITATION AND WHOLE MASS DETERMINATION**

S. Sheng, S. Elliott, D. Chen, M. Gucek, R. Cole, D. Crider, Y. Tarasova, A. Olsson, O. Forsstrom-Olsson, K. Boheler, J. Van Eyk (*Baltimore, MD, USA. Lund, Sweden*)

**COMPREHENSIVE APPROACHES FOR GENERATION AND EVALUATION OF ANTI-MKIAA ANTIBODIES**

K. Shimada, M. Nagano, M. Murakami, K. Usui-Aoki, K. Imai, S. Yuasa, S. Inamoto, R. Ohara, R. Kikuno, N. Okazaki, T. Nagase, O. Ohara, H. Koga (*Chiba, Tokyo, Kanagawa, Japan*)

**USING TWO-DIMENSIONAL LIQUID SEPARATION OF PROTEINS TO MONITORE DEVELOPMENT OF RESISTANCE TO CYCLIN-DEPENDENT KINASES INHIBITION**

H. Skalnikova, P. Halada, P. Novak, M. Hajduch, J. Moos, V. Filova, H. Kovarova (*Libechov, Prague, Olomouc, Czech Republic*)

**THE SIGNIFICANCE OF MOLECULAR SAMPLE INTEGRITY IN BRAIN PROTEOMICS AND PEPTIDOMICS: PEPTIDES AS SAMPLE QUALITY INDICATORS**

K. Sköld, M. Svensson, P. Svenningsson, P.E. Andrén (*Uppsala, Stockholm, Sweden*)

**APPLICATIONS OF PRESSURE CYCLING TECHNOLOGY (PCT) TO SAMPLE PREPARATION FOR TWO-DIMENSIONAL GEL ELECTROPHORESIS**

G.B. Smejkal (*Woburn, MA, USA*)

**PROTEINS ASSOCIATED WITH CISPLATIN RESISTANCE IDENTIFIED USING 2D GEL ELECTROPHORESIS AND MALDI-TOF MASS SPECTROMETRY**

L. Smith, M.B. Watson, K.J. Welham, M.J. Lind, L. Cawkwell (*Hull, UK*)

**NOVEL ANTIBODY MICROARRAY TECHNOLOGY IN THE ANALYSIS OF DOXORUBICIN-RESISTANT BREAST CANCER CELLS**

L. Smith, S.L. O'Kane, M.B. Watson, M.J. Lind, L. Cawkwell (*Hull, UK*)

**VARIANCE WITHIN GEL-BASED MULTI-FLUORESCENT LABELLING EXPERIMENTS OBSERVED WITH DIFFERENT 2-D ANALYSIS SOFTWARE**

W.-D. Stalz, M. Pekelis, C. Schultz (*Hercules, CA, USA*)

**ELABORATION OF AN AUTOMATED REPROCESSING PIPELINE FOR ANALYSING HETEROGENIC DATA OF THE HUPO BRAIN PROTEOME PROJECT PILOT PHASE**

C. Stephan, K.A. Reidegeld, M. Hamacher, A. van Hall, K. Marcus, C. Taylor, P. Jones, R. Apweiler, L. Martens, G. Körting, C. Scheer, H. Thiele, M. Blüggel, H.E. Meyer (*Bochum, Dortmund, Bremen, Germany. Hinxton, UK. Ghent, Belgium*)

**IDENTIFICATION OF FUNGAL SPORE PROTEINS RELEVANT IN TERMS OF HOST-GUEST INTERACTION**

M. Sulc, J. Michalova, K. Peslova, M. Zabka, V. Havlicek (*Prague, Czech Republic*)

**A PROTEIN INTERACTION NETWORK LINKED TO THE MAMMALIAN GPCR RHODOPSIN**

M. Swiatek-de Lange, A. Chatr-aryamontri, M. Beer, G. Cesareni, M. Ueffing (*Munich-Neuherberg, Germany. Rome, Italy*)

**EVALUATION OF PRE-ANALYTIC INFLUENCE OF SAMPLE COLLECTION/HANDLING METHODOLOGIES ON SERUM PROTEOME IS KEY IN BIOMARKER DISCOVERY AND ASSAY DEVELOPMENT**

D. T'Jampens, E. Arslan-Low, J.F. Timms, A. Gentry-Maharaj, J. Ford, A. Gammerman, Z. Luo, U. Menon, E. T. Fung, I. Jacobs (*London, UK. CA, USA*)

**A MEMBRANOME APPROACH TO IDENTIFY ANTIBODY CANDIDATES WITH APPLICATIONS IN ONCOLOGY**

F. Talamo, L. Orsatti, B. Bartolini, A. Lahm, M. de Rinaldis, A. Luzzago, C. Santini, M. Arcuri, A. De Pra, T. Brancaccio, A. Bellini, R. Tafi, M. Ambrosio, M.A. Nasti, M.G. Bigotti, A. Vitelli, M. Pezzanera, V. Ammendola, A. Sbardellati, P. Monaci, F. Palombo, S. Colloca, A. Nicosia, A. Pessi, G. Ciliberto, R. Cortese (*Pomezia, Rome, Italy*)

**PROTEOMIC APPROACH TO THE STUDY OF *SACCHAROMYCES CEREVISIAE* COMMITTED TO PROGRAMMED CELL DEATH**

C. Tani, F. Magherini, A. Armini, T. Gamberi, A. Modesti, L. Bini (*Siena, Florence, Italy*)

**CSF PROTEOMIC ANALYSIS IN NORMAL PRESSURE HYDROCEPHALUS PATIENTS FOR THE IDENTIFICATION OF CANDIDATE BIOMARKERS OF RESPONSE TO SURGICAL TREATMENT**

A. Terreni, A. Caldini, B. Salvadori, A. Scollato, N. Di Lorenzo, G. Mastrobuoni, S. Francese, G. Pieraccini, G. Moneti, A. Ognibene, L. Bini, G. Messeri (*Florence, Siena, Italy*)

**BIOMARKER DETECTION IN FISH AND FROG EXPOSED TO ENDOCRINE DISRUPTING CHEMICALS**

C.C. Tølfsen, L.V. Sundbäck, T. Søfteland, R. Urbatzka, S. Maggioni, L. Viganò, W. Kloas, A. Mandich, E. Benfenati, A. Goksøyr, B.E. Grøsvik (*Bergen, Norway. Berlin, Germany. Genova, Milan, Italy*)

**A PEPTIDE'S ISOELECTRIC POINT IS AFFECTED BY THE POSITION OF COMPRISING CHARGED GROUPS**

K. Uhlén, L. Hörnsten, D. Fenyő, B. Bjellqvist (*Uppsala, Sweden. New York, NY, USA*)

**EFFECT OF CREATINE ON THE PROTEOME OF DIFFERENTIATING MYOBLASTS EXPOSED TO OXIDATIVE STRESS**

L. Vallorani, L. Casadei, C. Martinelli, R. Curci, P. Sestili, A.M. Gioacchini, M. Guescini, E. Falcieri, V. Stocchi (*Urbino, Italy*)

**PROTEOME AND PHYSIOLOGICAL CHARACTERIZATIONS OF OXIDATIVE-STRESS RESPONSE AND OxyR-REGULON IN *RHIZOBIUM ETLI* DURING SYMBIOSIS WITH *PHASEOLUS VULGARIS* AND FREE LIFE**

M.C. Vargas, S. Encarnación, A. Reyes, G. Martinez, S. Contreras, M. Hernández, Y. Mora, J. Mora (*Cuernavaca, Mor. México*)

**TOWARDS A LARGER MUSCLE PROTEOME DATASET BY COUPLING MULTIDIMENSIONAL**

### **CHROMATOGRAPHY (MDLC) AND 2D-DIGE**

M. Vasso, S. De Palma, A. Viganò, M. Ripamonti, D. Capitanio, M. Moriggi, C. Gelfi (*Milano, Italy*)

### **THE GLYCOPROTEOME AS A SOURCE OF MARKERS AND THERAPEUTIC TARGETS IN RENAL CANCER**

N.S. Vasudev, R.E. Ferguson, P.J. Selby, R.E. Banks (*Leeds, UK*)

### **PROTEOMIC ANALYSIS OF NOVEL SET-BINDING PROTEINS**

J. Vera, J.M. Estanyol, F. Llorens, N. Agell, E. Itarte, O. Bachs, M. Jaumot (*Barcelona, Bellaterra, Spain*)

### **PROTEOMIC CHARACTERIZATION OF *BUBALUS BUBALIS* MILK FAT GLOBULE USING 2D-DIGE TECHNOLOGY**

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

### **ORBITRAP DISCOVERY AND IDENTIFICATION OF NOVEL BIOACTIVE PEPTIDES FROM THE SKIN OF THE MIDWIFE TOAD (*ALYTES OBSTETRICANS*)**

P.D. Verhaert, K. Miller, F. Maroto, V. Zabrouskov, H.H. Walgraeve, L. Arckens, B. Van de Plas, S. Clerens, C. Shaw (*Delft, Netherlands. Leuven, Belgium. San Jose, CA, USA. Belfast, UK. Christchurch, New Zealand*)

### **ABSOLUTE LABEL-FREE LC-MS QUANTIFICATION OF DIAGNOSTIC GAUCHER DISEASE MARKERS**

H. Viissers, A. Wallace, J. Langridge, H. Aerts (*Manchester, UK. Amsterdam, The Netherlands*)

### **PROTEOMIC SIGNATURES OF *BACILLUS LICHENIFORMIS* – GENERAL AND SPECIFIC MARKER PROTEINS FOR STRESS AND STARVATION**

B. Voigt, K. Schaubitzer, D. Albrecht, A. Ehrenreich, S. Evers, K.-H. Maurer, G. Gottschalk, T. Schweder, M. Hecker (*Greifswald, Göttingen, Düsseldorf, Germany*)

### **PIQS - PARENT ION QUANTITATION SCANNING**

Å. Wahlander, P. James (*Lund, Sweden*)

### **ANALYSIS OF LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY DATA WITH THE MSIGHT SOFTWARE**

D. Walther, G. Bouchet, S. Catherinet, S. Pelhatre, M. Tuloup, P.M. Palagi, R.D. Appel (*Geneva, Switzerland*)

### **PROTEOMIC ANALYSIS OF TUMOUR HYPOXIA IN NEUROBLASTOMA CELL LINES**

K. Wårell, P. James (*Lund, Sweden*)

### **PROTEOME ANALYSIS OF *C. GLUTAMICUM*: STRATEGIES FOR THE DETECTION / IDENTIFICATION OF ALKALINE AND HYDROPHOBIC PROTEINS**

F. Weiland, C. Lück, A. Klaus, A. Görg (*Freising-Weihenstephan, Germany*)

### **PULMONARY METABOLOMICS AND PROTEOMICS DATABASE AIDS THE ELUCIDATION OF MECHANISMS UNDERLYING SYNERGISTIC TOXICITY OF AIR POLLUTANTS**

Å. Wheelock, K. Schmelzer, C. Destefano-Shields, B. Boland, M. Isbell, B. Hammock, A. Buckpitt, S. Goto (*Sweden. Kyoto, Japan. Davis, CA, USA*)

### **PROTEOMIC ANALYSIS OF PROTEIN KINASES BY TARGET CLASS- SELECTIVE PRE-FRACTIONATION AND TANDEM MASS SPECTROMETRY**

J. Wissing, L. Jansch, M. Nimtz, G. Dieterich, R. Hornberger, G. Kéri, J. Wehland, A. Ullrich, H. Daub (*Braunschweig, Martinsried, Germany. Budapest, Hungary*)

### **FROM ANALYSIS TO PREDICTION OF HUMAN PROTEIN INTERACTIONS**

S. Zanivan, I. Cascone, C. Peyron, I. Molineris, C. Herrmann, M. Caselle, F. Bussolino (*Candiolo, Turin, Italy. Paris, France*)

### **HOLLOW-FIBER FLOW FIELD-FLOW FRACTIONATION FOR HUMAN SERUM PROTEIN PROFILING**

A. Zattoni, D.C. Rambaldi, S. Casolari, P. Reschiglian, D. Parisi, A. Roda, M. H. Moon, B.R. Min, D. Roessner (*Bologna, Italy. Seoul, Korea. Dernbach, Germany*)

### **TACKLING SAMPLE PREPARATION AND BIOINFORMATICS ISSUES FOR URINARY PROTEIN PROFILING BY MALDI-MS**

P Zerefos, J Prados, S Garbis, S Kossida, A Kalousis, A Vlahou (*Athens, Greece. Geneva, Switzerland*)

### **IDENTIFICATION AND PARTIAL CHARACTERIZATION OF THE OSTEOCLAST SECRETORY VESICLE**

H. Zhao, J. Chappel, M. Croke, R. Townsend, S.L. Teitelbaum, F.P. Ross (*St Louis, MO, USA*)