

**Proteomic Section of CSBMB, Institute of  
Microbiology,  
Institute of Animal Physiology and Genetics  
Cordially Invite You to**

***2nd Czech Proteomic  
Conference***

**with international participation**

A Shevchenko Mass Spectrometry  
A Lewit-Bentley Structural Proteomics  
G Bentley Structural Proteomics  
E Forest Structural Proteomics  
J D Tissot Clinical Proteomics  
J E Van Eyk Clinical Proteomics



# 2<sup>nd</sup> Czech Proteomic Conference

with international participation  
Myhotel, Lednice, Czech Republic

## Final program

*Monday, 17<sup>th</sup> October 2005*

12<sup>00</sup> - 17<sup>00</sup>      **Registration**

17<sup>00</sup> - 17<sup>40</sup>      **Opening of the conference (welcome address)**

- *B. Říhová*, Director of the Institute of Microbiology, Czech Academy of Sciences, Prague
- *I. Míšek*, Director of the Institute of Animal Physiology and Genetics, Czech Academy of Sciences, Liběchov
- *H. Kovářová*, President of the Czech Proteomic Society
- *K. Bezouška*, Chairman of the Organizing Committee

### ***Session 1 – Structural proteomics***

Chairman: J. Weiser, Prague

17<sup>40</sup> - 18<sup>20</sup>      *A. Lewit-Bentley*: Structural proteomics, or structural genomics: one of many facets of post-genomics

18<sup>20</sup> - 19<sup>00</sup>      *G. Bentley*: The role of structural biology in vaccine candidate optimization

19<sup>00</sup> - 19<sup>40</sup>      *E. Forest*: Use of mass spectrometry to study the structure and the interactions of proteins

19<sup>40</sup>              *Welcome reception*

Tuesday, 18<sup>th</sup> October 2005

**Session 2 – Clinical proteomics 1**

Chairman: J.-D. Tissot, Laussane

9<sup>00</sup> - 9<sup>40</sup>      S. Elliott, C. Murray, K. V. Tarasov, D. G. Crider, K. R. Boheler, J. E. Van Eyk: Proteomic analysis of embryonic stem cells: stemness and phosphorylation

9<sup>40</sup> - 10<sup>10</sup>      H. Skalníková, P. Halada, J. Hlučilová, P. Vodička, H. Kovářová: Proteome of neural stem cells and its changes during *in vitro* differentiation

10<sup>10</sup> - 10<sup>40</sup>      *Coffee break*

10<sup>40</sup> - 11<sup>10</sup>      J. Malčíková, J. Kotašková, B. Tichý, J. Mayer, Š. Pospíšilová: Analysis of p53 protein activity using functional protein microarrays

11<sup>10</sup> - 11<sup>40</sup>      J. Petrák, D. Myslivcová, P. Man, M. Babušiak, D. Vyoral: Erythroid differentiation *in vitro*. Observing red blood cells teenagers

11<sup>40</sup> - 12<sup>10</sup>      E. D. Schleicher, A. Cegan: Mass spectrometry profiling of phosphorylated serine / threonine residues and (patho)physiological relevance of selected residues in insulin signal transduction and Type 2 Diabetes mellitus

12<sup>10</sup> - 13<sup>45</sup>      *Lunch break*

13<sup>45</sup> - 14<sup>30</sup>      ***Lunch seminars by company representatives (KRD, SIB-Bruker, Roche)***

14<sup>30</sup> - 16<sup>00</sup>     **Poster session and poster discussions**  
(with 3 min flash presentations by the presenting authors)

**Session 3 – Bacterial proteomics 1**

Chairman: J. Chmelík, Brno

16<sup>00</sup> - 16<sup>30</sup>     J. Weiser,     L. Kalachová,     Z. Techniková,  
J. Janeček, S. Bezoušková: Proteomic analysis of adaptive gene  
expression profiles in antibiotic resistant bacteria during cultivation  
in chemostat

16<sup>30</sup> - 17<sup>00</sup>     Š. Nezbedová, S. Bezoušková, J. Weiser: Two-  
dimensional gel electrophoresis – a method for studying the effect  
of *ppk* gene inactivation / overexpression in *Streptomyces lividans*

17<sup>00</sup> - 17<sup>30</sup>     *Coffee break*

**Session 4 – Clinical proteomics 2**

Chairman: H. Kovářová, Liběchov

17<sup>30</sup> - 18<sup>10</sup>     P.-A. Queloz, D. Crettaz, J.-D. Tissot: Proteomics  
of amniotic fluid

18<sup>10</sup>             *Dinner*

20<sup>00</sup>             **Night Visit to Lednice Château**

**(Tickets available for 200 CZK)**

Wednesday, 19<sup>th</sup> October 2005

**Session 5 – Mass spectrometry**

Chairman: V. Havlíček, Prague

8<sup>30</sup> - 9<sup>10</sup>      A. Shevchenko: *De novo* sequencing: a versatile tool for proteomics

9<sup>10</sup> - 9<sup>40</sup>      L. Lomas, S. Cleverley, V. Thulasiraman, S. Roth, S. Lin, E. Boschetti: Use of combinatorial peptide library to increase the breadth of the proteomic analysis by concomitantly diluting high abundance proteins while concentrating low abundance proteins

9<sup>40</sup> - 10<sup>10</sup>      *Coffee break*

**Session 6 – Bacterial proteomics 2**

Chairman: K. Bezouška, Prague

10<sup>10</sup> - 10<sup>40</sup>      L. Hernychová, M. Hubálek, J. Vacková, M. Reichelová, L. Skultety, J. Chmelík, P. Řehulka, J. Salplachta, J. Stulík, A. Macela: Identification of bacterial protein biomarkers using LC-MALDI and LC-ESI MS/MS.

10<sup>40</sup> - 11<sup>10</sup>      M. Basler, I. Linhartová, P. Halada, J. Novotná, S. Bezoušková, R. Osička, J. Weiser, J. Vohradský, P. Šebo: The iron-regulated proteome and transcriptome of *Neisseria meningitidis*

11<sup>10</sup> - 11<sup>40</sup>      J. Lenčo, L. Hernychová, M. Hubálek, K. Šlosrová, J. Stulík, A. Macela: Analysis of alteration in protein patterns in *Francisella tularensis* LVS induced by iron restriction.

11<sup>40</sup> - 12<sup>25</sup>      ***Lunch seminars by company representatives (Sigma, HPST, Canberra)***

12<sup>25</sup> - 14<sup>00</sup>      *Lunch break*

14<sup>00</sup>              **Trip to Lednice and Mikulov**

20<sup>00</sup>              **Symposium Galla Dinner**

Thursday, 20<sup>th</sup> October 2005

**Session 7 – New developments in proteomics 1**

Chairman: A. Shevchenko, Dresden

9<sup>00</sup> - 9<sup>40</sup>      M. Ščigelová, P. Verner, K. Lemr, V. Havlíček: ICR and Orbitrap in Protein / Peptide Analysis: Principles and Applications

9<sup>40</sup> - 10<sup>10</sup>      V. Dormeyer, M. Ott, M. Schnolzer Probing lysine acetylation in proteins: strategies, limitations, and pitfalls of *in vitro* acetyltransferase assays

10<sup>10</sup> - 10<sup>40</sup>      K. Smutná, I. Selicharová, K. Ubik, E. Matoušková, P. Veselý, J. Vydra, J. Jiráček: Two-dimensional electrophoretic characterization of a new breast cancer cell line EM-L154

10<sup>40</sup> - 11<sup>10</sup>      *Coffee break*

**Session 8 – New developments in proteomics 2**

Chairman: J. Vohradský, Prague

11<sup>10</sup> - 11<sup>40</sup>      M. Slováková, Z. Bílková, L. Korecká, A. Minc, A. Le Nel, J.-M. Peyrin, C. Smadja, J.-L. Viovy: Self assembled magnetic particles: use for protein bioanalysis in lab-on-chip

11<sup>40</sup> - 12<sup>10</sup>      P. Man, P. Novák, D. Kavan, J. Dostál, I. Pichová: FT-MS on track of protein glycosylation.

12<sup>10</sup> - 13<sup>10</sup>      ***Lunch seminars by company representatives (Genetica, Spectronex, CIPHERGEN, Nonlinear)***

13<sup>10</sup> - 13<sup>30</sup>      J. Chmelík, K. Bezouška: EuPA, European Proteomic Association. Proteomic Publications. Human Protein Atlas

13<sup>30</sup> - 13<sup>40</sup>      *Closing of the conference, Awards for the Best Lecture and Best Poster*

13<sup>40</sup>      *Lunch, departure of the participants*