

FACT SHEET:

4TH ANNUAL WORLD CONGRESS OF THE HUMAN PROTEOME ORGANISATION **- *FROM DEFINING THE PROTEOME TO UNDERSTANDING FUNCTION***

29 AUGUST TO 1 SEPTEMBER 2005 - MUNICH, GERMANY

Press Conference* on Thursday, 1 September at 12:30 in Room 22, ICM

From 29 August to 1 September 2005, more than **2000** leaders in the field of proteomics research, from **70** countries, are attending the four-day 4th Annual HUPO Congress at Munich's ICM.

Scientific Directors:

This Congress is organized by two acknowledged pioneers of this field, German scientists **Angelika Gorg** (Technische Universität München) and **Matthias Mann** (Max-Planck Institute for Biochemistry) in collaboration with the Human Proteome Organisation (HUPO), based in Montreal, Canada.

Congress Aim:

The purpose of the meeting is to share the latest information stemming from research done by proteomics experts from all over the world.

Role of Proteomics in Science:

Proteomics is the science discipline that allows man to understand biology, disease and therapy in an improved way. As genes represent the blueprint of life, the proteins they encode are key players because they control the biological function of cells and thus of all organisms.

This **new research approach** is being applied to both plant and human biology, resulting in:

- development of personalized medicine;
- improved efficiency and effectiveness of diagnostics and therapies, thereby reducing costs;
- reduced drug development timelines;
- development of more resistant and sustainable crops.

Selection of Key Speakers:

1. Dr. John Fenn (Virginia Commonwealth University) – 2002 **Nobel Laureate** of Chemistry
2. Dr. Franz Hillenkamp (University of Münster) – Co-inventor of Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry (MALDI-MS)
3. Dr. Amos Bairoch (University of Geneva) – Head of the Swiss-Prot group that developed the most comprehensive database
4. Dr. Patrick O'Farrell (University of California, San Francisco) –

Selection of Presentations:

1. A Human Proteome Atlas for Normal and Disease Tissue (M. Uhlen, Sweden)
2. In Search for the Biomarker Proteins from the Liver and Lung Cancer Specimens (Y. Paik, Korea)
3. Driving Biological Discovery using Mass Spectrometry (J. Yates, USA)

4. Bioinformatics at NIAID Biodefense Proteomics Administrative Resource Center (P. McGarvey, USA)
5. Quantitation of Post-Translational Modifications in Proteomics by Mass Spectrometry (O.N. Jensen, Denmark)
6. Proteomics of the Transplanted Heart (M.J. Dunn, Ireland)
7. Vaccine Discovery and Proteomics (G. Grandi, Italy)
8. Towards a Comprehensive Understanding of Bacterial Physiology by Proteomics (M. Hecker, Germany)
9. Deciphering Membrane Proteomes in the Model Plant *Arabidopsis thaliana* (H. Barbier-Brygoo, France)
10. Proteomics of Plant Responses to Biotic Stresses: Progress, Problems and Challenges (J.V. Jorin, Spain)
11. Using Proteomics Approaches to Help the Rice Genome Annotation (J. Wang, China)
12. Analysis of the Budding Yeast Proteome (E. O'Shea, USA)
13. Cell Fate Decisions Revealed by Quantitative Phosphoproteomics (M. Mann, Germany)
14. 2D Electrophoresis for Proteome Analysis (A. Görg, Germany)
15. Proteomics as a Genomic Science (R. Aebersold, Switzerland)
16. The EU Interaction Proteome Project (F.U. Hartl, Germany)
17. Clinical Chemistry and Proteomics (D. Hochstrasser, Switzerland)
18. Myocardial Ischemic Injury and Proteasome Function (P. Ping, USA)
19. Towards Standardized Capturing of Proteomics Data and Proteomics Repositories (R. Apweiler, U.K.)
20. Progress in Proteome Profiling of Hepatocellular Carcinoma Tissues From Patients Infected with Hepatitis C Virus and its Possible Clinical Application (K. Nakamura, Japan)
21. HUPO Human Liver Proteome Project (F. He, China)
22. Proteomics of the Early Secretory Pathway (J.J.M. Bergeron, Canada)

HUPO World Annual Congresses:

The HUPO event in Munich is by far the most important Congress in this field and is a follow-up to three previous successful proteomic forums held at TUM. These HUPO meetings were held in Versailles (2002), Montreal (2003), and Beijing (2004). The next Congress will take place in Long Beach California, USA, 30 October to 1 November 2006.

Contact Information:

Prof. Angelika Gorg or Prof. Matthias Mann (c/o Congress Services Desk, 089-949 79 400).

* Complimentary press accreditation is available through the same number, along with registration for a Press Conference on Thursday, 1 September at 12:30 in Room 22, ICM. A light lunch will be served.