

Fostering international proteomic initiatives to better understand human disease

UPDATE ON THE HUMAN PROTEOME PROJECT

NEXT STEP AFTER HPP LAUNCH IN SYDNEY

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A workshop took place in Busan (Korea) on March 30, 2011 for the creation of the HPP consortium.

Several participants reported on on-going initiatives and recent meetings that were organised on the HPP in Canada, the US and Europe, and presented the ongoing initiatives at the local, national or transnational level. Currently, chromosomes 2, 3, 6, 8, 13, 14, 17, 18, 19, 21, X and Y are targeted one way or the other.

Presentations followed by discussions revolved around issues related to the choice of the biological material (tissues, cell lines etc.), the guidelines for sample collection and sharing (biobanks, clinical data, etc), the need for transverse expert groups such as bioinformatics, the connection between HPP and other large scale initiatives (especially with -omics or disease-related consortium).

On the organisation of the HPP consortium, the group came to a consensus of a two-wing consortium built on the three pillars defined in Sydney, namely the organisation of the chromosome-centered initiatives, as well as the collection of biology and disease-driven projects, some of the latter arising from the HUPO initiatives.

The two wings should be organised and piloted by two groups with one representative for each chromosome or disease/organ/tissues initiatives,



Participants in the HPP workshop that took place in Busan, Korea, in March

respectively. Each of these groups will be co-chaired by three scientists.

Guidelines will soon be drafted for experiments (standards and/or internal quality controls), datasets handling and sharing and common reference protein annotations. This should be done in close relationship with journals, and small working groups are currently working on these issues, at different levels (national or regional initiatives, laboratory networks in conjunction with funders, etc.).

As well, guidelines for specific deliverables were proposed and discussed, to serve as a basis for the formal under preparation.

It was also announced that the manuscript written as a follow-up of the Sydney HPP workshop is now being processed at MCP in the category "Issues in Proteomics".

PRESIDENT'S MESSAGE



Cathy Costello
HUPO President

Dear colleagues and friends of HUPO,

I am pleased and honored to be serving as HUPO President in 2011-2012 and am happy to have the chance to greet you, as we prepare for our 10th Annual World Congress, the exciting meeting to be held Sept. 3-7, 2011 in Geneva (www.HUPO2011.com), which will include the celebration of HUPO's 10th anniversary, and as we are conducting the elections of our Council members whose terms will begin next January. I urge all members to visit the election link on the HUPO website and to cast their votes before the September 5 deadline.

The Executive Committee (EC) meets monthly *via* conference call and its members interact almost daily with one another and with the committee chairs, the heads of the Initiatives, the leaders of regional and national HUPO groups and the Industrial Advisory Board. Their commitment to the goals of HUPO is extraordinary. During the Geneva meeting, the Council will elect Executive Committee members to replace those whose terms are ending. On behalf of all HUPO members, I thank the present Councilors and Executive Committee members for

their dedicated service.

This has been an exciting year for HUPO worldwide. Since its launch at the 9th HUPO Annual World Congress in Sydney, the Human Proteome Project, under the leadership of co-chairs Pierre Legrain, Gil Omenn and Young Ki Paik, has made significant progress in formulating its *modus operandi* and engaging teams around the world in this central project of HUPO. The HPP Working Group met in Busan, Korea, in March 2011 and reviewed the program status. They proposed a clear outline for the HPP organizational and advisory structure and routes to the goal of defining the human proteome, both based on the established three pillars (Antibodies, Knowledge Base and Mass Spectrometry) and now progressing in two parallel channels: the Chromosome-based C-HPP and the Biology/Disease-based B/D-HPP. Well-attended workshops have been held by groups in individual countries and regions. The wide-ranging and stimulating discussions that have taken place at these workshops illustrate clearly the challenges and opportunities of the HPP and are helping to assure that the wide expertise of our colleagues around the world is being harnessed in a collaborative and productive way. Although more than half of the chromosomes have now been adopted, there is still room for more participants in the C-HPP. The B/D-HPP provides a ready mechanism for many HUPO Initiatives and individual investigators to contribute their targeted studies to the HPP. It will help to gain the attention and support of those with specific medical and clinical interests and will facilitate communication with potential funding sources, regarding the HPP's goals and critical relevance to the improvement of health.

During this year, I had the pleasure of joining proteomics meetings in Canada, China, Japan, Russia and the UK, as well

as US-HUPO. In the coming months, I am looking forward to participating in the Australasian and Asia-Oceania HUPO meetings. The dynamic growth and productivity of these groups, and others who have forwarded their agendas and newsletters to me, such as the Proteomic Society of India, are reflected in the strength of their scientific programs and also in the short courses that are becoming regular parts of many meetings. This training and the inclusion of young people and people with diverse backgrounds, from developed and developing countries, are essential to the growth of the human proteome field, and its expansion to cover all living species.

I congratulate the winners of the 2011 HUPO Distinguished Awards: Amos Bairoch (CALIPHO, [Swiss Institute of Bioinformatics and University of Geneva](http://www.swissinstitute.ch), Switzerland) the HUPO Distinguished Achievement Award in Proteomic Sciences; Steven A. Carr (Broad Institute, Cambridge, MA USA), the HUPO Discovery Award in Proteomics Sciences; Fuchu He, (Beijing Proteome Research Center, China), the HUPO Distinguished Service Award; and Alexander Makarov (Thermo Scientific, Bremen, Germany), the HUPO Science and Technology Award. Each of these winners has made outstanding contributions to our science and we are proud to honor them this year.

In the spring of 2010, in order to provide an assessment of the present and the future, expanding administrative needs of HUPO and to make recommendations on how to meet these in the most

ANNOUNCEMENTS

Notice of Elections

The election period for the HUPO Board of Directors (HUPO Council) is now open and will run until September 5th (as per the local time in Geneva, Switzerland). Again this year, the vote will be held electronically.

More information on nomination and elections is available on www.hupo.org/communications/Annual_special_meetings/members/2011/default.asp

Election Website Opens	August 15, 2011
Election Closes	September 5 2011 5:00PM
Results are announced	September 6, 2011 during the General Assembly

Elections deadlines are
Geneva, Switzerland Local time

Notice of General Assembly/Meeting of the Members

The 2011 General Assembly/Meeting of the Members will take place in Geneva, Switzerland at the Geneva Palexpo:
on September 6th, 2011 at 5:00PM in conjunction with HUPO 10th Annual World Congress, Geneva 2011
www.HUPO2011.com

The address is the following:

Geneva Palexpo
CH 1218 Le Grand-Saconnex, Geneva, Switzerland
Documents pertaining to this meeting, such as

- Agenda of the 2011 General Assembly
 - Minutes from the 2010 General Assembly
 - Auditor's Report & 2010 Financial Statement
- will soon be available to members on www.hupo.org

To be environmentally friendly, all the necessary documents are posted in pdf format on this page and will **NOT** be provided on paper at the General Assembly.

PRESIDENT'S MESSAGE (CONT'D)

efficient and economic manner, the EC appointed an *ad hoc* committee of proteomics leaders. After receiving their report, the EC requested bids from companies that offer contracted management services to scientific societies, interviewed the leading candidates, and recently selected Scientific Association Management as the one which offered the most potential for enabling HUPO to move forward worldwide. A representative of SAM will be introduced at the Geneva meeting; their official role will begin later in the fall and they

will work closely with HUPO headquarters to assure continuity in all aspects of programs and member relationships.

I especially wish to thank Wehbeh Barghachie for his years of service as HUPO Director of Operations, his friendly willingness to help on a diverse range of tasks and projects and his warm interactions with HUPO members, our Industrial Advisory Board and our administrative contacts in Canada and around the world. We wish him good health and success in the future. We are very grateful to Sylvie

Ouellette, who assumed full responsibility on July 1, for her many continuing contributions and her capable solo management of the HUPO headquarters during this transition period.

I look forward to seeing many of you in Geneva and to visiting with you during meetings of your national and regional societies.

Best wishes from Boston - site of the 2012 HUPO 11th World Congress,

Cathy Costello
HUPO President

RECENT EVENTS

4TH MEETING OF THE SPANISH PROTEOMICS SOCIETY (SEPROT)

The 4th Meeting of the Spanish Society for Proteomics SEPROT 2011 (www.seprot2011.es) was held February 8-11th in the Parador Nacional de Segovia, Spain.

The Congress theme was New Trends in Proteomics. By choosing this title, the organizers aimed at emphasizing the rapid progress in the development of a range of technologies that are contributing to increase our knowledge and generating new questions at the same time.

The scientific program of the congress was divided in 6 scientific sessions: Quantitative, Structural and Computational Proteomics, Microbial Proteomics, Posttranslational Modifications, and Biomarker Discovery and Validation. In addition, recent HUPO scientific initiatives, such as the Human Proteome Project, were also addressed during the EuPA and HUPO Initiatives session.

Special emphasis was put on the HPP-Chromosome-based initiative where challenges and drawbacks were highlighted by Amos Bairoch, Ludovic Gillet, Thierry Rabilloud and György Marko-Varga. Finally, the relevant Quality Control and Standardization topics were also discussed. An exciting mix of invited speakers from Europe and America helped to create a fruitful scientific atmosphere during the meeting. The panel of speakers was completed with a collection of oral presentations selected from the list of submitted abstracts.

In addition to the scientific program, the Spanish Proteomics Society paid due homage to three exceptional scientists for their seminal work and outstanding contribution to the field of Proteomics. Joël Vandekerckhove, Angelika Görg and Pier-Giorgio Righetti kindly accepted the invitation to become Honorary Members of our Society and they gave a summary of their life's work in the opening and closing lectures.



SEProt Conference organizing committee

Besides these challenging scientific sessions, a very attractive social program helped to enjoy these days in Segovia, a UNESCO World Heritage site known for its extensive cultural and monumental heritage. Many examples of Romanesque, Gothic and Mudéjar architecture complement its three world-famous jewels, the Roman Aqueduct, the Catholic Cathedral and the Alcázar Castle. The superb gastronomic offer of the city was the perfect complement to a Congress that showed Spanish Proteomics is in good shape.

US HUPO'S 7TH ANNUAL CONFERENCE

US HUPO's 7th Annual Conference was held in Raleigh, North Carolina, March 20th to 23rd 2011, under the theme, *Proteomics: New Developments & Grand Challenges*.

Highlights included the keynote address from Carolyn Bertozzi and plenary lectures from Nancy Allbritton, Robert Bast, James Boyd, Larry Gold, Christopher Newgard, and David Ransohoff. The program concluded with a general session entitled *The Future and New Directions* featuring Matthias Mann and Robert Moritz and a lively panel discussion.

Five pre-conference short courses proved popular, and very interesting evening workshops were well attended.

A Business Meeting was featured for the first time as part of the

conference program, providing an opportunity to share Society announcements and news. US HUPO officially welcomed four new members to the Board of Directors: Ben Garcia, Stephen Stein, David Tabb, and Nathan Yates. It was announced that Catherine Fenselau, Joshua LaBaer, Peipei Ping, Michael Snyder, and Cathy Wu were re-elected for another three-year term. Retiring Board Members Ben Cravatt, Samir Hanash, Paul Predki, and Richard Smith were thanked for their service. It was announced that Robert Cotter will serve as Secretary for the next two years. Joshua LaBaer was reappointed to a second two-year term as Treasurer.

Three student poster awards sponsored by Platinum Sponsors Agilent Technologies, Thermo Scientific, and Waters Corporation were announced at



*US HUPO 2011 Conference Organizers
David Muddiman, Joseph Loo and
Adam Hawkrigde*

the Business Meeting. Awardees Krishnan Palaniappan, Michael Weekes, and Ying Xu received a Kindle digital reader with engraved leather cover.

The US HUPO 8th Annual Conference in San Francisco, March 4th-7th, 2012.

RECENT EVENTS (CONT'D)

KHUPO 11TH ANNUAL CONFERENCE IN BUSAN

Celebrating its 10th anniversary, the Korean Human Proteome Organization (KHUPO) held its 11th Annual International Meeting at the University Haeundae Paik Hospital, in Busan, Korea, on March 31st and April 1st 2011. The theme of the conference was "Proteomics: Past and Future."

The event brought together about 370 participants including 35 speakers from USA, Japan, Sweden, Swiss, France, Iran, Australia, China, Taiwan, Russia, Korea etc. and nine vendors/exhibitors.

The Conference focused on proteome biology and technology, its application to human disease, and drug development. Major proteome-related organizations in Korea, the Korean Cancer Society and JHUPRO members also attended.

Three outstanding plenary lecturers presented the knowledge-based human protein atlas project (Dr. Mathias Uhlen), the study of chromosome 17 in Human Proteome Project (Dr. William s. Hancock), as well as identification and functional analysis of co- and post-translational modifications of



Opening Ceremony at The INJE University Haeundae Paik Hospital

large protein complexes (Dr. Hisashi Hirano). Over 100 outstanding posters were presented by students and researchers. Among them, 15 authors won an Outstanding Young Scientist Award.

To highlight KHUPO's 10th anniversary, participants enjoyed a very special lecture by Andrew Marshall, the editor of Nature Biotechnology on 'How to get published in Nature Biotechnology'. In addition, KHUPO published a 10-year history book and handed it out at the welcome reception and dinner cruise.

This meeting paved the way for the exchange of new scientific information with 10 symposia in the areas of PTM & proteome biology, proteome



Invited Speakers and Committee Members on Dinner Cruise

biomarkers, proteome informatics, new technology in proteomics for molecular diagnostics, quantitative proteomics disease proteomics, integrated omics, frontier in proteomics, clinical proteomics, proteomics in drug development.

Just prior to the conference was a 4th workshop the HUPRO Human Proteome Project (HPP) Working Group (see report on p. 1). This satellite meeting was very fruitful in providing the information on the progress and perspectives of HPP.

Detailed information and program of the 11th KHUPO international meeting are available at <http://www.khupo.org/meeting>.

EDUCATION AND TRAINING

HUPO 2011 SATELLITE WORKSHOP ON PROTEOMIC INFORMATICS

The Seattle Proteome Center (SPC) at the Institute for Systems Biology and the Swiss Institute for Bioinformatics (SIB) will offer a five-day intensive course in proteomic informatics, held one week prior to HUPO 2011 (Aug 29-Sep 2) at the University of Geneva.

The charges for attending this comprehensive course are: student registrants Euro-125 (US\$ 150), academic registrants Euro-190 (US\$ 250) and commercial employees Euro-450 (US\$600).

For more info and to attend the course, please register at <http://www.proteomecenter.org/HUPOcourse.php>

HUPO EDUCATION AND TRAINING PROGRAMS

Mass Spectrometry in Protein Chemistry and Proteomics

Date: November 7-11, 2011

Location: University of Southern Denmark (SDU), Odense, Denmark

Course organizer: Ole Nørregaard Jensen & Karin Hjerno, [hjerno@bmb.sdu.dk](mailto:hjernoe@bmb.sdu.dk) or +4565502412

Or please see www.huipo.org/educational/courses for more details.

HUPO 2011
10TH WORLD CONGRESS
4-7 SEPTEMBER 2011

Geneva

WWW.HUPO2011.COM

LOCAL ORGANIZING COMMITTEE

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Translational Proteomics



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Geneva University, Switzerland

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**Chairmen of HUPO Education Day,
HUPO Clinical Day, EuPA Day,
HUPO & EuPA Awards and
HUPO & EuPA Initiatives**

- Clinical Day Chairs:
Pierre Burkhard & Daniel Chan
- Education Day Chairs:
Thierry Rabilloud & Peter James
- EuPA Day Chairs:
Jesus Jorriin & Jean-Jacques Diaz
- HUPO & EuPA Awards Chairs:
Concha Gil & Maxey Chung
- HUPO & EuPA Initiatives Chairs:
Juan-Pablo Albar & Gil Omenn

SCIENTIFIC SESSIONS

1. Infectious Diseases
2. Organellar Proteomics
3. MS Quantitation
4. Oncology
5. Post-Translational Modifications
6. Protein Arrays
7. Central Nervous System
8. Membrane Proteins
9. Data and Knowledge
10. Metabolic Disorders
11. Functional Proteomics
12. Biomarker Discovery
13. Cardiovascular and Atherosclerosis
14. Pharmaco-toxicology
15. Imaging

IMPORTANT DATES AND DEADLINES

Online registration open:
1 January 2011
Abstract submission open:
1 December, 2010
Abstract submission closing:
16 March, 2011
Notification of acceptance/rejection of abstracts:
15 May, 2011
Early bird registration:
16 May 2011
Late Breaking Abstracts:
23 June 2011
Accommodation reservation:
30 June, 2011
HUPO 2011:
4 - 7 September, 2011

UPCOMING EVENTS

AUGUST

6th International Symposium of
The Protein Society of Thailand
August 31st—Sept 2nd
Chulabhorn Research. Institute, Bangkok
www.proteinsocthai.net/symposium11



SFEAP Congress
September 19th -22nd 2011
Avignon, France
www.grenoble.prabi.fr/smap2011

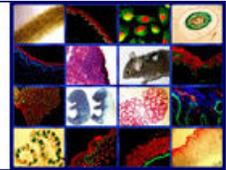


SEPTEMBER



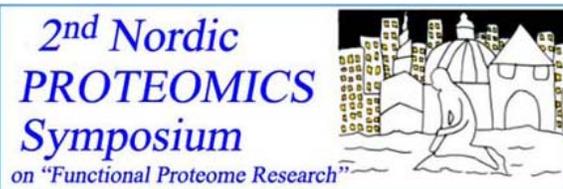
5th Central and Eastern European Proteomic Conference
Theme: Proteomes, Proteomics and Biological Systems

19th - 22nd September 2011
U HAJKU Conference Centre, Prague



<http://2011.czproteo.cz/>

NOVEMBER



Hosted by the Swedish-, Danish-, Norwegian-, and Finnish Proteomics Societies
November 27 th-29th 2011
Copenhagen Denmark
<http://www.lakemedelsakademin.se/templates/LMAEvents.aspx?id=4653>

FUTURE HUPO ANNUAL WORLD CONGRESSES



The HUPO 11th Annual World Congress will be held in the city of Boston, USA September 9-13, 2012 in coordination with USHUPO.
The congress will be organized by Drs. Mike Snyder, Catherine Fenselau, Bill Hancock and Gil Omenn.
www.HUPO2012.com



The HUPO 12th Annual World Congress will be held in the city of Yokohama, Japan September 14-18, 2013, in coordination with JapanHUPO.
The congress will be organized by Drs. Naoyuki Taniguchi, Kazuyuki Nakamura and Hisashi Hirano.
www.HUPO2013.com

HUPO ACKNOWLEDGES THE GENEROUS SUPPORT OF ITS PARTNERS



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Human Proteome Organisation

HUPO Headquarters
2155 Guy Street
Suite 500

Montreal, Quebec
CANADA H3H 2R9
Tel: +1-514-934-4435
Fax: +1-514-934-4423

www.hupo.org

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If you wish to advertise in the HUPO newsletter or to find out about sponsorship opportunities, please contact:

Sylvie Ouellette
HUPO Headquarters
Tel: +1 514 934-4435
Fax: +1 514 934-4423

sylvie.ouellette@mcgill.ca

CONTRIBUTIONS WELCOME

The HUPO Newsletter aims to disseminate information throughout the proteomics community.

If you wish to contribute news, notices of events, or any other item, please feel free to forward it to HUPO Headquarters, using the link on the www.hupo.org website.

Any material submitted will be subject to approval by the HUPO Executive Committee and the Public Relations Committee.