

**HUPO 10<sup>th</sup> Annual  
World Congress,  
(HUPO2011)****September 4-7, 2011  
Geneva, Switzerland**

---

**INSIDE THIS ISSUE**

---

President of AOHUPO	1
KHUPO Meeting	3
China HUPO Conference	4
TPS Annual Symposium	6
12 <sup>th</sup> HUPO Congress Poster	7
Upcoming Events	8

Asian Oceania Human  
Proteome Organization  
[www.aohupo.org](http://www.aohupo.org)**President Address in AOHUPO Newsletter 2011  
Kazuyuki Nakamura President of AOHUPO (2011-2013)**

I have the honor of giving president address in AOHUPO Newsletter. I was officially nominated to be the 3<sup>rd</sup> President of AOHUPO (2011-2013) by strong supports of council members last year. Drs. Young-Ki Paik (Korea) for Past President, Fuchu He (China) and Bill Jordan (New Zealand) for Vice President and Maxey Chung (Singapore) for Secretary General have cordially accepted my invitation to be AOHUPO EC members. Dr. Jordan is kindly serving as Director of Membrane Proteome Initiative (MPI) for the promotion of the AOHUPO Initiative<sup>1)</sup>. Drs. Ghasem Hosseini Salekdeh (Iran) and YuJu Chen (Taiwan) have accepted my invitation to join the AOHUPO EC meeting as Chair and Co-Chair of AOHUPO human embryonic stem cell (hESC)-MPI. Dr. Salekdeh also serving as the Editor of AOHUPO Newsletter. I have another important mission to promote Education and Training (E&T) for young scientists in AO region. Dr. Ravi Sirdeshmukh (India) has worked nicely to organize Education Day at the 5<sup>th</sup> AOHUPO Conference in Hyderabad in February, 2011. I proposed to have the standing committee of AOHUPO E&T in 2008 with Drs. Mathew Perugini (Australia), Siqi Liu (China), Ghasem Hosseini Salekdeh (Iran), Tosifusa Toda (Japan), In-Chul Kang (Korea), Nikhat Ahmed Siddiqui (Pakistan), Jisnusun Svasti (Thailand) and Sponsors of E&T Workshop/Seminar. We had nice meeting of the 9<sup>th</sup> HUPO World Congress in Sydney where I asked Drs. Richard Simpson and Stuart Cordwell (Australia), Pengyuan Yang (China),

Visith Thongboonkerd (Thailand), Ho Jeong Kwon (Korea), and Hisashi Hirano (Japan) to support E&T activities. HUPO E&T Committee chaired by Dr. Thierry Rabilloud (France) is active to organize Education Day at each of HUPO World Congress and Hands-on Course in each of countries. Dr. Peter James (Sweden) has proposed the International Proteomics Tutorial Program to promote the publication of articles of Tutorial in HUPO official journals with Dr. Rabilloud and myself. The global collaboration on E&T will give us "Place" for bringing up young people to be experts in the field of proteomics<sup>2)</sup>. Dr. Terence Poon (Hong Kong) and Dr. Jordan will take the lead in organizing the Asia roadshow of HUPO New Technology & Resources Committee chaired by Dr. Christoph Borchers (Canada). Global collaboration of AOHUPO council members is essential to make "Place" in AO region and strong support by HUPO EC members especially Dr. Paik as Past President and Dr. Simpson as Secretary General of HUPO, Dr. He as Chair of the 6<sup>th</sup> AOHUPO Conference in Beijing in May, 2012, and Drs. Hirano and Naoyuki Taniguchi and myself as Co-Chairs of the 12<sup>th</sup> HUPO World Congress in Yokohama in September, 2013.

I am Professor and Chairman in the Department of Biochemistry and Functional Proteomics, Yamaguchi University Graduate School of Medicine, Ube, Japan, and have worked in the principle of proteomics to understand protein functions in the states of human physiology and pathology. I earned my degree of MD. Ph.D. from Yamaguchi University with studies on coenzyme-binding sites on NAD- and NADP-dependent dehydrogenases by Affinity Electrophoresis<sup>3)</sup>. It was very nice for



me to promote my scientific career in the Laboratory of Biochemistry, National Heart, Lung, and Blood Institute, NIH, Bethesda, USA. The studies on post-translational modifications on glutamine synthetase in *E. Coli*<sup>4)</sup> led me to proteomics. I returned to Yamaguchi University School of Medicine where we succeeded in the development of a novel technique of Two-dimensional Affinity Electrophoresis by which antigen-specific antibodies in anti-sera could be separated into homogenous protein spots by differences in their isoelectric points and affinity to the antigen immobilized in gel matrices<sup>5)</sup>. I had started proteomics on stress-induced apoptosis in Jurkat cells of a human lymphoblastic leukemia cell line to find proteins which are involved in the stress response<sup>6)</sup>. It was found that Stathmin was hyperphosphorylated by CDK1 in temperature dependent manner<sup>7)</sup>. I am now interested in the discovery of biomarkers and therapeutic targets for HCV-related Hepatocellular Carcinoma and Pancreatic Cancer using two-dimensional gel electrophoresis combined with tandem mass spectrometry<sup>8)</sup>, and in the development of Cys-tag-Protein Chips for high through-put analyses of protein-protein interactions<sup>9)</sup>. My interest is shifting to Membrane Proteomics, Cancer Immunology and Immuno-Proteomics for the development of new diagnostic tools and non-invasive curative treatments of malignant tumors. I have been serving for the promotion of human proteomics as an inaugural member of HUPO and the member of HUPO Council, Education & Training (E&T) Committee, HUPO Test Sample Study<sup>10)</sup>, the co-chair of Human Disease Glycomics Proteome Initiative (HGPI)<sup>11)</sup>, the advisory member of Human Kidney and Urine Proteome Project (HKUPP), and Past President of Japan HUPO and Japanese Electrophoresis Society. The mission for me is to promote E&T of graduate students and young scientists being experts in the field of functional proteomics and clinical proteomics for understanding Molecular System of Life.

Finally I would like to show my deep thanks for your good thoughts and supports to Japan after the disaster on March 11<sup>th</sup>, 2011. The people in the area having the big damage by the earthquake and tsunami are still struggling to rebuild their daily life and to be free from the fear of nuclear fallout. Although it will take time to recover from the damage and the fear, I believe we can make our country better than before the disaster with your strong supports.

#### References:

- 1) The Asia Oceania Human Proteome Organisation Membrane Proteomics Initiative. Preparation and characterization of the carbonate-washed membrane standard. Peng L., et al. *Proteomics*, 10(22), 4142-4148 (2010)
- 2) Japan HUPO for Promotion of Global Collaborations in Human Proteomics. Nakamura K. and Hirano H. *Mol. Cell. Proteomics*, 7(12), 2486-7 (2008)
- 3) Study of the interaction between NADP-dependent dehydrogenase and immobilized adenosine 2'-monophosphate by means of affinity electrophoresis. Nakamura K., et al. *J. Chromatogr. A*, 196, 85-99 (1980)
- 4) Oxidative inactivation of glutamine synthetase subunits. Nakamura K. and Stadtman E. R. *Proc. Natl. Acad. Sci. USA*, 81, 2011-2015 (1984)
- 5) Affinity electrophoresis and its applications to studies of immune response. (Review) Nakamura K. and Takeo K. *J. Chromatogr. B*, 715, 125-136 (1998)
- 6) Differential expression of nucleophosmin and stathmin in human T lymphoblastic cell lines, CCRF-CEM and JURKAT analyzed by two-dimensional gel electrophoresis. Nakamura K., et al. *Electrophoresis*, 16, 1530-1535 (1995)
- 7) Analysis on heat stress-induced hyperphosphorylation of stathmin at serine 37 in Jurkat cells by means of two-dimensional gel electrophoresis and tandem mass spectrometry. Nakamura K., et al. *J. Chromatogr. A*, 1106(1-2), 181-189 (2006)
- 8) Proteomic analysis of cancer tissues: shedding light on carcinogenesis and possible biomarkers. (Review) Kuramitsu Y. and Nakamura K. *Proteomics*, 6(20), 5650-5661 (2006)
- 9) A novel approach of protein immobilization for protein chips using an oligo-cysteine tag. Ichihara T., et al. *J. Proteome Res.*, 5(9), 2144-2151 (2006)
- 10) A HUPO test sample study reveals common problems in mass spectrometry-based proteomics. Bell A.W. et al. *Nature Methods*, 6, 423-430 (2009)
- 11) Comparison of the methods for profiling glycoprotein glycans-HUPO Human Proteome Glycomics/Proteome Initiative Multi-institutional study. Wada Y., et al. *Glycobiology*, 17(4), 411-22 (2007)



## 11th Annual KHUPO International Meeting March 31<sup>st</sup> - April 1<sup>st</sup>, 2011, Busan, Korea

In conjunction with the 10<sup>th</sup> anniversary of KHUPO, the Korean Human Proteome Organization (KHUPO) held the 11th Annual KHUPO International Meeting at Inje University Haeundae Paik Hospital, Busan, Korea from the 31st of March to the 1st of April 2011. The theme of this meeting was "Proteomics: Past and Future".

The 11th KHUPO2011 in Busan hosted about 370 attendees including about 35 speakers from USA, Japan, Sweden, Swiss, France, Iran, Australia, China, Taiwan, Russia, Korea etc. and 62 participants from the 9 different company exhibitors. This Conference provided the proteomics viewpoints of proteome biology and technology, its application to human disease, and drug development. Major proteome-related organizations in Korea, Korea Cancer Society and JHUPO's members etc attended this meeting. Three outstanding plenary lecturers presented knowledge-based human protein atlas project (Dr. Mathias Uhlen), the study of chromosome 17 in Human Proteome Project (Dr. William s. Hancock), identification and functional analysis of co- and post-translational modifications of large protein complexes (Dr. Hisashi Hirano). This year in memory of the 10<sup>th</sup> anniversary of KHUPO, we had special lecture of Andrew Marshall, the editor of Nature Biotechnology. He gave very useful lecture regarding 'How to get published in Nature Biotechnology'. This meeting provided the exchange of new scientific information with 10 symposia in the areas of PTM & proteome biology, proteome 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. In this meeting, outstanding 117 posters were presented by students and researchers. Among them, 15 of the poster presenters were awarded as outstanding Young Scientist Awards. Also, in memory of KHUPO 10<sup>th</sup> anniversary, KHUPO published 10-year KHUPO history book at the welcome reception dinner cruise in this meeting.

This 11<sup>th</sup> KHUPO international meeting in Busan also provided liaison meeting of 4<sup>th</sup> HUPPO Human Proteome Project (HPP) Working Group Workshop on March 30, 2011, held in Novotel Ambassador Busan at Haewoondae Ocean Beach Resort, Busan. This meeting was organized by Young-Ki Paik, the president of HUPPO, Pierre Legrain and Gil Omenn. This satellite meeting was very fruitful in providing the information on the progress and wheeling perspective about the HPP (which was officially launched last year at Sydney HUPPO).

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



11th KHUPO Opening at The INJE University Haeundae Paik Hospital, Busan, Korea

Invited Foreign Speakers and Committee Members on Dinner Cruise at 11th KHUPO





## Proteomics and Translational Medicine

**The Seventh China HUPO Annual Conference & The third International Forum of Proteomics**

April 15-18, 2011, Hangzhou, China

The 7<sup>th</sup> CNHUPO Annual Congress and the 3<sup>rd</sup> International Forum of Proteomics organized by CNHUPO and IFP, was jointly held in the leisure metropolis, Hangzhou, China from April 15<sup>th</sup> to 18<sup>th</sup>, 2011. This jointly conference was co-chaired by Prof. Fuchu He of State Key Laboratory of Proteomics, Prof. Peipei Ping of University of California, Los Angeles (UCLA), Prof. Huilong Duan of Zhejiang University and Prof. Jun Qin from Beijing Proteome Research Center (BPRC).

This international conference, with the theme of “Proteomics and Translational Medicine”, attracted over 800 scientists from China and many from all over the world as well. Spreading over three days, the conference featured 21 keynotes and 94 outstanding speakers. All speakers were featured in 15 different sessions, including proteomics-related translational medicine, bioinformatics of protein science, visualizing human proteomes, chemical proteomics, disease proteomics, functional proteomics, and proteomics related technologies. The training courses and lectures were provided in the afternoon of April 14<sup>th</sup> to over eighty students and young scientists. The opening ceremony was held in the first day of the conference.

Renowned scientists around the world made brilliant speeches on frontier academic studies of proteomics and technology progress in the conference. These speeches are professors as listed: John Yates of Scripps Research Institute, Catherine Costello of Boston University School of Medicine, Gilbert Omenn of University of Michigan, Mathias Uhlen of Royal Institute of Technology, Christopher Overall of the University of British Columbia, Amos Bairoch of Swiss Institute of Bioinformatics, Rolf Apweiler of European Bioinformatics Institute, Lokesh Joshi of National University of Ireland, Henry Rodriguez of National Institutes of Health, Daniel Chan of Johns Hopkins University, Mark Baker of Macquarie University, Jennifer Van Eyk of Johns Hopkins University, Pothur Srinvas of National Institutes of Health, Peipei Ping of UCLA, Zhu Chen of Minister of Health in China, Fuchu He of China State Key Laboratory of Proteomics, Zihao Rao of Tsinghua University, Shusen Zheng of Zhejiang University, Yukui Zhang of Dalian Institute of Chemical Physics, CAS, Xuemin Zhang of Academy of Military Medical Science, and Jun Qin of Beijing Proteome Research Center. Besides, a total of ten overseas Chinese scientists were invited to chair different sessions and gave wonderful speeches, such as Xiaodong Cheng, Jianjun Li, Qingyi Wei and Lei Li all from University of Texas Medical Branch, Min Li from John Hopkins University School of Medicine, Chenwei Lin from Fred Hutchinson Cancer Research Center, Bing Su from Yale University, Rong Wang from Mount Sinai School of Medicine, and Billy Wu from Northeastern University. All participants enjoyed this nationwide conference and were updated with the newest achievements in the field of Proteomics and translational Medicine.





Two mini-symposiums were held during the conference as well. One was an International Consulting Meeting focusing on the Chinese Human Proteome Project (CNHPP) and Pilot Hub Of ENcyclopedical proteomIX (PHONEIX), and the other was the 1<sup>st</sup> China-Europe Symposium on Functional Glycoproteomics: Technology and Clinical Application. In the International Consulting Meeting, Profs. Xiaohong Qian and Jun Qin briefly overviewed CNHPP and PHONEIX, respectively. Over fifty scientists including Gilbert Omenn, Catherine Costello, Rolf Apweiler, Daniel Chan, Mark Baker, Rong Wang, etc. attended and discussed wide range of significance related to the proposal and progression of CNHPP and PHONEIX. The 1<sup>st</sup> China-Europe Symposium focused on the technology development for the functional glycoproteomics study and their application on clinical side. The symposium was co-chaired by Prof. Ping Xu from BPRC and Prof. Lokesh Joshi from National University of Ireland Galway. Twenty scientists from six different countries and officials from both sides of China and European, including Dr. Fuchu He, President of China Human Proteome Organization (CNHUPO), Dr. Xiaoming Jin, Director General of Department of International Cooperation, Ministry of Science and Technology of China, Dr. Philippe Vialatte, Head of the Science, Technology and Environment Section of the European Union Delegation to China, Dr. Tomasz Dylag, Project Officer, European Commission, attended the symposium.



To encourage young researchers, twelve abstracts were selected from a total of 245 abstracts as oral presentations in the session of “Young Investigator Award Competition”. Six of them won the Young Investigator Awards. Meanwhile, twelve outstanding posters from 130 candidates were voted by committee as “Best poster”.

The conference partially supported by 35 companies in the world and 6 local media corporations. Ten vendor companies conducted workshops. Every attendant can appreciate new products and technology developed by the participating companies. The exhibition halls were equipped with buffet dinner and soft drinks. People chatted under the lively communication atmosphere.

The CNHUPO council meeting was held in the evening of April 16 with forty members attended. Prof. Xiaohong Qian summarized work of the 2<sup>nd</sup> CNHUPO Executive committee, followed by the election for the 3<sup>rd</sup> executive committee. Prof. Fuchu He was elected as honored president of CNHUPO; Prof. Pengyuan Yang was elected as president of the 3<sup>rd</sup> executive committee, Prof. Ping Xu was elected as secretary general. Prof. Xiaohong Qian, Jun Qin and Xiangmei Chen were elected as vice presidents of CNHUPO.

Awarding ceremony for Poster and Young Investigator presentation winners was held during the closing ceremony of the conference. At the end, Prof. Pengyuan Yang summarized outcomes of the conference and announced the closing of the 7<sup>th</sup> CNHUPO Annual Congress and the 3<sup>rd</sup> International Forum of Proteomics.

The next CNHUPO conference will be held in Chongqing, China in 2013.





## 2011 TPS Annual Symposium, Taipei, April 27-28

The “*Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium 2011*” was recently held at National Yang-Ming University (NYMU), Taipei, Taiwan. In this conference, four keynote lectures, six symposia, poster sections and exhibition were organized. We aim to put together an exciting scientific program addressing how recent progress in quantitative shotgun proteomics, protein post-translational modification analysis, system biology and bioinformatics can collectively advance the frontiers of clinical proteomics. The 2-day event attracted over 300 participants, with 80 posters and 21 invited lectures from both foreign and local scientists, including a Russian team of nine delegates. Dr. Cheng-Wen Wu, a Distinguished Chair Professor at NYMU, gave a special keynote lecture of ‘Translational Research of Lung Cancer in Taiwan’ to provide perspectives about proteomics in translational medicine. Dr. Andrew H.-J. Wang at Academia Sinica had an invited lecture on the application of structural proteomics to drug discovery. Dr. Alexander I. Archakov from Russian Academy of Medical Sciences led the Russian delegation to promote the Taiwan-Russian Joint Proteomics Research program. He also presented the prospective and progress on ‘From Human Genome Project to Human Proteome Project’, heading a series of reports about the progress on. The symposium further provided opportunities for local student and young participants to present their work through lecture and poster communications, which covered many different fields of proteomics, including translational medicine, biomarker discovery, biomarker assays, technical advances, protein modification and bioinformatics.





12th Human Proteome Organisation World Congress

# 12th HUPO World Congress

Co-Chairs

Hisashi Hirano  
Naoyuki Taniguchi  
Kazuyuki Nakamura

*The Evolution of  
Technology in Proteomics*

*Japan*



Date : 14-18 September, 2013 Venue : Pacifico Yokohama

Organizing Secretariat

12th HUPO secretariat c/o Convention Linkage, Inc.  
PIAS TOWER 11F, 3-19-3 Toyosaki, Kita-ku, Osaka 531-0072, Japan  
E-mail: hupo2013@c-linkage.co.jp

<http://www.hupo2013.com>





## UPCOMING EVENTS

July  
2011

**9th Annual Conference of Japan Human Proteome  
Organization (Japan Proteome Society 2011)**

**July 28-29, 2011**

Niigata, Japan

<http://www.jhupo.org/>

September  
2011

**HUPO 10<sup>th</sup> Annual World Congress, (HUPO2011)**

**September 4-7, 2011**

Geneva, Switzerland

<http://www.hupo2011.com>

December  
2011

**"International Conference on Omics Meets Disease  
&**

**IIIrd Annual Meeting of Proteomics Society (India)"**

**Organized by Saha Institute of Nuclear Physics (SINP), Indian  
Institute of Chemical Biology (CSIR-IICB) & University of Calcutta,  
Kolkata, INDIA**

**December 15 – 18, 2011**

SINP Auditorium Complex, Salt Lake, Kolkata, India



**Any material submitted will be subject to approval by the AOHUPO  
Executive Committee and the Publications Committee**

**AOHUPO EC members:**

**President:** Kazuyuki Nakamura (Japan)([nakamura@yamaguchi-u.ac.jp](mailto:nakamura@yamaguchi-u.ac.jp))

**Past President :** Young-Ki Paik (South Korea)([paiky@yonsei.ac.kr](mailto:paiky@yonsei.ac.kr))

**Vice President:** Fuchu He (China)([hefc@bmi.ac.cn](mailto:hefc@bmi.ac.cn))

**Vice President:** Bill Jordan (New Zealand)([Bill.Jordan@vuw.ac.nz](mailto:Bill.Jordan@vuw.ac.nz))

**Secretary General:** Maxey C.M. Chung (Singapore)([bchcm@nus.edu.sg](mailto:bchcm@nus.edu.sg))

**Directors of Human Embryonic Stem Cell MPI:**

Ghasem Hosseini Salekdeh (Iran)([h\\_salekdeh@abii.ac.ir](mailto:h_salekdeh@abii.ac.ir))

Yu-Ju Chen (Taiwan) ([yjchen@chem.sinica.edu.tw](mailto:yjchen@chem.sinica.edu.tw))

If you wish to contribute news, notices of events, or any other items, please feel free to forward it to AOHUPO Newsletter Office:

Iranian Proteomics Society  
P.O. Box (31535- 1897), Karaj, Iran.  
Telfax : +98-261-2702893  
Email: [h\\_salekdeh@abii.ac.ir](mailto:h_salekdeh@abii.ac.ir)

**Newsletter Editor :**  
Ghasem Hosseini Salekdeh (Iran)