Organized by
Fernando J. Corrales, Concha Gil and Young-Ki Paik.
19th C-HPP Symposium
June 16-17 2018
Santiago de Compostela, Spain

Venue: Faculty of Medicine, University of Santiago de Compostela: In the heart of the old city, close to Hotel Monumento San Francisco (EuPA meeting venue).

Saturday, June 16th

8:00h-8:20h  Registration.

8:20h-8:30h  Welcome Message. Fernando J. Corrales.

8:30h-9:00h  The Human Proteome Project. Gil Omenn.

9:00h-9:20h  C-HPP: Progress Update and Future Direction: Young-Ki Paik (C-HPP Chair).

9:20h-11:00h  MP success and new strategies Red team (Chris Overall).

- The proteome of human cerebrospinal fluid and the identification of missing proteins (10 min). Charlotte Macron. Nestlé Institute of Health Sciences SA. Lausanne, Switzerland.
- Short oral C-HPP group 2 (10 min). Christoph Borchers. UVic–Genome BC Proteomics Centre
- New Workflow for Identification of Native Peptides in Urine: From sample preparation and ion mobility TOF MS to Bioinformatics (10 min). Tadashi Yamamoto. Biofluid Biomarker Center, Niigata University, Japan.
- Identification of missing proteins in mesenchymal stem cells derived from fat tissue and umbilical cord (10 min). Miguel Marcilla. National Center of Biotechnology-CSIC. Madrid, Spain.
- Discussion (20 min).

11:00h-11:30h  Coffee break.
11:30h-13:30h  Bioinformatics, Green team (Lydie Lane).

Update on the Status of Target Proteins -- MPs, uPE1, smORFs, IncRNAs and others.

- Introduction (10 min). **Lydie Lane**. SIB-Swiss Institute of Bioinformatics.
- Re-using and integrating public proteomics data to improve our knowledge of the human proteome (20 min). **Juan A. Vizcaíno**. ProteomeXchange. EMBL-EBI.
- Keynote presentation 2 (20 min). **Jong Shin Yoo**. Korea Basic Science Institute.
- Action plan to decipher functions of Chr18 encoded proteins in the frame of neXt-CP50 Challenge (15 min). **Elena Ponomarenko**. Department for Bioinformatics. Institute of Biomedical Chemistry, Moscow, IBMC ·
- Assessment of sample preparation bias in mass spectrometry-based proteomic (15 min). **Peter Horvatovich**. University of Groningen, The Netherlands.
- Discussion (40 min).

13:30h-15:00h  Lunch break.

15:00h-17:00h  neXt-CP50 Challenge: functional annotation, Blue team (Young-Ki Paik).

- Proteomics and metabolomics signatures of Zika congenital syndrome (20 min). **Gilberto Domon**. Institute of Chemistry, Universidade Federal do Rio de Janeiro.
- Combining bioinformatics and experimental methods to discover the function of poorly characterized human proteins - lessons from the CALIPHO project (20 min). **Lydie Lane**. SIB-Swiss Institute of Bioinformatics, University of Geneva, Switzerland.
- Sensitivity and specificity of mass-spectrometric proteomic technologies as factors determining the prospects for the CHPP project (10 min). **Alexander Archakov**. Institute of Biomedical Chemistry, Moscow, IBMC.
- Splice variants in Biology & Disease: Chromosome 12 and Beyond (10 min). **Ravi Sirdeshmukh**. Institute of Bioinformatics, Discoverer, ITPL. Bangalore, India.
- Short oral C-HPP group 3 (10 min). **Andrea Urbani**. University of Rome “Tor Vergata”
- Short oral C-HPP (10min). **Ghasem Hosseini Salekdeh**.
- Deciphering Functional roles of missing proteins by Comprehensive integration of affinity proteomics, MS/MS & RNA-sequencing datasets in Chronic Lymphocytic Leukemia tumor B cells and healthy B cell subpopulations in the context of the Chromosome-Centric Human Proteome Project (10 min). **Manuel Fuentes**. Center for Cancer Research, University of Salamanca-CSIC.
- Discussion (30 min)

17:00h-19:00h  C-HPP EC meeting.

EuPA and C-HPP dinner.
Sunday, June 17th

9:00h-10:45h Young Investigators session.

- Proteogenomics: Combining Next Generation Sequencing and Mass Spectrometry in Candida albicans (12+3 Q&A min). **Mónica Franch. National Center of Biotechnology-CSIC. Madrid, Spain.**
- Speaker 2 (12+3 Q&A min). **Seul-Ki Jeong.** YPRC. Yonsei Proteome Research Center. Seoul, Korea.
- Differential Immune Recognition of the Candida albicans yeast and Hyphal cell surface Proteomes in invasive Candidiasis (12+3 Q&A min). **Aida Pitarch.** Complutense University of Madrid, Spain.
- Identification and characterization of missing proteins from human chromosome 9 (12+3 Q&A min). **Yong-In Kim.** Korea Research Institute of Standards and Science.
- Proteins Involved in RNA Splicing, Proteins synthesis and apoptosis are differentially abundant in Macrophages after interacting with Candida albicans (12+3 Q&A min). **Catarina Oliveira.** Complutense University of Madrid, Spain.
- Speaker 6 (12+3 Q&A min). **Heeyoun Hwang.** Korea Basic Science Institute, KBSI.
- Gene Editing for neXt-CP50 and neXt-MP50 challenges (12+3 Q&A min). **Katerina Poverennaya.** Institute of biomedical chemistry, Moscow, Russia.

10:45h-11:15h Coffee break

11:15h-13:30h Long-term plans and directions for C-HPP (Young-Ki Paik, Christoph M. Overall).

- Re-structuring C-HPP Teams for Phase II (2019-)
- Strategies for the identification of MPs (Using info available on public proteome databases, proteogenomics, proteoforms, small ORFs, etc.).
- Strategies for the functional annotation of Dark Proteome (MPs, uPE1, smORFs and lncRNA proteins) (Russian team proposal, and others).
- Synergies and interactions across C-HPP and B/D-HPP groups (samples, data sharing...).
- Other issues

13:30h-14:00h Next C-HPP meetings and other business.

- 2018 JPR SI Update Christoph M. Overall.
- 2018 HUPO Congress Workshop Plans Young-Ki Paik.
- 2019 C-HPP Workshop Plans in St. Malo (Charles Pineau).