

A HPP Guide to HUPO2018 Orlando

Sunday HPP Investigators Program

Venue: *Loews Royal Pacific (Universal Studios) in Orlando*

Sept 30, 2018

The investigators of the HUPO Human Proteome Project will hold their annual workshops to assess progress on the major components of the Project: Chromosome-centric HPP teams (C-HPP), Biology and Disease-based HPP teams (B/D-HPP), and the resource pillars (Pillars) for antibody profiling, mass spectrometry, and knowledge bases. Initiatives to complete the “protein parts list” (C-HPP) and to apply targeted proteomics to organ-specific biological studies (B/D-HPP) will be highlighted. The meeting will include Executive reports on the activity of the chromosome-based teams, biology and disease-based teams, and the resource pillars. Open debates on strategic issues including challenges and applications of affinity reagents, knowledge bases and data analysis resources, and new opportunities and challenges to explore the uncovered proteome from a functional perspective will be held. This meeting is open to all congress delegates; all are welcomed.

07:30-8:50 C-HPP EC and B/D-HPP EC individual breakfast meetings (**Rooms TBC: x, y**; coffee available for general participants from 8:40).

9:00-9:15 HPP Overview: Gil Omenn (**Room x TBC**)

9:15-10:15 HPP Reports (8 min + 4 min Q&A each): **Chair: Gil Omenn**

1. C-HPP (Young-Ki Paik)
2. B/D-HPP (Fernando J. Corrales)
3. Knowledge Base Pillar (Eric Deutsch & Lydie Lane)
4. MS Pillar (Sue Weintraub)
5. Pathology Pillar (Dan Chan/Ed Nice)

10:15-12:00 Featured HPP Session: Chair: Mark Baker

1. C-HPP 2.0 Future Plans (Chris Overall; 20 mins including questions)
2. B/D-HPP, Prioritization of Popular Proteins (Kun-Hsing Yu; 20 mins including questions)
3. Antibody Validation Initiative (Jochen Schwenk introduction (2 min), Mathias Uhlen revised antibody validation pillars (8+2 min); Cecilia Lindskog Bergström Validation in HPA/WB and plasma (8+2 min); Heng Zhu Abs to transcription factors (8+2 min); Lydie Lane NextProt (8+2 min); Cristina Al-Khalili Szigyarto Antibodypedia (8+2 min))

12:00-13:00 Lunch and Discussion with SAB Members

13:00-13:40 Round Table 1: Major public DBs and MS data analysis (Lydie Lane, Eric Deutsch)

Leaders of neXtProt, PeptideAtlas, and ProteomeXchange will highlight developments at each DB and invite comments and inquiries from end users

13:40-14:20 Round Table 2: Exploring the undiscovered “dark” proteome (Young-Ki Paik/ Fernando Corrales)

Accelerating progress to identify PE2-4 Missing Proteins
Generating functional annotations for uPE1 Proteins
Mobilizing/connecting C-HPP and B/D-HPP teams

14:20-15:40 Breakout Sessions: C-HPP PIC Meeting (Rm 1 TBC**) and B/D-HPP PI Meeting (**Rm 2 TBC**)**

C-HPP: organizational and scientific strategies

B/D-HPP: Rheumatoid Diseases, PediOme, Glycoproteomics, KUHP, CVD, Diseaseome)

14:20-15:40 Self-organized discussions by and for HPP investigators not in PIC mtgs, including resource pillars

15:00-16:30 Informal Reception (joined by PIC members at 15:40)

15:45 HUPO Council Meeting for HUPO Councilors

(Baker, Pennington, Overall, Weintraub, Martens, Hui Zhang)