

C-HPP workshop

Characterizing the Building Blocks of the Human Proteome

National Center for Biotechnology

April 24-26, 2024; Madrid

Wednesday, April 24

13:00-14:30 Welcome Lunch

Preworkshop Working Group on Protein Identification and Function Guidelines
(Chairs: Rob Moritz + Charles Pineau + Eric Deutsch)

14:30 – 16:30: Discussion on guidelines for (i) assigning protein function for the Grand Challenge, incorporating, (ii) With HUPO's loss of support from neXtprot, also to be discussed will be a new repository for HPP progress on completing the Human Proteome Project and where the data will reside for functional annotation of the Human Proteome, (iii) Incorporation of neXtprot tools into UniProt. (iv) SWATH/DIA data into the HPP.

16:30 Coffee

17:00 Finalize recommendations and action items on the three aims.

18:00 Dinner *ad hoc* in central Madrid, Tapas!

Thursday, April 25

Session One: Grand Challenge (Chairs Charles Pineau + Fernando Corrales)

9:00 Chris Overall. Welcome and outline of workshop.

9:15 Charles Pineau. C-HPP in Le Grand Challenge: (20 min + 10 mins)

9:45 General Discussion on the Grand Challenge and HPP Database Management

11:00 Coffee break

11:30 Gong Zhang (20 min + 10 mins): "Proteome-wide Functional Annotation Using Deep-Learning-based Protein Structures".

12:00 Uwe Volker. Discussion Summary: Challenges in the Grand Challenge. (20 min + 10 mins)

12:30 - 14:00 Lunch

Session Two: Mission of the C-HPP (Chairs: Gong Zhang + Heeyoun Hwang)

14:00 Chris Overall. Outline of the C-HPP Mission Statement.

14:15 – 15:15 General Discussion on the C-HPP Mission Aims. Including gender and geographic diversity in the leadership of teams and EC, inactive teams/team renewal.

15:15 Yong-In Kim (Chr 9) (ECR) (15 min + 5 min): "Exploring Uncharacterized Proteins on Chromosome 9: Current Progress and Insight"

15:35 Alejandra Delgado (ECR) (15 min + 5 min): "Investigating the Function NDUFAF4 in the Context of Cholestasis".

16:00 Much-needed coffee break

16:30 Sergio Encarnación-Guevara (20 min + 10 mins): "Chromosome 19: Progress in the characterization of proteins without assigned function."

17:00 Heeyoun Hwang (20 min + 10 mins): "uPE1 Study with Cholangiocarcinoma and PDAC Proteome Data"

17:30 Rob Moritz (20 min + 10 mins): Collective Thoughts on the C-HPP Mission and Direction

18:00 Session Close



Retire to hotels to freshen up and then meet for aperos and dinner at a destination to be announced by Madrid Natives (Fernando).

Friday, April 26:**Session Three: Meeting the Challenge** (Chairs Cecilia Lindskog + Sergio Encarnación-Guevara)**9:00 Cecilia Lindskog** (Incoming Chair HPP): (20 min + 10 mins) “Solve the Protein Puzzle – The Grand Challenge to Understand the Different Pieces of the Human Proteome”**9:30 Min-Sik Kim** (new Chr 13 Head, Korea): (20 min + 10 mins) “Breast Cancer Proteome and Chromosome 13”**10:00 Chris Overall** (Chair C-HPP): (20 min + 10 mins) “Physiological vs. Pathological Functions of Proteins in the Grand Challenge”**10:30** Coffee break**11:00 Frank Schmidt** (new Head, Chr 21, Qatar Team): (20 min + 10 mins) “How can Olink Contribute to the HPP project?”**11:30 – 12:30** Open Discussion on technologies, approaches, and bioinformatics to meet the Grand Challenge.**12:30** Meeting Close

Campus Restaurant fine dining and departure.

Link for registrations

<https://docs.google.com/forms/d/1hiMxfv8xEPsfqmYz0z4gGbbC8QUKqOWqxtQI0A5RUMU/edit#responses>

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