HUPO Human Brain Proteome Project Workshop
May 27-28, 2019
VUmc, Amsterdam

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Monday 27th May 2019

10:45 Registration (coffee)

11:15 Welcome on behalf of HBPP
Charlotte Teunissen, VUmc, Amsterdam

Session 1: Neuroproteomics to understand brain physiology (Chair: Connie Jimenez)

11:30 Introducing the HPA Brain Atlas, a brain-centric sub atlas with regional expression maps of the human, mouse and pig brain
Evelina Sjöstedt, Department of Neuroscience, Karolinska Institute, Stockholm, Sweden

11:50 Insights into biology and pathology of PNS myelin
Olaf Jahn, Proteomics Group, Max-Planck-Institute of Experimental Medicine, Göttingen, Germany

12:10 Proteome analysis of age-associated lipofuscin using laser microdissection and nanoLC-MS/MS
Sarah Kristin Tschirner, Department of Neuropathology, Heinrich Heine University Düsseldorf, Germany

12:30 The association of aging and concentrations of the cerebrospinal fluid proteome in cognitively normal subjects
Kirsten Wesenhagen, Alzheimer Center, VUmc, Amsterdam UMC, the Netherlands

13:00-14:00 Lunch break

Session 2: Dementia disorders I (Chair: Charlotte Teunissen)

14:00 Cluster Analysis of Protein Profiles in Genetic Frontotemporal Dementia
Abbe Ullgren, Department of Neurobiology, Karolinska Institutet, Stockholm, Sweden

14:20 Proteomic analysis of cerebrospinal fluid from patients with C9orf72 hexanucleotide repeat expansion
Peggy Barschke, Department of Neurology, Ulm, Germany
14: 40 Differences in CSF and Plasma Protein Levels in FTD Patients Compared to Presymptomatic Mutation Carriers and Non-carriers.

Linn Öijerstedt, Department of Neurobiology, Karolinska Institutet, Stockholm, Sweden

15:00 Developments in CSF proteomics for profiling neurodegenerative diseases

Connie Jimenez, Oncoproteomics Lab, VUmc, Amsterdam UMC, The Netherlands

15:20 Identification of novel CSF biomarkers in DLB: a proteomic approach

Charlotte Teunissen, Neurochemistry Lab, VUmc, Amsterdam UMC, The Netherlands

15:45-16:15 Coffee Break

Session 3: Psychiatry disorders (Chair: Oliver Schubert)

16:15 Cannabinoid-induced proteomics changes in oligodendrocyte cells: possible implications for schizophrenia

Valéria Almeida, Laboratory of Neuroproteomics, Institute of Biology, Unicamp, Campinas, Brazil

16:35 Autopsychomics: Exploring autoantibody profiles in psychiatric disorders

August Jernbom Falk, SciLifeLab, KTH Royal Institute of Technology, Stockholm, Sweden

16:55 Blood-based proteomic and metabolomic biomarkers for Autism Spectrum Disorder and Attention Deficit Hyperactivity Disorder; a systematic review

Lauren Pawley, Department of Anatomy and Neuroscience, University College Cork, Cork, Ireland

17:15 Peripheral blood protein markers associated with lithium treatment response in bipolar disorder

Oliver Schubert, Discipline of Psychiatry, University of Adelaide, Australia

17:35 To be announce

Daniel Martins-de-Souza, Laboratory of Neuroproteomics, Institute of Biology, Unicamp, Campinas, Brazil

19:00 Dinner StrandZUID

Europaplein 22, 1078 GZ Amsterdam
Tuesday 28th May 2019

Session 4: Other neurological disorders (Chair: Peter Nilsson)

8:30 Identifying protein biomarkers of Japanese encephalitis virus infection in cerebrospinal fluid
Tehmina Bharucha, Department of Biochemistry, University of Oxford, UK

8:50 Identification of potential peripheral biomarker candidates for Late-Life Depression through HDMSE
Lícia C. Silva-Costa, Laboratory of Neuroproteomics, University of Campinas (UNICAMP), Brazil.

9:10 Molecular mimicry between Anoctamin 2 and Epstein-Barr virus nuclear antigen 1 associates with multiple sclerosis risk
Peter Nilsson, SciLifeLab, KTH Royal Institute of Technology, Stockholm, Sweden

09:30- 10:00 Coffee break

Session 5: Dementia disorders II (Chair: Marta del Campo)

10:00 Detection of artificial blood contamination in CSF and its impact on the quantitative analysis of alpha-synuclein
Katrin Marcus, Medizinisches Proteom-Center, Ruhr-University Bochum, Germany

10:20 Protein profiling reveals correlations to CSF tau levels in preclinical Alzheimer’s disease.
Anna Månberg, SciLifeLab, KTH-Royal Institute of Technology, Stockholm, Sweden

10:40 Neuroproteomic profiling of cerebrospinal fluid within Alzheimer’s disease
Sofía Bergström, SciLifeLab, KTH-Royal Institute of Technology, Stockholm, Sweden

11: 00 Novel CSF proteins for specific and differential diagnosis of Alzheimer’s disease.
Marta del Campo, Neurochemistry Lab, VUmc, Amsterdam UMC, The Netherlands

11:30-12:15 Lunch
Session 6: Neuroproteomics to understand pathological mechanisms (Chair: Katrin Marcus)

12:15 Tissue protein profiles in patients with definite frontotemporal dementia identified by aptamer-based proteomics.
Rosha Babapour Mofrad, Neurochemistry Lab, VUmc, Amsterdam UMC, The Netherlands

12:35 A brain tissue proteomic approach to uncover dysregulated molecular pathways in frontotemporal dementia
Claire Bridel, Neurochemistry Lab, VUmc, Amsterdam UMC, The Netherlands

12:55 Proteomic characterization of asymptomatic and symptomatic ALS patients
Patrick Oeckl, Ulm University Hospital, Department of Neurology, Ulm, Germany

13:15 Proteomics of neurodegenerative diseases
Ka Wan Li, Department of Molecular and Cellular Neurobiology, VU Amsterdam, The Netherlands

13:45 Close and best presentation award.

HBPP 2019 is supported by:

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