

# HUPO Human Brain Proteome Project Workshop

May 27-28, 2019  
VUmc, Amsterdam



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 **Amsterdam UMC**  
University Medical Centers

Image by Nikolai Karaneshev

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# HBPP Spring workshop 2019

May 27-28, Amsterdam, The Netherlands  
(VUmc: Waver, ZH -1C 118.17)



## Monday 27<sup>th</sup> 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 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*



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**Tuesday 28<sup>th</sup> 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

**Licia 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

**Sofia 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:*

