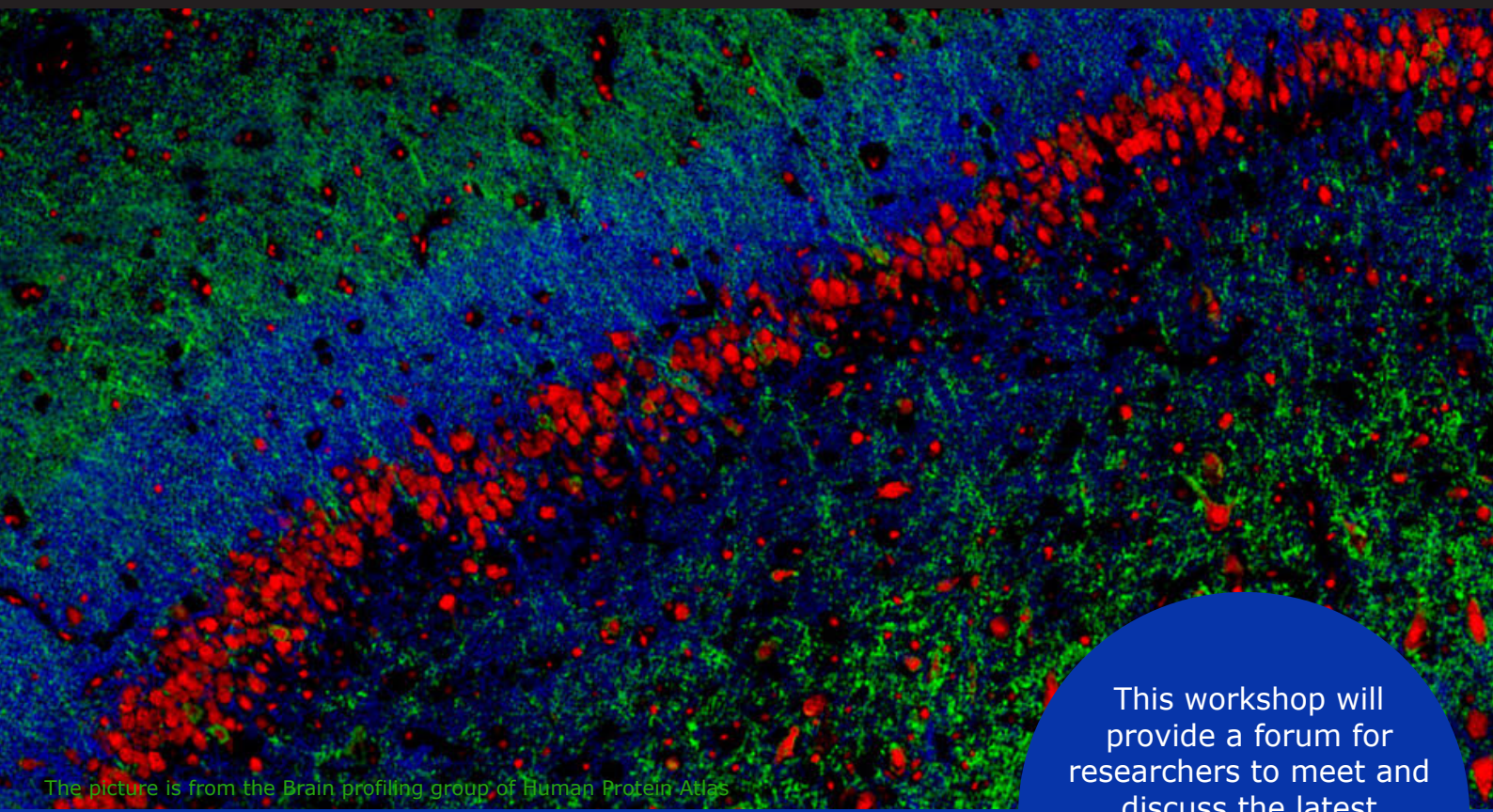


# 31st HUPO Human Brain Proteome Project Workshop

18-19 May 2021

Virtual Workshop in Neuroproteomics



The picture is from the Brain profiling group of Human Protein Atlas

Information and Registration  
<https://hbpp2021.wixsite.com/workshop>


This workshop will provide a forum for researchers to meet and discuss the latest developments in proteomic initiatives to better understand brain disorders.



# 31st HUPO Human Brain Proteome Project Workshop

We invite you to an interactive meeting composed of short talks in an informal environment focusing on:

- Protein profiling**
- Human tissues and fluids
  - Brain disorders
  - Protein biomarker candidates

 [hbpp2021@gmail.com](mailto:hbpp2021@gmail.com)     [hbpp2021](#)

## Registration

Visit <https://hbpp2021.wixsite.com/workshop> for information and registration details.

Each participant is invited to submit an abstract of 200 words for a 10 minute oral presentation. Submission deadline is April 9, 2021. No registration fee this year.

## Time

Two sessions per day will be held to maximise possibility of attendance of participants from different time zones, e.g. US, Europe, Asia, Australia. Exact times will be released with the program.

## Organizers

Giuliana S. Zuccoli, Sofia Bergström and Subash Raj Susai

## HBPP steering committee

Charlotte Teunissen, VU University Medical Center Amsterdam, Netherlands  
Daniel Martins-de-Souza, University of Campinas, Brazil  
Katrin Marcus, Medizinisches Proteom-Center, Bochum, Germany  
Melanie Föcking, Royal College of Surgeons in Ireland, Dublin, Ireland  
Oliver Schubert, University of Adelaide, Australia  
Peter Nilsson, SciLifeLab, KTH Royal Institute of Technology, Stockholm, Sweden  
Robert McCullumsmith, University of Toledo, Toledo, USA

**HBPP mission:**

**“Create and harbour a broad and global network of neuroproteomic researchers with a focus of attracting young researchers”**





# 31ST HUPO HUMAN BRAIN PROTEOME PROJECT WORKSHOP

Date: 18-19 May 2021

Time: Starts at 9.00 A.M. [UTC]

The picture is from the brain profiling group of Human Protein Atlas

VIRTUAL WORKSHOP IN NEUROPROTEOMICS



## Sponsors

ATLAS ANTIBODIES

PREOMICS

<https://hbpp2021.wixsite.com/workshop>

## Day 1 (18<sup>th</sup> May 2021)

### SESSION 1, CHAIRED BY OLIVER SCHUBERT

9:00 [UTC]	Welcome address
9:15	Talk: Proteomic characterization of neuromelanin granules and substantia nigra in health and disease, Maximilian Wulf, Germany.
9:30	Talk: Identification and characterization of unknown subgroups of Parkinson patients, Daniel Kleefisch, Germany.
9:45	Talk: Cerebrospinal Fluid Levels of Kininogen-1 Indicate Early Cognitive Impairment in Parkinson's Disease, Ioanna Markaki, Sweden.
10:00	Talk: Synaptic proteome alterations in a rat model of progressive parkinsonism, Arantzazu Beloso-Iguerategui, Spain.
10:15	Talk: MRM measurement of glucocerebrosidase activity and protein levels in CSF as biomarkers for Parkinson's disease, Patrick Oeckl, Germany.
10:30	Break

### SESSION 2, CHAIRED BY KATRIN MARCUS

10:45 [UTC]	Talk: Identification of candidate biomarkers of Alzheimer Disease's by proteomics, Miren Alonso, Spain.
11:00	Talk: Smelling the dark proteome: Functional Characterization of PITH domain-containing protein 1 (C1orf128) in olfactory metabolism, Mercedes Lachen, Spain.
11:15	Talk: Identification of dysregulated proteins in Alzheimer's Disease that could be key for the understanding of the disease by quantitative proteomics, Ana Montero Calle, Spain.
11:30	Talk: Validation by biosensing approaches of new diagnostic biomarkers of Alzheimer Disease's identified by Phage Display and Protein Microarrays, Rodrigo Barderas, Spain.
11:45	Talk: Characterization of the olfactory tract proteostatic imbalance in Alzheimer's and Parkinson's diseases: cross-disease similarities and differences, Paz Cartas-Cejudo, Spain.

12:00 Lunch

### SESSION 3, CHAIRED BY ROBERT MCCULLUMSMITH

13:00 [UTC]	Welcome back
13:15	Guest Talk: Atlas Antibodies
13:30	Guest talk: PreOmics
13:45	Talk: Proteomic Exploration of Microglia Behavior in the Presence of Brain Cancer, Iulia Lazar, USA.
14:00	Talk: Deciphering biomarkers by Comprehensive multipronged proteomics characterization of Cerebrospinal fluid from lep-tomeningeal metastasis in B-cell lymphoma, Manuel Fuentes, Spain.
14:15	Talk: Quantitative profiling of axonal guidance proteins during the differentiation of human neurospheres, Magno Junqueira, Brazil.
14:30	Talk: SARS-CoV-2 infects brain astrocytes of COVID-19 patients and impairs neuronal viability, Victor Corasolla Carregari, Brazil.
14:45	Break

### SESSION 4, CHAIRED BY PETER NILSSON

15:00	Talk: Mitochondrial, cell cycle control and neurogenesis alterations in an iPSC-based neurodevelopmental model for schizophrenia, Giuliana Zuccoli, Brazil.
15:15	Talk: Complement and coagulation proteins in first episode psychosis: A proteomic insights from the OPTiMiSE cohort, Subash Susai, Ireland.
15:30	Talk: Parallel Microscopy, Proteomic, and Phosphoproteomic Analyses of Human Brain Tissue Identify Candidate Phosphorylation Events for Synaptic Pathology in Schizophrenia, Matthew MacDonald, USA.
15:45	Talk: The Effect of Clozapine on Adipose Tissue Cells, Aline Gazzola Fragnani Valença, Brazil.
16:00	Talk: Active kinome profiling in human brain substrates, Robert McCullumsmith, USA.
16:15	Closing remarks



## Day 2 (19<sup>th</sup> May 2021)

SESSION 5, CHAIRED BY MELANIE FÖCKING	
9:00	Welcome
9:15	Talk: Acute stress alters cerebellum metabolome, Aikaterini Iliou, Greece.
9:30	Talk: Altered IL-17 Pathway Changes in Autism Spectrum Disorder: A Systematic Review and Bioinformatic Analysis of Blood Based Biomarkers, Daragh O'Boyle, Ireland.
9:45	Talk: Autoantibodies in traumatic spinal cord injury and their impact on neuronal regeneration, Annika Guntermann, Germany.
10:00	Talk: Autoantibody profiles associated with clinical features in psychotic disorders (Part 1) - Technical aspects of exploring the autoimmune landscape, August Jernbom Falk, Sweden.
10:15	Talk: Autoantibody profiles associated with clinical features in psychotic disorders (Part 2) - Summary of findings, Oliver Schubert, Australia.
10:30	Break
SESSION 6, CHAIRED BY CHARLOTTE TEUNISSEN	
10:45 [UTC]	Talk: New bioinformatic approaches to get more out of your data, Julian Uszkoreit, Germany.
11:00	Talk: BIONDA: A free database for a fast information on published biomarkers, Michael Turewicz, Germany.
11:15	Talk: Morphine-induced Nfr-2 pathway modulation in primary human brain microvascular endothelial cells, Sandrine Reymond, Switzerland.
11:30	Talk: Proteomic profiling of human brain reveals the Inter-hemispheric laterality & Inter-regional expression, Deeptarup Biswas, India.
11:45	Talk: The brain sections of the human protein atlas, Jan Mulder, Sweden.
12:00	Lunch
SESSION 7, CHAIRED BY DANIEL MARTINS-DE-SOUZA	
13:00 [UTC]	Welcome back
13:15	Talk: TearProt - Characterization of tear fluid in patients with diabetes mellitus, Caroline May, Germany.
13:30	Talk: Systems-based examination of MAPK signaling in human stem cell derived retinal ganglion cells during cell death, Joseph Mertz, USA.
13:45	Talk: Exploring similar and different features of sporadic and familial ALS proteome, Viviana Greco, Italy.
14:00	Talk: Cerebrospinal fluid proteomics reveal altered protein levels in frontotemporal dementia, Sofia Bergström, Sweden.
14:15	Talk: Amyloid co-pathology in dementia with Lewy bodies is associated with a distinct cerebrospinal fluid proteomics profile, Lisa Vermunt, Netherlands.
14:30	Social activity and closing remarks