

# BRAIN AGING, NEURODEGENERATION, AND THE ROLE OF NATURAL MOLECULES IN MAINTAINING BRAIN HEALTH

## Scientific Meeting

Polish Academy of Sciences Scientific Station in Paris

74, rue Lauriston, 75116 Paris

October, 11-13 2023

## PROGRAMME

**Wednesday, October 11**

*Brain aging and neurodegenerative diseases*

**09:00-9:15 Welcoming Remarks**

**Dr. Eng. Magdalena Sajdak**, PAS Scientific Center in Paris, France

**Dr. M. Kujawska**, Poznan University of Medical, Poland

**9:15-10:00 Dr. Grzegorz Kreiner** - Dept. Brain Biochemistry Maj Institute of

Pharmacology PAS, Krakow, Poland, “CEPHARES – a new R&D center at the  
Maj Institute of Pharmacology: mission, opportunities, perspectives”

**10:00-10:45 Dr. Rosanna Parlato** - Mannheim Center of Translational Neuroscience  
Medical Faculty Mannheim Heidelberg University, Mannheim, Germany  
“Dysregulation of quality control mechanisms in age-related neurodegenerative  
diseases”

**10:45-11:00 COFFEE BREAK**

- 11:00-11:45 Dr. Witold Konopka** - Laboratory of Neuroplasticity and Metabolism Dept. of Life Sciences and Biotechnology PORT Łukasiewicz, Wrocław, Poland  
“Neuronal microRNA function in health and disease”
- 11:45-12:30 Dr. Katarzyna Kuter-Nowak** - Dept Neuropsychopharmacology Maj Institute of Pharmacology PAS, Krakow, Poland, “Glia – a new player in Parkinson’s disease animal models”
- 12:30-14:00 LUNCH BREAK**
- 14:00-14:45 Dr. Andrii Domanskyi** - Orion Pharma, Helsinki, Finland, “Targeting pathological protein aggregation in neurodegeneration: dead end or a new hope?”
- 14:45-15:30 Dr. Vittorio Maglione** - IRCCS Neuromed, Pozzilli (IS), Italy, “Glycosphingolipid metabolism as potential therapeutic target for Huntington’s disease”
- 15:30-16:00 Prof. Pierre-Marie Lledo** - Laboratory of “Genes, Synapses and Cognition” at the CNRS and laboratory of “Perception and Memory” at the Pasteur Institute, Paris, France “The embodied brain”
- 16:00-16:45 Panel-** French Embassy, ABM
- 16:45** Day One Summary

**Thursday, October 12**

***Effect of nutrition on the brain. AI and nanotechnology in neurodegenerative diseases***

**9:15-16:45 All day poster session**

**9:15-10:00 Prof. Gerard Clarke** - Dept Psychiatry and Neurobehavioral Science Ireland  
University of Cork, Ireland, “Focus on stress and tryptophan metabolism in the  
microbiota-gut-brain axis”

**10:00-10:45 Prof. Peter McCaffery** - Institute of Medical Sciences, University of Aberdeen,  
Aberdeen, UK, “A vitamin for sustaining the brain in health and disease”

**10:45-11:00 COFFEE BREAK**

**11:00-11:45 Prof. Jean Luc Olivier** - CHRU de Nancy, Pôle des Laboratoires, Service de  
Biochimie-Biologie Moléculaire-Nutrition, Nancy, France, “ Impact of dietary  
arachidonic acid on gut-brain axis, putative contribution to AD”

**11:45-12:30 Prof. Lydia Giménez Llort** - Universitat Autònoma de Barcelona, Barcelona,  
Spain “Coffee, sugars and fish in normal aging and Alzheimer's disease under  
the lens of sex/gender translational behavioral neuroscience”

**12:30-14:00 LUNCH BREAK**

**14:00-14:45** **Dr. Ajeet Kaushik** - Florida Polytechnic University, USA, “Nanobiotechnology is getting into the brain”

**14:45-15:30** **Prof. Karol Kozak** - Medical Faculty Technical University Dresden, Dresden, Germany, “AIMS ready for AI: neurological data acquisition platform”

**15:30-16:00** **Prof. Martin Hofmann-Apitius** - Fraunhofer Institute for Algorithms and Scientific Computing SCAI, Sankt Augustin, Germany, “PHARMACOMES: cause-and-effect models linking drugs, targets and disease mechanisms”

**16:00-16:45** "Economics of drug development in precision medicine and AI between funding and commercialization"

**Malgorzata Chalupowski**, Copernicus Institute

**Prof. Martin Hofmann-Apitius**, Head of the Department of Bioinformatics  
Fraunhofer Institute for Algorithms and Scientific Computing (SCAI)

**Rudi Schmidt**, CEO Immunetree

**16:45** Day Two Summary

**Friday, October 13**

*Neuroprotective role of phytochemicals and their metabolites*

- 9:15-10:00 Prof. Pierre Louis-Teissedre** - Institut des Sciences de la vigne et du vin Université de Bordeaux, Bordeaux, France, “Effects of tanins , grapes, and wines on chronic and degenerative diseases”
- 10:00-10:45 Dr. Michaël Jourdes** - Institut des Sciences de la vigne et du vin Université de Bordeaux, Bordeaux, France, “Phenolic compounds in food diet and their metabolite on degenerative diseases”
- 10:45-11:00 COFFEE BREAK**
- 11:00-11:45 Dr. Małgorzata Kujawska** - Poznan University of Medical Sciences Poznań, Poland, “Ellagitannins-derived metabolite - Urolithin A as a neuroprotective agent in PD”
- 11:45-12:30 Dr. G. Kreiner** - Dept. Brain Biochemistry Maj Institute of Pharmacology PAS, Krakow, Poland - Conference Summary