**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***

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**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, Finnland,“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** Panel - Rudi Schmidt - !mmuentrue GmbH, Cologne, Germany

**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