

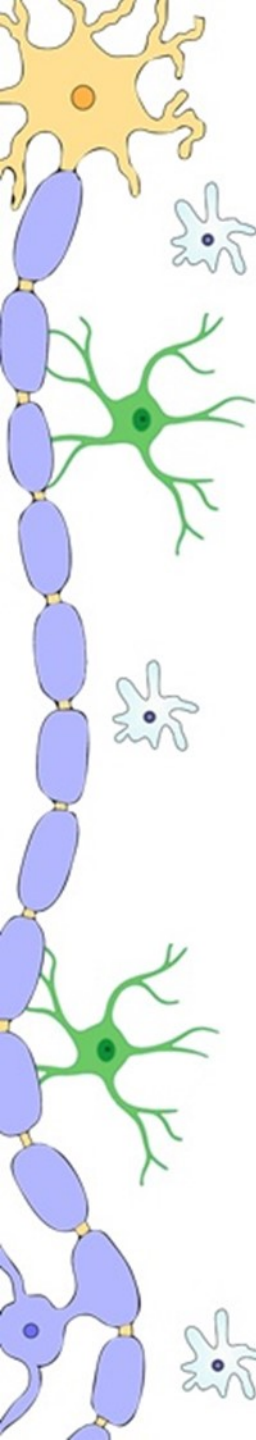


**1<sup>st</sup> ESN Virtual Conference**

**“Future perspectives for European neurochemistry  
– a young scientists conference”**

**May 25-26, 2021**

**PRELIMINARY PROGRAMME**



Tuesday 25<sup>th</sup> May 2021

9:00 - 9.10

**Welcome by organisers**

9:10 - 10:00

**Plenary Lecture 1**

“Molecular and cell biology of prion diseases”  
Adriano Aguzzi, Switzerland

10:00 - 10:15

**Break**

10:15 - 11:30

**Symposium 1**

“Pathology outside the brain and its effect on the progression of Parkinson’s disease”  
*Chair: Elisa Pizzichini, Lorena Cuenca Bermejo; Italy/Spain)*

*Fernando Lucas Ruiz (Spain) - The retina: a window to study the Parkinson’s disease*

*Valeria de Cassia Gonçalves (Brazil) - Parkinson's disease spoken by the heart*

*Fillipe Mendes de Araújo (Brazil) - Systematic inflammation and advancing degeneration in Parkinson's disease*

*Lorena Cuenca Bermejo (Spain) - Parkinson’s disease and microbiota: the gut-brain connection*

11:30 - 12:45

**Workshop**

“Let's join forces - bridging the gap between experimental, computational and data sciences to disentangle astrocyte calcium activity”  
*Chair: Audrey Denizot (Japan)*

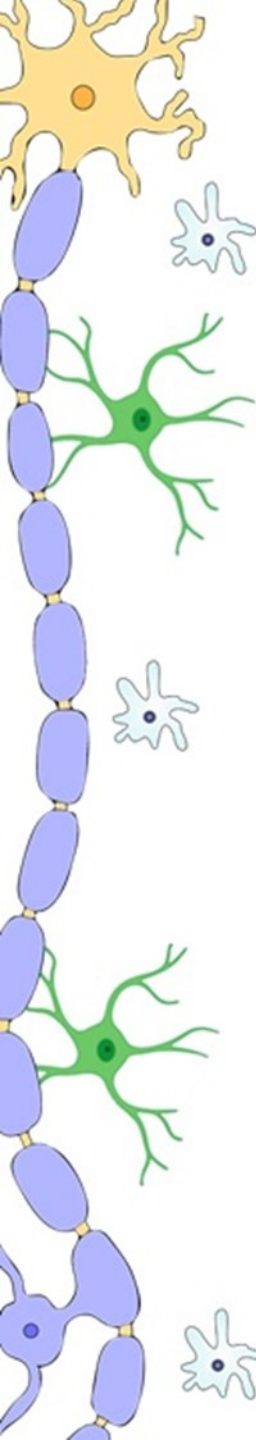
*Ana Covelo (France) - Astroglial mitochondrial calcium determines synaptic integration*

*Audrey Denizot (Japan) - Computational approaches to disentangle the astrocytic calcium code: insights, challenges and perspectives*

*Anaïs Badoual (France) - Generation of synthetic datasets of astrocytic calcium activity to support the development of learning-based analysis tools*

12:45- 13:30

**Lunch break**



13:30 - 14:45	<p style="text-align: center;"><b>Symposium 3</b></p> <p style="text-align: center;">“Circuit and molecular insights into the top-down and bottom-up controls of energy balance”  <i>Chairs: Lucia Caffino (Italy) &amp; Giuseppe Gangarossa (France)</i></p> <p><i>Giuseppe Gangarossa (France)</i> - Leveraging gut-to-brain circuits to understand reward processes and energy balance</p> <p><i>Yanaira Alonso-Caraballo (USA)</i> - Investigating the role of ovarian hormones on motivation and reward-seeking in female rats</p> <p><i>Lucia Caffino (Italy)</i> - Dysregulation of the cortical glutamate synapse is associated with cognitive dysfunction in the activity-based anorexia rat model</p> <p><i>Marie Labouesse (USA, Switzerland)</i> - Conflicting roles for striatal circuitry and dopamine type2 signaling in energy metabolism balance and obesity</p>
14:45 - 16:00	<p style="text-align: center;"><b>Symposium 4</b></p> <p style="text-align: center;">“Autism, epilepsy, intellectual disability – where do these all meet?”  <i>Chairs: Moshe Giladi (Israel) &amp; Daniel Bar (Israel)</i></p> <p><i>Moshe Giladi (Israel)</i> - Structural basis of heterotetrameric assembly and disease mutations in the human <i>cis</i>-prenyltransferase (<i>hcis</i>-PT) complex</p> <p><i>Gidon Karmon (Israel)</i> - Lessons from a novel genome-edited mouse for the autism-intellectual disability activity-dependent neuroprotective protein (ADNP) syndrome</p> <p><i>Shir Quinn (Israel)</i> - Functional analysis of the developmental delay caused by SCN8A G1625R mutation</p> <p><i>Haitham Amal (Israel)</i> -The role of nitric oxide (NO) in autism</p>
16:00-16:15	<p><b>Break</b></p>
16:15 - 17:30	<p>General business meeting - ESN members only</p>

9:30 - 10:45

**Symposium 4**

“Novel shades of neurometabolism: from physiology to pathology through cutting edge experimental approaches”

Chair: Silvia Pedretti (Italy)

*Paola Brivio (Italy)* - Metabolomics signature underpins the mechanisms of vulnerability and resilience to chronic stress: the role of mitochondrial dynamics

*Denis Sighel (Italy)* - Inhibition of mitochondrial translation suppresses glioblastoma stem cell growth

*Jacopo Zasso (Italy)* - REST controls energetic metabolism of human neural stem cells

10:45 - 11:00

**Break**

11:00 - 12:15

**Symposium 5**

Optogenetics and photopharmacology - optical tools for the neuronal control: from receptors to behavior.

Chair: Galyna Maleeva (Spain)

*Alice Polenghi (Italy)* - Kainate receptor activation shapes short-term plasticity by controlling receptor lateral mobility at glutamatergic synapses

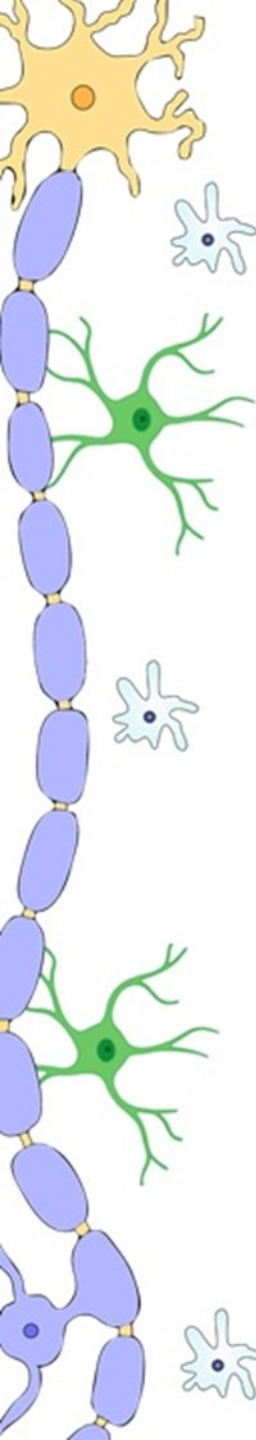
*Dušan Kolarski (The Netherlands)* - Chronopharmacology: controlling circadian rhythms with light

*Rossella Castagna (Spain)* - Design of photoswitchable inhibitors of neuronal activity

*Romain Durand-de Cuttoli (USA)* - Manipulating midbrain dopamine neurons and reward-related behaviors using optogenetic pharmacology

12:15-13:00

**Lunch break**



13:00 - 14:15

**Symposium 6**

“The protein quality control in health and disease”  
Chairs: Barbara Tedesco (Italy) & Elias Adriaenssens (Austria)

*Barbara Tedesco (Italy)* - Gain of toxic function of Chaperone Assisted Selective Autophagy members in neuromuscular diseases

*Elias Adriaenssens (Austria)* - A weakened interface in the P182L variant of HSP27 leads to aberrant binding to interacting proteins

*Laura Mediani (Italy)* - Protein quality control of biomolecular condensates: implications for Amyotrophic Lateral Sclerosis and Frontotemporal degeneration

*Jose Norberto S. Vargas (UK)* - NDP52 and TBK1 control the spatiotemporal activation of ULK1 during mitophagy

14:15 - 15:05

**Plenary Lecture 2**

"Communication of scientific research (and more) as a gift"  
Maria Flora Mangano, Italy

15:05 - 17:35

Poster Blitz-Talks and Networking

Closing remarks

