

Wednesday, September 14<sup>th</sup>

Registration onsite: 12:00 – 19:00

Location

Europa Room

Council of Physiology Professors  
(15:00 - 17:30)

Opening Ceremony (17:30 – 18:00)

**Opening Lecture:** Dennis BROWN (Boston, MA, USA)  
«A tale of fire and ice: the cell physiology of acid/base and water homeostasis by the kidney collecting duct epithelium»  
(18:00 - 19:00)

Welcome cocktail (on site)

Thursday, September 15<sup>th</sup>

Registration onsite: 08:30 – 19:00

Europa Room

Scuderia Room

Federico II Room

08:30 SYMPOSIUM  
*Neurobiology and Neurophysiology*  
  
**Neurodegeneration and neuroprotection: gaining insights on underpinned molecular mechanisms using the retina as a benchmark**  
  
Organizer: Maria Claudia GARGINI

09:50 ORAL COMMUNICATIONS  
*Neurobiology and Neurophysiology 1*  
Chair: Daniela PIETROBON (Padua)

11:00

08:30 SYMPOSIUM  
*Cell Physiology*  
  
**Ca<sup>2+</sup> signaling: unexpected new roles for the usual suspect**  
  
Organizers:  
Andrea GERBINO, Francesco MOCCIA

09:50 ORAL COMMUNICATIONS  
*Cell Physiology 1*  
Chair: Michele MAFFIA (Lecce)

11:00

Coffee break

11:30 **pH Lecture:** Alexej VERKHRATSKY (Manchester, UK)  
«Neuroglia in health and disease: from Golgi and Lugaro to modern days»

12:30 Lunch and Poster Session 1

15:00 SYMPOSIUM  
*Translational Physiology*  
  
**Translating physiological research into innovative enterprises: a long and winding road?**  
  
Organizers:  
Fabio BENFENATI, Maria SVELTO

16:20

16:50 ORAL COMMUNICATIONS  
*Cell Physiology 2*  
Chair: Maria Carmela CERRA (Rende, Cs)

18:00

15:00 SYMPOSIUM  
*Physiology of Motor System & Exercise*  
  
**Perception, action and visuomotor integration as essential components for world interaction**  
  
Organizer: Annalisa BOSCO

16:20

16:50 ORAL COMMUNICATIONS  
*Neurobiology and Neurophysiology 2*  
Chair: Patrizia FATTORI (Bologna)

18:00

Coffee break

19:00 **Herlitzka Lecture:** Marina PICCIOTTO (New Haven, USA)  
«A novel VTA GABA pathway that encodes unconditioned reward value»

20:30 - Musical Concert (Teatro Piccinni)  
or (of your choice)  
19:45 - A guided walk in “Bari Vecchia”

Friday, September 16<sup>th</sup>

Registration onsite: 08:30 – 16:30

Europa Room

Scuderia Room

Federico II Room

08:30 SYMPOSIUM  
*Neurobiology and Neurophysiology*  
  
**Deciphering blood-brain barrier physiology: new mechanisms and translational opportunities**  
  
Organizer: Luca MARAGLIANO

09:50 ORAL COMMUNICATIONS  
*Neurobiology and Neurophysiology 3*  
Chair: I. TOMMASSINI BARBAROSSA (Cagliari)

11:00

08:30 SYMPOSIUM  
*Cell Physiology*  
  
**A journey into the cardiac function and dysfunction: from the extracellular milieu to the nuclear envelope**  
  
Organizers:  
Tommaso ANGELONE, Monica CARMOSINO

09:50 ORAL COMMUNICATIONS  
*Metabolism, Nutrition & Systems Physiology 2*  
Chair: Antonia LANNI (Caserta)

11:00

08:30 SYMPOSIUM  
*Neurobiology and Neurophysiology*  
  
**Advances on neurotransmitter systems involved in mechanisms of neural modulation: tracing common threads in homeostatic responses, synaptic plasticity and diseases**  
  
Organizers:  
Giuditta GAMBINO, Valentina DI LIBERTO

09:50 ORAL COMMUNICATIONS  
*Cell Physiology 3*  
Chair: Mirko BARUSCOTTI (Milan)

11:00

Coffee break

11:30 **Plenary Lecture:** Nicola BRUNETTI-PIERRI (Naples, Italy)  
«Development of novel therapies for inborn errors of metabolism: from understanding metabolic pathways to proof-of-concept studies»

12:30 Lunch and Poster Session 2

15:00 **Fabio Ruzzier Lecture:** Giorgio CARMIGNOTO (Padua, Italy)  
«Astrocytes at the center of the brain of neurons»  
(15:00 - 16:00)

16:20 Coffee break

19:00 **SIF Assembly**  
(16:30 - 19:00)

20:30 - Social Dinner (Masseria Pietrasole)