

PROGRAM

Wednesday September 8th

Arrival in Kotor and get together

16:30 – 17:30

Get together

17:30– 18:00 Marco Canepari, Pavle Andjus, Aco Joksimović: **School presentation**

18.00 – 19.00 Pavle Andjus (Serbia): **opening lecture: The Nerka school**

Thursday September 9th

9:00 – 12:00 **Cutting-edge techniques for ion channels - part I**

9:00 – 10:15 Srdjan Antić (USA): **Glutamate-Mediated Dendritic Spikes in Spiny Neurons**

10:15 – 10:45 *Coffee break*

10:45 – 12:00 Marco Canepari (France): **Optical measurements of native ionic currents**

12:00 – 14:00 *Lunch break and poster presentation*

14:00 – 16:00 **Cutting-edge techniques for ion channels - part II**

14:00 – 15:15 Janos Szabadics (Hungary): **Diversity and uniformity of axonal electrical signaling ***

15:15 – 16:30 Michel De Waard (France): **Animal toxins targeting ion channels in the brain ***

16:30 – 19:00 **Students’ presentation with cheese and wine: “what do I do in my real life”**

Friday September 10th

9:00 – 12:00 **Computational approaches to neuronal ion channel function**

9:00 – 10:15 Michele Migliore (Italy): **The role of ion channels in shaping the computational properties of neurons under physiological and pathological conditions**

10:15 – 10:45 *Coffee break*

10:45 – 12:00 Luiza Filipis (France): **Using NEURON to extract native ionic currents from optical measurements**

12:00 – 12:30 Predrag Janjić (North Macedonia): **Potassium channels in non-excitabile glia and why they matter for neural excitability - Computational modeling perspective.**

12:30 – 14:00 *Lunch break and poster presentation*

14:00 – 16:30 **Ion channels and neuronal pathophysiology - part I**

14:00 – 15:15 Peter McNaughton (UK): **HCN2: a key ion channel for pain, migraine and tinnitus ***

15:15 – 16:30 Slobodan Todorović (USA): **The role of T-type voltage-gated calcium channels in learning and memory ***

Saturday September 11th

9:00 – 12:00 **Ion channels and neuronal pathophysiology - part II**

9:00 – 10:15 Massimo Mantegazza (France): **Mutations of sodium channels in neurologic and psychiatric diseases**

10:15 – 10:45 *Coffee break*

10:45 – 12:00 Philippe Lory (France): **Calcium channels dysfunction in brain diseases**

12:00 – 16:00 *Time off*

16:00 – 22:00 *Guided visit of the Aquarium “Boka” and school dinner at restaurant*

Sunday September 12th

10:00 – 12:00 **Ion channels and neuronal pathophysiology - part III**

10:00 – 11:15 Emmanuel Bourinet (France): **T-type calcium channels in pain pathophysiology ***

11:15 – 11:45 *Coffee break*

11:45 – 13:00 Pavle Andjus (Serbia): **Using dynamical fluorescence measurement from neural cells on an innovative lab-on-a-chip for the diagnostics of neurodegenerative diseases.**

13:00 – 14:30 *Time off*

14:30 – 16:00 **Open panel discussion with students and faculty**

Wrap up and departure (next day)

***These lectures will be given in videoconference**