NanoNeuro 2022

Thursday, July 21st, 2022

Sponsored by the Tianqiao and Chrissy Chen Institute

Hosted by the NeuroTechnology Center at Columbia University and the Donostia International Physics Center

Organized by Rafael Yuste and Aitzol Garcia-Etxarri

New York Time EDT (UTC -4)	Europe Time CEST (UTC +2)	
Session 1: Nano		Chair: *Aitzol Garcia-Etxarri*
8:00 - 8:05 AM	14:00 - 14:05	Rafael Yuste (Columbia U) and Aitzol Garcia-Etxarri (DIPC) *Introductory Remarks*
8:05 - 08:35 AM	14:05 - 14:35	Guillaume Baffou (CNRS, Marseille) *Quantitative Phase Imaging for Thermoplasmonics and Biomicroscopy*
8:35 - 9:05 AM	14:35 - 15:05	Viola Vogel (ETH Zurich) *Molecular Mechanobiology of Extracellular Matrix: Healthy Versus Inflammatory Cell Niches*
9:05 - 9:35 AM	15:05 - 15:35	Sylvie Roke (EPFL) *Water as a Contrast Agent for Membrane Potentials & Ion Fluxes in Neurons*
9:35 - 10:05 AM	15:35 - 16:05	Valentin Nägerl (Bordeaux) *Mind the Gap: New Approaches to Study the Extracellular Space of the Brain*
10:05 - 10:35 AM	16:05 - 16:35	Panel Discussion *Moderated by Rafael Yuste and Aitzol Garcia-Etxarri*
10:35 - 11:05 AM	16:35 - 17:05	Break
Session 2: Neuro		Chair: *Rafael Yuste*
11:05 AM - 11:35 PM	17:05 - 17:35	Shimon Weiss (UCLA) *Novel Nano-optical Tools for Electrophysiology and Bioelectricity Investigations*
11:35 -12:05 PM	17:35 - 18:05	Ozgur Sahin (Columbia U) *Electromechanical Tension in Cell Membranes*
12:05 - 12:35 PM	18:05 - 18:35	Jerzy Szablowski (Rice U) *Noninvasive Neuroengineering*
12:35 - 1:05 PM	18:35 - 19:05	Dirk Trauner (NYU) *Optical Control of Proteins Essential for Memory*
1:05 - 1:45 PM	19:05 - 19:45	**Keynote: Alice Ting (Stanford U)** *Molecular Recorders for Writing Transient Cellular Events into RNA*
1:45 - 2:15 PM	19:45 - 20:15	Panel Discussion *Moderated by Rafael Yuste and Aitzol Garcia-Etxarri*
2:15 - 2:30 PM	20:15 - 20:30	Rafael Yuste and Aitzol Garcia-Etxarri *Closing Comments*