

NanoNeuro 2021
Wednesday, June 23rd, 2021

Hosted by the NeuroTechnology Center at Columbia University and the Donostia International Physics Center (DIPC), with support from the Kavli Foundation

Organized by Rafael Yuste and Aitzol Garcia-Etxarri

United States Time European Time
EDT (UTC -4) CEST (UTC +2)

Session 1

Chair: Aitzol Garcia-Etxarri

09:00 - 09:05 AM	15:00 - 15:05	Rafael Yuste (Columbia U) and Aitzol Garcia-Etxarri (DIPC) <i>Introductory Remarks</i>
09:05 - 09:35 AM	15:05 - 15:35	James Delehanty (US Naval Research Laboratory) <i>Functional nanoparticle bioconjugates for enhanced neuronal recording and stimulation</i>
09:35 - 10:05 AM	15:35 - 16:05	Jonathan Owen (Columbia U) <i>Imaging neuronal membrane potentials with luminescent colloidal quantum dots</i>
10:05 - 10:35 AM	16:05 - 16:35	Eric Hosy (Bordeaux U) <i>Why nanoscale (co-)organization of glutamate receptors is essential to understand synaptic physiology</i>
10:35 - 11:05 AM	16:35 - 17:05	Chris Xu (Cornell U) <i>Pushing the depth limit of high-resolution in vivo brain imaging</i>
11:05 - 11:35 AM	17:05 - 17:35	Panel Discussion <i>Moderated by Rafael Yuste and Aitzol Garcia-Etxarri</i>
11:35 - 12:05 PM	17:35 - 18:05	<i>Break</i>

Session 2

Chair: Rafael Yuste

12:05 - 12:35 PM	18:05 - 18:35	Tim Harris (HHMI Janelia) <i>High channel count electrophysiology: neuropixels trajectory</i>
12:35 - 01:05 PM	18:35 - 19:05	Polina Anikeeva (MIT) <i>Modulating neuronal signaling with magnetic nanotransducers</i>
01:05 - 01:35 PM	19:05 - 19:35	Ander Ramos-Murguialday (U of Tübingen) <i>Neural interfaces for rehabilitation: towards reconnecting the nervous system</i>
01:35 - 02:05 PM	19:35 - 20:05	Panel Discussion <i>Moderated by Rafael Yuste and Aitzol Garcia-Etxarri</i>
02:05 - 02:45 PM	20:05 - 20:45	Zhenan Bao (Stanford U) <i>Keynote Remarks: Skin-inspired electronics for neuro interface</i>
02:45 - 03:00 PM	20:45 - 21:00	Rafael Yuste and Aitzol Garcia-Etxarri <i>Closing Comments</i>