

Oral Program

Thursday, October 15, 2015

07:00–08:30	Registration
Room	Gold Coast Foyer
07:45–08:20	Coffee and pastries
Room	Gold Coast Foyer
	Session 1
Room	Gold Coast
08:20–08:30	Welcome and introduction
08:30–09:00	Brian Litt , <i>University of Pennsylvania, USA</i> Data integration, neuroengineering and collaboration on the cloud [Inv.01]
09:00–09:30	Andrew Schwartz , <i>University of Pittsburgh, USA</i> Recent progress toward a high-performance neural prosthetic [Inv.02]
09:30–10:00	Michel .M. Maharbiz* , D. Seo , R. Neely , K. Shen , E. Alon , J. Carmena , J. Rabaey , <i>University of California, USA</i> Recent developments in neural dust for peripheral and central nervous system recording [Inv.08]
10:00–10:30	Refreshment break
Room	Club International
	Session 2
Room	Gold Coast
10:30–11:00	David W. Tank , <i>Princeton University, USA</i> Neural circuit dynamics during virtual navigation and decision making [Inv.15]
11:00–11:30	Viviana Gradinaru , <i>Caltech, USA</i> Tools for anatomical and functional analysis of widely distributed brain networks [Inv.05]
11:30–12:00	Poster teaser session (P007, P022, P034, P040, P046, P047, P050, P077, P079, P081)
12:00–13:00	Lunch
Room	Club International
13:00–14:00	Poster session 1
Room	Club International
	Session 3
Room	Gold Coast
14:00–14:30	Terrence J. Sejnowski , <i>Salk Institute for Biological Studies, USA and University of California, USA</i> Delay differential analysis of human EEG and ECoG [Inv.06]
14:30–15:00	Todd Kuiken , <i>Northwestern University, USA</i> Building bionics [Inv.07]
15:00–15:30	Karl Deisseroth , <i>Stanford University, USA</i> Discovery and development of optical tools for studying the intact brain [Inv.16]
15:30–16:00	Refreshment break
Room	Club International
	Session 4
Room	Gold Coast
16:00–17:30	Panel discussion
18:30–22:00	“Meet the Speakers” dinner
Venue	Nacional 27 (ticket holders only)

Friday, October 16, 2015	
08:00–08:30	Coffee and pastries
Room	Gold Coast Foyer
Session 5	
Room	Gold Coast
08:30–09:00	Mark Schnitzer , <i>Stanford University, USA</i> Next-generation optical technologies for cracking neural codes [Inv.09]
09:00–09:30	Valentina Emiliani , <i>University Paris Descartes, France</i> Two-photon optogenetics by spatiotemporal shaping of ultrashort pulses [Inv.10]
09:30–10:00	Na Ji , <i>Howard Hughes Medical Institute, USA</i> Optical techniques for sharper, deeper, and faster imaging of the brain in vivo [Inv.11]
10:00–10:30	Refreshment break
Room	Club International
Session 6	
Room	Gold Coast
10:30–11:00	Danielle S. Bassett , <i>University of Pennsylvania, USA</i> Network control engineering for connectome characterization and manipulation [Inv.03]
11:00–11:30	Satinderpall Pannu* , K. Shah , <i>Lawrence Livermore National Laboratory, USA</i> Next generation of neural interfaces [Inv.14]
11:30–12:00	Tim Denison , <i>Medtronic, USA</i> Bootstrapping clinical neuroscience—Design concepts for embedding scientific instrumentation in medical devices [Inv.13]
12:00–12:15	Cellular Dynamics International travel award presentation
	Sarah A. Stanley* ¹ , L. Kelly ¹ , K. Latcha ¹ , S. Schmidt ¹ , J. Sauer ¹ , A. Nectow ² , J. Dyke ³ , J.S. Dordick ² , J.M. Friedman ¹ , ¹ <i>The Rockefeller University, USA</i> , ² <i>Rensselaer Polytechnic Institute, USA</i> , ³ <i>Weill Cornell Medical College, USA</i> Remote radiowave activation of hypothalamic neurons regulates glucose metabolism in vivo [P101]
12:15–13:30	Lunch
Room	Club International
13:30–14:30	Poster session 2
Room	Club International
Session 7	
Room	Gold Coast
14:30–15:00	Hongkun Park , <i>Harvard University, USA</i> CMOS-Nanoelectrode array for high fidelity, multiplex interrogation of neuronal networks [Inv.04]
15:00–15:30	Bianxiao Cui , <i>Stanford University, USA</i> At the nano-bio interface: Nanoelectrodes for improved electrophysiology recording [Inv.12]
15:30–16:00	Refreshment break
Room	Club International
Session 8	
Room	Gold Coast
16:00–17:15	Panel discussion and closing remarks
End of symposium	