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## Deconding the Language of the Brain



Human Technopole Milan (IT)

High-throughput electrophysiology and imaging methods to record and analyze neural dynamics



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### PROGRAMME

### Day 1 - Mon 22 Sep

08:45-09:15	Registration and welcome coffee	Mezzanine Room
09:15-09:30	OPENING	Mezzanine Room
	Lectures - Advanced electrophysiology and imaging in System Neuroscience	
9:30-10:20	Jean-Claude Platel, INSERM (France)	Mezzanine Room
10:20-11:10	Federico Rossi, Italian Institute of Technology (Italy)	Mezzanine Room
11:10-11:30	Coffee	Mezzanine Room
11:30-12:20	Tommaso Fellin, Italian Institute of Technology (Italy)	Mezzanine Room
12:50-14:00	Lunch with speakers	Restaurant Area 4 <sup>th</sup> Floor
	Hands-on - Calcium Imaging and MEA experimental workflow @ National Facility for Light Imaging	
14:30-18:30	Diletta Pozzi; Filippo Mirabella; HT (Italy)	North Pavillion Incubator 3





### PROGRAMME

# Day 2 - Tue 23 Sep

	Hands-on - Analysis of Calcium Imaging Datasets	
09:30-10:30	Data preparation- configuration	Mezzanine Room
10:30-11:00	Coffee	Mezzanine Room
11.00-13.00	Suite2P- Federico Rossi and collaborator(s), Italian Institute of Technology (Italy)	Mezzanine Room
13.00-14.00	Lunch with speakers	Restaurant Area 4 <sup>th</sup> Floor
14.00-16.00	Suite2P- Federico Rossi and collaborator(s), Italian Institute of Technology (Italy)	Mezzanine Room
	Lectures - Epilepsy	
16:00-17:00	Nat O'Neill, UCL, (UK)	Mezzanine Room
17:00-18:00	Presentation of 2 Ephys Facilities in Europe (Penton Ribas, University of Zurich; Knauer, University of Dresden), and HT National Facilities	Mezzanine Room
18:00	Aperitif with speakers	Restaurant Area 4 <sup>th</sup> Floor





### PROGRAMME

### Day 3 - Wed 24 Sep

	Lectures - Large-scale neural recordings and spike sorting methods	
09:30-10:30	Hayder Amin, DZNE Dresden (Germany)	Mezzanine Room
10:30-11:00	Coffee	Mezzanine Room
11.00-12.00	Live demo from sponsors	Mezzanine Room
	Talk - Neuronal Modelling	
12.00-13.00	EBRAINS-Italy (TBC)	Mezzanine Room
13:00-14:00	Lunch	Restaurant Area 4 <sup>th</sup> Floor
	Hands-on - Spike sorting approaches on multi-unit ephys datasets	Mezzanine Room
14:00-17:00	Alessio Buccino; Samuel Garcia and Chris Halcrow, on SpikeInterface	Mezzanine Room
17:00-19:00	Flash Talks - Aperitif	Restaurant Area 4 <sup>th</sup> Floor





### PROGRAMME

## Day 4 - Thu 25 Sep

	Hands-on - Continuation on spike sorting methods	
09:30-10:30	Continuation on SpikeInterface workflow	Mezzanine Room
10:30-11:00	Coffee	Mezzanine Room
11.00-13.00	Continuation on SpikeInterface workflow	Mezzanine Room
13.00-14.00	Lunch	Restaurant Area 4 <sup>th</sup> Floor
	Lecture -Disruptive Technologies in experimental and translational neuroscience	
14:00-14:50	Luca Berdondini, Italian Institute of Technology (Italy)	Mezzanine Room
15:00-15:50	Kaspar Podgorski, Allen Institute for Neural Dynamics (USA)	Mezzanine Room
16:00-17:00	Josh Siegle, Allen Institute for Neural Dynamics (USA) - Virtual Talk	Mezzanine Room
17:00-17: <mark>20</mark>	CLOSING REMARKS, Diletta Pozzi	Mezzanine Room