



WORKSHOP

inTRACE 2025

Charting the Intracranial Connections
between Clinics and Neurosciences

Parma | April 1–4 2025



Tuesday April, 1st, 2025

The Continuous Conversation between Neuroscience and Clinics in the Rooms of Intracranial Recordings

14:00-14:45	Welcome
14:45-15:30 Lecture	On the consequences of brain injury: insights from intracranial recordings <i>Marcello Massimini (University of Milan)</i>
15:30-16:45 Roundtable	The seven Ws of intracranial electroencephalography <i>Jorge Gonzalez-Martinez (University of Pittsburgh)</i> <i>Giorgio LoRusso (Niguarda Hospital)</i> <i>Fabrice Bartolomei (Aix-Marseille University)</i>
16:45-17:15	Coffee Break
17:15-18:00 Lecture	History of neuroscience: significant breakthroughs enabled by patients with epilepsy <i>Josef Parvizi (Stanford University)</i>
18:00-19:30	Aperitivo

Wednesday April, 2nd, 2025

Morning session

Squeezing SEEG: Maximizing Data Yield and Bridging to Non-Invasive Techniques

09:00-10:00 Oral Session	SEEG stimulation and recording: translational opportunities for psychiatric neuromodulation <i>Eleonora Bartoli (Baylor College, Houston)</i> Tract-based white matter stimulation with SEEG <i>Davide Giampiccolo (University College of London)</i> Multimodal mapping of the neural correlates of conscious perception <i>Andrea Pigorini (University of Milan)</i>
10:00-10:45 Lecture	Imaging brain function and connectivity with direct electrical stimulation <i>Olivier David (INSERM)</i>
10:45-11:15	Coffee Break
11:15-12:15 Oral Session	Identifying epileptic activity and networks using simultaneous stereo-EEG and MEG recordings <i>Stefania Coelli (Polytechnic of Milan)</i> Hippocampal epileptic activity: an "inside out" approach <i>Firas Fahoum (Tel Aviv University)</i> Improving the interpretation of non invasive EEG through simultaneous intracranial EEG & EEG recordings <i>Nicolas Roehri (University of Geneve)</i>
12:15-12:45 Clinical Return	Neurophysiological research in epilepsy surgery: not a one-way trip <i>Francesco Cardinale / Ivana Sartori (Niguarda Hospital)</i>
12:45-13:15	Discussion
13:15-14:45	Lunch

Wednesday April, 2nd, 2025

Afternoon session

Fluid Boundaries between Wakefulness and Sleep

14:45-15:30 Lecture	Sleep and cognition: insights from intracranial recording <i>Yuval Nir (Tel Aviv University)</i>
15:30-16:30 Oral Session	Sleep and post-lesional neural dynamics through the lens of large-scale intracranial recordings in humans <i>Ezequiel Mikulan (University of Milan)</i> Differential cortical response to stimulation during sleep and anesthesia <i>Rina Zelman (Massachusetts General Hospital)</i> Slow waves during wakefulness: good for epilepsy, bad for cognition <i>Laurent Sheybani (University College of London)</i>
16:30-17:00	Coffee Break

17:00-17:30 Clinical Return	Blurring the lines in clinical neuroscience: wake and sleep, not two mutually exclusive states <i>Lino Nobili (University of Genoa)</i>
17:30-18:00	Discussion
18:00-19:00	Poster Session

Thursday April, 3rd, 2025

Morning session

Mapping the Neural Correlates of Conscious Perception

09:00-09:45 Lecture	Exploring human conscious experience with intracranial electrical stimulation of the brain <i>Josef Parvizi (Stanford University)</i>
09:45-10:30 Lecture	Parcellating the neural signatures underlying human tactile awareness <i>Pietro Avanzini (CNR Institute of Neuroscience)</i>
10:30-11:00	Coffee Break
11:00-12:00 Oral Session	Getting it right: on hemispheric lateralization in attention and conscious perception <i>Tal Seidel Malkinson (University of Lorraine)</i> Adversarial collaboration testing Global Neuronal Workspace Theory and Integrated information Theory: insight from iEEG <i>Ursula Gorska (University of Wisconsin)</i> Blindsight and conscious perception: neural and physiological insights from intracranial EEG <i>Yuranny Cabral-Calderin (Max Plank)</i>
12:00-12:30 Clinical Return	Loss of consciousness in human focal epilepsies: assessment and mechanisms <i>Fabrice Bartolomei (Aix-Marseille University)</i>
12:30-13:00	Discussion
13:00-14:30	Lunch

Thursday April, 3rd, 2025

Afternoon session

The Long and Winding Road from Data, through Computation, to the Patient and its Models

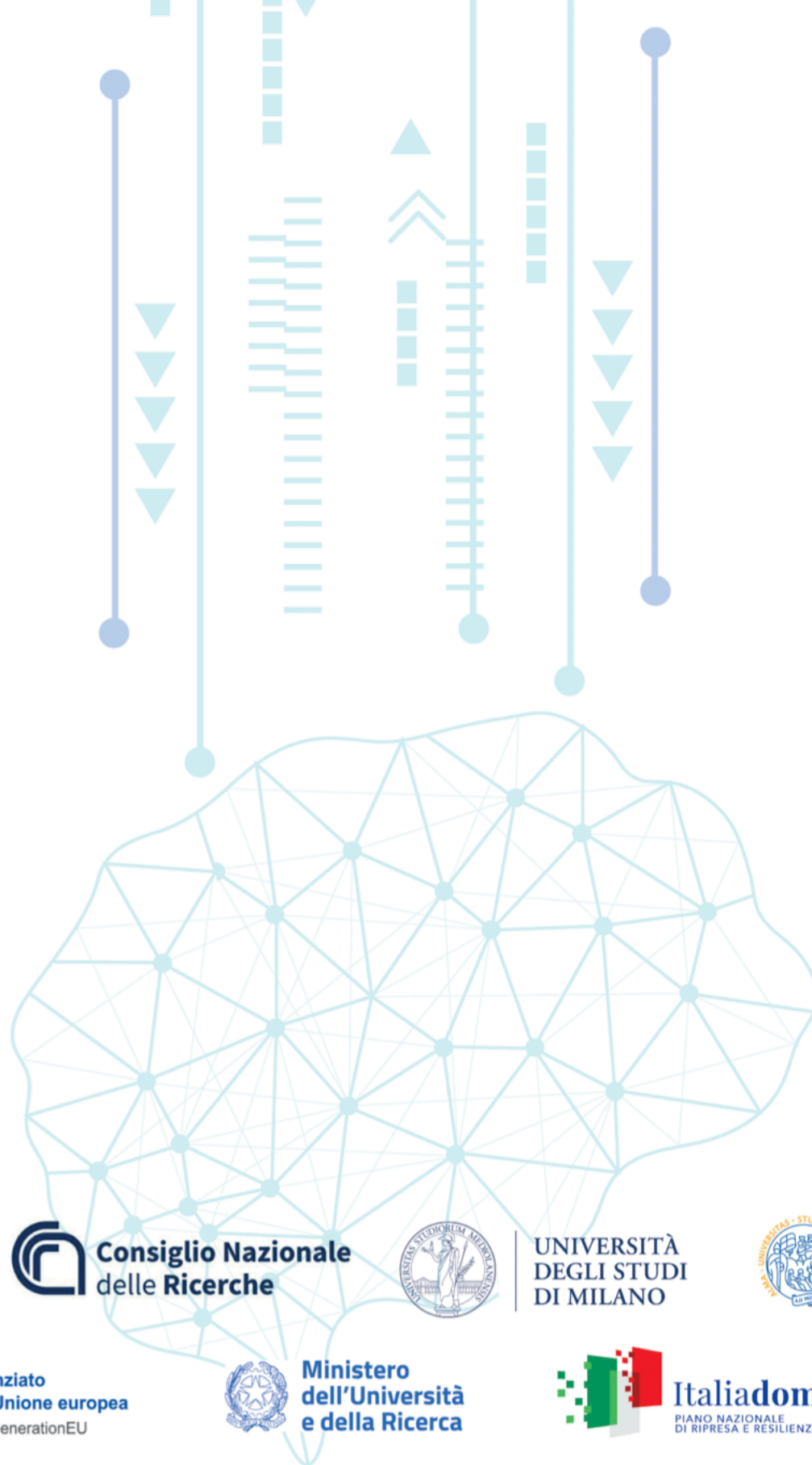
14:30-16:00 Symposium	The long and winding road from data, through computation, to the patient and its models <i>Viktor Jirsa (Aix-Marseille University)</i> <i>Jean-Philippe Lachaux (INSERM Lyon)</i> <i>Lorella Minotti (Grenoble Institut des Neurosciences)</i>
16:30-19:30	Social activities
20:30-24:00	Social Dinner

Friday April, 4th, 2025

Morning session

Toward a mechanistic view on cognitive and affective processes

09:00-09:45 Lecture	A cross-species approach to the neural bases of empathy and prosociality <i>Christian Keysers (Netherlands Institute for Neuroscience)</i>
09:45-10:30 Lecture	Concept neurons in the human medial temporal lobe as semantic building blocks of episodic memory <i>Florian Mormann (University of Bonn)</i>
10:30-11:00	Coffee Break
11:00-12:00 Oral Session	Streaming intracerebral brain fluctuations to disrupt economic choices <i>Julian Bastin (Grenoble Institute of Neuroscience)</i> Cracking the laugh code with SEEG <i>Fausto Caruana (CNR Institute of Neuroscience)</i> Unravelling the dynamics of action observation: insights from intracranial studies <i>Maria Del Vecchio (CNR Institute of Neuroscience)</i>
12:00-12:30 Clinical Return	Leveraging SEEG signals to map cognitive and affective brain processes in epilepsy patients: clinical insights <i>Ioana Mindruta (University of Bucharest)</i>
12:30-13:00	Discussion
13:00-14:30	Lunch
14:30-15:30	Concluding Remarks



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