

GRENOBLE NEUROTECH SCHOOL 2024

Aussois – April 2-5, 2024

	Monday 1st	Tuesday 2nd	Wednesday 3rd	Thursday 4th	Friday 5th
Morning (8h – 12h30)		Basics of electrophysiology Blaise Yvert (Inserm Grenoble, France)	CMOS technologies for neural recording and stimulation Part I Luca Berdondini (IIT Genova, Italy) Part II Daniel De Dorigo (IMTEK, Freiburg, Germany)	Principles of non-invasive & invasive neural decoding and real-time BCI J�r�mie Maltout (Inserm Lyon, France) & Tetiana Aksenova (CEA Grenoble, France)	BCI applications : Neuromodulation, neurofeedback in psychiatry Mircea Polosan (Grenoble University Hospital, France)
		Electrochemistry of the electrode-tissue interface Olivier Fran�ais (ESIEE-Paris, France)		BCI applications: Motor and speech Tetiana Aksenova (CEA Grenoble, France) & Blaise Yvert (Inserm Grenoble, France)	Neuromorphic CNS interfacing & hybrid experiments Michela Chiappalone (IIT Genova, Italy)
		Micro and nanodevices for selective neurotransmitter detection Nako Nakatsuka (ETHZ Switzerland)	General overview of spiking and LFP data analysis Pierre Yger (Inserm, Lille, France)	Restoring grasps with BCIs and deep learning: Preclinical studies Andres Agudelo-Toro (DPZ G�ttingen, Germany)	Ethical aspects of neurotechnologies Arleen Salles (Institute of Neuroethics, USA)
		Ethical aspects of neurotechnologies Eric Fourneret (Univ Cath Lille, France)	Riemannian geometry for neural feature extraction St�phane Bonnet (CEA Grenoble, France)	Functional central and peripheral neural stimulation for rehabilitation David Guiraud (Inria Montpellier, France)	Requirements for a clinical trial and related regulatory aspects Alexandre Delalleau (CEA Grenoble, France)
Noon (12h30 – 16h30)		Lunch + free activities	Lunch + free activities	Lunch + free activities	Lunch + departures (2pm)
After noon (16h30 – 19h)	Welcome, Introduction and planning of the week	Microfabrication of low-noise soft neural implants George Malliaras (Univ Cambridge, UK)	Ethical workshop Arleen Salles (Institute of Neuroethics, USA) & Eric Fourneret (Univ Cath Lille, France)	Hands on: Neural data Decoding	
		Diamond as a new material for long-term brain interfacing Lionel Rousseau (ESIEE-Paris, France)		Neuromorphic CNS interfacing (dedicated hardware) Fabien Alibart (CNRS Lille, France & Univ Sherbrooke, Canada)	
Evening (20h-22h)	Poster party	Hands on: electrochemistry recording, manipulation implants	Hands on: Spike sorting Samuel Garcia (Inserm Lyon, France) & Pierre Yger (Inserm Lille, France)	Price poster and festive party	

