

DAY 3

IV. Neurotechnology II: Clinical Translation & Application

Chaired by Bianca Yu & Maria Justino

09:00	Silvestro Micera Scuola Superiore Sant'Anna & École Polytechnique Fédérale de Lausanne <i>Targeted nerve stimulation restores single-finger movements in a person with tetraplegia</i>
09:30	Aileen Anderson University of California Irvine <i>Bridging the Gap: Biomaterials and Neural Stem Cells in Spinal Cord Injury</i>
10:00	Brian Kwon University of British Columbia, ICORD <i>Biomarkers and Biobanking for Acute Spinal Cord Injury</i>
10:30	Coffee Break
11:30	Tommaso Proietti Scuola Superiore Sant'Anna <i>Soft wearable robotics for non-invasive movement assistance</i>
12:00	Stanisa Raspopovic Medical University of Vienna <i>Combining neural stimulation and robotics to improve sensorimotor hand function after brain or spinal cord injury</i>
12:30	Federico Ciotti Centre Hospitalier Universitaire Vaudois (CHUV) <i>Epidural electrical stimulation and implanted brain-computer interface to restore upper limb motor function after spinal cord injury</i>
13:00	Poster Awards & Closing Remarks
13:15	Lunch & Departure

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ReWIRE

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DAY 1

14:00	Arrival Registration Coffee Break
15:45	Laura De Laporte Welcome
I. From Damage to Repair: The Biology Behind Spinal Cord Recovery <i>Chaired by Vi Anh Nguyen & Scott Erickson</i>	
16:00	Simone di Giovanni Imperial College London <i>Inter-organ communication controls spinal cord repair</i>
16:30	Andrea Tedeschi The Ohio State University <i>Decoding axon regeneration failure through the lens of neuronal and non-neuronal cell networks</i>
17:00	Mayssa Mokalled Washington University <i>Neuroplasticity in regenerative and non-regenerative models</i>
17:30	Homaira Nawabi Inserm, Grenoble Institute of Neuroscience <i>To rebuild functional circuits after CNS injury</i>
18:00	Rapid Fire Poster Talks
18:30	Dinner
19:45	Poster Session
20:30	Mark Tuszynski University of California San Diego <i>Neural Stem Cells for Spinal Cord Injury</i>

DAY 2

II. Spinal Cord Injury Bridges <i>Chaired by Phat Vu & Catarina Tavares</i>	
09:00	Wolfram Tetzlaff University of British Columbia, ICORD <i>Assessment of injectable hydrogels for spinal cord injury</i>

09:30	Radhika Puttagunta Heidelberg University Hospital <i>Optimizing alginate hydrogel scaffolds for regenerative purposes in spinal cord injury</i>
10:00	Patricia Dankers Eindhoven University of Technology (TU/e) <i>Supramolecular approaches for neuromodulation</i>
10:30	Coffee Break
12:00	Hoc Khiem Trieu Hamburg University of Technology Veronica Estrada DWI – Leibniz Institute for Interactive Materials <i>A mechanical microconnector to bridge severe spinal cord injury defects: Development, implementation and optimisation & In vivo application</i>
12:30	Monica Perez Northwestern University <i>Advances in Neural Control of Movement after Spinal Cord Injury</i>
13:00	Lunch Break

III. Neurotechnology I: Devices & Building Blocks

Chaired by Carlo Carraro & Rui Chen

Focus: Devices	
14:30	Francesca Santoro RWTH Aachen University & Forschungszentrum Jülich <i>Neuromorphic biomaterials for adaptive neural interfaces</i>
15:00	Thomas Stieglitz University of Freiburg <i>Flexible micromachined neural electrodes: from design to post-explantation evaluation</i>
15:30	Maria Asplund Chalmers University of Technology <i>Development of flexible micro- and nanotechnology, towards bioelectronics for restoration of mobility</i>
16:00	Coffee Break & Poster Session

Focus: Building Blocks	
17:30	Tetiana Aksenova The French Alternative Energies and Atomic Energy Commission (CEA) <i>Brain-Computer-Interface for SCI rehabilitation: decoding of ECoG neuronal activity for movement restoration</i>
18:00	Giacomo Valle Chalmers University of Technology <i>Brain-controlled bionic hands: restoring touch through a brain interface</i>
18:30	Dinner