



INTELLIGENT NEURAL SYSTEM FOR BIDIRECTIONAL CONNECTION WITH EXOPROSTHESES AND EXOSKELETONS

‘Pushing the Boundaries of Neuroprosthetics and Bioelectronic Medicine’

10th of October 2025

WORKSHOP AGENDA

Time	Topic	Presenter
Fri 10th Oct		
09:00 – 09:10	The Romanian CHIPS Competence Centre: Driving Innovation Under the CHIPS JU	Carmen Moldovan National Institute for R&D in Microtechnologies
09:10 – 09:20	New Implantable electrodes for bidirectional connection with exoprostheses and exoskeletons <i>Carmen Moldovan, Octavian Ionescu, Marian Ion, Silviu Dinulescu, David Dragomir, Eduard Franti, Bogdan Firtat, Alexandru Grigoroiu, Carmen Mihailescu, Mihaela Savin, Gerd Siekmeyer</i>	Carmen Moldovan National Institute for R&D in Microtechnologies
09:20 – 09:40	Wireless Bidirectional Real-Time Communication System for Active Implantable Medical Devices <i>Andrea Dentis, Letizia Cantore, Stefano Concadoro, Danilo Demarchi, Paolo Motto Ros</i>	Paolo Motto Ros Politecnico di Torino
09:40 – 10:00	Wireless Power Transfer System for Active Implantable Medical Devices <i>Andrea Dentis, Letizia Cantore, Stefano Concadoro, Danilo Demarchi, Paolo Motto Ros</i>	Paolo Motto Ros Politecnico di Torino
10:00 – 10:15	System for bidirectional connection of exoskeletons to the spinal nerves of patients with paralyzed legs <i>Eduard Franti, Catalin Niculae, Daniel Teleanu</i>	Eduard Franti National Institute for R&D in Microtechnologies
10:15 – 10:30	Advancing Inclusive Mobility: An Integrated System for Prosthetic Solutions for Individuals with Mobility Impairments <i>Daniel Besnea, Delia A. Prisecaru</i>	Delia A. Prisecaru National University of Science and Technology POLITEHNICA Bucharest
10:30 – 10:45	Design and Prototyping of a Neural-Interfaced Mechatronic Hand Prosthesis <i>László Székely, Szilárd Olasz, Dan Pop</i>	László Székely OSTEOPHARM SRL
10:45 – 11:00	IN3-BIO: Biocompatibility Pipeline for the NerveRepack Project <i>Nafsika Rossopoulou, Maria Mina, Spyridon-Marios Giatro, Aikaterini Skiada, Olympia-Eirini Boulioglou, Lydia Galouni, Christiana Fragkou, Theodora Katsila</i>	Theodora Katsila National Hellenic Research Foundation
11:00 – 11:30	Coffee Break	



NerveRepack is co-funded by the European Union through the Key Digital Technologies Joint Undertaking under Grant Agreement n° 101112347.