

Final workshop of the project
*Smart Injectable Drug-Delivery systems for Parkinson's and
Alzheimer's Disease Treatment (PAD-INJ)*

Engineered Biomaterials and Biomedical Devices in the Regenerative Medicine of the Nervous System

November 19th -20th, 2015

**Aula Magna - Torino Lingotto
Politecnico di Torino
Via Nizza 230, TORINO**

ORGANIZED BY:

- Valeria Chiono (Politecnico di Torino)
- Maria Grazia Spillantini (University of Cambridge)

The workshop is free of charge but the registration is mandatory by November 13th
(chiara.tondaturo@polito.it)



**Compagnia
di San Paolo**



**POLITECNICO
DI TORINO**



**UNIVERSITY OF
CAMBRIDGE**

Engineered Biomaterials And Biomedical Devices In The Regenerative Medicine Of The Nervous System

Torino, November 19-20, 2015

November 19th

13.45-14.30	Registration
14.30-14.45	Welcome and Introduction to the Joint Projects for the internationalization of Research <i>Enrico Macii (Vice Rector for Research, Politecnico di Torino)</i>
Session I Advanced therapies in the regenerative medicine of the nervous system <i>Chairs: Nicola Origlia, Serena Danti</i>	
14.45-15.10	Maria Grazia Spillantini (University of Cambridge) <i>Introduction to Alzheimer's and Parkinson's neurodegenerative diseases</i>
15.10-15.35	Alessandro Vercelli (Università di Torino) <i>Cell therapy for neurodegenerative diseases</i>
15.35-16.00	Simona Capsoni (Scuola Normale Superiore di Pisa) <i>Taking pain out of NGF: a new therapeutic approach for Alzheimer's disease</i>
16.00-16.30	Coffee Break and Networking
Session II Politecnico di Torino – University of Cambridge collaboration in the field of neurodegenerative diseases <i>Chairs: Valeria Chiono, Maria Grazia Spillantini</i>	
16.30-16.50	Valeria Chiono (Politecnico di Torino) <i>Injectable hydrogels as Drug-Delivery systems for Parkinson's and Alzheimer's Disease Treatment</i>
16.50-17.10	Marco Sangermano (Politecnico di Torino) <i>Nanocapsules as Drug-Delivery systems for Parkinson's and Alzheimer's Disease Treatment</i>
17.10-17.25	Maria Grazia Spillantini (University of Cambridge) <i>In vitro and in vivo models for the study of neurodegenerative diseases</i>
17.25-17.40	Chiara Tonda-Turo (Politecnico di Torino), Jack Brelstaff (University of Cambridge) <i>Towards New Tissue – engineered in vitro models of neurodegenerative Diseases</i>

Novembre 20th

8.30-9.00	Registration
Session IIIa Nanotechnologies and advanced therapies in the regenerative medicine of the nervous system <i>Chairs: Santos Merino, Ipsita Roy</i>	
9.00-9.25	Nicola Origlia (C.N.R. Pisa) <i>Early neuronal dysfunction in animal models for Alzheimer's disease: a role for microglia?</i>
9.25-9.50	Wenxin Wang (University College Dublin) <i>Dendritic polymers as drug delivery systems for the treatment of neurodegenerative diseases</i>
9.50-10.15	Enrica Vernè (Politecnico di Torino) <i>Theranostic magnetic nanoparticles</i>
10.15-10.40	James Dixon (The University of Nottingham) <i>Internalising therapeutic molecules with cell penetrating peptides targeted to membrane bound heparan sulfate</i>
10.40-10.55	Coffee Break and Networking
Session IIIb Nanotechnologies and advanced therapies in the regenerative medicine of the nervous system <i>Chairs: James Dixon,, Wenxin Wang</i>	
10.55-11.20	Santos Merino (Technological Centre-IK4-Tekniker) <i>Innovative biosensors for in vitro evaluation of targeted drug delivery</i>
11.20-11.45	Ipsita Roy (University of Westminster) <i>Polyhydroxyalkanoates as biomaterials for nerve tissue engineering</i>
11.45-12.05	Gianni Ciofani (Politecnico di Torino, IIT Pisa) <i>Potential applications of smart nanoparticles in neurodegenerative diseases</i>
12.05-12.30	Serena Danti (Università di Pisa) <i>Nanotechnology-assisted piezoelectrodes for auditory neuron stimulation: a new therapy for sensorineural hearing loss</i>