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:

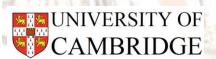
- Valeria Chiono (Politecnico di Torino)
- Maria Grazia Spillantini (University of Cambridge)

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





POLITECNICO DI TORINO



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

| Novembre 20 th | | |
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| 8.30-9.00 | Registration | |
| Session IIIa | | |
| Nanotechnologies and advanced therapies in the regenerative medicine of the nervous system | | |
| Chairs: Santos Merino, Ipsita Roy | | |
| 9.00-9.25 | Nicola Origlia (C.N.R. Pisa) | |
| | Early neuronal dysfunction in animal models for Alzheimer's disease: a role for microglia? | |
| 9.25-9.50 | Wenxin Wang (University College Dublin) | |
| | Dendrytic polymers as drug delivery systems for the treatment of neurodegenerative diseases | |
| 9.50-10.15 | Enrica Vernè (Politecnico di Torino) | |
| | Theranostic magnetic nanoparticles | |
| 10.15-10.40 | James Dixon (The University of Nottingham) | |
| | Internalising therapeutic molecules with cell penetrating peptides targeted to membrane bound heparan sulfate | |
| 10.40-10.55 | Coffee Break and Networking | |
| Session IIIb | | |
| Nanotechnologies and advanced therapies in the regenerative medicine of the nervous system | | |
| Chairs: James Dixon,, Wenxin Wang | | |
| 10.55-11.20 | Santos Merino (Technological Centre-IK4-Tekniker) | |
| 10.55-11.20 | Innovative biosensors for in vitro evaluation of targeted drug delivery | |
| 11.20-11.45 | Ipsita Roy (University of Westminster) | |
| | Polyhydroxyalkanoates as biomaterials for nerve tissue engineering | |
| 11.45-12.05 | Gianni Ciofani (Politecnico di Torino, IIT Pisa) | |
| | Potential applications of smart nanoparticles in neurodegenerarive diseases | |
| 12.05-12.30 | Serena Danti (Università di Pisa) | |
| | Nanotechnology-assisted piezoelectrodes for auditory neuron stimulation: a new therapy for sensorineural hearing loss | |