

RECENT TRENDS IN CNS REGENERATIVE MEDICINE

from injury and disease to advanced therapies

PROGRAMME

Monday, March 2nd 2020

08:45-09:15 Registration at ICVS/EM hall

09:15-09:30 Introduction to the course

Session 1 Basic Insights on CNS Biology and Anatomy [room G2.02]

09:30-10:30 **T1:** An overview on nervous system development and organization, Hugo Almeida, ICVS/EM

10:30-11:00 **Coffee Break [room G2.01]**

11:00-12:00 **T2:** Introduction to Neurodegenerative Diseases, Ioannis Sotoripoulos, ICVS/EM

12:00-13:30 **Lunch**

Session 2 Injury and Disease in the CNS I [room G2.02]

13:30-14:30 **T3:** Immunomodulation by oligodendroglia in multiple sclerosis, Ana Falcão, ICVS/EM

14:30-15:00 **T4:** Current Clinical Approaches in Multiple Sclerosis, João Cerqueira, ICVS/EM

15:00-15:30 **Coffee Break [room G2.01]**

15:30-16:00 Evaluation - Mini reviews and presentations

Tuesday, March 3rd 2020

Session 3 Injury and Disease in the CNS II [room G2.02]

09:30-10:30 **T5:** Current Clinical Approaches in Spinal Cord Injury, Rui Duarte, ICVS/EM

10:30-11:00 **Coffee Break [room G2.01]**

11:00-12:00 **T6:** Parkinson's Disease: Clinical Presentation and Current Therapeutics, Miguel Gago

12:00-13:30 **Lunch**

Session 4 Cell Transplants in CNS Regenerative Medicine [room G2.02]

13:30-14:30 **T7:** Adult Stem Cells therapeutic potential for Injured CNS, Luca Peruzzotti-Jameti, University of Cambridge

14:30-15:30 **T8:** Stem Cell Therapies for Parkinson's Disease Regenerative Medicine: From the Bench to the Bed side, Fábio Teixeira, ICVS/EM

15:30-16:00 **Coffee Break [room G2.01]**

16:00-17:00 **T9:** Pluripotent Stem Cells and Regenerative Medicine: A Closer Look into Nervous System, Aline Fernandes, ICVS/EM

Wednesday, March 4th 2020

Session 5 Bioengineering and Drug Delivery Approaches for CNS Regenerative Medicine [room G2.02]

09:30-10:30 **T10:** Understanding the Regenerative Response Induced by Biomaterials, Abhay Pandit, NUIG

10:30-11:00 **Coffee Break [room G2.01]**

11:00-12:00 **T11:** Combinatorial Approaches using Cell Transplants in SCI Research, Eduardo Gomes, ICVS/EM

12:00-13:30 **Lunch**

Session 6 Biomolecular Tools - Current Applications and Future Perspectives [room G2.02]

13:30-14:30 **T12:** Towards a therapy for polyglutamine diseases: lessons from preclinical studies, Clévio Nóbrega, Univ. of Algarve

14:30-15:30 **T13:** Can neurons from the embryonic secondary neural tube be a better source for regenerative therapies?,
Moises Mallo, IGC

15:30-16:00 **Coffee Break [room G2.01]**

16:00-17:00 **T14:** Molecular Therapies for Spinal Cord Injury Repair, Nuno Silva, ICVS/EM

Thursday, March 5th 2020

Session 7 Neuroengineering as Enabling Technology in CNS Functional Recovery [room G2.02]

09:30-10:30 **T15:** Neuromodulation of Spinal Circuits - Neurorehabilitation and Recovery of Function Following CNS
Trauma, Ronaldo Ichiyama, University of Leeds

10:30-11:00 **Coffee Break [room G2.01]**

11:00-12:00 **T16:** Electroceuticals for nervous system injuries and regeneration, Xavier Navarro, UAB

12:00-14:00 **Lunch**

Session 8 New Tools to Design and Test Strategies for CNS Regenerative Medicine I [room G2.02]

14:00-15:00 **T17:** Secretome of Cells and its Role in Neuroregeneration, António Salgado, ICVS/EM

15:00-16:00 **T18:** New Trends in Drug Delivery in the CNS, Ana Pêgo I3S

15:30-16:00 **Coffee Break [room G2.01]**

16:00-17:00 **T19:** Pharmacological Therapies in Machado Joseph-Disease, Sara Silva, ICVS/EM

Friday, March 6th 2020

Session 9 New Tools to Design and Test Strategies for CNS Regenerative Medicine II [room G2.02]

09:30-10:30 **T20:** Engineered tissue models for nervous system research, James Phillips, UCL

10:30-11:00 **Coffee Break**

11:00-12:00 **T21:** Biofabrication of 3D *in vitro* Nerve Models, Paul Wieringa, MERLN

Session 10 Challenges for Translational Research in CNS Injury and Disease [room G2.02]

13:30-14:30 **T22:** The long way from the bench to clinical trials for a regeneration enhancing therapy for spinal cord injury,
Martin E. Schwab, IREM

14:30-15:30 **T23:** Animal models of neurological disease - limitations for translational research, Susana Monteiro, ICVS/EM

15:30-16:00 **Coffee Break**

15:00-16:00 **T24:** Bioethics in Translation Research and Clinical Trials, Nadine Santos, ICVS/EM