

# Advances in Neural Regenerative Medicine: Integrative Strategies and Practical Skills

WEEK1					
Monday - 26/05					
08:30-09:00	All	Registration		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
09:00-09:30	All	Introduction to the course		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
09:30-10:30	All	A primer into the CNS		Susana Monteiro	
10:30-12:00	All	Regenerative Medicine: an overview		Nuno Silva	
Lunch break					
14:00-15:00	All	Animal experimentation: the concept		Alice Miranda	
15:00-16:30	All	Welcome		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
Tuesday - 27/05					
09:00-09:45	All	Exploring Neuronal Functionality Through Cellular Models		Belém Sampaio-Marques	
09:45-11:15	All	Unveiling the Core Molecular Mechanisms of Neurodegeneration		Mónica Sousa	
11:45-12:15	All	Cellular Models of Neurons: Applied Perspectives		Ana Paula Pêgo	
Lunch break					
14:00-14:30	All	Hands-on: Cellular models I		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
14:30-16:00	G1	Cell Culture: neurons	G2	Cell Culture: Glia	Belém Sampaio-Marques; Nuno Silva; Susana Monteiro
16:00-17:30	G2	Cell Culture: Glia	G1	Cell Culture: neurons	Belém Sampaio-Marques; Nuno Silva; Susana Monteiro
Wednesday - 28/05					
09:00-10:00	All	Astrocytes: The Unsung Heroes of Neural Support		João Oliveira	
10:30-11:30	All	Microglia: Guardians of the Central Nervous System		Susana Monteiro	
11:30-12:30	All	Immunomodulation by Oligodendrocytes		Ana Falcão	
Lunch break					
14:30-15:30	All	Hands-on: Cellular models II		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
14:30-16:00	G1	Cell Culture: neurons	G2	Cell Culture: Glia	Belém Sampaio-Marques; Nuno Silva; Susana Monteiro
16:00-17:30	G2	Cell Culture: Glia	G1	Cell Culture: neurons	Belém Sampaio-Marques; Nuno Silva; Susana Monteiro
Thursday - 29/05					
09:00-09:30		Injury and Diseases in Central Nervous System		Externo	
09:30-10:20		Multiple sclerosis		Fernanda Marques	
10:45-11:15		MJD		Andreia Castro	
11:15-12:00		Alzheimer		Tiago Gil	
Lunch break					
14:00-15:00		Neurophatic pain		Hugo Almeida	
15:00-16:00		Parkinsons Disease		Miguel Gago	
16:30-17:30		Spinal Cord Injury		Rui Duarte	
Friday - 30/05					
09:10-10:00		Stem Cell Therapies for Regenerative Medicine		António Salgado	
10:30-11:30		Secretome of Cells and its Role in Regenerative Medicine		António Salgado	
11:30-12:30		Gene therapy		Externo	
Lunch break					
14:00-15:00		Biomaterials in Regenerative Medicine		Rogério Pirraco	
15:00-16:00		Emerging Paradigms in Central Nervous System Drug Delivery		Externo	
16:30-17:30		Pharmacological Therapies in CNS		Nuno Silva	
WEEK2					
Monday - 02/06					
09:30-10:15	All	Current Approaches in Spinal Cord Injury		Nuno Silva	
10:30-12:00		SCI: Patient Vision		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
Lunch break					
14:00-14:30	All	Animal Models of SCI		Nuno Silva; Susana Monteiro	
14:30-17:00	All	Hand-on - SCI		Nuno Silva; Susana Monteiro	
Tuesday - 03/06					
09:30-10:15	All	Current Approaches in Parkinson ' s disease		Belém Sampaio-Marques	
10:15-10:45	All	PD: Patient Vision		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
Lunch break					
14:00-14:30	All	Animal Models of PD		Belém Sampaio-Marques	
14:30-17:00	All	Hand-on - PD		Belém Sampaio-Marques	
Wednesday - 04/06					
09:30-12:00	All	SCI: Behaviour analysis		Nuno Silva; Susana Monteiro	
Lunch break					
14:00-16:30	All	PD: Behaviour analysis		Belém Sampaio-Marques	
Thursday - 05/06					
09:30-12:00	All	Histological Analysis		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
Lunch break					
14:00-16:30	All	Histological Analysis		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
Friday - Workshop - open to community - 06/06					
09:00-10:30		Exam		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	
11:00-12:30		The Promise of Regenerative medicine and Artificial Intelligence		Peter Egelberg	
11:00-12:30		Using Machine learning for Data Evaluation		Abel Torres Espin	
Lunch break					
14:00-15:30		Using Machine learning for Data Evaluation		Abel Torres Espin	
15:30-16:30		Translation in Clinical Trials – All That You Need to Know		Nuno Pires	
16:30-17:30		Round table		Belém Sampaio-Marques; Nuno Silva; Susana Monteiro	