

15 th December		
08:30	Registration	
09:00	Opening Session	
Session I – <u>New preventive and therapeutic strategies</u>		
Moderated by: Carlos Faro & Nuno Empadinhas		
09:45	Nuno Empadinhas “When microbes get on your nerves”	
10:15	Luana Naia	Sirtuins activation in Huntington’s disease: friend or foe?
10:35	Paula Mota	New strategies to recover fertility and genetic potential of endangered felids: Xenografting and germ cell
10:55	Ana Maranhã	The fourth link in the MGLP genomic puzzle decrypted: a new target in a deadly pathogen
Coffee-Break		10:45
Session II – <u>Molecular biotechnology and health</u>		
Moderated by: Luís Almeida & Miguel Mano		
11:30	Miguel Mano “Insights into gene and microRNA function by genome-wide high-throughput screening”	
12:00	Mariana Conceição	Non-viral silencing of Machado-Joseph disease after intravenous administration
12:20	Samira Ferreira	Medial prefrontal cortex adenosine A2A receptors control impulsive behavior and long-term potentiation – Interaction with dopamine D2-like receptors
12:40	Filipa Carvalho	Metabolic inhibition of perfused hearts from Wistar rats DOX-treated sub-chronically reveals increased glycolytic capacity
Lunch & Poster Session (starts at 14:00)		13:00
Session III – <u>The basis of neurobiology</u>		
Moderated by: Rodrigo Cunha & João Peça		
15:30	João Peça “Neuronal and Gene Networks Regulating Social Behavior”	
16:00	Mariana Botelho	Autophagic flux is stimulated by NPY in hypothalamic neurons and is relevant to synaptic plasticity of POMC hypothalamic neurons
16:20	Maria Joana Pinto	Proteasome inhibition and polyubiquitination as new on-site triggers of presynaptic differentiation
16:40	Dominique Fernandes	Towards solving the puzzle on homeostatic plasticity Contactin-associated protein 1 and 2 (Caspr1 & Caspr2) homeostatically regulate synaptic AMPA receptors
Coffee-Break		17:00
Session IV – <u>Structural and function biology</u>		
Moderated by: Armindo Salvador & Ricardo Pires		
17:15	Ricardo Pires “The structure of the KtrAB potassium transporter”	
17:45	Ana Lourenço	Structural and interactomic characterization of SAPAP3 – A postsynaptic density scaffolding protein involved in obsessive compulsive disorder
18:05	Hugo Filipe	Beyond overton’s rule – Quantitative modeling of passive permeation through cell monolayers
18:20	Sandra Anjo	Deciphering DJ-1 neuroprotective mechanisms in response to oxidative stress by revealing its dynamic interactome

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Session V – Stem cells and metabolism

Moderated by: Paulo Oliveira & Filipe Pereira



09:00	Filipe Pereira <i>"Programming definitive hematopoiesis"</i>
09:30	Isabel Onofre <i>Characterization of a human Machado-Joseph disease neuronal cell model derived from Induced Pluripotent Stem Cells</i>
09:50	Ana Tellechea <i>Mast cell stabilization: a potential treatment for diabetic wounds</i>
10:10	Ana Maria Silva <i>Post-menopausal bone loss and estrogen decline: is metabolic shift at osteocytes level that rules on it?</i>

Coffee-Break

10:30

Session VI – Cell biology, development and disease

Moderated by: Ana Cristina Rego & Ricardo Rodrigues



10:50	Ricardo J. Rodrigues <i>"Purinergic receptors in axon specification and growth: new strategies to arrest epileptogenesis"</i>
11:20	Cláudio Roque <i>Cancer-associated TCTP impacts on axon pathfinding by promoting mitochondrial homeostasis</i>
11:40	Joana Guedes <i>Molecular and phenotypic alterations in the mononuclear phagocyte system from Alzheimer's disease patients</i>
12:00	Special Session – "Communication design for dementia?" Rita Maldonado Branco , University of Porto.

Lunch

13:00

Session VII – Biophysics and biomedical approaches

Moderated by: João Laranjinha & Sónia Gonçalves



14:30	Sónia Gonçalves <i>"Multimodality in Brain Imaging: from electroencephalography to functional MRI"</i>
15:00	Ana Duarte <i>Brain dysfunction upon chronic type 2 diabetes_ the (neuro) protective effects of peripheral exendin-4 therapy</i>
15:20	Nuno Ferreira <i>The redox interaction of nitrite and ascorbate is a source of nitric oxide in the brain hippocampus. An in vivo study in real-time</i>
15:40	Fátima Bastos <i>Study of zinc changes associated with intense hippocampal mossy fiber depolarization</i>
16:00	Special Session - CNC: more than test tubes

Coffee-Break

16:30

16:50	Quiz
18:00	Winners & Awards (Poster Session)
18:15	Closing Remarks

Dinner

20:00