



CIBB Neuroscience and Disease – Retreat Programme

May 10th, 2019 - Casa das Artes, Miranda do Corvo

10h00 | Opening session

10h15 – 10h45 | Elsa Henriques | *The Neuroscience and Disease Area at a Glance*

10h45 – 11h30 | Session I – New models and therapies for brain and vision diseases

Chairs: João Peça and Francisco Ambrósio

10h45 - 11h00 | Catarina M. Seabra, Ana Rafaela Oliveira, Ana Luisa Cardoso, Diana B. Sequeira, Paulo J. Palma, Frederico Duque, João Miguel Santos, Guiomar Oliveira, João Peça | *3D Brain Organoids to study Neurodevelopmental Disorders*

11h00 - 11h15 | Liliana S. Mendonça, Daniel Henriques, Ricardo Moreira, Vanessa Fernandes, Sónia Duarte, Jens C. Schwamborn, Luís Pereira de Almeida | *Cerebellar transplantation of human iPSC-derived neuroepithelial stem cells for Machado-Joseph disease treatment*

11h15 - 11h30 | Raquel Boia, Paulo A. N. Dias, Manuel Salinas-Navarro, Alejandro Gallego-Ortega, Caridad Galindo-Romero, Joana M. Martins, Inês D. Aires, Manuel Vidal-Sanz, Marta Agudo-Barriuso, Hermínio C. de Sousa, António Francisco Ambrósio, Mara E. Braga, Ana Raquel Santiago | *Activation of A₃ adenosine receptor using intraocular biodegradable implants as a neuroprotective strategy against glaucomatous degeneration*

11h30 - 11h45 | Andreia Martins Rosa, Miguel Castelo-Branco, Joaquim Murta | *How fMRI helps understanding neuroadaptation to multifocal intraocular lenses*

11h45 - 12h15 | Rodrigo Cunha | *Short presentation of MIA-Portugal*

12h15 - 14h00 | Lunch break and mini-posters

14h00 – 15h00 | Session II – Molecules, circuits and symptoms in neuropsychiatric disorders

Chairs: Catarina Gomes and Joaquim Cerejeira

14h00 - 14h15 | Sara Reis, Vanessa Lourenço, Paula M. Canas, Ana P. Simões e Rodrigo A. Cunha | *Extinction of fear memories: a role for adenosine A_{2A} receptors*

14h15 - 14h30 | Dominique Fernandes, Sandra D Santos, Ester Coutinho, Jessica L Whitt, Tiago Rondão, M Isabel Leite, Camilla Buckley, Hey-Kyoung Lee, Ana Luisa Carvalho | *Disrupted AMPA receptor function upon genetic or antibody-mediated loss of autism-associated CASPR2*

14h30 - 14h45 | Sandra I. Anjo, Vera M. Mendes, Fábio Teixeira, Patrícia Valério dos Santos, Maria Luiza Constante Rosado, Graça Baltazar, António Salgado, Mário Grãos, Bruno Manadas | *New biomarker strategies in neurological disorders*

14h45 - 15h00 | Gustavo C. Santo, Inês Baldeiras, Paula Estanqueiro, Carolina Fernandes, Manuel Salgado, Ana Paula Martins, Artur Paiva, Maria Rosário Almeida | *Adenosine deaminase 2 deficiency (DADA2): the importance of a multidimensional approach and future perspectives on clinical and translational research*



15h00 – 15h10 | *Presentation of the CIBB post-docs and PhD students representatives*

15h10 – 15h30 | *Luísa Cortes | MICC – overview and perspectives*

15h30 - 16h15 | **Session III – Structural-functional modifications in epilepsy**

Chairs: Ana Ledo and Carlos Duarte

15h30 - 15h45 | Xinli Xu, Nélio Gonçalves, João MM Rocha, Francisco Q Gonçalves, Sofia Morais, Rui O Belezza, Rodrigo A. Cunha, Joana M Marques, Ricardo J Rodrigues | *Adenosine A2A receptor contributes to hippocampal mossy fiber sprouting during epileptogenesis*

15h45 - 16h00 | Miranda Mele, Ricardo Vieira, Filipe V. Duarte, Roberta Barletta, Asta Lučiunaitė, Andrea Barberis, Carlos B. Duarte | *Alteration of GABA_A receptor dynamics in epilepsy*

16h00 – 16h15 | Joana Ribeiro, Francisco Sales | *Epilepsy Research: advances and future challenges*

16h15 - 16h45 | Coffee break

16h45 - 18h00 | **Session IV – Metabolism in brain diseases**

Chairs: Célia Aveleira and Cláudia Pereira

16h45 - 17h00 | Lígia Fão & A. Cristina Rego | *Exploring c-Src/Fyn kinases in models of Huntington's disease*

17h00 - 17h15 | Ana I Duarte, Inês N Alves, Débora Mena, Raquel Seiça, Catarina R Oliveira, Paula I Moreira | *From type 2 diabetes to Alzheimer's disease: the Mynotaur labyrinth or a "just" challenging puzzle?*

17h15 - 17h30 | Cátia F. Lourenço, João Gonçalves, Ana Ledo, Rui Barbosa, João Laranjinha | *Dysfunction of neurovascular and neurometabolic coupling in brain aging and disease*

17h30 - 17h45 | Ricardo Leitão, Vanessa Coelho-Santos, Maria Madeira, Raquel Boia, Ana Ledo, João Novo, Francisco Ambrósio, Rosa Fernandes, Ana Paula Silva | *Neurovascular alterations induced by methylphenidate: ADHD versus control*

17h45 - 18h00 | Ana Rita Álvaro, Laetitia Gaspar, Bárbara Santos, Sara Carmo-Silva, Joaquim Moita, Ana Santos Carvalho, Cláudia Cavadas | *Circadian Rhythms and Aging*

18h00 - 18h30 | **Wrap-up session**

18h30 – A máquina dos sonhos, Performance by Marionet

