



PROGRAMME

MONDAY – September 1st

FFULisboa

9h00 **Welcome**
Course organizers

Cognitive and Behavioural Neuroscience

Moderator: Alexandra Brito, FFULisboa

9h30 **Treatments for cognitive dysfunction: An overview**
João Cerqueira
*ICVS - Life and Health Sciences Research Institute, School of Medicine,
Universidade do Minho, Braga, Portugal*

10h30 **Impact of adult hippocampal cytogenesis for brain circuitry and behavior in depression**
Luisa Pinto
*ICVS - Life and Health Sciences Research Institute, Universidade do Minho,
Braga, Portugal*

11h30 **Break**

12h00 **Working Memory Deficits in a Rodent Model of Autism**
Miguel Remondes
GIMM – Gulbenkian Institute for Molecular Medicine

13h00 **Lunch Break**

14h00 **Guidelines for preparation of assignment – Adelaide Fernandes**
iMed.Ulisboa, Faculty of Pharmacy, Universidade de Lisboa, Lisboa, Portugal

TUESDAY – September 2nd

FFULisboa

Neurodegeneration and Neuroregeneration

Moderator: Rui Silva, FFULisboa

9h30 Combinatory Approaches using Stem Cell Secretome and Biodegradable Biomaterials in Regenerative Medicine: Insights in Trauma and Degeneration in the CNS
António Salgado
ICVS, School of Medicine, Universidade do Minho, Braga, Portugal

10h30 From Scar to Repair: Defining the Cellular and Molecular Roadmap for Mammalian Spinal Cord Regeneration
Monica Sousa
i3S- University of Porto

11h30 Break

12h00 Neuro-glia-immune interactions modulating synaptic fate in neurodegeneration
Soyon Hong
UK Dementia Research Institute, University College London, UK

13h00 Lunch Break

Workshop – Advanced models for target discovery and neuropharmaceutic screening assays
FFULisboa

Moderator: Adelaide Fernandes (FFULisboa) & Andreia Barateiro (FFULisboa)

14h00 Lecture: Organotypic CNS Culture Models as Functional Platforms for disease study
Andreia Barateiro
iMed.Ulisboa, Faculdade de Farmácia, Universidade de Lisboa, Lisboa, Portugal

Lecture: iPSC-derived Brainspheres as a new 3D human mini-brain model
Adelaide Fernandes
iMed.Ulisboa, Faculdade de Farmácia, Universidade de Lisboa, Lisboa, Portugal

15h00 Workshop: Beyond the Slice: Advanced Imaging in Organotypic Cultures and BrainSpheres
Andreia Barateiro & Adelaide Fernandes

WEDNESDAY – September 3rd

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Neuro-immunology

Moderator: Ana Rita Vaz, FFULisboa

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| 9h30 | Stressing out $\gamma\delta$ T cells in tissue pathophysiology
Julie Ribot
<i>GIMM – Gulbenkian Institute for Molecular Medicine</i> |
| 10h30 | Taming Brain Inflammation from the Gut: Neuroimmune Pathways and Therapeutic Innovation
Sandra Cardoso
<i>CNC-Centro de Neurociências e Biologia Celular da Universidade de Coimbra</i> |
| 11h30 | Break |
| 12h00 | Contribution of BDNF Receptor Cleavage to Alzheimer's Disease
Maria José Diógenes
<i>Faculdade de Medicina da Universidade de Lisboa</i> |
| 13h00 | Lunch Break |
| 14h00 | Case-study discussion
Moderators: Adelaide Fernandes, FFULisboa & Sandra Vaz, FMULisboa |

Central Nervous System targeting

Moderator: Gonalo Garcia, FFULisboa

- 9h30** **Nano-immunotherapies regulating brain immunity**
Helena Florindo
Faculdade de Farmcia, Universidade de Lisboa, Lisboa, Portugal
- 10h30** **TBA**
- 11h30** **Break**
- 12h00** **Gene therapy for brain disorders**
Luis Pereira de Almeida
*CNC - Center for Neuroscience and Cell Biology, CIBB - Center for Innovative Biomedicine and Biotechnology, GeneT - GeneTherapy Center of Excellence
Faculdade de Farmcia, Universidade de Coimbra, Coimbra, Portugal*
- 13h00** **Lunch Break**

Workshop – Electrophysiological recordings: old techniques to answer innovative questions
FMULisboa

Moderator: Sandra Vaz, FMULisboa

- 14h00** **Lecture: Relevance of Electrophysiological recordings: from *in vitro* to *in vivo***
Sandra Vaz
iMM/FMULisboa
- 15h00** **Workshop: Patch-clamp, field excitatory postsynaptic recordings and EEG recordings**
Sandra Vaz (iMM/FMUL) and Mariana Neuparth-Sottomayor (iMM/FMUL)

FRIDAY – September 5th

Innovation in neuropharmaceutics

Moderator: Adelaide Fernandes, FFULisboa & Sandra Vaz, FMULisboa

- 9h30** **Pharma vignettes of neuroscience pipeline/portfolio**
- TBA**
- Advancing Neuropharmaceutics in Rare Diseases: a Biotech Perspective**
Sofia Almeida
Rare Diseases Manager, Biogen Portugal
- 11h00** **Break**
- 11h30** **Round Table**
Academia/Clinical Research
Mamede de Carvalho
Faculdade de Medicina, Universidade de Lisboa, Lisboa, Portugal
- Regulatory affairs**
João Rocha
iMed.Ulisboa, Faculdade de Farmácia, Universidade de Lisboa, Lisboa, Portugal
- Patient association**
Paulo Gonçalves
União das Associações das Doenças Raras de Portugal – DR-Portugal
- 13h00** **Lunch Break**
- 14h00** **Case-study Examples presentation and discussion**
Moderators: Adelaide Fernandes, FFULisboa & Sandra Vaz, FMULisboa
Room C.3.2.

MONDAY – September 8th

Tutorial

Moderator: Adelaide Fernandes, FFULisboa & Sandra Vaz, FMULisboa

14h00

Group work

Group discussion with organizing committee and development of students' case-study assignment

FRIDAY – September 12th

Students' presentation

Moderator: Adelaide Fernandes, FFULisboa & Sandra Vaz, FMULisboa

14h00

Workshop – Research to Impact Canvas pitch presentation - Students

Moderators: Adelaide Fernandes, FFULisboa & Sandra Vaz, FMULisboa