



**14th, 15th and 16th
October 2024**

SCIENTIFIC PROGRAM

NEURO, VISION AND AGEING

Monday – October 14th

Neuro, Vision and Ageing



12h30- 13h00

Registration

13h00-14h00

Opening Session

Helena Canhão – Dean

João Conde – Vice-Dean for Research

Maria Paula Macedo – PhD program Coordinator

Miguel Seabra – Health Sciences PhD Coordinator

Elvira Fortunato – Former Minister of Science, Technology and Higher Education of Portugal

13h45-14h00

Get to know NOVA Doctoral School

14h00-14h45

Oral Communications – First Panel

Margarida Brotas *Dissecting the circuits and mechanisms underlying mechanosensory-triggered locomotion*

Ana Fonseca *Deciphering inflammatory pathways in Choroideremia*

Mariana Barata *Alzheimer's genetic risk factor Bin1 controls endocytic trafficking in inhibitory synapses*

Joint Discussion

Oral Communications – Second Panel

Ana Rosa *Electrophysiological Alterations in Trigeminal Ganglion Neurons Underlying Chronic Orofacial Pain*

Imaan Tamimi *Cell-type specific lncRNAs and their role in Drosophila neurogenesis*

Bruno Maia *Preparing a cohort of patients – sampling subarachnoid hemorrhage patients for a metabolomics study (NeuroMetaS)*

Joint Discussion

14h45-15h30

15h30 – 16h00

Poster Session

Monday – October 14th

Neuro, Vision and Ageing



16h00-17h00

Invited Speakers

Merit Kruse (Champalimaud Research)

Generalization mechanisms in cerebellar associative learning

Catarina da Silva Barros (iMED)

Microglia and T cells: "Partners in Crime" in multiple sclerosis-associated cognitive impairment

17h00 – 17h30

Coffee Break & Poster Session

17h30-18h30

Oral Communications – Third Panel

Diogo Carregosa *Modulating microglia using microbiota phenolic metabolites and the TGF β RII*

Alexandra Oliveira *Nanostructured Films for Controlled Drug Delivery in Glaucoma Valve Implant*

Ana Caulino-Rocha *Synaptic Specificity and Functional Interplay of BAR Domain Proteins Endophilin-A and Bin1 in Neurodegeneration and Aging*

Sofia Dias *Traumatic brain injury subphenotypes based on heart rate variability features: a clustering analysis*

Joint Discussion

18h30

Closing Session

CANCER, METABOLISM AND NUTRITION

Tuesday – October 15th

Cancer, Metabolism and Nutrition



13h30-14h00

Registration

14h00-14h45

Oral Communications – First Panel

Ana Tomás *Identifying potential predictive and prognostic immune biomarkers in cutaneous melanoma*

Catarina Martins *Characterization of Gold Nanorod-Integrated Hydrogels for Advanced Smart Platform Applications*

Alberto Ignacio Herrando *Detection and characterization of colorectal cancer by autofluorescence lifetime imaging: a preliminary study on surgical specimens*

Joint Discussion

14h45-15h30

Oral Communications – Second Panel

Luís Cabaço *The Rab27a-Rab311-Rab3a Cascade Regulates Melanin Secretion and Transfer Induced by Keratinocyte-Conditioned Medium*

Bruna Correia *The therapeutic potential of the novel X-expressing immunosuppressive neutrophils in Breast Cancer*

Carlos Pita *Improvement of the gut-brain axis imbalance in Parkinson's disease through a (poly)phenol-enriched diet: mechanistic insights*

Joint Discussion

15h30 – 16h00

Poster Session

16h00-17h00

Invited Speakers

Carolina Jardim (GiMM)

Sustained macrophage reprogramming is required for CD8 T cell-dependent long-term tumor resolution

Rita Cardoso Figueiredo (Champalimaud Research)

Mapping metabolic programs in a whole-animal at single-cell resolution

Tuesday – October 15th

Cancer, Metabolism and Nutrition



17h00 – 17h30

Coffee Break & Poster Session

17h30-18h30

Oral Communications – Third Panel

Cristina Demelas *Melanin secretion as a novel target to impair cutaneous melanoma invasion*

Miguel Ângelo-Dias *Immune Variations in Healthy Pregnancy: A Comprehensive Analysis of B and T-Cell Profiles*

Gonçalo Melo *Can carotid sinus nerve resection in obese mothers prevent dysmetabolic features and anxiety and cognitive decline in the offspring?*

Gilberto Santos *Blackberry supplementation decreases weight gain in a humanized mice model of obesity - putative prebiotic effect?*

Joint Discussion

18h30

Closing Session

**MUSCULOSKELETAL,
CARDIORESPIRATORY,
CARDIOVASCULAR
HEALTH**

Wednesday – October 16th

Musculoskeletal, Cardiorespiratory and Cardiovascular health



13h30-14h00

14h00-14h45

14h45-15h30

Registration

Oral Communications – First Panel

Ana Rita Colaço *Establishing Drosophila as a novel genetic model for motor recovery after limb loss*

Paulo Gottardo *PredictIVE-US: Predictive Integrative Ventilatory Weaning Evaluation using Ultrasonography*

Sílvia Leal *Acute and mid-term outcomes of the first 100 patients in the OPTI-PE registry: insights into catheter-derived therapy for acute pulmonary embolism*

Joint Discussion

Oral Communications – Second Panel

Inês Ferreira *The Influence of Oxidized Lipids on Macrophage Homeostasis: Murine Models of Atherosclerosis*

Jéssica Cabrita *Mechanisms for the regulation of Non-Centrosomal Microtubule Organizing Centres in the Drosophila germline*

Nuno Cristino *Decoding Degenerative Lumbar Spinal Stenosis progression: A Multi-Modal Approach to Personalized Treatment*

Joint Discussion

15h30 – 16h00

Poster Session

16h00-17h00

Invited Speakers

Miguel Gomes (FMH/UL)

Interference of Endurance Training on Strength Development and Neuromuscular Adaptations

Catarina Sequeira (GiMM)

Arp2/3 complex is involved in myofiber growth during skeletal muscle postnatal development

Wednesday – October 16th

Musculoskeletal, Cardiorespiratory and Cardiovascular health



17h00 – 17h30

Coffee Break & Poster Session

17h30-18h30

Oral Communications – Third Panel

Elizeth Lopes *Exploring the link between lysosome dysfunction and cellular senescence in Atherogenesis*

Miguel Antunes *Machine-learning based radiomics model to predict ventricular arrhythmias in patients with hypertrophic cardiomyopathy*

Micael Almeida *Human induced Pluripotent Stem Cells as a DAND5 cellular model of cardiovascular diseases in regenerative medicine*

Hugo Gomes da Silva *Respiratory Syncytial Virus disease Burden of Disease in older adults in Portugal: An observational prospective study describing clinical outcomes and healthcare resources utilization*

Joint Discussion

18h30

Closing Session