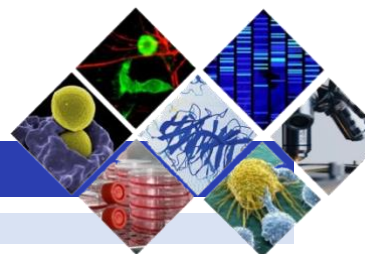


# 6º Encontro do Mestrado em Bioquímica e Biomedicina

Dia 20 fevereiro 2024 | Auditório 8.2.30

Departamento de Química e Bioquímica | Faculdade de Ciências | ULisboa



## Programa

### 9:00 Registo de Participantes e Abertura

#### 9:30 Sessão I – Protein Biochemistry and Nervous System Function

- Investigating the Late-Alzheimer's disease phenotype of CD2AP genetic risk in induced human neurons - *Anton Simões*
- The toxicity of alpha synuclein condensates in the presence and absence of metal ions - *Miriam Pinto*
- Effects of obesity in multiple sclerosis pathogenesis: oligodendrocyte development, myelination and glia reactivity - *Mariana Roque*
- Unraveling the role of sympathetic neurons in the intestine: an in vitro approach - *Tomás Coimbra*
- A role for astrocytes in modulation of GABAergic transmission and synaptic plasticity by VIP - *Mafalda Pires*
- Biological effects of new psychoactive substances - *Mariana Meneses*
- Mechanisms of protein dysfunction in mitochondrial leukodystrophies – studies on glutamyl-tRNA synthetase (EARS2) - *Andreia Dias*
- Functional and dynamic studies on bacterial two-component signal transduction systems with focus on sensor histidine kinases - *Iryna Todoriko*

### 10:30 Coffee-break & Networking

#### 11:00 Sessão II – Human Molecular Genetics and Immunity

- Deciphering the transcriptional regulation underlying miR-34c-5p TCR-dependent induction - *Pedro Silva*
- Modulation of AQP-induced inflammatory response in immune cells by miRNAs - *Carlos Nunes*
- Testing miRNA-engineered exosomes as regulators of inflammation in Alzheimer's disease research models - *Maria Lourenço*
- Short Chain Fatty Acids Effect in Dendritic Cells - *Bárbara Madeira*
- Functional studies of variants in the APOB gene in patients with a clinical diagnosis of Familial Hypercholesterolemia - *Diana Ramos*
- In vitro functional studies of variants in the LDLR gene in variants found in the Iberoamerican Familial Hypercholesterolemia Network - *Mariana Fonseca*
- Characterizing the regulation of the CFTR protein by the kinase GRK5 in cystic fibrosis - *Mariana Caleiro*

### 12:00 Almoço

#### 14:00 Sessão III – Molecules and Technologies

- Exploring quinone reductases from pathogenic bacterium *Staphylococcus aureus* - *David Santos*
- Natural products nanoparticles: Exploring the potential of application in Health and Well-being - *Laura Teixeira*
- Assessment of melatonin as a priming agent against fruit decay due to fungal infections in table grapes - *Patrícia Pardal*
- *B. cereus* biotyping through top-down proteomics and metabolomics - *Inês Romão*
- Structural mass spectrometry-based fragment-screen: A new and effective validation - *Vanessa Frazão*
- Fingerprint metabolomics as a non-invasive method to uncover biomarkers of obesity-related cardiovascular disease - *Marta Cruz*
- Extracting n-ary Relations from Biomedical Literature using Deep-Learning Techniques - *João Fernandes*
- Early detection of T lymphocyte exhaustion by microcalorimetry - *Rui Nunes*

### 15:00 Coffee-break & Networking

#### 15:30 Sessão IV – Cancer Biochemistry and Therapeutics

- Targeting cyclin-dependent kinases/ phosphoinositide-3-phosphate for metastatic breast cancer treatment: pre-clinical studies - *Carolina Rodrigues*
- Exploring the role of JAK3-STAT3 in colorectal cancer - *Catarina Violante*
- Development and biological characterization of a drug delivery system for brain metastatic breast cancer - *Isidro Mendes*
- Boosting anti-tumor responses by rendering tumor-specific T cells resistant to immunosuppression - *Matilde Oliveira*
- Internal Ribosome Entry Site (IRES)-Mediated Protein Synthesis In Colorectal Cancer Progression - *Sofia Sousa*
- Non-canonical translation initiation of Argonaut 1 and its implications in tumorigenesis - *Mariana Freitas*
- DNACJ14 in extracellular vesicles as biomarker for prediction of early-stage metastasis and monitoring of hepatic metastasis in colorectal cancer patients - *Maria Farina*

### 16:30 Encerramento



<https://mbb.edu.ciencias.ulisboa.pt/>

Apoios:



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