



2nd Chem&Biochem Students Meeting

15th July 2022 | Faculty of Sciences, University of Lisbon (C8)

Final Program

Morning session

8:00 – 9:00 | Event Registration

9:00 – 9:15 | Formal Opening

Manuel Minas da Piedade | FCUL Chemistry and Biochemistry Department president

António Jorge Parola | SPQ – Portuguese Society of Chemistry

9:15 – 10:15 | Plenary Session I

PL1. Pedro Góis | Faculty of Pharmacy (ULisbon), iMed.Ulisboa - *New Chemistries for Stimuli-Responsive Targeting Drug Conjugates*

10:15 – 11:00 | Coffee break + Poster Session

11:00 – 12:00 | Oral Session I

Chair: Andreia Valente (FCUL)

O1. Sónia Santos - *The O-demethylation of 4-alkylguaiaacols by Cytochrome P450 AgcAEP4*

O2. Jorge João - *Purification of small heat shock protein nanocages: development of a chromatographic strategy*

O3. Miriam Colaço - *Kinetic and thermodynamic studies of synthetic receptor-ligand complexes in water*

O4. Nuno Oliveira - *Novel US-CpHMD Protocol to Study the Protonation-Dependent Mechanism of the ATP/ADP Carrier*

12:00 – 13:00 | Flash Pitches

Chair: António Figueira (FCUL)

F1. Ricardo M. Silva - *Development and simulation of a purification platform based to deliver clinical-grade mesenchymal stem/stromal cell-derived extracellular vesicles*

F2. Ana R. Reis - *Electrochemical growth of Fe-MOF-74-type films*

F3. Susana Parreiras - *Design, production and characterization of antiviral proteins targeting SARS-CoV-2*

F4. Cláudio C. Fernandes - *Use of Hansen Solubility Parameters (HSPs) to investigate the solubility behavior of Hydrophilic and Hydrophobic NADES*

F5. Marta Batista - *Studying glycerol permeability through aquaporin from Plasmodium falciparum for the development of new antimalarial therapies*

F6. Catarina Nascimento - *On the Role of Polyphenols in the Hydration and Aggregation of Parkinson's Disease Related Peptides*

F7. Beatriz Lopes - *Understanding the molecular basis for human mitochondrial glutamyl-tRNA synthetase (hERAS2) deficiency – from recombinant protein production to structural characterization*

F8. Duarte B. Clemente - *Preparation of oxygenated metabolites of agrochemical active ingredients*

F9. Alexandre Coelho - *Development of a machine learning- based pipeline able to predict genes associated with diseases and cell processes using interpretable network embeddings*

F10. Luís C. Almeida - *Tailoring polydopamine and polynorepinephrine coatings for bacterial laccase based phenolic biosensor*

13:00 – 14:15 | Lunch break

Afternoon session

14:15 – 15:15 | Plenary Session II

PL2. Inês Figueira | Medical School (UNovaLisboa) - *Roadmap from blood to brain: low molecular weight phenolic metabolites as promising compounds against neurodegeneration*

15:15 – 16:15 | Oral Session II

Chair: Nuno Neng (FCUL)

O5. Sara Rosa - *A Machine Learning approach to optimise mRNA vaccines production*

O6. Ana C. Rocha - *Improving the reliability of oil spill identification by the accurate simulation of diagnostic ratios*

O7. Bruno Calçada - *Towards a framework to unify in silico methods for endocrine disruptors identification: a machine learning model to predict thyroid peroxidase inhibition*

O8. Adhan Pilon - *Iron-cyclopentadienyl compounds with phosphane and N-based ligands show strong activity against a broad panel of human cancer cell lines*

16:15 – 17:00 | Coffee break + Poster Session

17:00 – 18:15 | Round Table

Moderator: Marta Santos (FCUL)

Communication of Science : The challenges of the new generations of scientists

Adriano Cerqueira | Antena 1 / FCSH-UNL

Joana Lobo Antunes | FCSH-UNL / IST-UL

Vera Novais | Jornal Observador

18:15 – 18:30 | Closing Session & Awards

Coordinations of FCUL PhD in Chemistry and Biochemistry