



3rd ChemBiochem
Students Meeting



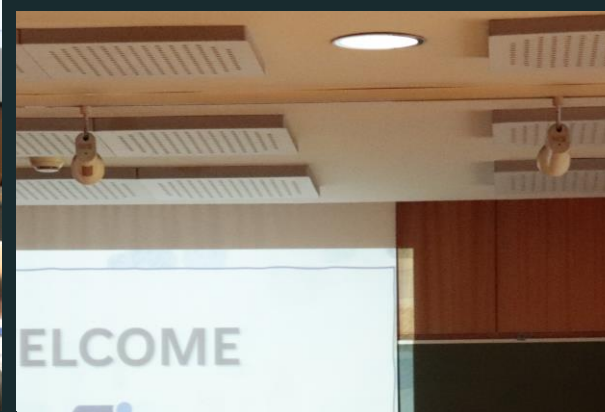
SOCIEDADE
PORTUGUESA
DE QUÍMICA

3rd ChemBiochem Students Meeting Photo Album

13th July 2023

Morning Session

Opening Session





Plenary Lecture I

By Pedro Mateus





Our first round of amazing oral presenters.



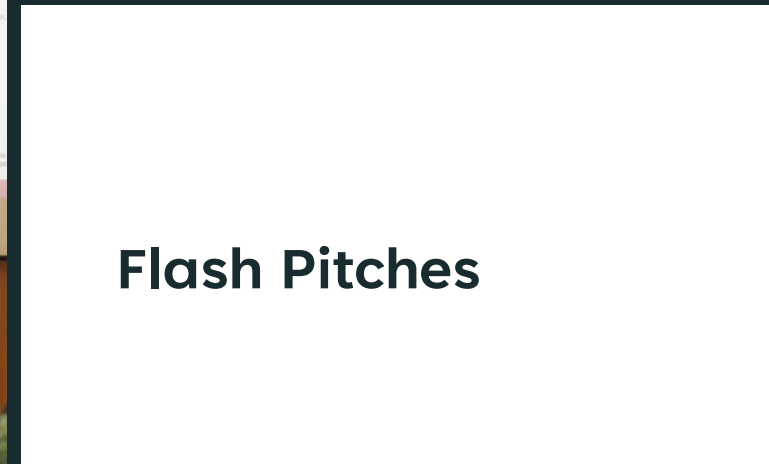
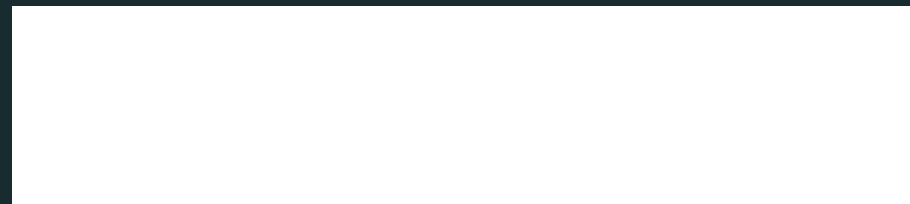
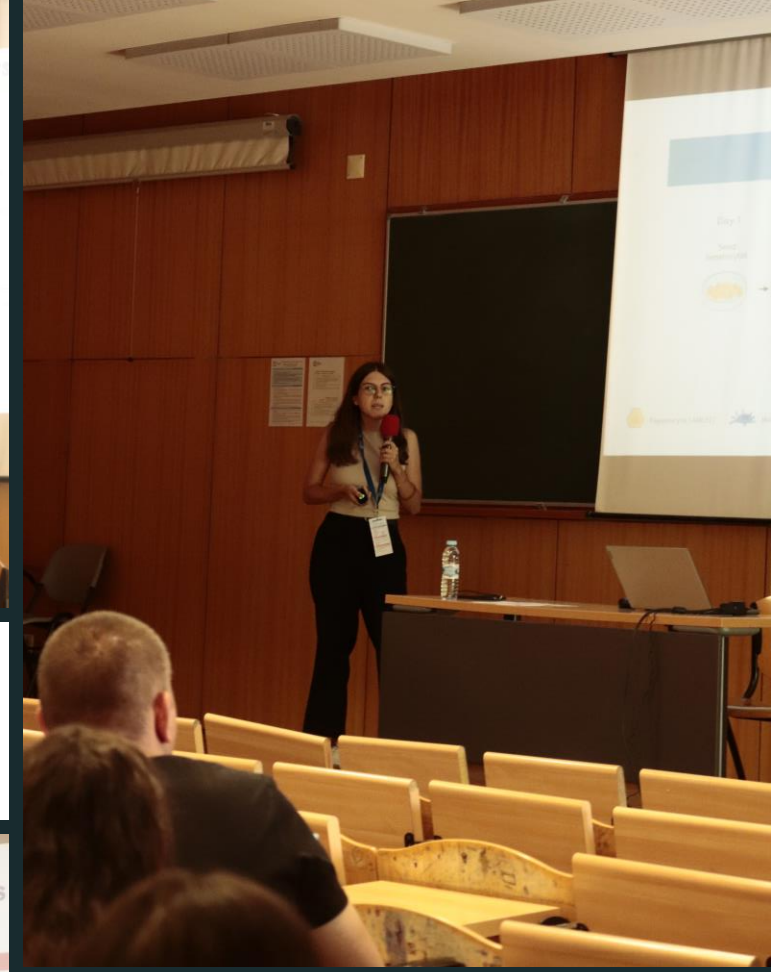
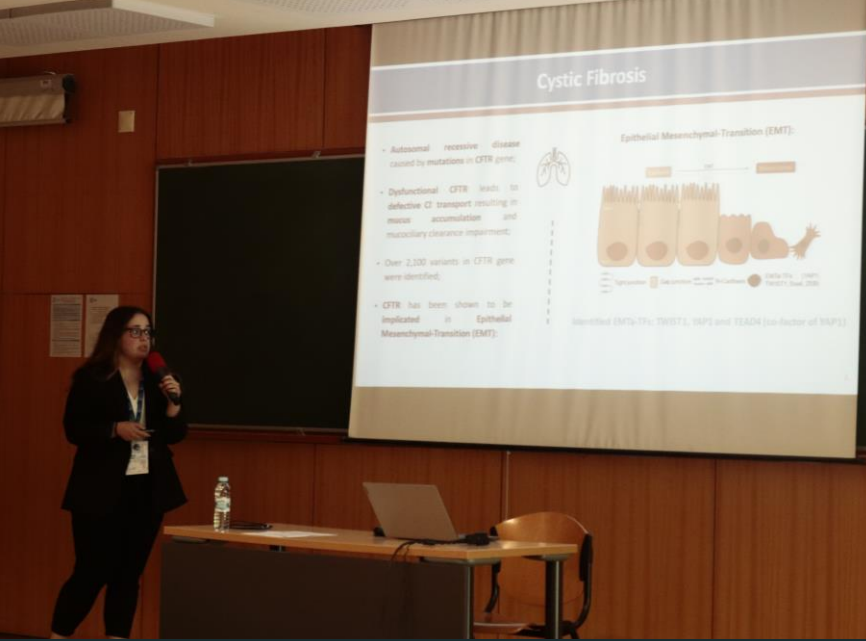
Oral Communications Session I



10 presenters gave everything in 3 minutes.



Flash Pitches



Flash Pitches





We also need a break for a snack and a coffee, as Portuguese tradition demands.



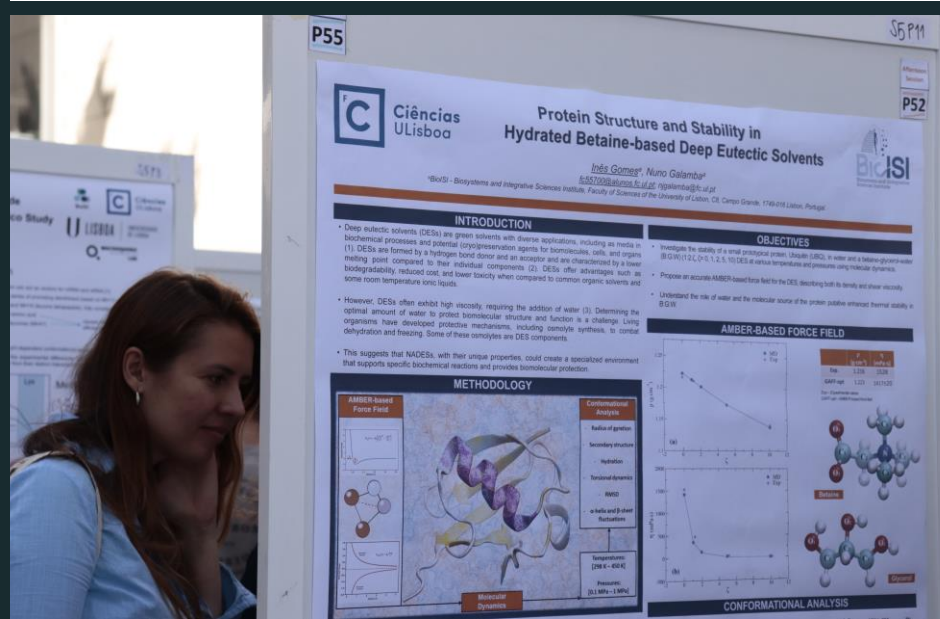
Coffee Break

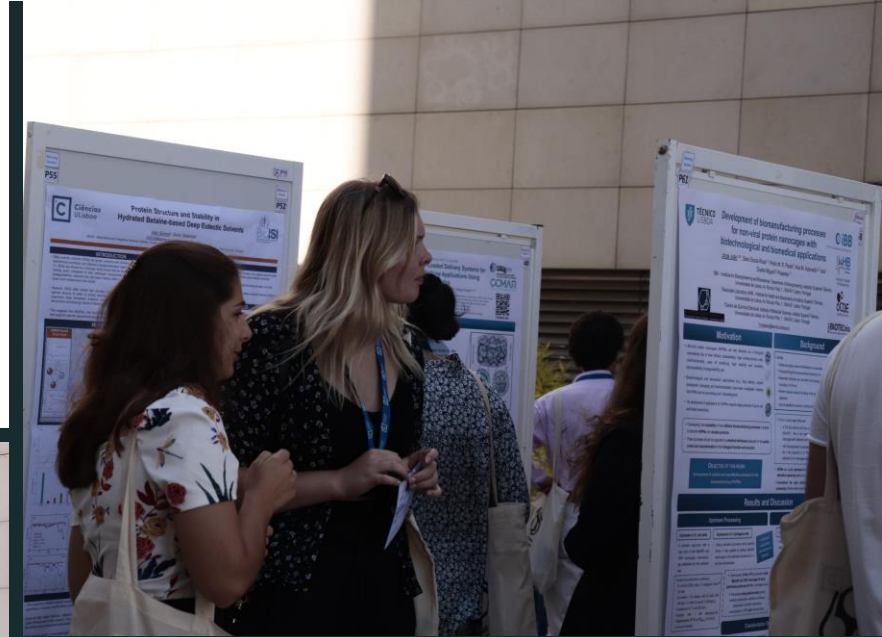




Always a good time for some scientific knowledge.

Poster Session I







Afternoon Session



Plenary Lecture II

By Liana Silva





Still sharing, still learning...

Oral Communications

Session II



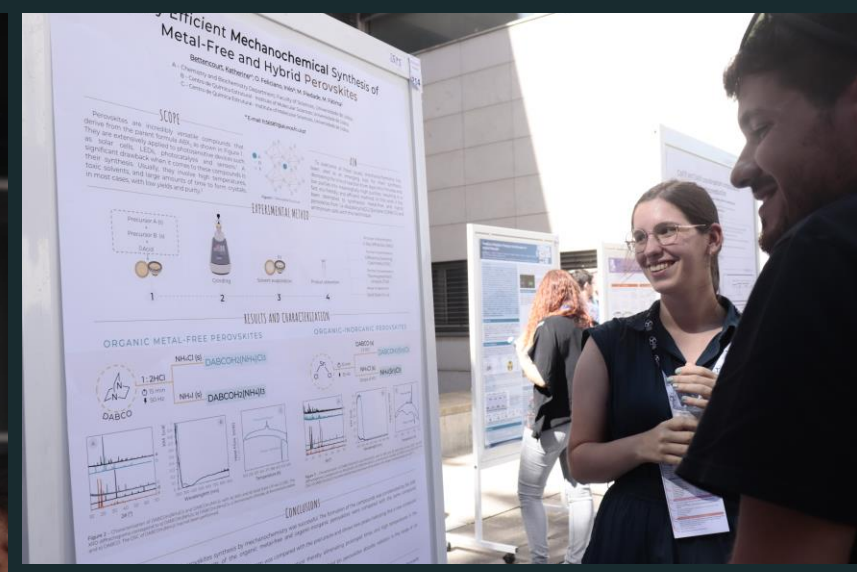
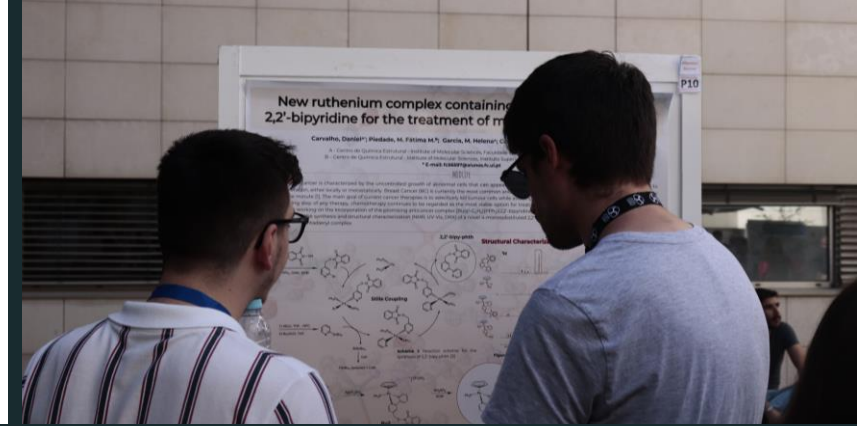
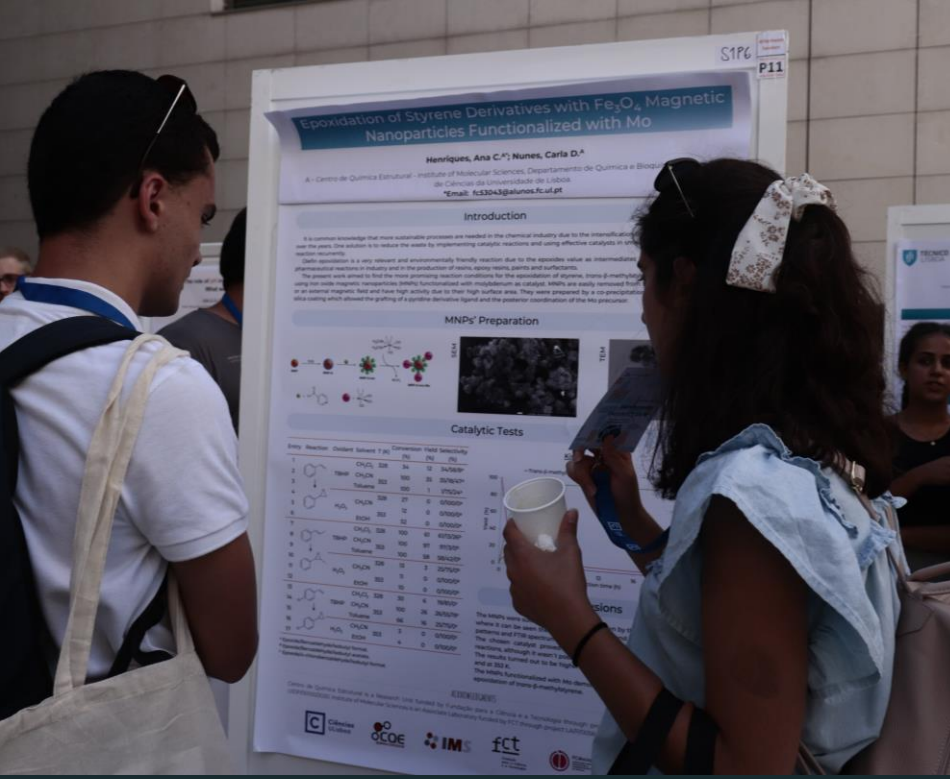


Those minutes of conversation can soothe the mood.



Coffee Break



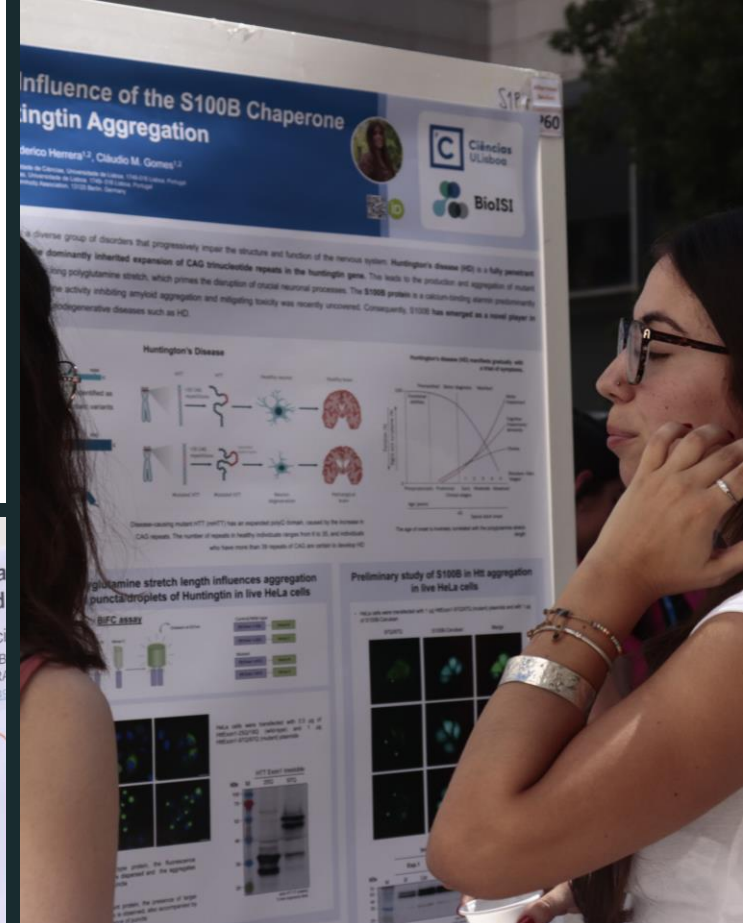


Poster Session II



The last poster session.

Over 80 posters were presented at this event.



Influence of the S100B Chaperone on Huntingtin Aggregation
Félicie Hamery^{1,2}, Cláudio M. Gomes^{1,2}
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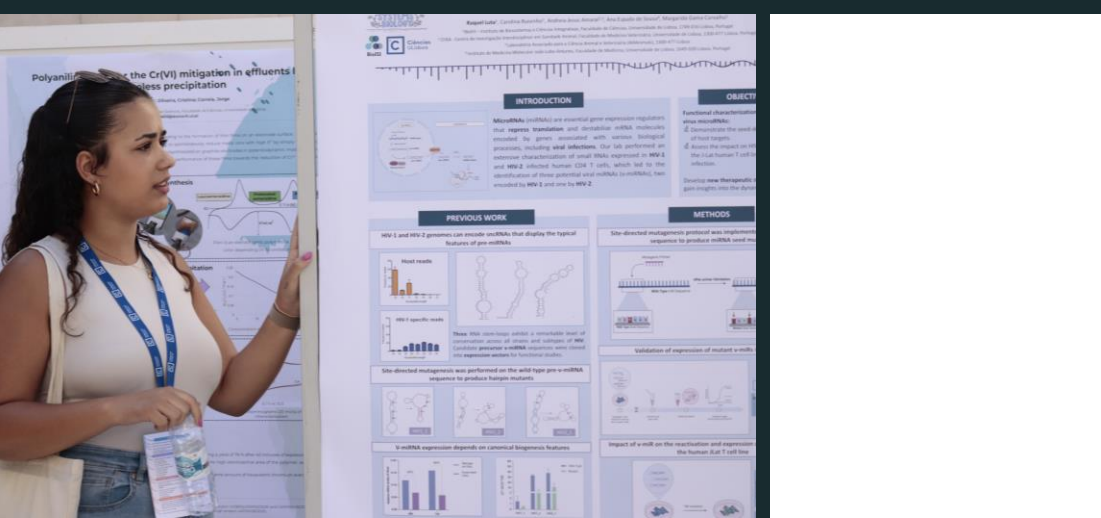
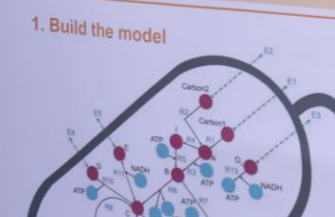
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BioISI



E(xtraterrestres). coli - Adapting metabolic models to non-standard conditions
Lucas Monteiro^{1,2}, Franco
1. University of Lisbon, Faculty of Sciences, CENTRA
2. University of Lisbon, Faculty of Sciences, CENTRA

U LISBOA
Ciências ULisboa
REPUBLICA PORTUGUESA

Growing interest in space exploration and the concept of human settlement
↓ leads to question
Can humans serve as vectors for biological contamination of extraterrestrial habitats?
↓ leads to action
• COSPAR's Planetary Protection Policies,
• Costly sterilization procedures,
• Clean rooms, etc...
↓ however
Lack of practical studies due to difficulties in simulating the extreme environments
↓ so...
Goal
Create a method that constrains metabolic models considering reaction temperature and study E. coli in extreme conditions



Polyamine... the Cr(VI) mitigation in effluents... less precipitation

INTRODUCTION
Microbial cells possess several gene expression regulators that respond to translation and degradation. mRNAs, molecules encoded by genes associated with various biological processes, including cell adhesion. Our lab performed an extensive characterization of small RNAs, expressed in MW1 and MW2 related human (293 T) cells, which led to the identification of three potential small mRNAs (s-mRNAs), transcribed by MW-1 and one by MW-2.

OBJECTIVE
Functional characterization of s-mRNAs:
1. Characterize the level of s-mRNAs.
2. Determine the effect of s-mRNAs on Cr(VI) reduction.

PREVIOUS WORK
MW-1 and MW-2 genomes can produce s-mRNAs that display the typical features of pro-mRNAs.

METHODS
Site-directed mutagenesis protocol was implemented to produce s-mRNA mutants and study their effect on Cr(VI) reduction.

RESULTS
MW-1 specific mRNAs
These s-mRNAs possess a secondary structure of conserved stem of stem and collapse of MW-1 characteristic s-mRNA structure, which could be the expression vector to functional studies.

CONCLUSIONS
Site-directed mutagenesis was performed on the wild type pro-mRNA sequence to produce mutant mRNAs.

Validation of expression of mutant s-mRNAs

V-mRNA expression depends on conserved biological features

Impact of s-mRNA on the reduction and expression of the human Euk T cell line

Round Table

Science beyond Academia: Entrepreneurship



Beyond the scenes, there was an amazing team.

Without them none of this was possible.

Organizing Committee and Staff



Thank you all for these moments

* Photos by Tânia Marques

13th July 2023

