## ERASMUS+ TRAINEESHIP / PLACEMENT OFFER

### Project title:
Protein Misfolding in Metabolic Disorders

### Project description:
Inborn errors of metabolism, although individually rare, are collectively quite numerous, and comprise a class of genetic diseases which affect genes coding for enzymes involved in different cellular pathways. For most of these disorders a clear relation between genotype and phenotype is still poorly understood, and most interesting is the fact that a modification in a single protein residue results in rather diverse cellular and clinical effects.

Our research aims to investigate pathological mechanisms underlying metabolic disorders such as Glutaric Acidurias type I and II. In particular, ongoing projects propose to clarify on the relation between the type of protein folding defect in disease-related variants and symptoms onset and progression.

The student will be integrated in the ongoing projects that combine different approaches from in-vitro studies on enzyme folding and function along with cellular studies and metabolomics analysis in patient-derived cells. Specifically, the student will have the opportunity to: i) perform heterologous expression and purification of human mitochondrial proteins; ii) use biophysical and biochemical methods to characterize protein structure, folding and function (CD, Fluorescence); iii) use patient-derived cells and isolated mitochondria for functional and viability assays.

Group webpage: [http://folding.campus.ciencias.ulisboa.pt](http://folding.campus.ciencias.ulisboa.pt)

### Department:
Chemistry and Biochemistry

### R&D Unit:
BioSystems and Integrative Sciences Institute

### Field of study:
Biochemistry and Biophysics

### Supervisor:
Bárbara J. Henriques

### Personal webpage:

### Number of weeks offered:
4-16

### Within the months:
from January to December

### Number of working hours per week:
35

### Publication date:
28/10/2019

### Closing date:
31/12/2020

### Requirements

**General:**
- A very good academic record;
- Good writing and presentation skills;
- Good social and organisational skills;
- Very good proficiency in spoken and written English; knowledge of Portuguese language is an asset.

**Specific:**
- **Level of education:** Bachelor's or Master's degree in Biochemistry, Biology, Biotechnology, Biomedicine or [⬌](http://ciencias.ulisboa.pt/pt/perfil/bjhenriques);
- ____________
- ____________

### Applications

Applications should include the following information:
- a cover letter, including a description of your research interests and an explanation for why you are applying for this project;
- a curriculum vitae (CV);
- an official transcript of grades issued by your home institution;

and be submitted no later than 31/12/2020 via email to internacional@ciencias.ulisboa.pt.

### Contacts

For inquiries regarding this project you are welcome to contact: _______________ bjhenriques@ciencias.ulisboa.pt.

For inquiries regarding the application procedure you are welcome to contact: internacional@ciencias.ulisboa.pt.