

ERASMUS+ TRAINEESHIP / PLACEMENT OFFER

Protoin Micfolding in Motobolic Dicordors
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/
Department: Chemistry and Biochemistry
R&D Unit: BioSystems and Integrative Sciences Institute
Field of study: Biochemistry and Biophysics
Supervisor: Bárbara J. Henriques Personal webpage: ciencias.ulisboa.pt/pt/perfil/bjhenriques
Number of weeks offered: 4-16 Within the months: from January to December
Number of working hours per week:
Publication data: 20 / 10 / 2019 Claring data: 31 / 12 / 2020
Publication date: $\frac{28}{200}$ / $\frac{10}{2019}$ Closing date: $\frac{31}{200}$ / $\frac{2020}{2000}$
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Requirements General:
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