

IBERUS TALENT PREDOCTORAL CONTRACT

CALL FOR CANDIDATES



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Marie Skłodowska-Curie grant agreement No 801386



Novel personalized drugs for infectious and conformational diseases

CENTRE: University of Zaragoza
(IUI BIFI) www.bifi.es

GROUP LEADER

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FELLOWSHIP PROGRAM

Iberus talent predoctoral fellowships

Pre-doctoral contract for early-stage researchers to pursue PhD studies in Health Technologies at the University of Zaragoza

<http://iberustalent.campusiberus.es/en/2018Health1>

POSITION DESCRIPTION

Personalized Medicine is an urgent need for people, as each of us carries a slightly different genetic information and accumulates fortuitous mutations.

Our research group is expert in proteins. We study proteins in the laboratory and in the computer. Our goals are:

1-To understand the phenotypic effect of mutations at the protein level to develop accurate bioinformatics tools to assist MDs in delivering accurate genetic diagnostic.

2-To develop new drugs to provide cure for people in need of personalized treatments (against resistant bacteria, rare inherited metabolic diseases or a variety of amyloidosis).

In this project, we will focus in developing new drugs. A combined project including bioinformatics work on the same diseases can be offered for students so inclined.

The successful candidate will get involved in:

1-rational improvements of antimicrobials against *Helicobacter pylori*, the bacteria causing peptic ulcer and gastric cancer.

2-testing novel pharmacological chaperones against PKU, a rare metabolic disease, and selecting the most potent ones for unresponsive mutations.

The work may require getting trained and working in chemical synthesis, microbiology, computational design, cell culture, animal models, and collaborating with patients associations. External training will be provided at Institute Pasteur (Paris) on murine models and at the ICVV of La Rioja University on protein docking. In the last year, additional training in local biotechnology companies may be required.

Gross annual salary: 22.000-26.000 €

Full time contract: 3 years

31st January 2019

Deadline for submitting applications.

25th February 2019

Eligibility check publication.

25th March 2019

First Step Evaluation and ranked list.

1-12th April 2019

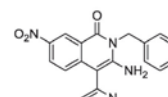
Interviews.

16th April

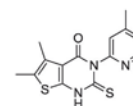
Resolution.

30th June

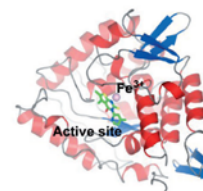
Latest date for being enrolled.



compound III



compound IV



Structure of a complex between a pharmacological chaperone (compound IV) and the target enzyme: phenylalanine hydroxylase, from ChemBioChem, 2012, 13: 1266 – 1269