INPHINIT DOCTORAL CONTRACT

CALL FOR CANDIDATES *INCOMING*

Bioinformatics for accurate genetic diagnosis and personalized medicine

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IIS Aragón
Instituto de Investigación
Sanitaria Aragón

FELLOWSHIP PROGRAM
Doctorate INPhINIT Incoming

Pre-doctoral contract for early-stage researchers of any nationality to pursue PhD studies on life sciences in Health Research Institute

IIS Aragón (Zaragoza, Spain)

www.inphinitlacaixa.org

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 in order to develop accurate bioinformatics tools to assist medical doctors 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 accurate bioinformatics tools for genetic diagnosis**. A combined project including computational drug discovery work on selected diseases can be offered for students so inclined.

The successful candidate will get involved in:

1-developing & applying Bioinformatics tools (e.g. MD simulations) for the accurate interpretation of human genetic variations.

2-evaluating novel SNVs found in neonatal screening programs run in Spain and France.

3-interpreting the deleterious "variome" of a few well-selected genetic disorders.

4-(personal interest existing) improving new drugs discovered and developed in our group.

Full time contract: 3 years

6 February 2019
Deadline for submitting applications.

20 February 2019
Deadline for submitting language certificate.

23 April 2019
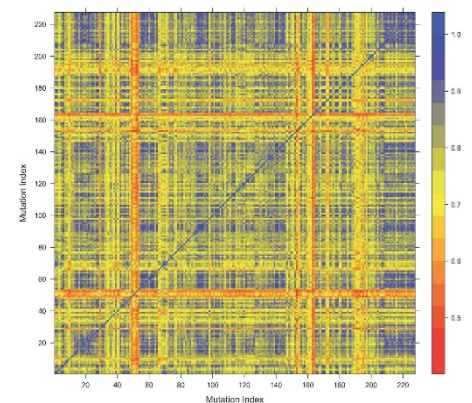Notification of the shortlist results.

28 and 29 May 2019
Face-to-face interviews in Barcelona.

4 June 2019
Publication of final list of selected candidates.

From 4 June 2019 to 5 July 2019
Matching research centre – fellow.

Similarity map of all possible SNV in the LR5 module of the LDL receptor obtained from Molecular Dynamics simulations, from Human Molecular Genetics, 2016, 25: 1233–1246