



INSTITUTE
FOR RESEARCH
IN BIOMEDICINE

OPEN POSITION AT IRB BARCELONA

Postdoctoral position in computational network/systems biology (ref. PD/14/01)

The Institute for Research in Biomedicine (IRB Barcelona) is an independent, non-profit research institution engaged in basic and applied biomedical science. It is located in the Barcelona Science Park (Parc Científic de Barcelona, PCB), a centre in which first-class public research converges with the private sector in a stimulating, vanguard scientific environment. IRB Barcelona was founded in October 2005 by the Government of Catalonia (Generalitat de Catalunya), the University of Barcelona (UB) and the Barcelona Science Park and is administrated through a private foundation. The institute currently has more than 430 members (scientific, technical and administrative staff), from across the world, who work across disciplines to advance research in the biomedical sciences.

We are seeking a postdoctoral researcher to conduct computational research on Alzheimer's disease (AD) in the frame of the ERC funded project SysPharmAD. The main objective of the project is the identification of novel biomarkers in AD, that correlate with clinical outcomes, to monitor the onset and progression of the pathology from very early stages, and to discover combinations of drug targets and chemical compounds able to modify the biology of the disease

DUTIES:

The successful candidate will be responsible for construction of the AD-associated network, which will be used as a framework for the integration and analyses RNA-seq and proteomics data collected in model animals. In addition, he/she will use these data to design a systems pharmacology approach, based on concerted multi-target perturbations, able to monitor and modify the biology of the disease and stop its progression.

CANDIDATE PROFILE:

- PhD degree or equivalent in bioinformatics or computational biology
- Experience in the analyses of RNA-seq and proteomics data
- Experience in computational network/systems biology models
- Excellent programming/scripting skills
- Positive organizational, problem solving and communication skills
- Fluent spoken and written English

WE OFFER:

- An initial two-year contract, renewable
- A competitive salary depending on the experience and qualifications of the applicant

For more information about the position, please contact Dr. Patrick Aloy (patrick.aloy@irbbarcelona.org)

HOW TO APPLY:

Please submit your application to irbjobs@irbbarcelona.org, indicating the offer reference PD/14/01 in the subject message and including a CV, a motivation letter and the names of two potential referees.