



INSTITUTE  
FOR RESEARCH  
IN BIOMEDICINE

## POSTDOCTORAL POSITION IN AMYLOID- $\beta$ AGGREGATION

Applications are invited for a postdoctoral position in the Design, Synthesis and Structure of Peptides and Proteins Group at the Institute for Research in Biomedicine (IRB). The successful candidate will work on the study of the amyloid  $\beta$ -protein, A $\beta$ , aggregation process associated to Alzheimer's disease.

The research we carry out focuses on the study of the structure and dynamics of all the species involved in the process of fibril formation [see Nature 436, 554 (2005); PNAS 106, 7828 (2009)]. Our work is now based on the understanding of the molecular events underlying A $\beta$  aggregation with an emphasis on A $\beta$  oligomer forms. To overcome the transient nature of A $\beta$  oligomers, we use hydrogen deuterium (H/D) exchange methodologies, cross-linking strategies, and small molecules capable of stabilizing them. Our aim is to fully understand A $\beta$  aggregation so that it can be applied to the development of treatments for Alzheimer's disease.

Candidates should be highly motivated, enthusiastic about science, with an ability to think creatively and work independently. Experience in amyloid research, biophysical methods (e.g., nuclear magnetic resonance and mass spectrometry), molecular biology, and/or biochemistry techniques will be positively evaluated.

To apply, please send a cover letter summarizing your past experience, research interests and career goals and CV including the names and contact information of 2-3 references via email to:

Prof. Ernest Giralt  
Dr. Natàlia Carulla  
amyloid.postdoc@gmail.com  
Websites: [www.irbbarcelona.org](http://www.irbbarcelona.org) and [www.icrea.cat](http://www.icrea.cat)