



Fundación Biofísica Bizkaia
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INSTITUTO BIOFISIKA – FUNDACIÓN BIOFÍSICA BIZKAIA

OFFER – Postdoctoral Position (Two years)

Publication date: November 7, 2019

The Instituto Biofisika - Fundación Biofísica Bizkaia (**IBF-FBB**) is an international research center of excellence with the main aim of promoting a multidisciplinary research program in the field of Biophysics and its application in the areas of Biotechnology and Health, the center is a joint effort of the University of the Basque Country (UPV/EHU) and the Spanish National Research Council (CSIC).

Description of the position offered

The position is available in the Structural Microbiology Laboratory led by Dr. David Albesa-Jové at the IBF-FBB (Bilbao, Spain). Our group was recently established and focuses on understanding the biological function of virulence factors and essential enzymes in human pathogenic bacteria. Please, see below for some recent publications. The laboratory is well equipped for all aspects of molecular biology, biochemistry, biophysics and crystallography. We also have regular access to synchrotron radiation at Diamond (UK) and ALBA (Spain) through BAG applications.

1. **Albesa-Jové*** D, et al.: Structural Snapshots of α -1,3-Galactosyltransferase with Native Substrates: Insight into the Catalytic Mechanism of Retaining Glycosyltransferases.
Angew Chemie Int Ed 2017, 56:14853–14857. *IF. 12.26* *corresponding author
2. Planamente S, Salih O, Manoli E, **Albesa-Jové D**, Freemont PS, Filloux A: TssA forms a gp6-like ring attached to the type VI secretion sheath.
EMBO J. 2016, 35:1613–1627. *IF. 11.23*
3. **Albesa-Jové D**, et al.: Structural basis for selective recognition of acyl chains by the membrane-associated acyltransferase PatA
Nature Communications. 2016, 7:10906. *IF. 11.89*
4. **Albesa-Jové D**, et al.: A native ternary complex in crystal reveals the catalytic mechanism of a retaining glycosyltransferase.
Angew Chem Int Ed Engl. 2015; 54(34): 9898-902. *IF. 12.26*
5. Giganti D, **Albesa-Jové D**, et al.: Secondary structure reshuffling modulates glycosyltransferase function at the membrane.
Nature Chemical Biology. 2015, 11(1): 16–18. *IF. 12.15*
6. Andrés A¹, **Albesa-Jové¹ D**, et al.: Structural basis of chitin oligosaccharide deacetylation.
Angew Chem Int Ed Engl. 2014, 53(27): 6882–6887. *IF. 12.26* ¹equal contribution

Education and Experience Required

We are seeking a highly motivated individual with a strong background in structural biology, including protein expression and purification, protein crystallization, and X-ray crystallography. Outstanding postdoctoral candidates will also have the necessary support to apply for the Ikerbasque Fellows 2020 call. These 5-year Fellowships are directed to promising young postdoctoral researchers (applicants must have their PhD completed between 2009 and 2017) and are intended to offer a track towards independent research



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as a group leader. Ikerbasque Fellows in their 5th year can be assessed for permanent group leader positions. More details about the previous 2019 Ikerbasque Fellows call can be found here:

http://www.ikerbasque.net/sites/default/files/files/Ikerbasque_RF_2019_Call_Specifications.pdf

Contact: Please submit your application for the postdoctoral position through the Centre's website (<http://biofisika.org/contact/>) indicating the following subject: **Job Application: 52Albesa**, and adding a cover letter, curriculum vitae, and contact information for three professional referees. Informal enquires can be directed to davidalbesa@gmail.com. Women are encouraged to apply.

Deadline: 4th of February, 2020 at 17:00 h CET or until position is filled.