



Fundación Biofísica Bizkaia
Biofisika Bizkaia Fundazioa

FUNDACIÓN BIOFÍSICA BIZKAIA / BIOFISIKA BIZKAIA FUNDAZIOA

OFFER – Graduate student position
Publication date: December 10, 2020

The Instituto Biofísica - Fundación Biofísica Bizkaia (IBF-FBB) is an international research centre of excellence aiming to promote a multidisciplinary research program in the field of Biophysics, and its application in the areas of Biotechnology and Health. The Centre 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 established in October 2019 and focuses on understanding the biological function of virulence factors and essential enzymes in human pathogenic bacteria. Please, see below for some recent publications. Initial contract will be for one year in a full-time bases with the possibility for a two-year extension depending on funding availability.

Top publications in the last five years

1. González-Magaña A, Sainz-Polo MA, Pretre G ... **Albesa-Jové D*** [9/9]: Structural insights into *Pseudomonas aeruginosa* Type six secretion system exported effector 8.
Journal of Structural Biology, 2020, 212:107651. [IF. 3.07 – Q1](#).
2. **Albesa-Jové*** D, Sain-Polo, MÁ, Marina A, Guerin ME*: 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 – Q1/D1](#).
3. **Albesa-Jové** D, Romero-García J, Sancho-Vaello E ... Guerin ME* [1/12]: Structural Snapshots and Loop Dynamics along the Catalytic Cycle of Glycosyltransferase GpgS.
Structure 2017, 25:1034–1044.e3. [IF. 4.58 – Q1](#).
4. 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 – Q1/D1](#).
5. **Albesa-Jové** D, Svetlíková Z, Tersa M ... Guerin ME* [1/14]: Structural basis for selective recognition of acyl chains by the membrane-associated acyltransferase PatA
Nature Communications, 2016, 7:10906. [IF. 11.89 – Q1/D1](#).
6. **Albesa-Jové** D, Mendoza F, Rodrigo-Unzueta A ... Guerin ME* [1/16]: 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 – Q1/D1](#).



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7. Cifuentes JO, Comino N, Madariaga-Marcos J, López-Fernández S, García-Alija M, Agirre J, **Albesa-Jové*** D, Guerin* ME: Structural Basis of Glycogen Biosynthesis Regulation in Bacteria.

Structure, 2016, 24:1613–1622. *IF. 4.58 – Q1*.

*corresponding author

Education and Experience Required

We seek a highly motivated individual with a **BSc degree in Biochemistry** obtained between 2019-2020, a publication record in structural biology, and a proficient English level.

Contact: Applicants are encouraged to send the next documentation through the Biofisika website contact page (<http://biofisika.org/contact/>), adding the following subject: [*Job Application: 76DAlbesa*]

1. Curriculum Vitae
2. Reference letters (if possible)

Deadline: December 21, 2020