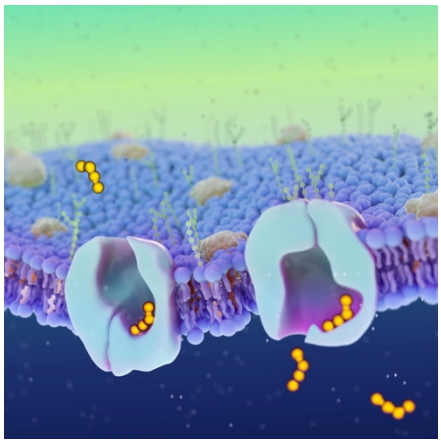
Instituto Biofisika Institutua

Fundación Biofísica Bizkaia
Biofisika Bizkaia Fundazioa

PhD position in Structural Biology of Membrane Transporters

We offer a fully funded 4-year predoctoral position (FPI associated to our granted project PID2023-146771NB-I00) in the Membrane Transport Mechanisms lab at Instituto Biofisika (IBF) (https://www.biofisika.org/en/research/membrane-transport-mechanisms) in the Bilbao area.

Our lab is looking for outstanding and highly motivated PhD students with a passion for research career in life sciences. The project aims to uncover the structural and functional determinants that govern solute transport via transmembrane protein transporters. By integrating cutting-edge electron cryo-microscopy (cryo-EM) with functional assays we seek to advance our understanding of solute homeostasis and the pathologies associated to transport dysfunction. Our lab offers extensive training in membrane protein biochemistry, biophysical characterization, and advanced structural biology techniques, including state-of-the-art electron cryo-microscopy (cryo-EM).



The recently established Basque Resource for Electron Microscopy (BREM) at IBF houses a Krios G4 (ThermoScientific) with a Gatan BioContinuum Imaging Filter and K3 direct electron detector for high resolution data collection, as well as comprehensive cryo-specimen preparation equipment. Furthermore, BREM will install a specimen optimization cryo-microscope at the IBF in 2025.

Candidates should hold a MSc in Biochemistry, Molecular Biology, Biotechnology, Chemistry, Physics, Biomedicine or related disciplines. Good written and oral communication in English is required.

Candidates are encouraged to send an application (igor.tascon@ehu.eus) including a CV, motivation letter and the name of two references.

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