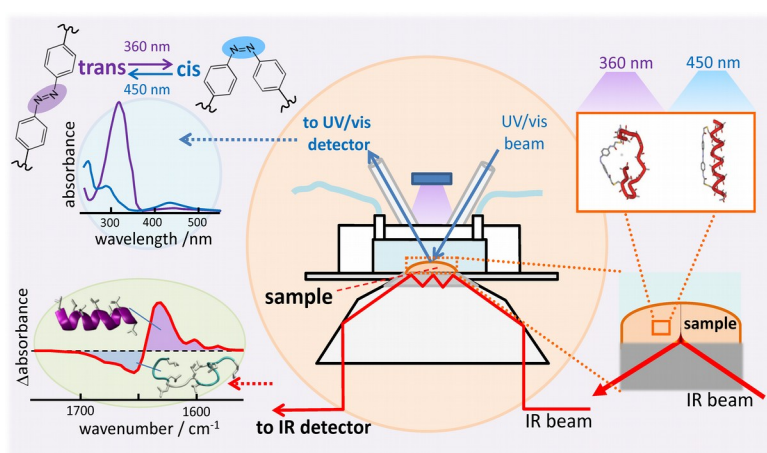
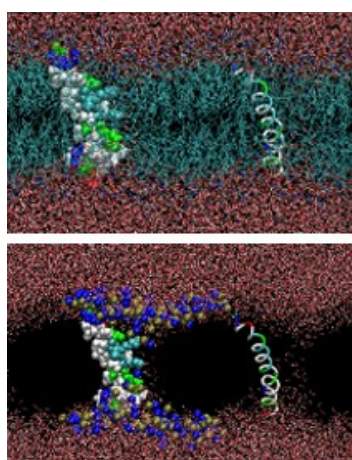


# Postdoctoral position

The **group of Biomembranes** from the **Institute for Molecular Science (ICMol)** at the **Universitat de València (Spain)** offers a **2 years postdoc** position linked to the project **Optical control of folding, membrane insertion and biological activity of photoswitchable hydrophobic peptides**, founded by the Spanish Ministry of Economy and Competitiveness. Excellent candidates willing to apply to competitive postdoctoral fellowships are welcome as well.

Our goal is to engineer and to model protein fragments whose folding, membrane localization and/or pore-forming biological activity can be controlled with light using photoswitchable molecules, with the final aim to understand these processes at the atomic level and to be able to manipulate them for practical applications.



## Applicant Eligibility

Candidates must hold a PhD in science by an internationally recognized university, received after the end of 2013.

## Applicant Profile

- Solid background in theoretical/computational biophysics.
- Experience in classical molecular dynamics simulations of biomolecules.
- Strong interest in linking simulations and experiments.

Experience in QM simulations, semi-empirical or *ab initio* calculation of vibrational spectra, good programming skills, and basic knowledge of experimental biophysical techniques is favored.

## What we offer

A two years PhD position. Economical retribution accordingly to the standards from the University of

Valencia. National health and unemployment insurance benefits included. International and domestic mobility will be supported.

## How to Apply

For applications and any inquires contact [victor.lorenz@uv.es](mailto:victor.lorenz@uv.es) (subject "OptoMembrane Postdoc") before the end of May, including:

- Personal data and CV specifying education, publication record, and any other relevant information.
- Cover letter, including motivation.
- Contact address of two established researchers willing to write a recommendation letter.

## Recent selected publications

- Lórenz-Fonfría et al. Proc Natl Acad Sci U S A. 2015; 112:E5796-804.
- Giménez et al Langmuir. 2015; 31:3146-58.
- Lórenz-Fonfría et al. J Am Chem Soc. 2015;137:1850-61.
- Esteban-Martín, et al. J Am Chem Soc. 2009; 131:15194-202.



National Programme for the Promotion of Talent and Employability (former F