

**OPEN POSITION
POSTDOCTORAL RESEARCHER
REF. FIMIM2533-SELENT**

THE INSTITUTE

The IMIM is the research institute of Hospital del Mar (BARCELONA) and part of the Barcelona Biomedical Research Park (PRBB). This is an exceptional environment in which to carry out translational research, with cutting-edge technological platforms available (cytometry, animal facility, microscopy, etc.) as well a close relationship with Hospital del Mar. Access to patients and samples makes it possible to directly apply the most relevant scientific advances.

POSITION

This position is part of the Research Programme for recruiting young jobseekers who wish to become involved in research and innovation initiatives, within the framework of the Recovery, Transformation and Resilience Plan, for the year 2022 (DOGC no. 8598-3 /2/2022).

OFFER

- **Postdoctoral position** in the GPCR Drug Discovery Lab, led by Dr. Jana Selent.
- **24 months** employment contract.
- Remuneration of **24,300€ gross salary per year**.
- **Flexibility measures**, contemplated in the IMIM Foundation labour regulation, will be assessed with the person in charge.

CANDIDATE REQUIREMENTS

- ✓ PhD in Bioinformatics or similar.
- ✓ Knowledge in GPCR structural biology, machine learning and data science
- ✓ Experience in simulation and visualization software (Pymol, VMD and GROMACS), data analysis, python programming and database development.
- ✓ Experience in web server languages or programs like HTML, JavaScript, CSS, Flask and Apache, etc.
- ✓ At the time of hiring, the candidate will have to prove that they are under 30 years of age.
- ✓ At the time of hiring, the candidate must be unemployed and will have to be registered as a job seeker in the Servei Català d'Ocupació de Catalunya (SOC).

THE PROJECT

The candidate will take part in the GPCRmd computing project [1] – a European computing project which is coordinated by the Selent lab. The goal is to unravel the dynamics of the entire GPCR proteome with the final aim to advance drug discovery efforts. For this, the candidate will apply a diverse set of computational methods: molecular modelling, molecular dynamics simulation, ligand binding sampling, etc. The candidate will also be involved in the development of novel visualization and analysis tools for GPCR molecular dynamics trajectories which will be implemented into the GPCRmd server (www.gpcrmd.org). Due to the international character of this project, the candidate will have the opportunity to closely interact and collaborate with experts throughout Europe.

Reference:

[1] Rodríguez-Espigares I, et al. GPCRmd uncovers the dynamics of the 3D-GPCRome. *Nat Methods*. 2020.

PRESENTATION OF CANDIDATES

Anyone interested in this offer must present a **cover letter** and **CV**, which should contain only information related to the candidate's academic, educational and employment data, as well as contact information and an email address.

You can submit your application at: <https://www.imim.es/ofertes/detall-oferta-temporals.html?id=2135>

For more information: jana.selent@upf.edu



Plan de
Recuperación,
Transformación
y Resiliencia



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de Catalunya