

Would you like to work on the generation of Smart Biotherapeutics?

The project and the team

At the ChemSynBio group, we use chemical and synthetic biology aiming to generate new biotherapeutics, especially to target brain tumors. Next generation biotherapeutics need to be even more selective and this can be achieved via **conditional activation**. Within this expanding field, we are developing reversible masking methods based on **chemogenetic** approaches. In order to enable biotherapeutics to reach their targets in sufficient amounts, we create and apply new systems to understand and **cross the blood-brain barrier (BBB)**. Our research is funded by the **European Research Council**.

We are seeking a researcher with a great **team spirit** and **passionate** about biomolecular engineering. The candidate should be eager to work on developing conditionally-active proteins and boosting their transport across the blood-brain barrier. The focus of the project will involve designing, cloning, producing and characterizing proteins, as well as testing their function and BBB transport capacity on cell models.

You'll be part of a young, dynamic, and international team at IQS Barcelona. We invite you to visit our website www.chemsynbio.iqs.edu. Working and feeling as a team is essential; after all, science is a way of living! We aim to contribute to pushing the boundaries of knowledge but our main goal is to grow and enjoy research together.

Your profile

- PhD degree with a background in chemistry, biotechnology, pharmacy or related.
- Experience required: molecular biology and some knowledge of chemistry. Bonus experience: antibody/protein engineering, organic/peptide/bioorthogonal chemistry, computational skills, cellular assays.
- Strong interest in playing around with proteins and peptides, with an ultimate therapeutic goal.
- Self motivation, proactivity, and creativity.
- Team spirit and good social skills.
- Excellent communication skills and fluency in English.

Contract details

- Two years of guaranteed funding.
- Support to apply for additional funding (e.g. MSCA) with experience as fellow, host, and evaluator.
- Training opportunities on scientific and horizontal skills. Attendance to international conferences.
- Space for creativity, with mentorship and team support. Possibility to supervise students.
- Proposed starting date: early 2024

Applications are welcome until the candidate is selected

Applications should be addressed to Dr. Benjamí Oller-Salvia at benjami.oller@iqs.url.edu

Please include "Postdoc Smart Biotherapeutics – Your Name" in the subject of your email

The following documents should be combined as a single pdf with your name:

- Motivation letter explaining why you would be a good fit for this position and our team.
- Two reference letters and contact details of the referees who wrote them.
- *Curriculum Vitae* including an explanation of your contribution to your main publications.