

Would you like to harness synthetic biology to study brain transport and create new systems for brain delivery?

The project and the team

Current treatments against brain diseases have very low efficacy due to the incapacity of most drugs to cross the blood-brain barrier (BBB) and target particular cell populations. In our group we are developing targeted delivery systems that transport bio- and nano-therapeutics across the BBB.

We have recently been awarded a highly prestigious grant by the European Research Council to develop new strategies to deliver large therapeutics into the brain with unprecedented efficiency and selectivity. In your project you will be applying cellular and synthetic biology, as well as protein engineering, to study transcytosis at the BBB and create a paradigm-shifting system for brain delivery.

You'll be part of a young, dynamic, and international team at IQS Barcelona. We invite you to visit our website www.pptn.iqs.edu

We aim to contribute to pushing the boundaries of knowledge but our main goal is to grow and enjoy science together!



Your profile

- PhD degree with a background in molecular and cellular biology
- Experience in the following fields is not essential but will be valued: synthetic biology, intracellular trafficking, protein engineering, membrane proteins, advanced microscopy, blood-brain barrier models
- Strong motivation, proactivity and creativity
- Good social skills to work in a team
- Excellent communication skills and fluency in English

Fellowship details

- Two years of funding with a competitive salary and with the potential of an extension to a third year
- Space for creativity, training opportunities, and career support
- Expected starting date: preferably May 2023, September 2023 the latest

Applications are welcome until February 28th or until the candidate is found

You may send your application to Dr. Benjamí Oller Salvia at benjami.oller@iqs.url.edu. Please include the following documents in a single pdf with your name:

- A motivation letter explaining your main interests, your research experience, and why you think you would be a good fit for this position
- Two reference letters and contact details of the referees who wrote them
- CV

Please include "Postdoc SynBioBrain" in the subject line of your email. Early applications are encouraged.