



Date of publication of the job offer: 07/05/2024

Job title: Immune cell engineering scientist

Job description

The vast expansion of gene editing technologies and therapeutic enzymes holds substantial promise in disease treatment via a new class of genetic drugs. However, the challenge of how to efficiently deliver those tools to specific cell types and tissues remains to be solved. In our group, we have developed a synthetic evolution platform that uses molecular biology and machine learning frameworks to drive evolution of delivery vehicles with the potential to target any desired cell type with unprecedented precision. We are working in extensive engineering of our VLP based delivery vehicles and their implementation for in-vivo gene delivery.

We are seeking a passionate, impact-motivated scientist and problem solver who wishes to participate in a fast-paced, dynamic research environment. The developed work will involve developing and testing new methods for genomic modification of cells in-vivo. Methods for the efficient delivery in T-cells, and other immune cell types, will be the primary focus.

The project will involve Interactions with industry and Key opinion leaders in the field, in a vibrant ecosystem of translation projects and spin-off companies in the Translational Synthetic Biology Lab at the MELIS department.

The mission of the Translational Synthetic Biology lab is to develop transformative technologies for human health. The Translational Synthetic Biology lab is part of the Medical and Life Sciences (MELIS) department at Pompeu Fabra University (Barcelona). Our lab is located at the [PRBB](#) in Barcelona one of the largest hubs of biomedical research of southern Europe.

Expected starting date: July of 2024.

Project and Institution that finance the contract

This contract will be funded by UPF

Official number reference:

Information on the requirements

- MSc or PhD in biology, biotechnology, genetics, experimental or health sciences; or equivalent relevant experience.
- Prior experience in in-vivo mice experiments will be valued.
- Confidence in primary cell culture and measurement of cellular behaviors.
- Curiosity and motivation to applied novel biotechnological solutions.
- Excellent team player who enjoys working in a fast-evolving research environment.

- *Previous experience in lentiviral vectors will be highly valued.*
- *Previous experience with primary immune cell manipulation or HSCs derived cell types will be highly valued.*
- *Previous experience in CRISPR or other pooled screens will be valued.*
- *Previous experience in next generation sequencing and single cell technologies be valued.*
- *Interest in applied genetic engineering and synthetic biology.*

Benefits of the opening:

The candidate will receive a full-time contract and an annual salary according to the UPF salary guidelines. She/he will be able to receive training in complementary through courses of Pompeu Fabra University and the PRBB Intervals Program. The candidate will participate in a highly translational project with Interactions with industry and spin-off environment.

Information on the application process

Please send the following documents:

- CV
- Cover letter

To the email address dimitrie.ivancic@upf.edu with "Immune cell engineering scientist" and your name in the email title.

Confidentiality in document handling and equality of opportunities policy are guaranteed by Pompeu Fabra University.

Deadline to submit applications

31 of May 2024

Contact

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