

Position Offered: POSTDOCTORAL RESEARCHER

Project: *Myeloid cells as a therapeutic target in arteriosclerosis and stroke*

Technological and scientific fields: Biomedicine

Location: Barcelona, Catalonia, Instituto de Investigaciones Biomédicas de Barcelona, <https://www.iibb.csic.es/en>

Research Group/PI: Cerebrovascular research group, Anna M. Planas

PROJECT SUMMARY

We are seeking a highly motivated post-doctoral researcher to join our project focused on understanding the phenotypic and spatial diversity of myeloid cells and their interaction with vasculature in ischemic stroke models, with or without atherosclerosis. The study involves advanced transcriptomic analysis at the single-cell level, requiring strong computational skills to handle and interpret complex data. Key objectives include discovering new immune mechanisms mediated by macrophages and microglia, and training the researcher in transcriptomic data analysis within biomedical research. The role will involve both scientific and technological goals, such as elucidating the phenotypic diversity of myeloid cells, understanding the impact of atherosclerosis, and implementing digital technologies for data analysis.

PROFESSIONAL PROFILE

Minimum requirements:

- PhD in Biomedicine
- Bachelor's degree in Biochemistry, Biotechnology, Biology, or Pharmacy
- Master's degree in Biomedicine, Pharmacology, or a related field
- Certification in animal experimentation that is recognized in Spain
- Research experience in neuroscience and participation in scientific publications
- English (minimum B2 level)

Merits to be considered:

- Experience in RNA data analysis
- Experience in confocal microscopy
- Experience in Image J

WHAT IS OFFERED

We offer a 4-year post-doctoral contract that includes participation in the scientific project and comprehensive training in biomedicine and data science. The project provides opportunities to merge biomedical research with data science, acquiring skills in using cutting-edge technologies, including single-cell technology and spatial transcriptomics, advanced transcriptomic data analysis, and data representation. The candidate will collaborate with other teams and benefit from a six-month stay at CNAG (Dr. Anna Pascual, co-PI of this project), with additional stays, at ICFO and abroad. Training in digital competencies will be provided, including a Master's degree in Bioinformatics and Biostatistics, as well as courses in RNA analysis and its functional interpretation, among others. Overall, the training will encompass a total of 140 ECTS.

Contract conditions:

Indefinite contract for a Postdoctoral Researcher associated to the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (41.000 € - 52.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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