



The Fundació Bosch i Gimpera was created in 1983 as a knowledge, technology and innovation transfer center of the University of Barcelona (UB). As its own means, it is in charge of innovation, promotion, valorization, transfer of results and management of contracts, agreements and projects of the UB and needs to incorporate:

## **Posdoctoral position**

### **Functions:**

The Molecular Oncology and Embryology Lab is offering a postdoctoral position at the Faculty of Medicine and Health Sciences of University of Barcelona to work on the identification of extracellular vesicles-based biomarkers in non-small cell lung cancer.

### **Profile:**

#### Requirements:

- PhD in Biology, Biochemistry, Biotechnology or a related discipline.
- Solid understanding of extracellular vesicle biology and proven hands-on experience with conventional extracellular vesicle characterization techniques

#### Preferred Qualifications:

Candidates with the following qualifications will have an advantage:

- Experience using NTA equipment's (ZetaView or Nanosight).
- Demonstrable experience in developing novel bioassays.
- Good understanding of cancer biology.
- Hands-on experience with analytical techniques such as qPCR, ddPCR, immunostaining, ELISA, WB, and microscopy techniques.
- Practical experience with molecular processes, including DNA/RNA extraction, PCR, and NGS sequencing.
- Comprehensive practical experience and knowledge of cellular assays and cell phenotyping (FACS, IHC, clonogenic, cytotoxicity, and viability).
- Practical experience or demonstrable understanding of bioinformatics and programming skills in R or Python.
- Work disseminated in the form of peer-reviewed manuscripts.

#### Required Languages:

- High level of English.
- Good level of Spanish

### **Competencies:**

#### The research projects:

You will join our team to work on the project Identification of exosomal proteins as prognostic and therapeutic markers in non-small cell lung cancer, funded by Dimosi Lifescience & Medical Co (Contract with Fundació Bosch Gimpera). The project aims to identify new exosomal biomarkers that can be used for diagnosis and prognosis of non-small cell lung cancer and that could derive in a commercialized product. Hence, we are investigating a wide range of approaches including protein surfactome profiling; cargo analysis of the EVs; monitoring of EVs with different biomarkers using fluorescent nanoparticle tracking analysis; in vitro studies with neutralizing antibodies; etc. We have an excellent collaboration with thoracic surgeons of Hospital Clínic of Barcelona, which provides us with blood from the tumor-draining vein obtained during the surgical process, which we consider a blood enriched in tumor secreted products.

**We offer:**

- Permanent contract
- Weekly schedule: 37.5
- Gross monthly salary: 2666.66 Euros

**Reserve:**

Reserved for personnel with disabilities, in accordance with the provisions of Article 59 of the Legislative RD 5/2015, of October 30, passing the revised text of the Law of the Basic Statute of Public Employee.

**Equality of opportunities:**

In accordance with the measures set forth in the Fundació Bosch i Gimpera Equality Plan, we incorporate the gender perspective in the selection process to guarantee equal opportunities, neutrality, transparency and avoid prejudice and discrimination based on gender.

**Additional information:**

- Project Director: Navarro Ponz, Alfons
- Project Number: 312231

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