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Job Offer: **Predoctoral Research Contract**

Principal Investigator & Laboratory: **Verónica Torrano Moya; Cancer Transcription and Cell Communication Laboratory. www.vtorranolab.com**

Location: **Biochemistry and Molecular Biology Department. University of the Basque Country. Bizkaia Campus. Leioa.**

Job Description:

What do we offer?

- ✓ **An initial one-year predoctoral contract with the possibility to apply for additional 4 years under a FPI contract (PID2021-123372OB-I00).**
- ✓ **A healthy, motivating and academic working atmosphere in which you will have the opportunity to grow as a scientist and develop technical and soft skills.**
- ✓ **Assistance and active participation in national and international scientific conferences as well as lay dissemination activities.**
- ✓ **A minimum of one stage abroad to allow you to get the International PhD.**
- ✓ **By becoming a UPV/EHU member, you will have access to full-equipped sports facilities at our campus, as well as discounts in cultural events and optics.**

What do we need from you?

- ✓ **Be motivated by learning and working as a team. This is our gold standard.**
- ✓ **Hold a Master Degree in Biomedicine, Biochemistry, Molecular & Cellular Biology or related disciplines.**
- ✓ **Have the ability to communicate effectively in English.**
- ✓ **Experience in cell culture and molecular biology techniques.**
- ✓ **Expertise in analysis of OMICs data and computational biology will be desirable and positively evaluated.**

What project would you work on?

Title: MatrixPro: Deciphering the impact of extracellular matrix deregulation in prostate cancer aggressiveness.

Overall project description:

During tumorigenesis, cancer cells overcome biological challenges such as moving across the tissue of origin, escaping from the primary tumor, acquiring therapy-resistance and colonizing distal organs. The success of the tumor evolution process rely on the ability of cancer cells to face and adapt to all these biological scenarios by perturbing a myriad of cellular and molecular programs, some of them still unknown. We have previously demonstrated that the transcriptome analysis of publicly available cancer databases is a valid approach for the identification of relevant genes for the progression and adaptation of prostate cancer (PCa) cells (Torrano et al. Nature Cell Biology 2016; Valcarcel et al. Cell Death & Disease 2018; Cortazar et al. Cancer Research 2018; Valcarcel et al. Cancer Research 2019).
However, the adaptation skills that cancer cells acquired during transformation is nourished not only by the deregulation of cell-intrinsic mechanism but also by a perturbed bi-directional communication with other cells as well as with the extracellular matrix through secreted factors. Aligning these ideas, in our laboratory we are working on the transcriptional deregulation of secreted factors as a driver for aggressiveness and its functional impact on the biology and progression of PCa. Based on a multidisciplinary approach we have built solid hypothesis-driven approaches to identify genes functionally involved in PCa cancer biology, specifically those related to cell-cell and cell-matrix communication.

If you have more questions related to the job offer and are interested in applying, contact us before the 10th of October: e-mail to veronica.torrano@ehu.eus together with a motivation letter and the name and contact of two references.

Thanks in advance for your interest.

Signature:

Verónica Torrano Moya, PhD