



Pre- and Postdoctoral opportunities in Martínez-Morales lab (CABD, Seville).

We are looking for bioinformaticians to join our project “Mechanical regulation of chromatin and transcription during tissue morphogenesis” (REF: PID2023-152286NB)

We are seeking talented and motivated researchers, **both at graduate and postdoctoral level**, with a background in Bioinformatics who are interested in joining our laboratory to support the project “**Mechanical regulation of chromatin and transcription during tissue morphogenesis**”. This interdisciplinary proposal tackles a basic question at the interface between cell and developmental biology: as to how mechanical information is interpreted in the context of developmental programs in the embryo. We are using gastrulating teleost embryos as experimental paradigm to characterize how chromatin respond to mechanical stimulation *in vivo*. We are confident that our approach will generate relevant reference datasets providing a novel framework for understanding how mechano-transduction and epigenetics intersect in living tissues

We offer a two-year contract for candidates with an outstanding academic record. Previous experience in the analysis of single-cell datasets is not mandatory although will be positively considered. The successful candidate it is expected to contribute to the analysis of datasets generated using functional genomics approaches (ATACseq, RNAseq and multiome single-cell profiling) on fish embryos. We aim to identify cell-specific cis-regulatory modules responding to mechanical tension.

The CABD (www.cabd.es) is a vibrant and outstanding research institute devoted to the study of Developmental Biology and awarded with the Maria de Maeztu distinction as an excellence center. Located in the beautiful and sunny city of Seville (Spain), the CABD is equipped with state-of-the-art facilities and hosts groups working on a variety of model organisms, providing a stimulating and international scientific environment.

Applicants should submit their motivation letter, full CV and academic record, including grades, to Juan Ramón Martínez-Morales (irmarmor@upo.es).

Selected relevant publications by the group: *Genome Biol*/2024 (PMID 38760655); *Nat Comm*/2023 (PMID 37193708); *Elife*/2023 (PMID 37227126); *Nat Comm*/2021 (PMID 34162866); *Development*/2019 (PMID 31142542); *Nature Genetics*/2018 (PMID 29556077);

