

Three Postdoctoral positions are available in the lab of Prof. M. Angela Nieto, “Cell movements in development and disease” at the Neuroscience Institute in Alicante, Spain (www.ina.umh.es).

We are seeking highly motivated candidates to join us on a wide project within the frame of a European Research Council (ERC) Advanced Grant and an Excellence Program Grant from the Government.

We aim at characterizing cell movements in embryos and finding the commonalities between the epithelial to mesenchymal transitions (EMT) and the execution of the organ positioning in vertebrates. The EMT is crucial for the formation of multiple tissues and organs during embryonic development and it is reactivated in the adult during wound healing, tumor progression and organ degeneration. In the lab we use zebrafish, mouse and chick embryos as model systems together with a high interest in Cell Biology, Evo-Devo, cancer research and gene regulatory networks. We expect that the results of this work will have a big impact in a variety of human pathologies including congenital malformations and cancer.

Selected recent references:

- Acloque et al. (2011). Reciprocal repression between Sox3 and Snail transcription factors defines embryonic territories at gastrulation. *Dev. Cell.* 21, 546-558.
- Ocaña et al. (2012). Metastatic colonization requires the repression of the epithelial-mesenchymal transition inducer Prrx1. *Cancer Cell* 22, 709-724.
- Nieto, MA (2013) Epithelial plasticity: a common theme in embryonic and cancer cells. *Science* In press.

Positions are open from 2 to 4 years and starting date and salaries are negotiable

Qualifications required

Applicants should hold a strong background in one or several of the following

- Zebrafish or mouse embryology
- Cell and Molecular Biology and Genetics
- Bioinformatics, gene regulatory networks, modeling of biological processes
- State of the art transgenic technologies

Interested candidates please send a letter of motivation describing the interest in our project together with your previous research experience, a full CV and two reference letters.

Contact by e-mail before December 13th, 2013

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