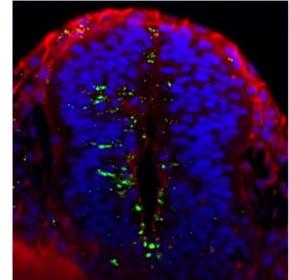


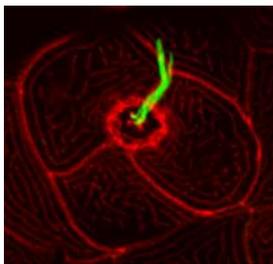


PhD and POSTDOC POSITIONS in NICE, FRANCE: Endocytic trafficking in Zebrafish development

A PhD and a postdoc position are available in the lab of Maximilian Fürthauer at the Valrose Institute for Biology in Nice/France. Our work at the interface between cellular and developmental biology uses Zebrafish and *Drosophila* to understand how membrane trafficking contributes to the regulation of cell signalling in animal development (<http://ibv.unice.fr/EN/equipe/furthauer.php>). We have previously developed novel live imaging assays to visualize *in vivo* the intracellular transport of endogenous Delta ligand and Notch receptor molecules in asymmetrically dividing sensory organ precursor cells, enabling us to show that the directional endosome movement is important for developmental cell fate decisions (*Nature* 458, p.1051-55).



Endocytic trafficking and Zebrafish ciliogenesis



In the context of our work in the developing Zebrafish embryo, we have recently uncovered novel unexpected contributions of endosomal proteins to the formation and function of ciliated organs. Cilia are highly specialized membrane domains that protrude into the extracellular space and play a major role in intercellular communication. After being long time neglected, it has recently emerged that cilia are essential for both embryonic development and adult homeostasis by allowing cells to communicate with their environment by chemosensation, mechanosensation and the creation of fluid flows. The lab is currently using a combination of cell biological, genetic and live imaging approaches to characterize novel cellular aspects of ciliogenesis in an intact living embryo.

Qualification & Experience

Candidates should be highly motivated to use Zebrafish as a model system to study the contribution of membrane trafficking in the context of embryonic development. Experience with Zebrafish is advantageous but not required. Expertise in cell biology will be considered highly beneficial. The PhD position is funded for a duration of three years. For the postdoc position financial support will be provided for an initial one year period beyond which the candidate will be assisted in applying to competitive funding sources. The Valrose Institute of Biology is located in the heart of Nice and provides a dynamic research environment with an internationally recognized expertise in the cellular analysis of developmental processes.

Contact information

Candidates should send their CV, a description of their scientific achievements and the contacts of two referees to:

Maximilian FÜRTHAUER
furthauer@unice.fr

