







UMR7277

Postdoctoral position in Cell and Developmental Biology

Institute of Biology Valrose (iBV), Nice, France

Position available (starting oct./dec. 2015.) in Pascal Thérond laboratory to functionally characterize Hedgehog secretion and spreading in Drosophila.

Hedgehog proteins are key signaling mediators that govern a wide range of processes during embryonic development and adult tissue homeostasis from Drosophila to human. Hedgehogs are the only metazoan proteins known to possess a covalently-linked cholesterol moiety. Our laboratory is interested in how Hedgehog proteins traffic in the producing tissue (for more information see Ayers et al., Dev Cell., 2010. and D'Angelo et al., Dev Cell., 2015.) and exert their function in the receiving tissue (Ranieri et al, Nat Commun., 2014.).

We showed recently that the Endosomal Sorting Complex Required for Transport (ESCRT) promotes Hedgehog proteins loading on exo-vesicles to exert their effect at long distances (Matusek et al., Nature, 2015). The postdoctoral project aims to gain further insight into the trafficking, vesicular secretion and the extracellular spread of Hedgehog proteins through tissues using cell biology and genetic technics. Moreover, in vivo imaging and single molecule tracking (in collaboration with computational science lab) will be developed to investigate the dynamics of Hedgehog release and spreading.

Selected references

Ayers et al., Dev. Cell 2010 vol18, 605–620
Briscoe and Thérond, Nat Rev Mol Cell Biol. 2013, Vol. 14(7), 416-29
Matusek et al., Nature 2014 Dec 4;516(7529), 99-103
D'Angelo et al., Dev. Cell 2015 Feb. 9; 32, 290-303

Location

The group is located at the Valrose Campus in the heart of Nice and is part of the iBV, an international research center that brings together high-profile teams with complementary areas of expertise and access to state of the art facilities including imaging/microscopy and cytometry platforms, L2 and L3 laboratories, and histology and biochemistry facilities.

For more information, visit http://ibv.unice.fr

Qualification and experience

Interested candidates should have strong knowledge of, and experience in fly genetics, cell biology and optic microscopy (confocal/spinning disc).

The position is funded for 2-3 years in duration. Candidates must have a Ph.D. degree, and can be nationals of any country.

Applications

Candidates should send a Curriculum Vitae and a list of three referees to:

Dr. Pascal Thérond, iBV, Parc Valrose, Université Nice Sophia Antipolis, 06108 Nice Cedex 2, France

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