



**POST-DOC POSITION IN CELL AND DEVELOPMENTAL BIOLOGY.  
INSTITUTE OF BIOLOGY-VALROSE, NICE, FRANCE**

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Position available immediately in Pascal Théron 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. The Hedgehog proteins are the only metazoan proteins known to possess a covalently-linked cholesterol moiety. Hedgehog proteins can exert its effect at long distances, up to 300 micrometers in vertebrates. The project aims to gain insight into the secretion and the spread through tissue of the Hedgehog protein family using cell biology and genetic technics. Combination of genome-wide RNAi screen and in vivo imaging and tracking will be developed to investigate Hedgehog mode of release and spreading. Knowledge of and experience in fly genetics, cell biology and optic microscopy are necessary (confocal/spinning disc). The position is funded for 2-3 years in duration. The candidates must have a Ph.D. degree, and can be nationals of any country.

Selected references: Gallet, et al., (2008), *Dev. Cell* 14, 1-14. Ayers et al., (2010) *Dev. Cell* 18, 605–620. Ranieri et al., (2012) *Dev Cell* 22, 279-294. Théron (2012) *Current Opinion in Cell Biology*. 24 (2):173-180.

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

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