

ERC funded postdoc position in the Institut Pasteur, Paris

An ERC funded postdoc position is available in the research group “**Cell death and epithelial homeostasis**” in the department of Developmental and Stem Cell biology of the Institut Pasteur in Paris (France). We are generally interested by the regulation of cell death in epithelial context and its contribution to tissue plasticity. We are currently working on two main aspects: the role of mechanical forces in apoptosis induction and its contribution to morphogenesis and competition between cells, and the orchestration of epithelial cell death by effector caspases. For this, we use the fruitfly *Drosophila Melanogaster* as a model system, and combine various cutting edge approaches from live imaging, image analysis, laser perturbations, optogenetic, genetics and simulations.

The position will be funded through an ERC Starting Grant and can be extended up to 4 years. Ideal starting date would be between January and March 2018. The objective is to characterise the pathway(s) responsible for death induction upon cell compaction and their contribution to competitive interactions between cells, as well as their contributions to normal development and morphogenesis. More information can be found on the lab webpage (<https://research.pasteur.fr/en/team/cell-death-and-epithelial-homeostasis/>).

We seek a highly motivated candidate with interests in cell and developmental biology and a good working knowledge in live imaging and image analysis. Previous experience with *Drosophila* is highly recommended for this position but not mandatory. Ideally, the candidate should also be comfortable with quantitative approaches and basic knowledge in programming is a plus. The project is open to discussion as long as it is connected to the current topics of the laboratory.

The Pasteur institute, located in the center of Paris, has a long standing history of excellence in Cell and Developmental biology and offers access to cutting edge technologies through various platforms. The lab is fully equipped with two live imaging set up fully dedicated to the group.

If you are interested, please contact Romain Levayer (romain.levayer@pasteur.fr) with a brief statement of your research interests, your CV and up to 3 recommendation contacts.

