Postdoctoral positions
Simonelig lab
mRNA Regulation and Development, IGH, Montpellier

Two postdoctoral positions funded by ANR and FRM are available in the group mRNA Regulation and Development at the Institute of Human Genetics in Montpellier. Our lab works on gene regulation at the mRNA level during development and diseases, in the Drosophila model. We have described the role of Piwi-interacting RNAs (piRNAs), a specific class of small non-coding RNAs, in gene regulation for several developmental processes. This function was unexpected because piRNAs were thought to be specific to the regulation of transposable elements. piRNAs and PIWI proteins are highly expressed in germ cells and stem cell lineages. The postdoctoral projects concern:
1) The relationships between the piRNA pathway and epitranscriptomics in mRNA regulation.
2) The functions of the piRNA pathway in germline stem cells.

The Institute of Human Genetics provides a very stimulating and international research environment; it is fully endowed with state-of-the-art scientific equipment. The Institute is located in Montpellier, an international city in the South of France. https://www.igh.cnrs.fr/en/

We are looking for very motivated candidates with strong expertise in Drosophila genetics, RNA biology, imaging or metabolism. Candidates should apply by sending a CV, a short outline of current projects, and contact information of two to three references to Martine Simonelig.

Expected starting date of the contracts: Fall 2020.

Selected publications of the lab, related to the projects:
- Dufourt, Bontonou, Chartier, Jahan, Meunier, Pierson, Harrison, Papin, Beilharz, Simonelig. piRNAs and Aubergine cooperate with Wispy poly(A) polymerase to stabilize mRNAs in the germ plasm (2017) Nature Communications, 8, 1305
- Rojas-Rios, Chartier, Pierson, Simonelig. Aubergine and piRNAs promote germ line stem cell self-renewal by repressing the proto-oncogene Cbl (2017) EMBO Journal, 36, 3194-3211

Contact: Martine Simonelig
mRNA Regulation and Development
Department Genetics and Development
Institute of Human Genetics, Montpellier, France
Martine.Simonelig@igh.cnrs.fr