POSTDOCTORAL FELLOW RECRUITMENT

Laboratory of mammalian developmental genetics
Director: Pr Lucie Jeannotte
Centre de recherche sur le cancer de l'Université Laval
CRCHU de Québec-Université Laval - Axe Oncologie - Site L'Hôtel-Dieu de Québec

Research project:
Characterization of the mechanisms of action of HOXA5 to define its functions in cell fate

The Jeannotte laboratory focuses on understanding the role of master regulatory transcription factors, such as HOXA5, since their integrity is essential for the precise control of gene expression and embryo development and survival. Any modifications of these factors may impair embryo formation and cause complex diseases, like cancer. We have shown that the loss of Hoxa5 function in mice recapitulates morphological phenotypes of several human pathologies, many affecting the respiratory system. To understand the etiology and pathogenesis of these diseases, we are aiming to elucidate how HOXA5 governs cell fate. The research project will define and compare gene networks regulated by HOXA5 in various structures from the respiratory system using mouse models designed and generated in the laboratory, and genome-wide approaches. In addition to identify gene networks controlled by HOXA5 in specific respiratory tissues, this project will determine the molecular mechanisms used by HOXA5 to regulate cell fate and will pinpoint to potential targets for innovative therapies of the associated respiratory diseases.

For more information, please visit the site: https://www.crc.ulaval.ca/la-recherche/chercheurs-reguliers/fiche/show/jeannotte-lucie/

Training and qualifications:
We are recruiting candidates highly dynamic, motivated and dedicated to research, with a solid background in mouse genetics/development, regulation of gene expression (ChIP-seq and RNA-seq) and related techniques in cell and molecular biology. The ability to work both independently or in a team setting is essential.

The position is available for a period of two years, with the possibility of extension, at a salary that follows University regulations.

To apply: Interested candidates are asked to forward their complete CV and contact information of three references to: lucie.jeannotte@crchudequebec.ulaval.ca

We are grateful to all candidates for their interest. However, only selected candidates for an interview will be contacted.