Université de Sherbrooke

Position: Postdoctoral researcher position in functional transcriptomics

Project Title: Cancer RNomics and noncoding RNA

Description: The successful applicant will join the groups of **Michelle Scott** and **Sherif Abou Elela** at the Université de Sherbrooke in characterizing the regulatory network and function of small nucleolar RNAs (snoRNAs). SnoRNAs are best known for their role in ribosomal RNA (rRNA) modification and ribosome biogenesis but the majority of snoRNAs have no known function or are implicated in rRNA modification independent regulatory roles. Our groups are pioneering a new multidisciplinary approach to uncover the function of snoRNAs through integrative transcriptomics approaches and knockdown followed by functional and phenotypic characterization of snoRNAs of interest. The successful applicant will study snoRNA-protein and snoRNA-RNA interactions and their contribution to cancer biology.

Work Environment: The Scott and Abou Elela groups are part of the Cancer Research Institute of the Université de Sherbrooke. The Scott group uses computational approaches to detect, characterize and understand the function the human snoRNome. The Abou Elela group uses multiple molecular biology, cell biology and transcriptomic approaches to understand snoRNA function in ribosome and cancer biology. The collaboration between the Scott and Abou Elela groups offers a rich collaborative environment between experimental and computational biologists allowing seamless integration of gene specific and systemwide analyses. The groups founded and currently operate the U de Sherbrooke RNomics, protein synthesis and bioinformatics facilities providing the applicant with privileged access to state-of-the-art equipment and a large knowledge base.

Sherbrooke is a friendly, dynamic, and bilingual university city, nestled in the beautiful Eastern Townships of the Province of Quebec, close to the US border and just a short drive away from Montreal and Quebec City. The University of Sherbrooke provides an exceptional quality of work and life environment: cost of living is low, with excellent access to outdoor activities.

Experience Required: Applicants should have a recent (<3 years) Ph.D. in biochemistry, molecular biology, or related discipline. Candidates with a background in transcriptomics, RNA-protein interaction, CRISPR library, Cross-linking immunoprecipitation (CLIP), mammalian cell culture, cancer RNomics will be preferentially considered. A good ability to use written and spoken English is required, French is optional. Only candidates with relevant publication record will be considered.

Salary and Work Conditions: We offer a renewable 2-year contract as well as support to raise competitive funds through fellowships and extensive. Salaries will be according to the Canadian Institute of Health Research guidelines.

How to Apply: Please send a cover letter with past research accomplishments and future research interests, a CV with a publication list, and the contact information of three references to: michelle.scott@usherbrooke.ca and sherif.abou.elela@usherbrooke.ca.

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