

## **Job Opportunity for a Molecular Biologist in Vision Science / Cell Biology**

The laboratory of Dr. Sylvain Chemtob studies the mechanisms of prematurity and its consequences on the fetus and / or the newborn, especially in vision. Our studies have also expanded on new avenues for aging, including age-related macular degeneration. The laboratory pursues 4 main orientations:

- 1) *Retinopathies and age-related macular degeneration*: Mechanisms in the pathogenesis of ischemic retinopathies, including angiogenesis and vasoobliteration, and in lipid disorders responsible for age-related macular degeneration.
- 2) *Prematurity*: maternal inflammation, prematurity and fetal development.
- 3) *Nuclear receptors*: Role of G protein-coupled receptors at the nuclear membrane level in genomic regulation, the mechanisms involved in their translocation as well as the specific signaling for their location.
- 4) *Discovery of drugs*: We have developed allosteric modulators of inflammatory receptors. This initiative led to the discovery of a compound currently under-licensed to a European biotech and in the clinical phase of investigation. Our molecules were among the 10 discoveries of 2015 (Québec Science).

### **Position Description**

Dr. Sylvain Chemtob's laboratory is looking for a research associate who has expertise in molecular biology. More specifically, the candidate will be responsible for:

- Conduct and carry out several projects in progress in the laboratory;
- Participate actively in the activities of the lab meeting where he/she must present the research results and interact with other members of the team regarding the expected results and recommend preferred orientations;
- Participate in writing articles with members of the research team as first author or co-author;
- Supervision of students and / or trainees.

### **Requirements and skills:**

- Hold a PhD in molecular biology or cell biology or biochemistry;
- Have a thorough knowledge of basic molecular biology techniques (viral vectors, cloning, PCR (RT and quantitative PCR), CRISPR, Fret / Bret, ChIP and RNA sequencing, troubleshooting, immunofluorescence, immunohistochemistry, Western blots);
- Have a thorough knowledge in the following areas: inflammation, inflammation-related cell signaling, receptor pharmacology. Knowledge of desirable vascular biology and / or prematurity and / or ophthalmology
- Excellent experience in cell culture;
- Ability to work with animals;
- Ability to work both independently as well as in a multidisciplinary team;
- Experience with writing scientific articles;
- Good management of priorities, organization and planning;
- Rigor and concern for quality work;
- Excellent knowledge of French and English, oral and written.

Please send CV and presentation letter to : [cquiniou@gmail.com](mailto:cquiniou@gmail.com)