

Postdoc position in Medicinal Chemistry

Université de Sherbrooke, Dept. of Pharmacology, Québec, Canada

Theme: Medicinal Chemistry

Keywords: Multi-step synthesis, organic chemistry, peptide and peptidomimetics, GPCRs, protein-protein interactions, macrocycles, SAR

Projects:

Research in Boudreault's laboratory focuses on medicinal chemistry, specifically on the interface between chemistry, biology, medicine, and molecular modeling. With solid expertise in organic chemistry, small molecules, natural product derivatives, peptides and peptidomimetic synthesis, and molecular modeling are used as tools to address and understand problems of significance in bioorganic and medicinal chemistry. A particular emphasis is placed on the design, synthesis and biological characterization of new molecular entities, their interactions with receptors and other cellular biochemical systems as well as the optimization of their pharmacodynamic and pharmacokinetic properties.

A collaborative approach is privileged to select potential therapeutic targets to be studied in connection with the development of small molecule enzymatic modulators, the modulation of protein-protein and protein-biomolecule interactions, the modulation of GPCRs, the design, the study, and the use of mono- and bi-cyclic molecular systems allowing the understanding the structure-activity relationship and the optimization of their pharmacokinetic properties, the development of peptidomimetic molecules and the development of antibodies and bioconjugates.

We currently have open postdoc positions in both multi-step small molecule synthesis and peptide-peptidomimetic chemistry.

Candidate profile:

- Recently (< 3 years) completed a PhD in organic, medicinal or biological chemistry.
- Experience in peptide-peptidomimetic chemistry would be an asset.
- Autonomy, initiative, creativity.
- Good level of scientific English, writing, and communication skills.
- Knowledge or interest in molecular modeling.
- Ability to work in a multidisciplinary environment and to interact productively with a team of medicinal chemists and biologists.

Application:

Please send a CV, a cover letter and a synopsis of research experience to date (2 pages max.) to:

pierre-luc.boudreault@usherbrooke.ca and alexandre.murza@usherbrooke.ca

Although each application is taken into consideration, only selected candidates will be contacted.