PhD fellowship in immunopeptidomics, bioinformatics and immunotherapy
CHU Sainte-Justine Research Center

Principal Investigator(s)	Etienne Caron (https://www.chusj.org/Bio?id=fcd49543-e878-47e8-ba8e-4e8757bbad0b&lang=en)
Project duration	5 years
Start date	Starting immediately or upon agreement

CHU Sainte-Justine
Research Center
Mother and Child
University Hospital Center

Université de Montréal

Research laboratory presentation

The Caron lab is interested in developing and applying next-generation mass spectrometry technologies to advance the field of cancer immunotherapy. Our multidisciplinary research program is highly collaborative by nature and we aim to have a significant impact on patient care worldwide.

Research project description

The 2018 Nobel Prize in Medicine was awarded to two cancer immunotherapy researchers (J. Allison and T. Honjo), acknowledging the fact that checkpoint blockade immunotherapy is revolutionizing clinical oncology. However, only a subset of patients exhibit durable clinical responses and new omic technologies are needed to enable highly precise and effective immunotherapy in ALL cancer patients. We are seeking applications from highly motivated candidates for a PhD position in immunopeptidomics, bioinformatics and immunotherapy. The selected candidate will apply state-of-the-art mass spectrometry techniques to identify new forms of peptide antigens in cancer for the development of innovative anti-cancer vaccines. By the end of his/her PhD, the selected candidate is expected to have acquired a multidisciplinary expertise in mass spectrometry, protein biochemistry, bioinformatics and immunology, in addition to have developed a strong network of local, national and international collaborators.

Required training and profile

Self-motivation is the only, but essential requirement. Expertise in proteomics and bioinformatics is an asset.

Submit your application

Candidates must apply as soon as possible**.** Interested candidates must submit the following documentation to Etienne Caron at etienne.caron@recherche-ste-justine.qc.ca.

√ Curriculum vitae
√ Transcripts
√ Cover letter
√ References

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How is it like to study or make a fellowship at the CHU Sainte-Justine Research Center?

Pursue your graduate or postdoctoral studies at the CHU Sainte-Justine Research Center, and be one of the 385 students, fellows and interns who are helping to fast track the development of knowledge in the field of mother, child and adolescent health. Under the supervision of prominent scientists, especially in leukemia, rare pediatric diseases, genetics, perinatology, obesity, neuropsychology and cognition, scoliosis and rehabilitation, you will have the opportunity to work with multidisciplinary scientific teams and collaborators from all over the world.

About the CHU Sainte-Justine Research Center

CHU Sainte-Justine Research Center is a leading mother-child research institution affiliated with Université de Montréal. It brings together more than 200 research investigators, including over 90 clinician-scientists, as well as 385 graduate and postgraduate students focused on finding innovative prevention means, faster and less invasive treatments, as well as personalized approaches to medicine. The Center is part of CHU Sainte-Justine, which is the largest mother-child center in Canada and second most important pediatric center in North America. More on research.chusj.org

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