

Cancer Immunotherapy – PhD or Postdoctoral internship

CHU Sainte-Justine Research Center

Principal Investigator

Élie Haddad, M.D. PhD,
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Starting date

Immediate

Research laboratories presentation

Élie Haddad's laboratory is studying various aspects of the human immune system, spanning from stem cells to cancer immunotherapy, in both fundamental and translational research. The project will be conducted in a multidisciplinary environment, involving oncologists, immunologists and industrial partners, but the CHU Sainte-Justine will be the administrative center.

Research project description

Two student positions are currently open in the lab. The proposed research projects are focused on the development of new cell-based immunotherapies to treat leukemia and/or solid tumors. The first project is on the genomic modifications of NK cells in order to improve their cytotoxic functions. The second project will be focusing on the use of chimeric antigen receptors (CAR) in order to specifically target cancer cells through the modification of immune cells other than T cells. Both projects combine cutting-edge technology in molecular biology (CRISPR gene edition, viral production), cellular biology and the humanized mouse technology. The student will be assigned a research project that will allow him to apply a translational research approach. He will have the opportunity drive a project from the conceptual design to the pre-clinical assays in animal models. The candidate will benefit from the complementary expertise of a multidisciplinary team and of a rich research environment. In addition, he will benefit from cutting-edge methods and technologies in the field.

Candidates must have:

- Hold an appropriate degree for the targeted level (MSc for PhD; PhD or M.Sc. with a MD degree without the right to practice for post-doctoral fellowship) and excellent academic record;
- Demonstrate motivation and autonomy to bring this project to term;
- Possess a strong knowledge in immunology and experimental techniques (eg. Flow cytometry, molecular biology);
- Have experience with the handling of laboratory animals;
- Have good communication and organization skills;
- Speak and write in English.
- Established publication records

Conditions of internship

The student must apply for admission at the University of Montreal as a PhD or a postdoctoral fellow and will comply with all applicable eligibility conditions. Because the recipient is a trainee and not an employee of the CHU Sainte-Justine or Université de Montréal, the recipient is not entitled to employment benefits. For post-doctoral fellow, deductions for Canadian income tax



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will be made from twice monthly stipend, but the stipend is no subject to source deductions for Employment Insurance or Canada Pension Plan. All students at the CHU Sainte-Justine receive a stipend from their Principal investigator research funds (according to the minimum amount required at the CHU Sainte-Justine Research Center). The candidate should apply for external scholarship awards. The candidate will also have access to the internal fellowship program of the Sainte-Justine UHC Foundation.

The duration of research development is conditional:

- On the availability of research funds;
- To the project's progress;
- Eligibility of the intern to renew its status as postdoctoral fellow at the university.

Submit your application

Interested candidates are invited to submit their application by email to Dr **Élie Haddad** at: labo.haddad@gmail.com, including:

- ✓ CV showing scientific activity, academic background and research experience
- ✓ Cover letter
- ✓ Transcripts
- ✓ 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 360 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.



[Our students talk about their experience](#)

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 360 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

