Research project offer

CHU Sainte-Justine Research Center

Project title	Preventing preterm birth – therapeutics development		
Study level(s)	☒ MSc	☒ PhD	☐ Postdoctorate
Principal investigator(s)	Dr Chemtob		
Project duration	2-4 years		
Start date	Spring / Summer 2024		

Date of posting: 2023-09-08

Research laboratory presentation

Dr Chemtob has established his lab at the forefront of preclinical work on preterm birth prevention; therapeutic agent development is a constant objective of our laboratory, with in mind to improve future consequences of prematurity. The work of Dr Chemtob has been recognised by numerous awards, including a long-time held CIHR Tier 1 research chair, and a recent invitation to the Royal Society of Canada. Fundamental research interests of the lab reside at the intersection of vascular biology and inflammation, in the context of pathologies of prematurity; we integrate mechanisms of cellular biology to a broader physiological understanding.
Several senior graduate students and research associates are currently part of the lab; the structure of the Research Center in the Sainte-Justine Hospital nurtures collaborations to facilitate projects advancement and training of graduate students.

Research project description

The Chemtob lab is currently looking for two (2) graduate students to pursue research projects in the field of perinatality. Specifically, current preclinical projects aim to prevent preterm birth and its consequences on neonates, relying of therapies modulating inflammation. Other research projects are part of an ophthalmology research axis, with an objective to reveal and treat the underlying causes of retinopathies such as Age-related Macular Degeneration (AMD). A targeted pharmacological approach allowed Dr Chemtob to develop promising therapeutic agents, which the currently envisioned projects will allow to fully characterize, with in mind to eventually help patients.

Required training and profile

- B. Sc. Degree completed
- Motivation to be fully involved in fundamental research
- Being able to work autonomously
- Communication and collaboration abilities
- (*preferred*) Courses completed in pharmacology, immunology, and cardiovascular biology
- Hands-on laboratory experience required

Research Centre
CHU Sainte-Justine
Mother and Child University Hospital Centre
Université de Montréal

Conditions

Candidate must be admissible to the University of Montreal. The candidate will apply for nominative fellowships to funding agencies and organisations. The candidate will also have access to the Merit fellowships from the Foundation of the CHU Sainte-Justine.
Research training duration, including progression from Master to Doctorate, will be conditional to funding availability and project advancement.

Submit your application

Candidates must send the required documents before **01/2024** to **Dr Sylvain Chemtob** at sylvain.chemtob@umontreal.ca **and a copy to** Emmanuel.bajon.hsj@ssss.gouv.qc.ca.

Please provide:

√ *Curriculum vitæ*
√ Most recent transcripts
√ Cover letter
√ References

Adress

Sylvain Chemtob, M.D., Ph.D., FRCPC
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Equity, diversity and inclusion

The CHU Sainte-Justine subscribes to the principle of equal access to opportunities and invites women, members of visible and ethnic minorities, persons with disabilities and Indigenous people to apply. We would appreciate it if you could inform us of any disabilities that would require technical and physical accommodation adapted to your situation during the selection process. Please be assured that we will treat this information as confidential.

Studies 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 500 students, fellows and interns involved in accelerating the development of knowledge in the field of maternal, child and adolescent health, whether in basic or clinical research. 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 500 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 the second most important pediatric center in North America. More on research.chusj.org