

Masters project

CHU Sainte-Justine Research Center

Principal Investigator(s) [Zoha Kibar](#) and [Jacques Michaud](#)

Project duration 2 years

Start date January 2019

Research project description

Chiari type I malformation (CMI) is a common congenital abnormality of the craniovertebral junction (CVJ) characterized by a descent of the cerebellar tonsils into the spinal cord causing mainly headache and brainstem or spinal cord dysfunction. We have identified a strong association of CMI with the PDAC syndrome (pulmonary hypoplasia-diaphragmatic hernia-anophthalmia-cardiac defect) caused by de novo mutations in the Retinoic Acid Receptor Beta (RARβ) gene. We have created a mouse model for this syndrome using CRISPR. This project aims at conducting detailed phenotypic and molecular genetic studies of the CVJ in this mouse model to better understand the role of RARβ in the pathogenesis of CMI.

Required training and profile

A B.Sc. in biology or other related field.

Submit your application

Candidates must apply before November 2018. Interested candidates must submit the following documentation to Zoha Kibar at zoha.kibar@recherche-ste-justine.qc.ca

- ✓ Curriculum vitae
- ✓ Transcripts
- ✓ Cover letter
- ✓ References

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.



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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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