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 (RARB) 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 RARB 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

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