

Position Title:

Post-doctoral fellowship on the functional genomics of high fatality pediatric leukemia



General description:

The main responsibility of this position is to contribute to the development of large-scale drug and CRISPR screens to uncover genotype specific functional dependencies in high-fatality pediatric leukemia. This project is supported by several funding initiatives including two CQDM grants involving drug discovery and immunotherapy of high fatality pediatric leukemia. The work will be performed at Centre de recherche Azrieli du CHU Sainte-Justine and in collaboration with investigators at IRIC and CHUL research center in Quebec.

Tasks and responsibilities:

- Generation of synthetic human models and patient-derived-xenografts of distinct subgroups of pediatric leukemia;
- Contribute to the design, execution and analysis of large-scale drug screens involving primary leukemic cells;
- Contribute to the design, execution and analysis of *in vitro* and *in vivo* CRISPR screens involving primary leukemic cells;
- *In vivo* drug validation studies;
- Contribute to identify novel immunotherapy targets for leukemia treatment

Requirements (training and experiences):

- Ph.D in a discipline deemed relevant (molecular biology, pharmacology, bioinformatics);
- Expertise in cell biology including cell culture, cord blood cell isolation, human leukemia mouse models, flow cytometry and cell sorting;
- Expertise in molecular biology including CRISPR gene editing technology;
- Skills in bioinformatics

Skills sought:

- Interest to identify new treatments for high fatality pediatric leukemia
- Good oral and written communicator to work with clinicians and national and international teams;
- Excellent organizational skills, time management and priorities;

"Le genre masculin est utilisé sans discrimination et dans le seul but d'alléger le texte. Le CHU Sainte-Justine souscrit au principe d'accès à l'égalité en emploi et invite les femmes, les membres des minorités visibles et des minorités ethniques, les personnes handicapées et les Autochtones à poser leur candidature. Nous vous serions gré de nous faire part de tout handicap qui nécessiterait un aménagement technique et physique adapté à votre situation lors du processus de sélection. Soyez assuré que nous traiterons cette information avec confidentialité."

Post-doctoral fellow or senior scientist
Centre de recherche Azrieli du CHU Sainte-Justine

- Proactive, able to work and stay updated autonomously;
- The ability to work in a team;
- Strong sense of responsibility;

Conditions of employment

Union of Employees of the Centre de recherche Azrieli du CHU Sainte-Justine (SECR)

Salary Range:

Researcher in charge: Dr. Sonia Cellot

Position: Regular full time (35 hours per week)

Expected date of taking office: Fall 2024

If you are interested in this position, please use our recruitment site to apply online:

<http://www.chusj.org/fr/Emplois-benevolat/Emplois-disponibles>

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