

Project

Dr. Pshezhetsky's lab is developing a novel treatment for Immune Thrombocytopenia Purpura (ITP), the autoimmune disease characterized by a low platelet count in the absence of bone marrow-related abnormalities. It is a frequent cause of thrombocytopenia in children, resulting in significant reduction in quality of life and increased risk of bleeding. The lab is testing the hypothesis that neuraminidase inhibitors treat ITP by blocking the phagocytosis of platelets by macrophages. Dr. Pshezhetsky's lab is the only lab in Canada dedicated to this problem.

Description of position

Dr. Alexey Pshezhetsky's laboratory at the CHU Ste-Justine Research Center is looking for a research associate with expertise in immunology, hematology / cell biology, biochemistry and microscopy, and previous expertise in studying laboratory mice.

In collaboration with the laboratory director, the successful candidate will be responsible for the proper functioning of the laboratory and for performing the following tasks:

- Development and adjustments of experimental protocols using flow cytometry; purification of blood cells; analysis of animal tissues and cells by confocal microscopy and immunohistochemistry, analysis of proteins by western blots, extraction and analysis of RNA by real-time PCR. This includes handling and dissecting laboratory mice and blood extraction.
- Manage scientific projects, to ensure that project progress meets key milestones on schedule and write interim and final study reports for stakeholders.
- Connect with collaborators and advance the research project under the supervision of Dr. Pshezhetsky.
- Collaborate in writing and editing of protocols for preclinical efficacy studies.
- Participate in the collection, analysis, layout and presentation of data to laboratory members.
- Analysis: use of software for analyzing experimental data, including imaging and statistical analysis.
- Staff coordination; training of new students on cell culture techniques and enzymatic tests.
- Maintain the mouse colony linked to the project.
- Place orders for the products required for the experiments under the agreement of your supervisor.
- Maintenance of laboratory equipment and shared spaces, coordination with other laboratories for shared spaces, physical organization of the laboratory, monitoring and control of expenses and statements of account.

Requirements and skills

- Ph.D. degree or Post-Doc in a discipline relevant to the job (cell biology, biochemistry, or immunology / hematology);
- Experience working with rodents;
- Demonstrated autonomy and initiative;
- Be capable of flexibility in working schedule;
- Demonstrated passion for research;
- Coordination and management skills;
- Ability to work in a group and good interpersonal relations;



Research Associate – Level 4
Centre de recherche du CHU Sainte-Justine

- Ability to communicate and good writing skills in French and English.

Conditions of employment

Union of employees of the CHU Sainte-Justine Research Center (SECR)

Salary scale: Level 4 - between \$ 28.95 / hr and \$ 43.01 / hr

Responsible researcher: Dr. Alexey Pshezhetsky

Position: Regular full-time (35 hours per week)

Scheduled start date: April-May 2021

IMPORTANT : we would like to point out that foreign applicants must have a valid work permit for the CHU Sainte-Justine. Any work permit with the following condition will not be accepted:

"Not authorized to exercise a job related to child care, primary or secondary education, health care"

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

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