TRUDEAU INSTITUTE
Transforming Medicine Together

Postdoctoral Scientist/ Associate Scientist position in Viral Immunity and translational Program

Trudeau Institute, an internationally acclaimed, path-breaking research institute focused on combating infectious disease, has an immediate opening for a Postdoctoral Scientist. The Institute has recently expanded to develop the Trudeau Research Network, consisting of productive, collaborative and strategic inter-disciplinary partnerships, including New York State, biomedical research institutions, biopharma/biotech, and major foundations, with Trudeau as a hub. The Institute engages in multi-disciplinary research devoted to translating the advances of basic science into new strategies to meet today's urgent infectious disease challenges.

We are seeking highly motivated scientific professional experienced in molecular virology and immunology. In this position, the successful candidate will play an integral part in Trudeau's long-standing commitment to develop novel therapies for diseases caused by viral pathogens. You will be supporting several projects focused on development of novel therapeutics and technology platforms targeting the coronavirus -SARS-CoV-2, and tick-borne viruses with the ultimate goal of bringing novel drugs into the clinic. The candidate will join a dynamic, multidisciplinary, cross-functional team focused on studying virus-host interactions and drug discovery. This role will provide YOU the opportunity to lead key activities to progress YOUR career.

Responsibilities: To independently design, implement and report *in vitro* and *in vivo* studies. To make independent and innovative intellectual contributions to advance the program. To interact and communicate with other groups as part of a diverse multidisciplinary team. The candidate will be expected to share and present research results in program meetings and to author appropriate documents (reports, standard operation procedures, grants and publications). In addition, there will be opportunities to mentor and supervise junior research technicians.

Preferred Qualifications

To be considered for this position you must have a Ph.D in virology or immunology plus 0-2 years of highly relevant lab experience in RNA virology, vector biology, molecular and cellular biology. The qualified individual will have a strong background in *in vitro* and *in vivo* models of disease, virology, and immunology. Strong track-record of scientific publications in peer-reviewed journals, with at least 2 first author research manuscripts. This is a lab-based, hands-on position and is a great opportunity for the right candidate to grow their expertise and learn many facets of drug development in a fast-paced environment.

Desired skill sets:

- Demonstrate a detailed fundamental knowledge in molecular biology and molecular virology, particularly RNA virology, as they apply to vaccine and drug discovery and development.
- Have practical knowledge in molecular cloning, molecular and biological characterization, virus-host interactions, or viral pathogenesis.
- Experience in developing and designing *in vitro* high-throughput drug screening platforms.
- Designing and performing *in vivo* drug efficacy studies.
- Plan, design and execute experiments to support the current drug discovery portfolio.
- Independent, self-starting and supportive of team-based research.
- Have the ability to understand, interpret, and communicate complex scientific data to determine next steps.
- Have the ability to prioritize multiple projects and meet timelines while maintaining attention to detail and setting high performance standards.
- Strong technical cell-based assay skills including: primary cell culture, transfections of RNA, DNA and other functional cell based assays (eg. Innate cell biology, reporter assays, virus replicon systems)

If you have the following characteristics, it would be a plus:

- Experience with RNA virus reverse genetic system.
- Experience with gene editing techniques (e.g. CRISPR)
- Work experience in BSL3 lab.
- Experience with 3-D tissue models (ALI cultures) and organoid model is a plus.
- Strong understanding of drug discovery processes, including small/large molecule development is desirable.
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Trudeau Institute is located in an affordable, small town environment in the midst of the beautiful Adirondack Mountains in New York State. On-campus housing situated on a recreational lake is available. We offer competitive salaries along with a robust benefits package (including health, dental, life and long-term disability insurance and a generous employer retirement contribution). Affordable daycare for employees' children is conveniently located near the Institute. The Institute is an equal opportunity/affirmative action employer encouraging women, individuals with disabilities, minorities and veterans to apply.

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