

Position: Postdoctoral Fellow

Site: Ontario Institute for Cancer Research

Reports to: Dr. Laszlo Radvanyi (Principal Investigator)

Hours: 35 hours per week

Status: Temporary full time

Post-Doctoral Research Fellow, Radvanyi Lab

The Ontario Institute for Cancer Research (OICR) is looking for an experienced professional to fill the key role of Postdoctoral Fellow in the laboratory of Dr. Laszlo Radvanyi. Dr. Radvanyi is the President & Scientific Director of OICR and is also a Professor in the Department of Immunology at the University of Toronto.

The Ontario Institute for Cancer Research (OICR) is a collaborative research institute that conducts and enables high-impact translational cancer research. We help to accelerate the development of discoveries for patients around the world while maximizing the economic benefit of this research for the people of Ontario. OICR strives to turn insights in cancer research into precision medicine innovations that are implemented into Ontario's health system to transform patient outcomes for the better. In collaboration with our partners in healthcare, research, government, and the private sector, we:

- Conduct cross-disciplinary cancer research in fields such as genomics, immunology, informatics, drug discovery and molecular pathology
- Enable research in Ontario and worldwide by building collaborative networks, securely sharing data, and making tools and resources available to the research community
- Translate our research findings to the clinic by developing clinical guidelines, supporting clinical trials and working with our strategic partner FACIT to advance the commercialization of our innovations and IP.

The laboratory of Dr. Laszlo Radvanyi at OICR and the University of Toronto is seeking a post-doctoral scientist to join our research efforts on several projects focusing on the expression and role of non-coding regions composed of retroelements or retrotransposable elements, including LINEs, SINEs, Alu elements and human endogenous retroviruses (HERVs), in cancer development and their role in modulating anti-tumour immune responses in biliary tract, pancreatic, and prostate cancer. The lab is also working on new cancer immunotherapies targeting the tumour-specific expression of LINEs and HERVs in cancer using mRNA vaccines as a form of "cancer interception" to curtail early cancer development.

Our work employs a variety of cutting-edge techniques in human immunology, cell biology, molecular biology, gene modification, and bioinformatics and takes advantage of a rodent model of spontaneous breast cancer to study the role of retroelements in early tumour development to invasive cancer focusing on role of inflammation-mediated events induced by retroelement activation during the tumorigenic process and how these can be modulated.

Qualifications:

- PhD degree, obtained within the last five (5) years, in immunology, molecular biology, or related field
- Experience in cell culture, basic handling of human blood products for research and human immunological assays
- Experience with basic molecular biology techniques, next-generation sequencing, and data analysis
- Experience and/or willingness to work with pre-clinical animal models
- Excellent organizational and analytical skills, along with a high degree of independence and the flexibility to thrive in a novel and rapidly evolving research environment
- Proven track record of publication and written communication skills
- Ability to coordinate and work effectively with a diverse team of clinicians, senior scientists, post-docs, graduate students, and technicians.

NOTE: Vaccines (COVID-19 and others) are a requirement of employment at OICR unless you have an exemption on a medical ground pursuant to the Ontario Human Rights Code.

Career Development:

We value our trainees' personal development and strive to unlock their full potential. Successful applicants are encouraged to attend scientific meetings and the lab will provide support for attendance at a minimum of one scientific conference per year. While this position is not contingent upon securing additional funding, successful candidates will be encouraged to apply for external sources of support. Candidates are welcome to explore their own scientific interests in areas of research that fall within the general scope of the lab.

Interested applicants should submit the following documents to Dr. Laszlo Radvanyi (Laszlo.Radvanyi@oicr.on.ca) and Dr. Valentina Evdokimova at Valentina.Evdokimova@oicr.on.ca, with a CC to Leanne Baird at LBaird@oicr.on.ca:

(1) Your CV with a list of publications; (2) a short summary of your present and future research interests; (3) the names of three references and their contact information.

While OICR thanks all applicants, only those selected for an interview will be contacted.

OICR is a respectful, caring, and inclusive workplace. We are committed to championing accessibility, diversity, and equal opportunity, and welcome all applicants, including (but not limited to): all religions and ethnicities, LGBTQ2s+, BIPOC, persons with disabilities, and all others who may contribute to the further diversification of ideas. Requests for accommodation can be made at any stage of the recruitment process providing the applicant has met the bona fide requirements for the open position. Applicants need to make their requirements known when contacted.