

POSTDOCTORAL FELLOW, IMMUNOLOGY

We are seeking a highly-motivated Postdoctoral Fellow with strong leadership ability and well-rounded, hands-on expertise in immunology, cell biology, and molecular biology. The successful applicant will work full-time under the supervision of Dr. David Granville for a two-year term with the possibility of extension. The position start date is flexible.

JOB SUMMARY:

Granzymes are a family of serine proteases with 5 members (GzmA, B, H, K, M) identified in humans. With the exception of Granzyme A and Granzyme B, very little is known about the other 3 proteases, providing many opportunities to carve out a niche for discovery, translation, therapeutics development, patents, and publications. Recently, a number of high impact studies have implicated a key role for GzmK and/or subsets of GzmK+ T cells in inflammaging and/or immune-mediated diseases. Our research program spans basic molecular biology, biochemistry, and proteomics through to target validation, proof-of-concept in animal and human models, and collaborations with clinicians and industry. The Postdoctoral Fellow (PDF) will be responsible for conceiving, designing, and implementing basic and translational research studies characterizing granzyme K (and other granzymes) in immune cell populations and their pathophysiological roles in the context of pruritus and/or inflammation in aging skin and/or other chronic, inflammatory conditions. The position will also provide opportunities in drug discovery in addition to collaborating and with both industry and leading academic collaborators at UBC and abroad.

ORGANIZATIONAL STATUS:

The PDF will be employed by the Department of Pathology and Laboratory Medicine, Faculty of Medicine at the University of British Columbia. The Granville Laboratory is located within the International Collaboration for Repair Discoveries (ICORD) Centre, Vancouver Coastal Health Research Institute (www.vchri.ca) in Vancouver, British Columbia, Canada. The candidate will report to Dr. Granville directly and will play a senior leadership role in the laboratory that includes overseeing the research activities of graduate students, undergraduate students, and technicians. More information on the Granville Laboratory can be found at <https://granzymes.com>.

WORK PERFORMED:

- Provide leadership and strategic direction pertaining to basic/translational research/proteomics/degradomics/transcriptomics investigating the role of granzymes in immune cell populations pertaining to chronic and/or age-related pathologies
- Design and implement research plans
- Foster research collaborations and work jointly with academic, clinical, industry, and other partners
- Scientifically document lab experiments, data analysis, interpretations
- Write manuscripts, present results at internal and external meetings
- Identify funding opportunities as well as write grant proposals with supervisor as a co-applicant
- Lead and mentor junior trainees in the laboratory

CONSEQUENCE OF ERROR:

This is a senior research position that plays a critical role in the development of this novel field. The PDF is accountable for the quality and integrity of the research and data, including analyses and interpretation, as well as the effective and efficient management of research projects and deliverables. This position requires innovation, strategic planning, and adaptability. Incorrect decisions or actions may damage the reputation of the laboratory, lead to loss of credibility in this field, and be financially costly.

SUPERVISION RECEIVED:

Making spinal cord injury preventable, livable, and curable



International Collaboration on Repair Discoveries: a research centre in the UBC Faculty of Medicine and VCH Research Institute

The PDF will work with a high degree of independence and set priorities under broad directives from Dr. Granville. This position will also provide the candidate with professional development opportunities as well as a high level of exposure to translation, commercialization, and industry.

SUPERVISION EXERCISED:

The PDF will be expected to provide direction and mentorship to graduate and undergraduate students under the supervision of Dr. Granville.

QUALIFICATIONS:

- PhD with expertise in immunology, cell biology, and molecular biology
- A proven track record with a minimum of 2-3 first author publications in reputable journals
- Expertise in immunology is essential while previous experience in protease/extracellular matrix/proteoglycan biology, molecular biology, animal models of disease, transcriptomics, proteomics, and histology is an asset
- Demonstrated experience in experimental design, analyses and scientific writing
- Previous experience in manuscript/proposal writing is an asset
- Excellent written and oral communication skills
- Exceptional interpersonal and organizational skills

If you are interested in this position, please submit a cover letter and CV in 1 PDF file to Dr. Karen Jung PhD at kjung@icord.org. The position will remain open until filled. *UBC hires on the basis of merit and is strongly committed to equity and diversity within its community.*