



We are seeking talented post-docs to join us in Vancouver!

For more info: Contact: [dgranville@icord.org](mailto:dgranville@icord.org) or [www.granzymes.com](http://www.granzymes.com)

## **Position: Post-doctoral Fellow/Research Associate**

Location: International Collaboration On Repair Discoveries (ICORD) Centre and BC Professional Firefighters' Burn and Wound Healing Group, University of British Columbia, Vancouver, BC

### **JOB SUMMARY:**

The post-doctoral fellow (PDF) will be actively involved in the translational research effort pertaining to understanding the physiological and/or pathophysiological role(s) of the serine protease family, granzymes, in the context of skin or vascular inflammation and autoimmune and/or chronic disease. Granzymes are a family of 5 serine proteases in humans. The job is highly translational and well suited for PDFs seeking greater involvement in all steps in taking basic bench research discoveries through to clinical application and commercialization. Our research program spans from basic biochemistry/molecular biology through to target validation, proof-of-concept in animal and human models with a strong connection to industry. The PDF will be responsible for designing and implementing studies to further elucidate mechanisms of disease through the use of in vitro and in vivo models. Dr. Granville's laboratory ([www.granzymes.com](http://www.granzymes.com)) utilizes a variety of disease models related to aging, autoimmunity, injury, inflammation and impaired healing as they pertain to cardiovascular, pulmonary, skin, musculoskeletal, and neuroinflammatory disorders. We are also interested in mechanisms of ischemia and reperfusion injury in the context of cutaneous wound healing.

### **WORK PERFORMED:**

- Provides leadership, strategic direction, and translational research pertaining to proteases in autoimmune and/or age-related chronic disease. There are a number of opportunities in both the autoimmune and age-related chronic disease areas.
- Experience with proteases, extracellular matrix, and/or autoimmune disease models is an asset.
- *In vivo* testing/characterization of small molecule or antibodies in animals, including relevant models of aging, autoimmune, wound healing and/or chronic disease is an asset.
- Design and implementation of a research plan to investigate the pathological role of granzyme serine proteases.
- Planning, performing and coordinating experiments/studies pertaining to the above.
- Excellent communication skills between Granville lab, industry and other partners as required.
- Fosters research collaborations and a willingness to work with industrial partners.
- Scientific documentation of lab experiments, data analysis, interpretation and manuscript/grant writing.
- Excellent track record from graduate studies and experience writing of articles for publication in reputable journals.

### **QUALIFICATIONS:**

The candidate should have a solid scientific and technical background with excellent communication, interpersonal and organizational skills. In addition, the candidate will be highly motivated, willing to learn and comfortable with responsibility.

- Ph.D. in immunology, molecular & cell biology, experimental pathology, dermatology, experimental medicine, vascular biology or similar discipline.
- Cell culture, histology, biochemistry, molecular biology experience.
- Applicants with experience and a strong track record with murine models of aging, autoimmune and/or chronic disease are especially encouraged to apply.
- Hands on experience in all aspects of designing and implementing animal models of disease.
- Previous biochemical/cell biology experience with proteases, protease activity assays, extracellular matrix/proteoglycan biology, immunology, histology is a definite asset but we do have experienced people in the lab to teach procedures if necessary.
- Experience with statistical analyses and scientific writing. The candidate must excel in both written and oral communication. Previous experience with grant writing will be considered an asset.
- A proven track record with a minimum of 2-3 first author publications in reputable journals.

***If interested, please send CV to: Dr. David Granville: [david.granville@hli.ubc.ca](mailto:david.granville@hli.ubc.ca)***