**POST-DOCTORAL FELLOW, DERMATOLOGY AND/OR AUTOIMMUNE DISEASE**

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 is available starting January 2021.

**JOB SUMMARY:**

The post-doctoral fellow (PDF) will be involved in translational research pertaining to pathophysiological roles of the serine protease family, granzymes, in the context of inflammation, injury, and repair in dermatological, autoimmune, aging and/or chronic disease. Granzymes are a family of 5 serine proteases in humans. With the exception of GzmA and GzmB, very little is known about the other 3 proteases so there are many opportunities to carve out a niche for drug development and for publications/patents. The job is highly translational and well-suited for PDFs seeking greater involvement in taking basic bench research discoveries through to clinical application and potentially commercialization. Our research program spans 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) utilizes a variety of disease models related to aging, injury, inflammation, and impaired healing as they pertain to skin, autoimmune, cardiovascular, pulmonary, musculoskeletal, and neuroinflammatory disorders.

**ORGANIZATIONAL STATUS:**

The position is in the Granville Laboratory within the ICORD (International Collaboration for Repair Discoveries) Centre at the Vancouver Coastal Health Research Institute, University of British Columbia in Vancouver, British Columbia, Canada. The candidate will report to Dr. Granville directly and will provide key leadership in the laboratory working with a technician and helping to oversee the research activities of graduate students.

**WORK PERFORMED:**

* Provide leadership, strategic direction, and translational research pertaining to granzymes in dermatological and/or autoimmune-related chronic disease. There are a number of opportunities in both the dermatological and autoimmune-related chronic disease areas.
* Design and implement research plans to investigate the pathological role of other granzymes or other pathways.
* Design and conduct animal experiments, implement animal disease models (dermatology, autoimmune disease, aging, or wound healing), including animal handling and breeding.
* Conduct in vivo testing or characterization of small molecule, knockouts or antibodies in animal models, including relevant models of dermatology, autoimmune disease, aging, wound healing and/or chronic disease.
* Plan, perform and coordinate experiments/studies pertaining to the above.
* Foster research collaborations and work jointly with academic, industry, and other partners.
* Scientifically document lab experiments, data analysis, interpretations.
* Write manuscripts, present results at internal and external meetings.
* Identify funding opportunities and write provincial and national grant proposals with supervisor as a co-applicant.

**CONSEQUENCE OF ERROR:**

This is a senior research position that plays a critical role in the development of this novel field. The PDF provides leadership and sets direction of research. 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, adaptation and strategic planning. Incorrect decisions or actions may damage the reputation of the laboratory and could be financially costly and lead to loss of credibility in this field.

**SUPERVISION RECEIVED:**

The PDF will work with a high degree of independence and sets priorities under broad directives and in concert with the principal investigator. The PDF will be expected to take a leadership role in the laboratory under the supervision of Dr. Granville. This position will also provide the candidate with a high level of exposure to translation, commercialization and biotechnology.

**SUPERVISION GIVEN:**

The PDF will be expected to provide supervision and guidance to undergraduate and graduate students as required. The PDF will also have access to a technician.

**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 dermatology, autoimmune disease, immunology, molecular & cell biology, experimental pathology, experimental medicine, vascular biology or similar discipline.
* Applicants with experience and a strong track record with murine models of dermatological, autoimmune and/or chronic disease are especially encouraged to apply.
* A proven track record with a minimum of 2-3 first author publications in reputable journals.
* Expertise and hands-on experience in animal handling and breeding, including all aspects of design, implementation, analyses, tissue collection, histology pertaining to relevant animal models of disease, is essential.
* Familiarity with in vivo testing/characterization of small molecule or antibodies in animals, including relevant models of dermatology, autoimmune, aging and/or chronic disease is required.
* Proficiency in cell culture, histology, biochemistry and molecular biology techniques.
* Previous biochemical/cell biology experience with proteases, protease activity assays, extracellular matrix/proteoglycan biology, immunology, histology is a definite asset but we have experienced personnel 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.

**PERSONAL ATTRIBUTES:**

Highly motivated; Self-starter; Demanding of excellence; Attentive to details and deadlines; Accountable; Flexible; Committed while maintaining balance and perspective; Willing to make and learn from mistakes; Others describe you as honest, trustworthy, positive and respectful, and gets along well with others; A person of high integrity, a good listener, a straightforward communicator, and a team builder; Capable of working independently and in teams; Comfortable with risk and uncertainty; Excellent vocabulary, oral communication and writing skills; Looking to build something of value; A good sense of humour, social and networking skills are desirable.

If you are interested in this position, please submit a cover letter and CV in PDF format to Dr. David Granville (David.Granville@hli.ubc.ca). 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.***