

Postdoctoral Fellow Position (Murine Disease Models)

The Brömme Laboratory at the University of British Columbia is seeking a *highly motivated, enthusiastic and independent thinking post-doctoral candidate* for a basic-translational research project in the cardiovascular and/or skin aging field.

- Candidates must have extensive experience in biochemistry, cardiovascular or musculoskeletal or skin ageing biology and mouse or rat animal models.
- Candidate should have extensive experience in drug application methods (oral, injectable, topical), animal care and record keeping, blood withdrawal and animal dissecting skills.
- Candidate is required to have histology and immunohistochemistry skills.
- Candidate will be involved in atherosclerosis and aneurysm, or arthritis, or skin aging mouse models.
- Candidate will be able to develop new methodology or expand existing one.
- Hands-on experience in various imaging (μ CT, confocal time-lapse, SEM) and cell-sorting techniques is expected.
- Some experience in pharmacokinetic techniques and analysis would be beneficial.
- The candidate has excellent verbal and written skills in English and has demonstrated the capability to write research protocols and papers as well as to maintain meticulous research records.
- Candidate must be independent yet collaborative, self-motivated, capable of creative thinking, and driven with a desire to pursue a career as an independent academic scientist or a career in a drug development company.

The minimum academic requirement is a Ph.D. in a life science subject that should not be older than 2 years.

Postdoctoral Fellow Position or Ph.D. graduate student Position (Proteomics)

The Brömme Laboratory at the University of British Columbia is seeking a *highly motivated, enthusiastic and independent thinking post-doctoral candidate* for a basic research project studying the protease activities.

- Candidate must have extensive experience in cell culture techniques (cell-lines and primary cells).
- Candidate is required to have expertise in various protein separation techniques (FPLC, HPLC, other chromatography techniques, electrophoresis, immunoprecipitation).
- Candidate must have extensive experience in various proteomics technologies including been capable to develop liquid chromatography tandem mass spectrometry techniques (LC-MS/MS) and the appropriate data analysis.
- Experience in protein expression and immunochemical analysis.
- The candidate has excellent verbal and written skills in English and has demonstrated the capability to write research protocols and papers as well as to maintain meticulous research records.
- Candidate must be independent yet collaborative, self-motivated, capable of creative thinking, and driven with a desire to pursue a career as an independent academic scientist.

The minimum academic requirement is a M.Sc. (for Ph.D. position) or a Ph.D. (for PDF position) in a life science subject that should not be is not older than 2 years.

Postdoctoral Fellow Position (Structural Biology)

The Brömme Laboratory at the University of British Columbia is seeking a *highly motivated, enthusiastic and independent thinking post-doctoral candidate* for a basic research project studying the protease-inhibitor structures, inhibitory mechanisms, and drug design.

- Candidate must have extensive experience in at least one of the structural biology techniques such as crystallography or cryo-electron microscopy; preferably experience in protease structural biology.
- Candidate must have experience in molecular model building, simulation and visualizing software (AMBER, CCP4, COOT, PHENIX etc.).
- Experience with computational modelling software such as Rosetta, MOE, or Maestro.
- Excellent understanding of protein structures, protein-protein interactions, and protein chemistry.
- Experience with protein expression, purification, biochemical and bioactivity characterization using techniques.
- The candidate has excellent verbal and written skills in English and has demonstrated the capability to write research protocols and papers as well as to maintain meticulous research records.

Candidate must be independent yet collaborative, self-motivated, capable of creative thinking, and driven with a desire to pursue a career as an independent academic scientist.

The minimum academic requirement is a Ph.D. in a life science subject that should not be is not older than 2 years.

Postdoctoral Fellow Position (Chemistry)

The Cuifolini/Brömme Laboratories at the University of British Columbia are seeking a *highly motivated, enthusiastic and independent thinking post-doctoral candidate* for a natural product synthesis/drug design project. The candidate must have a Ph.D. in organic chemistry with demonstrated experience in organic synthesis; preferably in natural product total synthesis.

- The candidate must be able to plan and execute routes to natural products of at least moderate complexity with a minimum of supervision.
- The person must be familiar with state-of-the-art separation (chromatography, crystallization, etc.), analytical (HPLC, etc.), and spectroscopic (1- and 2D NMR, MS, etc.) methods.
- A thorough understanding of preparative reactions and their mechanisms, as well as the ability properly to interpret research results, are a must.
- Experience in drug design including computational analysis is beneficial.

The candidate is expected to keep meticulous, impeccable research records that can be used to prepare technical papers as well as patent applications, and should be open to interactions with biological scientists.

Ph.D. Graduate Student positions

The Brömme Laboratory at the University of British Columbia is seeking *highly motivated, enthusiastic and independent thinking students* for Ph.D. project in drug delivery. Interest and possible laboratory expertise in either protease research, or in musculoskeletal or cardiovascular diseases would be beneficial.

All inquiries should be sent by email to:

Dieter Brömme, Ph.D.
Professor and Canada Research Chair in Protease and Diseases

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Candidates have to provide three reference contacts.