

Post-doctoral Fellow in Cell and Molecular Biology of Glycobiology of CNS Diseases

The Vocadlo research group is seeking a Postdoctoral Research Fellow to join our team located in the Department of Molecular Biology and Biochemistry and the Department of Chemistry at Simon Fraser University.

Our interdisciplinary team comprises both biologists and chemists that focus on addressing fundamental questions relating to the roles of carbohydrate processing enzymes in human health and disease. We use a range of methods from biochemistry to cell biology and leverage expertise in chemical biology to create and exploit new research tools.

The successful applicant will work as part of this well funded and collegial team with a principal role being to lead research efforts into the roles of enzymes genetically or pharmacologically linked to diseases of the central nervous system (CNS). Prospective projects benefit from a great depth of preliminary research and involve the use of human patient iPSC-derived cell models of monogenic and polygenic CNS diseases.

The applicant will be supported by experts in cell and chemical biology and have access to cutting edge facilities including the fully automated Centre for High-Throughput Chemical Biology (HTCB), which supports automated cell culture and quantitative cell biology. The applicant will also benefit from exposure and potential involvement in regional and international industrial collaborations.

The successful applicant will be highly motivated and have a demonstrated ability to work both independently and within a team. They will spearhead an independent line of inquiry and also support other team members through their expertise in cell and molecular biology. The successful applicant must have a PhD in Cell Biology or Biochemistry and expertise in cell biology is essential. Among experimental methods to be used will be CRISPR-Cas9, confocal microscopy, high-content imaging, and iPSC culture and differentiation. Familiarity with a range of methods in cell biology is important and training will be available to expand professional skills and abilities.

Demonstrated research productivity is essential with the successful applicant being first author on published manuscripts. The successful applicant must have strong communication skills and demonstrate excellent initiative. Suitably qualified applicants are welcomed to submit an application that includes; (i) a cover letter describing their interest and suitability for this position, (ii) a resume that summarizes their scholarly contributions, (iii) the names and contact information for three references. Application materials should be combined into a single PDF document and submitted via email to yanping_zhu@sfu.ca. Applications will be reviewed Nov 15 and continue until the position is filled. The opportunity is open immediately and the appointment will be made initially for one year with the potential for renewal. Three weeks paid holiday and health benefits are included. Salary will be based on experience.