March 30, 2022

POST-DOCTORAL FELLOW—ANTIMICROBIAL PEPTIDES AND ARTIFICIAL INTELLIGENCE

We are currently seeking a **Post-doctoral fellow** to join our team of chemists and biochemists in the Department of Chemistry at the University of Victoria starting as soon as possible. The Hof lab's team of synthetic and bioanalytical chemists is creating novel antimicrobial peptides in collaboration with a tightly integrated, interdisciplinary consortium of researchers located at multiple Canadian institutions. This chemistry post-doctoral fellow will work closely with some of Canada's leading experts in artificial intelligence from academia and the private sector. We have already identified novel AMPs with exciting activities against highly pathogenic clinical isolates, and other strains relevant to animal disease, with studies of the highly pathogenic microbes enabled through our consortium members at the BC Centres for Disease Control. The science is also driven by cutting-edge instrumentation for high-throughput synthesis and multiple kinds of high-throughput bioassays.

This project is supported by the funding agencies Genome Canada and MITACS, with additional co-funding from the startup Amphoraxe, Inc.. **The position is funded for three years.** The successful applicant will be an experienced organic chemist, and will have demonstrated the ability to work in a collaborative, team-oriented lab environment. The ideal applicant will be 0-2 years from date of Ph.D., will have excellent English skills, and will meet the following scientific criteria.

Established, expert-level skills:

- Synthesis, purification, and characterization of organic compounds
- NMR, Mass Spec, HPLC, LC-MS, Flash/Combiflash chromatography
- Writing protocols and reports, project planning, collaborative research, and oral scientific communication

Ability to develop the following skills:

- Bio-analytical chemistry: fluorescence- and mass spectrometry-based assays
- Automated synthesis using a programmable synthesizer
- Data science, including learning AI-based methods for data modeling

This position requires a high level of intellectual creativity and excellent interpersonal skills. Aspects of the job will include: supervision of undergraduate researchers, close interactions with chemistry graduate students, and communication with our collaborators located at multiple other institutions. The salary is CAD45,000/year, with excellent benefits provided by full access to institutional fringe benefits and the Canadian healthcare system.

The University of Victoria is one of Canada's most research-intensive institutions, and is located on the beautiful, temperate West Coast of Canada. For more information on the Hof research group, the University of Victoria, available infrastructure, and the city of Victoria, see http://hoflab.com/join.

Applications (including a cover letter, complete CV, and contact information for three references) should be sent by email to Professor Fraser Hof at *fhof@uvic.ca*. The search will remain open until filled.