

**Posting
POSTDOCTORAL FELLOW**

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| Position Title: | Postdoctoral Research Fellow |
| Hiring Unit: | Research Institute of the McGill University Health Center |
| Supervisor: | Dr. Donald Sheppard |
| Work Location: | Glen site |
| Hours/Week: | 40hrs/week |
| Hourly Wage: | To be determined |
| Start & end dates (tentative): | January 1 st , 2022 to December 31 st , 2024 |
| Deadline to Apply: | November 8 th , 2021 |

PRIMARY DUTIES

The Sheppard lab seeks a Postdoctoral Research Fellow to join our team within the McGill University Department of Microbiology and Immunology, located at the Research Institute of the McGill University Health Center.

Our research group focuses on elucidating the role of cell wall and secreted polysaccharides in the pathogenesis of fungal diseases. Our laboratory aims to identify and characterize the structure and function of novel polysaccharides, using a wide range of *in vitro* and *in vivo* assays spanning molecular biology, cell biology, glycobiology and mouse experimentation approaches. Our extensive network of collaborators provides complementary expertise in immunology, structural biology and glycochemistry. Current studies focus on the filamentous human fungal pathogens *Aspergillus fumigatus* and *Mucor* species, as well as other animal and plant fungal pathogens, such as *Batrachochytrium dendrobatidis* and *Botrytis cinerea*.

The successful applicant will join a CIHR-funded program working to define the genetic regulation of novel polysaccharide synthesis. The applicant will also participate in other lab initiatives, such as the development of novel therapeutic and diagnostic strategies targeting these polysaccharides.

Primary duties include:

- Working with Dr. Sheppard and his team to develop an independent line of research
- Designing and performing experiments
- Collecting and analyzing data
- Participating in weekly lab meetings
- Preparing and delivering scientific presentations internally and at conferences
- Preparing and submitting manuscripts and grant applications
- Training and mentoring of other laboratory members and undergraduate students

EDUCATION

- Applicants should possess or be nearing completion of a PhD degree, with research experience in molecular biology, preferably related to fungal species.
- Expertise in biochemistry, microscopy and/or immunology would be an asset, but is not required.

OTHER QUALIFYING SKILLS & EXPERIENCE

- Ability to work both independently and collaboratively
- Excellent verbal and written communication skills
- Demonstrated management skills (should be able to manage multiple projects involving a wide array of techniques, organisms, and personnel)
- Teaching and mentoring of undergraduate students
- Ability to adapt to shifting priorities in response to deadlines and the priorities of the laboratory
- Proficiency in statistical analysis (software used: Prism, R, Matlab)

HOW TO APPLY

Please submit your *curriculum vitae*, cover letter, and the contact details for 2 references to Ms. Josée Chabot (josee.chabot@mcgill.ca) and to Dr. François Le Mauff (francois.lemmauff@mcgill.ca).

We thank all applicants for their interest; however, only applicants selected for an interview will be contacted.

NOTE: The masculine gender has been used for brevity and includes the feminine gender.