

# GRADUATE STUDENT OPPORTUNITY IN HOST-PATHOGEN INTERACTION

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A Funded M.Sc. or Ph.D. position is available in the laboratory of Dr. Priyanka Pundir at the University of Guelph commencing in Fall 2023 ([The Pundir Lab](#))

## PROJECT DESCRIPTION

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This Ph.D. project aims to dissect the crosstalk between the cells, the immune system, and the microbiome of the skin in health and disease. The candidate will use custom-designed transgenic mouse models to understand how bacterial molecules regulate the immune function of skin-resident mast cells in host defense. The candidate will work in a highly interdisciplinary environment, gaining skills in mouse and microbial genetics, receptor pharmacology, sequencing, flow cytometry, imaging, and infection models. The project builds on the studies [Cell Host Microbe 2019](#) and [Nature 2015](#).

## REQUIREMENTS

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We are looking for an excellent and highly motivated new colleague with a strong background in immunology and/or microbiology.

Previous research experience with mouse experimentation, tissue culture, and basic immunological and molecular biology techniques is an asset.

Good oral and written communication skills and the ability to work on a team project are essential.

This position is open to Canadian citizens and permanent residents.

## FUNDING

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Ph.D. students in the College of Biological Science are funded at a minimum of \$25,348 per year, and the minimum guaranteed duration of support is 12 semesters. For more details regarding funding, see [Student Stipend Information](#).

Depending on eligibility, students may also apply for a wide range of internal and external scholarships. See the full list of available [Scholarships and Awards](#) for more information.

## APPLICATION INSTRUCTIONS

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Apply by submitting your complete application including

- curriculum vitae
- brief summary of previous research experience,
- 1-page statement of research interests
- the names of at least 2 referees to:

Dr. Priyanka Pundir ([ppundir@uoguelph.ca](mailto:ppundir@uoguelph.ca))

We invite and encourage applications from all qualified individuals, including from groups that are traditionally underrepresented in higher education.