

MICROBIOLOGY

DR. AYUSH KUMAR'S LABORATORY UNIVERSITY OF MANITOBA



IF YOU CHOOSE THIS LABORATORY, YOU WILL:

Spend a week in the life of a Microbiology student in Dr. Ayush Kumar's laboratory and explore the hidden world of microbes! You will be studying the tiny yet treacherous mechanisms of antibiotic resistance in superbugs.

Gain undergraduate level experience in microbiology and gain new skills in bacterial culturing, DNA extraction, cloning, and gene expression. Explore science on the micro level using scientific techniques such as gel electrophoresis, incubators, and NanoDrop!

WHICH SCHOOL SUBJECTS ARE RELEVANT TO THIS LAB?

You will enjoy working in this lab, if you are interested in high school subjects like

- Chemistry
- Biology

You can continue to learn more in your undergraduate studies by taking courses at university in

- Biological Sciences
- Microbiology

CAREERS THAT APPLY MICROBIOLOGY IN YOUR COMMUNITY:

- Water and environmental microbiology
- Infectious disease research
- Healthcare
- Food safety
- Policy making



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VERNA J. KIRKNESS



SCIENCE & ENGINEERING EDUCATION PROGRAM

CONNECTING STUDENTS FROM ACROSS CANADA

The Verna J. Kirkness Science and Engineering Education program offers scholarships to First Nations, Métis and Inuit grade 11 students to spend a week as a student researcher at a Canadian university, interacting with scientists in their research laboratories. During their week on campus the students have the opportunity to meet role models, learn about the support systems that are available to them on campus and experience the excitement of doing research. There are several participating universities across Canada, bringing together youth from all corners of the country to experience the unique learning experience the Verna J. Kirkness Science and Engineering Education program has to offer.



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