

Biology Seminar



Western
UNIVERSITY · CANADA

12:30 - 1:30 pm
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On Zoom



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Fantastic microbes and how we use them

Research in the Karas lab is focused on developing innovative genetic tools to enable the engineering of microbes to produce medicines, DNA storage technologies, food, and next-generation fuels. We are using a multi-host system to perform in vivo gene deletions, additions, and replacements. This approach was designed to take advantage of existing genetic tools developed for model organisms, including *Escherichia coli* and *Saccharomyces cerevisiae*. In my talk, I will provide an update on the newest genetic tools that we created for diatoms, wild yeasts, nitrogen-fixing soil bacteria, UV-resistant bacteria, and mollicutes.

