

Thompson Rivers University
ENVIRONMENTAL SCIENCES SEMINAR SERIES
Fall 2025

Guest speaker information

Name of guest speaker:	Jay Prakash Singh
Current affiliation:	Postdoc, TRU
Seminar date:	October 2 nd , 2025
Title of seminar:	How can soil microbiome inform mine reclamation?

Abstract: 5-8 lines in length, non-technical, written to be accessible and "catchy" to a general audience

Soil microbiome, comprising fungi, bacteria, protists, and viruses, is a crucial component of soil biota that drives critical ecosystem processes. They are sensitive to ecosystem disturbances (e.g., mining) and can be used as bioindicators to study mine reclamation and their trajectories. Advances in high-throughput sequencing have made investigating the soil microbiome at a fine resolution possible. In my research, I leverage eDNA sequencing to study changes in the soil microbiome. Coupled with other environmental parameters, the soil microbiome informs the processes that underpin mine reclamation.