



THOMPSON RIVERS UNIVERSITY

Environmental Sciences Seminar Series

FALL 2022

Name of guest speaker:	Solmaz Irani
Current affiliation:	Assistant Teaching Professor
Seminar date:	Thursday, September 29 th , 2022
Title of seminar:	Distinct responses of two ecotypes of the extremophile plant, <i>Eutrema salsugineum</i> , to low phosphate availability

Abstract:

Extremophile plants such as *Eutrema salsugineum* are emerging models for the study of how plants cope with stress. These naturally tolerant species tolerate harsh environments, while their non-extremophile close relative species cannot tolerate the same extreme environments. In my research, I compared the low phosphate availability responses between two ecotypes of *Eutrema*, Shandong and Yukon. The results indicate that tolerance to low phosphate is not a species-level trait for *Eutrema*, and the Yukon ecotype has a greater capacity for managing low phosphate, likely a reflection of adaptation to this challenge in its natural habitat.