



# THOMPSON RIVERS UNIVERSITY

## Environmental Sciences Seminar Series

**FALL 2022**

<b>Name of guest speaker:</b>	Solmaz Irani
<b>Current affiliation:</b>	Assistant Teaching Professor
<b>Seminar date:</b>	Thursday, September 29 <sup>th</sup> , 2022
<b>Title of seminar:</b>	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.