

Virtual Seminar

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11 am MT, January 14, 2026

Cellular, molecular and metabolic responses of upland and wetland plants to naphthenic acid fraction compounds and oil sands process water



Genomics Research for Optimization of Constructed Treatment Wetlands for Water Remediation



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ABSTRACT

Plants are central to reclamation and biological remediation efforts on oil sands mine sites. However, studies that describe the molecular, cellular and metabolic responses of plants to naphthenic acid fraction compounds (NAFCs) and oil sands process water have been underrepresented compared to those of microorganisms. This presentation will outline past and current research from our group that addresses some of these limitations, including the use of model and native plant species, NAFC effects on cellular membranes, and plant uptake and metabolism of NAFCs.

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