

**Science Outreach – Athabasca
presents...**

**The role of scientists in
society and the impact
of metabolomics
research**



Speaker: Kieran Tarazona Carrillo
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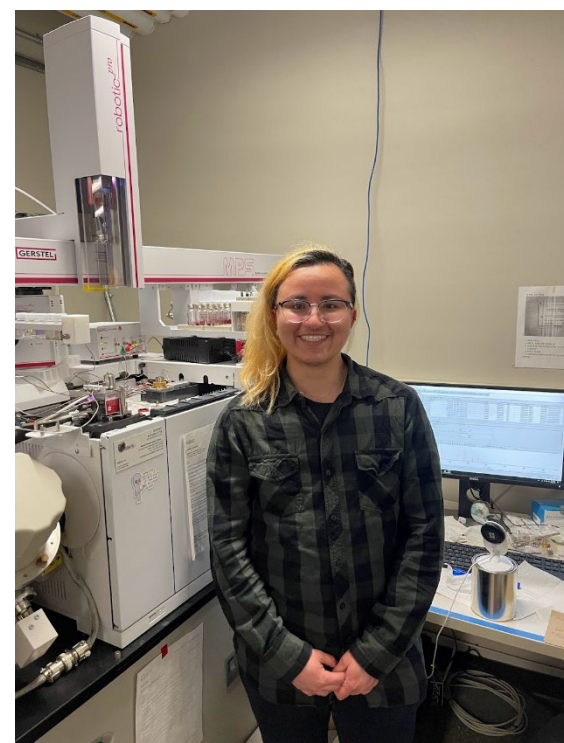
Date: Tuesday, May 3, 2022

Time: 7 PM

Please join the virtual session below:

<https://us06web.zoom.us/j/89355788497?pwd=cGtnQUc4emRwRlduOVBUOENiWHF4dz09>

Scientific research has shaped our society and ongoing research continues to inform us about the world we live in. This presentation will highlight key contributions of scientists and the role that scientists, specifically chemists such as myself, play in society. One key role is the study of metabolites, or small molecules that are the end products of metabolism, for example glucose, in a field called metabolomics. Much like genomics is the study of the genome, metabolomics research focuses on the metabolic end products. These molecules can give insight into the health of a person by looking at the compounds found in biological samples such as urine, blood, and feces. Metabolomics is also used to analyze a variety of sample types including foods and beverages, algae, etc. In the Harynuik group at the University of Alberta, where I am completing my PhD, metabolomics samples are analyzed using comprehensive two-dimensional gas chromatography (GC×GC), a powerful separation technique. I will introduce this technique in simple terms and present some results obtained using this powerful tool.



Free community event!

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