



The Royal Society of  
Tasmania  
INVITES YOU TO  
**Breaking New Ground**



PUBLIC PRESENTATIONS BY  
**University of Tasmania PhD Candidates**

This a **FREE** event, presented as part of **NATIONAL SCIENCE WEEK**

where: via **ZOOM** – Register in advance:

[https://us02web.zoom.us/webinar/register/WN\\_-RChbrUCTdS6lvML6a1QSA](https://us02web.zoom.us/webinar/register/WN_-RChbrUCTdS6lvML6a1QSA)

when: **1.30 pm Sunday 23 August**

**“Diabesity”: a new opportunity for reducing the incidence of Type 2 Diabetes in the Obesity epidemic**

Duyen Tran is a Pharmacy PhD candidate investigating the causes of insulin resistance in Type 2 Diabetes Mellitus (T2DM). Her project aims to determine whether the abnormal accumulation of toxic fats in skeletal muscles contributes to the elevation of glucose levels. Duyen’s findings will offer a novel prospective biomarker to predict the incidence of insulin resistance in the current “diabesity” (diabetes + obesity) epidemic.



**A Bumpy Road to Perfect Fruits**

Indika Fernando is attached to the Australian Research Council (ARC) Training Centre for Innovative Horticultural Products. His research is focused on understanding the compound forces that create fruit damage during the lengthy road trips from the tropical areas where they are grown to major markets in the south. He is using an experimental approach to help industry deliver the perfect bananas.



**Tidal energy is coming to Tasmania**

Christelle Auguste has a passion for renewable energy and the ocean. Her research at AMC focuses on how tidal turbines could influence sediment transport in high energetic sites. She spent 17 days at sea to collect data in Banks Strait north east of Tasmania. The aim of her PhD is to assess the sediment dynamics at tidal energy site in Australia and predict the environmental response to the extraction of energy.



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