



August 2024, Issue 5

TRIA-FoR: Transformative Risk Assessment and Forest Resilience Using Genomic Tools for the Mountain Pine Beetle Outbreak

Newsletter

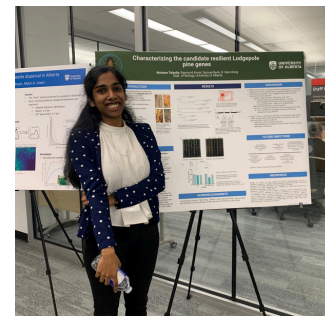


Credit: Aryn Laxton

Annual General Meeting



This May, Carleton University hosted our second in-person Annual General Meeting (AGM). The event provided a fantastic opportunity for our team to come together, collaborate, and present their research. A highlight of the AGM was our field trip to the Museum of Nature collections site, where we toured and learned about sample storage methods.

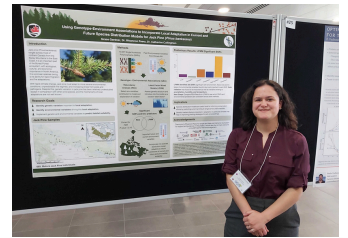
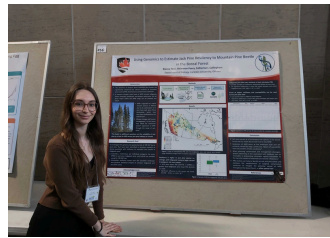
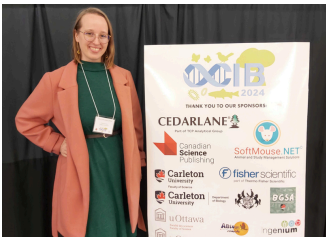


[View more of our photos here](#)

Sharing our research

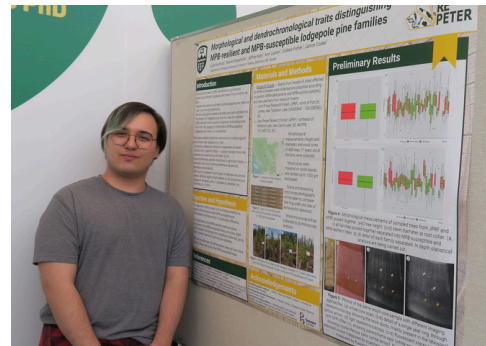
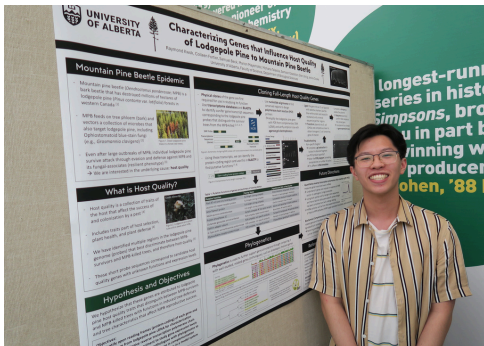
OCIB Symposium

TRIA made a notable impact at the recent Ottawa-Carleton Institute of Biology (OCIB) event, with five students presenting their research. Their work ranged from genomic analysis of MPB to evaluating the resiliency of Jack pine. The OCIB, a collaborative effort between the University of Ottawa and Carleton University, supports interdisciplinary research and partnerships between the two institutions and external collaborators.



R.E Peter Biology Conference

Lucas and Raymond made a notable contribution highlighting their research on lodgepole pine at the annual Dr. Richard E. Peter Biology Conference, hosted by the Biological Sciences Graduate Student Association.



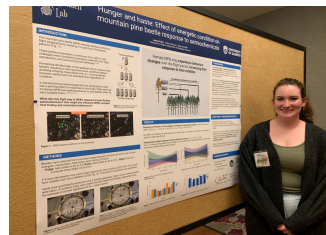
Annual Pest Management Forum

The Pest Management Forum is Canada's leading gathering of forest pest management experts, managers, and practitioners. It aims to share insights on current and future forest health, pest control efforts, environmental concerns, and new technologies for monitoring and managing forest health.



fRI Research Mountain Pine Beetle Information Forum

TRIA made a strong presence at the recent fRI Research event, where resource practitioners, policymakers, scientists, and community leaders gathered to discuss the latest findings on the mountain pine beetle. Four of our PIs presented their research, and two posters from TRIA were featured.



[See more about how we share our research here](#)

Recent Publications



The freeze-avoiding mountain pine beetle (*Dendroctonus ponderosae*) survives prolonged exposure to stressful cold by mitigating ionoregulatory collapse

Authors: MK Andersen, AD Roe, Y Liu, A Musso, S Fudlosid, F Haider, M Evenden, and HA MacMillan



Whose Authority Drives the Narrative?: Framing the Spread of Mountain Pine Beetle in Canadian News Media

Authors: J Hutchen, V Berseth, and V Nguyen



Mountain pine beetle spread in forests with varying host resistance

Authors: M Brush and MA Lewis



Evidence that Ophiostomatoid fungal symbionts of mountain pine beetle do not play a role in overcoming lodgepole pine defenses during mass attack

Authors: CE Fortier, AE Musso, ML Evenden, LI Zaharia, and JEK Cooke

[Keep up to date with publications and news here](#)

In the News



Ongoing study looks at potential threat of mountain pine beetle

Northern Pride feature with Dr. Stephan Schott and Dr. Howard Huynh

[Keep up to date with publications and news here](#)

First Nation and Land Acknowledgement

The various TRIA-FoR University researchers are based at institutions located on traditional/ancestral First Nations lands. As such, we respectfully offer these acknowledgements:

- UBC Vancouver is situated in the traditional, ancestral and unceded territory of the $x^w m \theta k^w \acute{a} y \acute{a} m$ (Musqueam).
- The University of Alberta acknowledges that it is located on Treaty 6 territory, and respects the histories, languages, and cultures of First Nations, Métis, Inuit, and all First Peoples of Canada, whose presence continues to enrich our vibrant community.
- Carleton University acknowledges the location of its campus on the traditional, unceded territories of the Algonquin nation.
- Western University acknowledges that it is located on the traditional lands of the Anishinaabek, Haudenosaunee, Lūnaapéewak and Attawandaron peoples, on lands connected with the London Township and Sombra Treaties of 1796 and the Dish with One Spoon Covenant Wampum.

Funding and Support



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