IRELYND TACKABURY

M.Sc. Student

My research focuses on the surveillance of antimicrobial resistance (AMR) in bacteria found on imported, ready-to-eat food commodities sold in Canada. We develop methods for the sensitive detection and recovery of priority AMR organisms, as designated by the World Health Organization, and focus on resistance genes within mobile genetic elements.

CONTACT

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AFFILIATIONS

- Canadian Food Inspection Agency (**CFIA**) - Research & Development (**R&D**)
- Genomics Research and Development Initiative: Antimicrobial Resistance - One Health (**GRDI-AMR-OH**)
- Natural Sciences and Engineering Research Council of Canada (**NSERC**) **CREATE** in One Health Against Pathogens (**OHAP**)
- **McGill University**

SUPERVISORS

Catherine Carrillo
- CFIA R&D (section head)
- GRDI-AMR-OH (co-lead)
- Carleton University (adjunct professor)

Jennifer Ronholm
- McGill University (professor & Canada research chair (tier 2) in agricultural microbiology)
- OHAP (program director)

EDUCATION

McGill University **2025 - Present**

M.Sc. Food Science & Agricultural Chemistry (Thesis)

- 2025 - 2026: NSERC CGS M
  - Natural Sciences and Engineering Research Council of Canada – Canada Graduate Scholarships – Master's
- 2025 - 2027: GEF
  - Graduate Excellence Fellowships
- 2025 - 2027: OHAP CREATE
  - One Health Against Pathogens trainee

Carleton University **2022 - 2025**

B.Sc. Neuroscience and Biology (Honours)

- 2022 - 2025: Dean's Honour List
- 2024: Chalmers Jack MacKenzie Scholarship
- 2023: Henry Marshall Tory Scholarship
- 2022: Carleton University Entrance Scholarship

The University of Guelph **2019 - 2021**

B.Sc. Neuroscience (Honours)

- 2019 - 2021: Dean's Honour List
- 2019: Guelph University Entrance Scholarship

PUBLICATIONS

Nasta, A., Cooper, A.L., Tackabury, I.V., Anastasiadis, C., Lau, C.H.F., Brown, L.P., Smith, M.L., Tamber, S. and Carrillo, C.D., 2025. Development and evaluation of a sensitive approach for detection and recovery of third-generation cephalosporin-and carbapenem-resistant Enterobacterales from ready-to-eat frozen stone fruit. *Canadian Journal of Microbiology*, *71*, pp.1-18.