

LAUREN TINDALE, PHD

POSTDOCTORAL FELLOW | UNIVERSITY OF BRITISH COLUMBIA

ABOUT ME

I am a postdoctoral researcher with a multidisciplinary background encompassing physiology, kinesiology, molecular biology, genetics, epidemiology, and statistics. I completed my PhD at Simon Fraser University and Canada's Michael Smith Genome Sciences Centre in 2018. My PhD research focused on genotypes and phenotypes associated with healthy aging and longevity in a healthy elderly population. After that, I did a postdoctoral fellowship at the BC Centre for Disease Control where I examined methods for avian influenza genomic detection and surveillance in the environment. My current postdoctoral research focuses on reproductive aging using risk modelling and molecular classification to improve early detection and diagnostic accuracy in gynecological cancers. During my spare time I enjoy staying active and enjoying the BC outdoors through mountain biking, rock climbing, and olympic weightlifting.

CURRENT RESEARCH

Improving epidemiological risk prediction models for endometrial cancer

Aim: to use population health databases to validate and improve epidemiological risk prediction models to identify women at high risk for endometrial cancer.

Digital self-tracking for early detection of endometrial cancer during reproductive aging

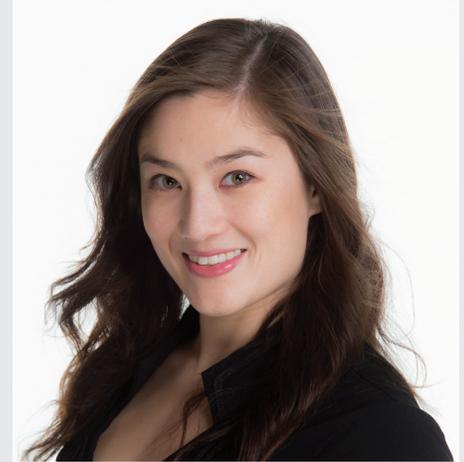
Aim: to collect a longitudinal cohort of women to examine epidemiological risk factors combined with biological, and digital self-tracked lifestyle factors, that would allow women to self-track symptoms and cancer risk as they age.

Developing a clinical ovarian cancer histotype classifier using gene expression data

Aim: to develop a molecular classifier that would rapidly and objectively classify ovarian cancer histotypes from clinical FFPE tumour samples that could be integrated into a clinical operational pipeline for improved diagnostics and better patient outcomes.

CAREER DEVELOPMENT

My PhD research focused on healthy aging in an 85+ population, and my current work focuses on female reproductive aging. During my postdoctoral fellowship I aim to start developing an independent research program that would combine my PhD and postdoctoral work, focusing on healthy aging with a particular interest in female reproductive aging.



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AFFILIATION

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GOALS FOR SPA

- Expand my analytical skill set through learning about methodologies for longitudinal health data.
- Network with researchers in the field of longitudinal and aging research.
- Increase my knowledge about what longitudinal studies and data are publicly available and how to best utilize them.
- Develop ideas for a future independent research program.