The Department of Mathematics, Statistics and Computer Science St. Francis Xavier University

presents

Occupational exposure to polycyclic aromatic hydrocarbons is associated with increased breast cancer risk

by

Derrick Lee, PhD Candidate

Department of Mathematics, Statistics and Computer Science

St. Francis Xavier University

Cancer Control Research | BC Cancer Research Centre

Monday, January 11 @ 2:15pm, Annex 23A

Recent news about processed meat causing cancer has become a major focal point in media outlets as recent, that eating your favourite hotdog is going to give you cancer. Unfortunately, the news doesn't stop there and your job may also be giving you cancer. Polycyclic aromatic hydrocarbons (PAH) are a group of chemicals that are ubiquitous in our environment and occupational exposure yields the highest intensity levels. A population-based case-control study was undertaken in British Columbia and Ontario to examine the role occupational PAH exposure has on breast cancer risk. Lifestyle data and work histories were collected on over 2,000 cases and controls and lifetime occupational histories were assessed for PAH exposure using three different metrics. The results found that being exposed to high levels of PAH in the workplace was a duration, particularly risk that increased with premenopausal women, who were almost two times more likely to develop breast cancer with prolonged exposure to PAHs.