

Save the Date



"Outdoor Radon, Uranium Particulates, and Lung Cancer"

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Date: Tuesday, October 27, 2026

Time: Noon - 1:00 PM

Room: LEC 303 or Zoom

Refreshments will be provided



Zoom



Abstract:

The health effects of environmentally relevant outdoor radon and uranium particulate exposure in community populations remain poorly understood. We evaluated associations between long-term exposure to outdoor radon and uranium particulates and lung cancer among 9,740 participants in the Fernald Community Cohort, a population residing near a former uranium-processing facility. Lung cancer cases had significantly higher radon and uranium particulate exposures than participants without lung cancer, and higher radon exposure was associated with lung adenocarcinoma. In a preliminary epigenome-wide association study, radon exposure was associated with differential DNA methylation near several tumor-suppressor and cancer-related genes. These findings suggest that environmental radon and uranium particulate exposure may contribute to lung cancer risk and may influence epigenetic pathways involved in carcinogenesis.