

# ENVIRONMENTAL HEALTH RESEARCH SCAN

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<p><b><u>AIR QUALITY</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Indoor air</a></li> <li>• <a href="#">Outdoor air</a></li> <li>• <a href="#">Radon, Other</a></li> </ul>	<p><b><u>CLIMATE CHANGE</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Extreme weather</a></li> <li>• <a href="#">Flooding</a></li> <li>• <a href="#">Sea level rise</a></li> <li>• <a href="#">Wildfires, Other</a></li> </ul>	<p><b><u>DISEASES, VECTORS, PESTS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">COVID-19</a></li> <li>• <a href="#">Animal vectors</a></li> <li>• <a href="#">Insect vectors</a></li> <li>• <a href="#">Pests, Other</a></li> </ul>
<p><b><u>FOOD</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Food safety</a></li> <li>• <a href="#">Food security</a></li> <li>• <a href="#">Growing food, Other</a></li> </ul>	<p><b><u>BUILT ENVIRONMENT</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Green&amp; blue spaces</a></li> <li>• <a href="#">Housing</a></li> <li>• <a href="#">Noise</a></li> <li>• <a href="#">Planning &amp; design</a></li> <li>• <a href="#">Transportation, Other</a></li> </ul>	<p><b><u>PUBLIC HEALTH FUNDAMENTALS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Communication</a></li> <li>• <a href="#">Health promotion</a></li> <li>• <a href="#">Health impact assessment</a></li> <li>• <a href="#">Health equity</a></li> <li>• <a href="#">One Health, Other</a></li> </ul>
<p><b><u>WATER</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Drinking water</a></li> <li>• <a href="#">Recreational water</a></li> <li>• <a href="#">Small water systems</a></li> <li>• <a href="#">Wastewater, Other</a></li> </ul>	<p><b><u>NON-CLIMATE RELATED DISASTERS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Earthquakes</a></li> <li>• <a href="#">Marine</a></li> <li>• <a href="#">Terrestrial, Other</a></li> </ul>	<p><b><u>OTHER TOPICS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Cannabis products</a></li> <li>• <a href="#">Tobacco, nicotine products</a></li> <li>• <a href="#">Ionizing, non-ionizing radiation</a></li> <li>• <a href="#">Personal services establishments, Other</a></li> </ul>
<p><b><u>SPECIFIC POPULATIONS</u></b> (<a href="#">children</a>, <a href="#">Indigenous Peoples</a>, <a href="#">older adults</a>, <a href="#">other</a>)</p>		

*Environmental Health (EH) Research Scan: Aims and scope*

NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with [NCCEH's vision](#) to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases. Not all links are open access; some are abstract links where paid journal subscription is required.

## EDITOR PICKS

Enhancing wildfire smoke exposure assessment: a machine learning approach to predict indoor PM<sub>2.5</sub> in British Columbia, Canada [journal article].

Eric Coker, BC Centre for Disease Control, and co-authors



*“Study results suggest that population-scale indoor PM<sub>2.5</sub> exposure assessment is feasible for wildfire smoke epidemiology research, and that using outdoor estimates may bias the true relationship toward the null.”*

Food environments [subject guide].

National Collaborating Centre for Environmental Health

*“...This collection of resources:*

- *Introduces the concept of healthy food environments and how they pertain to public health and environmental health practice*
- *Includes tools for measuring local food environments, and planning and implementing appropriate interventions*
- *Provides an overview of the current state of food environments in Canada*



Fermented food safety guidance: a new resource for public health practitioners [blog].

*“The Fermented Foods Safety Guidance website includes an introduction to fermented foods and an overview of how fermented foods are described by substrate, fermenting agent, or end-product....” more*



Avian influenza [subject guide].

National Collaborating Centre for Environmental Health

- *The resources listed here are intended to assist environmental public health practitioners to identify **where** the virus is being detected, **how** the virus is transmitted, and **the public health measures** that can help reduce transmission.*



How public health professionals can help reduce radon risk in Canada [webinar]. Nov 28, 2024

David McVea and Anne-Marie Nicol

*This presentation provides an overview of this community-engaged radon work and the steps that are effective for increasing radon awareness and testing rates. The presentation also explores how the data collected from community based work can be integrated into public health policy and practice using the BC Radon Repository and Map as an example.*



## ENVIRONMENTAL HEALTH RESEARCH SCAN

### SELECTED RESOURCES

1. Coker ES, Ho W, Paul N, Lee MJ, Dickson JM, Greif O, et al. **Enhancing wildfire smoke exposure assessment: a machine learning approach to predict indoor PM2.5 in British Columbia, Canada.** ACS ES&T Air. 2024. Available from: <https://doi.org/10.1021/acsestair.4c00204>.
2. James K. **Fermented foods safety guidance: a new resource for public health practitioners - updated - Starter cultures & fermented food standards [blog].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Nov 15. Available from: <https://ncceh.ca/resources/blog/fermented-foods-safety-guidance-new-resource-public-health-practitioners>.
3. McVea D, Nicol A-M. **How public health professionals can help reduce radon risk in Canada [webinar].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Nov 28. Available from: <https://ncceh.ca/events/upcoming-webinars/how-public-health-professionals-can-help-reduce-radon-risk-canada>.
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### 1. AIR QUALITY

#### INDOOR AIR

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## 2. FOOD

### FOOD SAFETY

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### 3. WATER

#### DRINKING WATER

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#### SMALL WATER SYSTEMS

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## 4. CLIMATE CHANGE

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