

ENVIRONMENTAL HEALTH RESEARCH SCAN

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<p><u>AIR QUALITY</u></p> <ul style="list-style-type: none"> • Indoor air • Outdoor air • Radon, Other 	<p><u>CLIMATE CHANGE</u></p> <ul style="list-style-type: none"> • Extreme weather • Flooding • Sea level rise • Wildfires, Other 	<p><u>DISEASES, VECTORS, PESTS</u></p> <ul style="list-style-type: none"> • COVID-19 • Animal vectors • Insect vectors • Pests, Other
<p><u>FOOD</u></p> <ul style="list-style-type: none"> • Food safety • Food security • Growing food, Other 	<p><u>BUILT ENVIRONMENT</u></p> <ul style="list-style-type: none"> • Green & blue spaces • Housing • Noise • Planning & design • Transportation, Other 	<p><u>PUBLIC HEALTH FUNDAMENTALS</u></p> <ul style="list-style-type: none"> • Communication • Health promotion • Health impact assessment • Health equity • One Health, Other
<p><u>WATER</u></p> <ul style="list-style-type: none"> • Drinking water • Recreational water • Small water systems • Wastewater, Other 	<p><u>NON-CLIMATE RELATED DISASTERS</u></p> <ul style="list-style-type: none"> • Earthquakes • Marine • Terrestrial, Other 	<p><u>OTHER TOPICS</u></p> <ul style="list-style-type: none"> • Cannabis products • Tobacco, nicotine products • Ionizing, non-ionizing radiation • Personal services establishments, Other
<p><u>SPECIFIC POPULATIONS</u> (children, Indigenous Peoples, older adults, other)</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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Water storage and emerging challenges in a changing climate [evidence review].

Juliette O’Keeffe, Knowledge Translation Scientist, NCCEH

“This review provides an overview of the environmental public health hazards related to water storage and key considerations for maintaining safe water supplies in a changing climate.”



A review of biogenic amines in fermented foods: Occurrence and health effects [journal article].

Nikita Saha Turna, Environmental Health Services, BCCDC, and co-authors

“In this review, we highlight the health risks and symptoms linked to biogenic amines (BA) exposures, the BA levels found in different fermented foods, regulatory and suggested toxic doses, and risk mitigation strategies to inform food industry and public health professionals' practice.”



The health risks of marine biotoxins associated with high seafood consumption: Looking beyond the single dose, single outcome paradigm with a view towards addressing the needs of coastal Indigenous populations in British Columbia [journal article].

Sarah B Henderson, Scientific Director, Environmental Health Services, BCCDC and the National Collaborating Centre for Environmental Health (NCCEH), and co-authors

“Overall, we conclude that there is a need to move beyond the single-dose single-outcome model of exposure to better serve Indigenous communities and others who consume high...”



Climate change, landscape fires, and human health: a global perspective [journal article].

Fay H Johnston, Medical Doctor, University of Tasmania, and co-authors

“Minimizing the adverse effects of landscape fires on population health requires understanding how human and environmental influences on fire impacts can be modified through interventions targeted at individual, community, and regional levels.”



Estimates of global mortality burden associated with short-term exposure to fine particulate matter (PM_{2.5}) [journal article].

Wenhua Yu, PhD candidate, Monash University, and co-authors

“Our results highlight the importance of mitigation strategies to reduce short-term exposure to air pollution and its adverse effects on human health.”



Climate change and health: rethinking public health messaging for wildfire smoke and extreme heat co-exposures [journal article].

Eric Coker, Environmental Health Scientist, BCCDC, and co-authors

“More precise, complete, and coordinated public health messaging would protect against climate-sensitive health outcomes attributable to wildfire smoke and extreme heat co-exposures.”



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SELECTED PUBLICATIONS

1. Saha Turna N, Chung R, McIntyre L. **A review of biogenic amines in fermented foods: Occurrence and health effects.** Heliyon. 2024 01 30;10(2):e24501. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/38304783>.
2. National Collaborating Centre for Environmental Health. **NCCEH eNews (February 2024): The importance of collaborative foodborne illness outbreak investigations; more...** Vancouver, BC: NCCEH; 2024 02 22 Feb 22. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=qPQGJZn3x7_X4GMDTsu3w-gb4GZDyWcO8dhI8x2bKns9w23bUDG5JoeUxPho6MiE9zr2FoAtJZrr4GVzoJ7kUQ~~.
3. National Collaborating Centre for Environmental Health. **February research scan.** Vancouver, BC: NCCEH; 2024 02 22 Feb 22. Available from: <https://ncceh.ca/sites/default/files/2024-02/NCCEH%20Research%20Scan%20-202402.pdf>.
4. Yu W, Xu R, Ye T, Abramson MJ, Morawska L, Jalaludin B, et al. **Estimates of global mortality burden associated with short-term exposure to fine particulate matter (PM2.5).** The Lancet Planetary Health. 2024 03 01;8(3):e146-e55. Available from: [https://doi.org/10.1016/S2542-5196\(24\)00003-2](https://doi.org/10.1016/S2542-5196(24)00003-2).
5. Lee MJ, Henderson SB, Clermont H, Turna NS, McIntyre L. **The health risks of marine biotoxins associated with high seafood consumption: Looking beyond the single dose, single outcome paradigm with a view towards addressing the needs of coastal Indigenous populations in British Columbia.** Heliyon. 2024 03 02. Available from: [https://www.cell.com/heliyon/pdf/S2405-8440\(24\)03177-3.pdf](https://www.cell.com/heliyon/pdf/S2405-8440(24)03177-3.pdf).
6. O’Keeffe J. **Water storage and emerging challenges in a changing climate [evidence review].** 2024 03 08 Mar 8. Available from: <https://ncceh.ca/resources/evidence-reviews/water-storage-and-emerging-challenges-changing-climate>.
7. Coker ES, Stone SL, Mctigue E, Yao JA, Brigham EP, Schwandt M, Henderson SB. **Climate change and health: rethinking public health messaging for wildfire smoke and extreme heat co-exposures.** Frontiers. 2024 03 16. Available from: <https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2024.1324662/abstract>.

1. AIR QUALITY

INDOOR AIR

1. Fauzi HN, Al-Athas SI, Rini JA. **Potential Pollutants and Indoor Air Quality Variables Association towards Implementation of the Breathing Architecture Concept: A Review.** IOP Conference Series: Earth and Environmental Science. 2024;1301(1):012011. Available from: <https://dx.doi.org/10.1088/1755-1315/1301/1/012011>.
2. Hon C-Y, Agababova M. **Pilot study: Occupational and public health consequences of elevated temperatures in restaurant kitchens.** Environ Health Rev. 2024;67(1):11-6. Available from: <https://pubs.ciphi.ca/doi/abs/10.5864/d2024-004>.
3. Martinez G, Zhu J, Takser L, Baccarelli AA, Bellenger J-P. **Indoor environment, physiological factors, and diet as predictors of halogenated flame retardant levels in stool and plasma of children from a Canadian cohort.** Chemosphere. 2024;352. Available from: <https://doi.org/10.1016/j.chemosphere.2024.141443>.
4. Nassikas NJ, McCormack MC, Ewart G, Balmes JR, Bond TC, Brigham E, et al. **Indoor Air Sources of Outdoor Air Pollution: Health Consequences, Policy, and Recommendations: An Official American Thoracic Society Workshop Report.** Annals of the American Thoracic Society. 2024;21(3):365-76. Available from: <https://www.atsjournals.org/doi/abs/10.1513/AnnalsATS.202312-1067ST>.
5. Ragoowansi J, Leary SC. **Health Effects of Mold.** Pediatr Rev. 2024;45(3):172-4. Available from: <https://doi.org/10.1542/pir.2022-005769>.
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9. Zhao J, Uhde E, Salthammer T, Antretter F, Shaw D, Carslaw N, Schieweck A. **Long-term prediction of the effects of climate change on indoor climate and air quality.** Environ Res. 2024;243:117804. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935123026087>.

OUTDOOR AIR

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2. FOOD

FOOD SAFETY

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GROWING FOOD, OTHER

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3. WATER

DRINKING WATER

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RECREATIONAL WATER

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WASTEWATER, OTHER

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4. CLIMATE CHANGE

EXTREME WEATHER

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SEA LEVEL RISE

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WILDFIRES, OTHER

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