2023 EH Scan



# **ENVIRONMENTAL HEALTH RESEARCH SCAN**

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<ul> <li>AIR QUALITY</li> <li>Indoor air</li> <li>Outdoor air</li> <li>Radon, Other</li> </ul>	<ul> <li>CLIMATE CHANGE</li> <li>Extreme weather</li> <li>Flooding</li> <li>Sea level rise</li> <li>Wildfires, Other</li> </ul>	<ul> <li>DISEASES, VECTORS, PESTS</li> <li>COVID-19</li> <li>Animal vectors</li> <li>Insect vectors</li> <li>Pests, Other</li> </ul>
<ul> <li>FOOD</li> <li>Food safety</li> <li>Food security</li> <li>Growing food, Other</li> </ul>	<ul> <li>BUILT ENVIRONMENT</li> <li>Green&amp; blue spaces</li> <li>Housing</li> <li>Noise</li> <li>Planning &amp; design</li> <li>Transportation, Other</li> </ul>	PUBLIC HEALTH FUNDAMENTALS  Communication Health promotion Health impact assessment Health equity One Health, Other
<ul> <li>WATER</li> <li>Drinking water</li> <li>Recreational water</li> <li>Small water systems</li> <li>Wastewater, Other</li> </ul>	NON-CLIMATE RELATED DISASTERS  Earthquakes Marine Terrestrial, Other	OTHER TOPICS  Cannabis products  Tobacco, nicotine products  Ionizing, non-ionizing radiation  Personal services establishments, Other
SPECIFIC POPULATIONS (children, Indigenous Peoples, older adults, other)		

#### 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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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**

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

Kelsey James

"Fermented food safety is a shared challenge for many public health practitioners across Canada. While many of these foods are generally safe, emerging fermentation trends such as the selling of fermented foods at farmers' markets or the preparation of fermented foods at food premises, may exacerbate food safety risks..." more



# Fermented foods safety guidance.

BC Centre for Disease Control

Best practices for a variety of fermented foods will assist food safety staff (health inspectors) with evaluating the safety of fermented foods and fermentation processes encountered during inspections [...] A national working group of health inspectors, food safety specialists, and industry fermentation experts worked together to create guidance on fermented foods. Each fermented food review includes:

- background on the food,
- a description of the food preparation,
- a food flow chart,
- a review of the potential issues with the food preparation, and
- food safety control points.



# Can we reduce inevitable exposures to chemicals of concern? [webinar] Miriam L Diamond – Oct 25, 2023, 12:00-1:00 PT

Dr. Diamond will present four reasons for, and offer five solutions to redress this failure of chemicals management, ranging from promoting hazard and not risk assessment, to putting a hard cap on chemical production.



# Climate Ready BC.

Government of British Columbia

"ClimateReadyBC is a new approach from the B.C. government to learn lessons from past emergencies; address disaster and climate risk; build capacity and resilience...



# September research scan [blog].

National Collaborating Centre for Environmental Health

This monthly Research Scan highlights recent environmental health publications by topic and provides easy access to article abstracts and report summaries to support public health professionals, researchers, planners, students, and others working in public health.





NCCEH eNews (September 2023): Urban rewilding and public health considerations; more...



National Collaborating Centre for Environmental Health

This monthly eNews highlights recent environmental health publications, research scans, webinars and other events and resources.

# ENVIRONMENTAL HEALTH RESEARCH SCAN

# **SELECTED PUBLICATIONS**

- Diamond ML. Can we reduce inevitable exposures to chemicals of concern? [webinar]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Oct 25. Available from: <a href="https://ncceh.ca/events/upcoming-webinars/can-we-reduce-inevitable-exposures-chemicals-concern">https://ncceh.ca/events/upcoming-webinars/can-we-reduce-inevitable-exposures-chemicals-concern</a>.
- James K. Fermented foods safety guidance: A new resource for public health practitioners [blog].
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# AIR QUALITY

# **INDOOR AIR**

- Pertegal V, Riquelme E, Lozano-Serra J, Cañizares P, Rodrigo MA, Sáez C, Lacasa E. Cleaning technologies integrated in duct flows for the inactivation of pathogenic microorganisms in indoor environments: A critical review of recent innovations and future challenges. J Environ Manage. 2023;345. Available from: <a href="https://doi.org/10.1016/j.jenvman.2023.118798">https://doi.org/10.1016/j.jenvman.2023.118798</a>.
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- 3. US Environmental Protection Agency. Schools as cleaner air and cooling centers: tips for facility managers, principals, teachers, and parents and caregivers. Washington, DC: US EPA; 2023 [updated Sep 19]; Available from: https://www.epa.gov/schools/schools-cleaner-air-and-



cooling-centers-tips-facility-managers-principals-teachersand?utm\_content=&utm\_medium=email&utm\_name=&utm\_source=govdelivery&utm\_term=# Factsheets.

#### **OUTDOOR AIR**

- Sidney BT, Chandras S, Campbell SM, Salma J, Yamamoto SS. Health-related impacts of climate change and air pollution on older adult, child, and adolescent immigrants and refugees globally: a scoping review. J Public Health. 2023. Available from: https://doi.org/10.1007/s10389-023-02103-z.
- Tran HM, Tsai F-J, Lee Y-L, Chang J-H, Chang L-T, Chang T-Y, et al. The impact of air pollution on respiratory diseases in an era of climate change: A review of the current evidence. Sci Total Environ. 2023;898:166340. Available from: https://www.sciencedirect.com/science/article/pii/S0048969723049653.
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RADON, OTHER

1. BC Lung Foundation. **Radon Detector Library Lending Program**. Vancouver, BC: BC Lung Foundation; 2023; Available from: <a href="https://bclung.ca/radon-detector-library-lending-program">https://bclung.ca/radon-detector-library-lending-program</a>.

# 2. FOOD

#### **FOOD SAFETY**

- British Columbia Centre for Disease Control. Fermented foods safety guidance Vancouver, BC: BCCDC; 2023. Available from: <a href="http://www.bccdc.ca/health-professionals/professional-resources/fermented-foods">http://www.bccdc.ca/health-professionals/professional-resources/fermented-foods</a>.
- Fatemi M, Niyyati M, Rouhani S, Karamati SA, Mirjalali H, Karanis P. Contamination of fresh vegetables in municipal stores with pathogenic Acanthamoeba genotypes; a public health concern. Int J Environ Health Res. 2023;33(10):1010-21. Available from: <a href="https://doi.org/10.1080/09603123.2022.2067328">https://doi.org/10.1080/09603123.2022.2067328</a>.
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- Raut R, Maharjan P, Fouladkhah AC. Practical preventive considerations for reducing the public health burden of poultry-related salmonellosis. Int J Environ Res Public Health. 2023;20(17):6654. Available from: https://www.mdpi.com/1660-4601/20/17/6654.
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# **FOOD SECURITY**

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# GROWING FOOD, OTHER

Canadian Agri-Food Policy Institute. Canadian agri-food resilience: a toolbox for managing crises.
 Ottawa, ON: Canadian Agri-Food Policy Institute; 2023 Sep. Available from: <a href="https://capi-icpa.ca/wp-content/uploads/2023/09/2023-09-13-Canadian-Agri-Food-Resilience-CAPI-EN.pdf">https://capi-icpa.ca/wp-content/uploads/2023/09/2023-09-13-Canadian-Agri-Food-Resilience-CAPI-EN.pdf</a>.

# 3. WATER

#### **DRINKING WATER**

- 1. Hile TD, Dunbar SG, Sinclair RG. Microbial contamination analysis of drinking water from bulk dispensers and fast-food restaurants in the Eastern Coachella Valley, California. Water Supply. 2023;23(9):3578-96. Available from: https://doi.org/10.2166/ws.2023.200.
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- 3. Levin R, Villanueva CM, Beene D, Cradock AL, Donat-Vargas C, Lewis J, et al. **US drinking water** quality: exposure risk profiles for seven legacy and emerging contaminants. J Expo Sci Environ Epidemiol. 2023. Available from: https://doi.org/10.1038/s41370-023-00597-z.
- 4. Ontario Agency for Health Protection and Promotion (Public Health Ontario). Per-and poly-fluoroalkyl substances (PFAS). Toronto, ON: PHO; 2023 May. Available from: <a href="https://www.publichealthontario.ca/-/media/Documents/P/2023/pfas-per-poly-fluoroalkyl-substances.pdf?rev=69beeade3f0949ee9b089bb2ee36b3e3&sc-lang=en.">https://www.publichealthontario.ca/-/media/Documents/P/2023/pfas-per-poly-fluoroalkyl-substances.pdf?rev=69beeade3f0949ee9b089bb2ee36b3e3&sc-lang=en.</a>



- US Environmental Protection Agency. Per- and Polyfluoroalkyl Substances (PFAS). Proposed PFAS
   National Primary Drinking Water Regulation. Washington, DC: US EPA; 2023 [updated 2023 Sep 22]; Available from: https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas.
- 6. Walkteron Clean Water Centre. **Impact of wildfires on drinking water sources**. Walkerton, ON: Walkerton Clean Water Centre; 2023 [updated 2023 Jun 6]; Available from: https://wcwc.ca/dwrl/impact-of-wildfires-on-drinking-water-sources/.
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#### RECREATIONAL WATER

- Erratt KJ, Creed IF, Lobb DA, Smol JP, Trick CG. Climate change amplifies the risk of potentially toxigenic cyanobacteria. Global Change Biology. 2023;29(18):5240-9. Available from: <a href="https://onlinelibrary.wiley.com/doi/abs/10.1111/gcb.16838">https://onlinelibrary.wiley.com/doi/abs/10.1111/gcb.16838</a>.
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#### **SMALL WATER SYSTEMS**

1. Wiebe AJ, McKenzie JM, Hamel E, Rudolph DL, Mulligan B, de Grandpré I. **Groundwater vulnerability in the Yukon and Northwest Territories, Canada**. Hydrogeology Journal. 2023. Available from: <a href="https://doi.org/10.1007/s10040-023-02720-8">https://doi.org/10.1007/s10040-023-02720-8</a>.

# WASTEWATER, OTHER

- 1. Centre for Health Informatics. **The COVID-19 response. Alberta wastewater**. Calgary, AB: University of Calgary; 2023. Available from: <a href="https://covid-tracker.chi-csm.ca/">https://covid-tracker.chi-csm.ca/</a>.
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# CLIMATE CHANGE

# **EXTREME WEATHER**

- C40 Cities. Cities taking action to address health, equity and climate risks. C40 Cities; 2023 Oct 16.
   Available from: <a href="https://www.c40.org/news/cities-taking-action-to-address-health-equity-and-climate-risks/">https://www.c40.org/news/cities-taking-action-to-address-health-equity-and-climate-risks/</a>.
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- 9. Richmond JG, Hill R. **Rethinking local resilience for extreme heat events**. Public Health. 2023;218:146-8. Available from: https://www.sciencedirect.com/science/article/pii/S0033350623000872.
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**FLOODING** 



#### **SEA LEVEL RISE**

 Logan TM, Anderson MJ, Reilly AC. Risk of isolation increases the expected burden from sea-level rise. Nature Climate Change. 2023;13(4):397-402. Available from: https://doi.org/10.1038/s41558-023-01642-3.

WILDFIRES, OTHER

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# 5. BUILT ENVIRONMENT

**GREEN & BLUE SPACES** 

- 1. Pasanen TP, White MP, Elliott LR, van den Bosch M, Bratman GN, Ojala A, et al. **Urban green space** and mental health among people living alone: The mediating roles of relational and collective restoration in an 18-country sample. Environ Res. 2023;232:116324. Available from: https://www.sciencedirect.com/science/article/pii/S0013935123011283.
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**HOUSING** 

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NOISE, other

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#### PLANNING & DESIGN

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- 2. Rashidfarokhi A, Danivska V. **Managing crises 'together': how can the built environment contribute to social resilience?** Building Res Inform. 2023;51(7):747-63. Available from: https://doi.org/10.1080/09613218.2023.2191922.

# TRANSPORTATION, OTHER

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# 6. NON-CLIMATE RELATED DISASTERS

#### **EARTHQUAKES**

1. Pratiti R. An Ecological Approach to Disaster Mitigation: A Literature Review. Cureus. 2023;15(9). Available from: <a href="https://www.cureus.com/articles/156318-an-ecological-approach-to-disaster-mitigation-a-literature-review#!/">https://www.cureus.com/articles/156318-an-ecological-approach-to-disaster-mitigation-a-literature-review#!/</a>.

**MARINE** 

TERRESTRIAL, OTHER

# 7. DISEASES, VECTORS, PESTS



# COVID-19, Infectious Diseases General

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