

samples of biological hazards

Biological hazards refer to biological substances that can pose a threat to human health or the environment. Here are some examples of biological hazards:

1. Pathogenic Microorganisms: Bacteria, viruses, fungi, and other microorganisms that can cause diseases in humans or animals. Examples include Escherichia coli (E. coli), Salmonella, HIV, Influenza virus, and Tuberculosis bacteria.¹⁾
2. Toxins and Venoms: Substances produced by certain organisms that can cause harm or illness. Examples include snake venom, botulinum toxin produced by Clostridium botulinum bacteria, and mycotoxins produced by molds.²⁾
3. Biological Waste: Waste materials from biological sources, such as blood, bodily fluids, tissues, or laboratory specimens, which may contain infectious agents or harmful substances.³⁾
4. Allergens: Substances that can trigger allergic reactions in susceptible individuals. Examples include pollen, dust mites, certain foods (e.g., peanuts, shellfish), and animal dander.⁴⁾
5. Biological Agents Used in Biowarfare or Bioterrorism: Certain pathogens or toxins that can be intentionally used to cause harm or terror, such as anthrax, smallpox, or ricin toxin.⁵⁾
6. Zoonotic Diseases: Diseases that can be transmitted between animals and humans. Examples include rabies, avian influenza (bird flu), and Lyme disease.⁶⁾
7. Biological Contaminants in Food: Microorganisms or toxins that can contaminate food and cause foodborne illnesses. Examples include Salmonella, Campylobacter, and Staphylococcus aureus.⁷⁾

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<https://www.who.int/health-topics/>

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"The Venomous Reptiles of the Western Hemisphere" by Jonathan A. Campbell and William W. Lamar. Published by Cornell University Press, 2004.

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"Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" by the Centers for Disease Control and Prevention (CDC). Published in 2012.

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"Allergens and Allergen Immunotherapy: Subcutaneous, Sublingual, and Oral" by Richard F. Lockey and Dennis K. Ledford. Published by CRC Press, 2013.

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"The Demon in the Freezer: A True Story" by Richard Preston. Published by Random House, 2002.

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"Zoonoses: Infectious Diseases Transmissible from Animals to Humans" by J.S. Mackenzie, D.J. Jeggo, P.D. Daszak, J.E. Richt, and W.B. Karesh. Published by ASM Press, 2017

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"Food Microbiology: Fundamentals and Frontiers" by Michael P. Doyle and Robert L. Buchanan. Published by ASM Press, 2012.