

Special Issue

Pharmaceutical Pollution in Aquatic Ecosystems: Public Health Risks and Sustainable Solutions

Message from the Guest Editor

As active pharmaceutical ingredients (APIs) increasingly contaminate rivers, lakes, and groundwater via wastewater, agricultural runoff, and improper waste disposal. Their presence poses direct threats to public health, disease prevention, and community well-being. This Issue seeks research that bridges environmental science and health protection, offering actionable strategies to mitigate risks. We welcome original studies, reviews, and case studies that explore

- Pharmaceutical waste streams in wastewater and their environmental fate;
- Cost-effective technologies for API removal in water treatment, with evidence of health risk reduction;
- Circular economy approaches for reducing drug pollution from solid waste;
- Advanced treatment technologies for pharmaceutical contaminants in waste-derived effluents;
- Regulatory gaps and extended producer responsibility (EPR) schemes for medication disposal;

This interdisciplinary call targets researchers in public health, environmental medicine, ecotoxicology, and water engineering. Submissions must explicitly connect findings to health promotion, disease prevention, or quality-of-life improvements, aligning with the journal's mission.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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