

Editorial Note

Advancing Public Health Through Environmental Insight: Emerging Trends and Current Research

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Article Info



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Keywords: *Public Health, Environmental*

Received: 15.11.2025

Accepted: 18.11.2025

Published: 20.11.2025

Public health and environmental research continue to converge as global communities face complex and evolving challenges. This issue of the Journal of Public Health and Environmental Research brings together studies that reflect cutting-edge advancements, urgent public health concerns, and innovative environmental monitoring approaches.

Recent work on air pollution and climate-linked hazards highlights how extreme weather events and wildfire smoke are reshaping global exposure patterns, driving increases in respiratory and cardiovascular risks. Meanwhile, new AI-driven health risk prediction models are emerging, offering the potential for more personalized and timely interventions for vulnerable populations.

The expanding field of geo-health demonstrates how climate variables can be integrated with epidemiological data to forecast disease outbreaks. New datasets and predictive models are supporting decision-makers in tracking vector-borne diseases such as dengue, malaria, and chikungunya with unprecedented accuracy.

Attention is also growing toward emerging environmental contaminants, including microplastics and persistent chemicals. These challenges underscore the need for a One Health approach that views human health, ecological balance, and environmental safety as interconnected and inseparable.

Public health professionals globally are increasingly recognizing climate resilience, environmental awareness, and community adaptation as core elements of modern health systems. This shift signals a promising direction toward preventive, equitable, and sustainability-focused public health strategies.

As we present this issue, we extend our gratitude to the authors, reviewers, and scientific community whose contributions continue to deepen our understanding of these critical domains. We hope the research featured here inspires greater collaboration and action toward building healthier societies and sustainable environments.

— Editorial Team

Journal of Public Health and Environmental Research