

Special Issue

Emerging and Reemerging Zoonotic Diseases: From Past Lessons to Future Preparedness

Message from the Guest Editor

Zoonosis denotes any disease or infection naturally transmissible from vertebrate animals to humans. Notably, its hazards are being amplified by global ecological upheaval. Pathogens that once circulated quietly in wildlife reservoirs now breach species barriers with accelerating frequency, propelled by climate shifts, habitat fragmentation, and intensified livestock production. This Special Issue, “Emerging and Reemerging Zoonotic Diseases: From Past Lessons to Future Preparedness,” interrogates these networks across historical, contemporary, and predictive dimensions. We invite research that deciphers past spillover events through archaeological, archival, and genomic reconstructions; elucidates molecular mechanisms driving host jumps; maps land-use and climate drivers of current hotspots; and evaluates One Health governance, AI-driven surveillance, and vaccine innovations. By integrating virology, ecology, veterinary science, social sciences, and Indigenous knowledge, the collection aims to translate retrospective insight into anticipatory, equitable, and climate-resilient strategies that safeguard both human and planetary health.

Guest Editor

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Message from the Editor-in-Chief

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