## **Special Issue**

## Molecular Insights into Pathogen Dynamics: Enhancing One Health Surveillance

## Message from the Guest Editors

This Special Issue seeks to bring together research employing a variety of methodologies, including molecular omics (genomics, proteomics, metabolomics), wet lab experiments, and phenotypic analyses, to explore the transmission, evolution, and adaptation of pathogens. We welcome original research articles, reviews, and case studies that enhance disease surveillance, facilitate early detection of emerging threats, and inform targeted interventions across the One Health spectrum. We are particularly interested in studies focusing on a wide range of pathogens that impact human and animal health, as well as environmental ecosystems. This includes, but is not limited to, bacterial, viral, fungal, and parasitic pathogens. Research on zoonotic diseases, antimicrobial resistance, emerging and re-emerging infectious agents, and vector-borne diseases is especially encouraged. Contributions that examine the interplay between pathogens and hosts or the environment, and those that offer insights into crossspecies transmission and environmental reservoirs, are highly welcome.

#### **Guest Editors**

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## Deadline for manuscript submissions

20 September 2025



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## Message from the Editor-in-Chief

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### **Editor-in-Chief**

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