

Special Issue

Emerging Trends of Infectious Diseases in Canada

Message from the Guest Editor

Emerging trends in infectious diseases in Canada are shaped by climate change, global travel, livestock and wildlife interactions, and rising antimicrobial resistance. Increased temperatures and altered ecosystems have expanded vector-borne diseases such as Lyme disease, anaplasmosis, and West Nile virus. Urbanization complicates interactions among humans, livestock, and insect vectors. The resurgence of vaccine-preventable diseases like measles and pertussis underscores the need for strong immunization programs amid vaccine hesitancy. The COVID-19 pandemic highlighted the necessity of robust public health infrastructure for managing novel pathogens, with genomic surveillance and advanced diagnostics improving outbreak responses. Additionally, the opioid crisis and healthcare disruptions have increased bloodborne infections like HIV, hepatitis C, and tuberculosis among vulnerable groups. Canada's multicultural society requires tailored public health strategies to address diverse needs. Ongoing research, active surveillance, and interdisciplinary collaboration are vital for mitigating the impact of these emerging infectious diseases.

Guest Editor

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