

Special Issue

Aerosol Transmission of Viral Disease

Message from the Guest Editors

The study of airborne microorganisms and the role they play in human health and disease has been a field of research for many decades. The recent COVID-19 pandemic has spurred a large interest in the specific role of infectious aerosol particles in the transmission of airborne diseases. Viral aerosols are responsible for the transmission of several human diseases, including measles, smallpox, coronaviruses, and influenza, as well as diseases of plants and non-human animals.

Anthropogenic activities such as improper ventilation, gathering in close quarters, and HVAC can impact the transport and infectivity of these aerosols from person-to-person creating avenues for the spread of disease in the built environment, and both indoor and outdoor air quality may impact both the stability of viral aerosols and the susceptibility of the host. In this Special Issue, we highlight new developments in understanding the role of viral aerosols in viral transport and transmission and prevention of future pandemics.

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