Modeling Viral Diseases and Pandemics for Improved Medical Treatments and Public Health Policies

Guest Editor:

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Message from the Guest Editor

The COVID-19 pandemic has highlighted the need for accurately analyzing disease propagation both locally and globally, as well as the need for a close partnership between science, medicine, and public policy. One of the critical challenges that the ongoing pandemic has illustrated is that tracking and forecasting the evolution of a viral disease is particularly challenging in the modern era, where there is increased societal dependence on domestic and global travel for trade and commerce. Further complicating the challenge is the fact that viral diseases are prone to mutational evolution, with the initial disease often leading to distinct variants possessing uniquely different disease properties and resistance profiles.

The purpose of the *IJERPH* Special Issue on "Modeling Viral Diseases and Pandemics for Improved Medical Treatments and Public Health Policies" is to serve as a venue that will improve information exchange between science, medicine, and public policy—ultimately empowering the control and mitigation of current and future viral diseases.

Special Issue

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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