

Special Issue

Innovative Advances and Applications in Medical and Molecular Virology

Message from the Guest Editors

Molecular diagnostics play an important and ever-increasing role in clinical and medical virology, particularly the various strategies employed to detect, quantify and characterize viral nucleic acids. These molecular strategies include the polymerase chain reaction, droplet digital PCR, transcription-mediated amplification, loop-mediated isothermal amplification, and various sequencing technologies. Such assays have become standard detection methods in many diagnostic and research laboratories around the world. Another evolving aspect is the type of sample to which these assays are applied, i.e., not just standard clinical samples, but also single cells, ancient ice-cores, wastewater, air, and other environmental samples. For this Special Issue, we welcome papers on the development of innovative assays and/or applications to novel sample types or situations. Manuscripts on innovations in molecular virology are also welcome—including on viral genomics, metagenomics, interactomics, integrative omics, CRISPR-Cas strategies, organoid models, and novel antiviral strategies.

Guest Editors

Dr. Vincent T. K. Chow

Infectious Diseases Translational Research Program, Department of Microbiology and Immunology, Yong Loo Lin School of Medicine, National University of Singapore, National University Health System, Singapore 119228, Singapore

Dr. Julian W. Tang

Department of Respiratory Sciences, University of Leicester, Leicester LE1 7RH, UK

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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