



Virus Diagnostic Methods and Techniques: Learning from the COVID-19 Global Outbreak

Collection Editors:

Dr. Chao-Min Cheng

Institute of Biomedical
Engineering, National Tsing Hua
University, Hsinchu City 300,
Taiwan

Dr. Sandeep K. Vashist

Fapon Biotech Inc., Reuterweg
48, 52080 Aachen, Germany

Prof. Dr. Carmen de Mendoza

Pharmaceutical & Health Science
Department, Universidad San
Pablo-CEU, Madrid, Spain

Message from the Collection Editors

The spread of COVID-19 has become a global healthcare issue around the world. With recent technological advances in multiple research fields, such as materials science, micro-/nanotechnology, molecular biology, and bioengineering, much attention is shifting toward the development of new virus-based detection tools that not only address the needs for high sensitivity and specificity but also fulfil economic objectives in addition to the need for rapid point-of-care for groups and individuals with constrained resources and, possibly, limited training. These new detection technologies are also potentially applicable to different healthcare issues since they are disposable, inexpensive, portable, and easy to use—especially when their manufacture is based on low-cost materials. The topics in this Special Issue would cover point-of-care detection devices, microfluidic or paper-based detection devices, new materials for making detection devices, and others, with a particular focus on the precise diagnosis of COVID-19.





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Editor-in-Chief

Prof. Dr. Andreas Kjaer

Department of Clinical
Physiology, Nuclear Medicine &
PET National University Hospital,
Rigshospitalet, University of
Copenhagen, Blegdamsvej 9, DK-
2100 Copenhagen, Denmark

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Diagnostics Editorial Office
MDPI, St. Alban-Anlage 66
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