



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

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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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