

Special Issue

Diagnostic Tools and Methods to Evaluate Vaccine Effectiveness, Efficacy, and Safety

Message from the Guest Editors

The spread of the specific infectious disease, such as 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 diagnostic tools and methods that not only address the needs for high sensitivity and specificity but also fulfill economic objectives in addition to the need for rapid point-of-care for groups and individuals with constrained resources and, possibly, limited training. Determining how to evaluate the effectiveness, efficacy, safety, and side effects (with others) of vaccines, such as specific antibody production or cellular responses is an urgent issue regardless of the development of diagnostic tools or methods. The topics in this Special Issue would cover point-of-care diagnostic devices, ELISA-based or cell-based diagnostic approaches, and others, with a particular focus on the precise evaluation of vaccines.

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