



Role of Integrative Genomics Surveillance in Viruses Understanding for Efficient Vaccine Development

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Message from the Guest Editor

Dear Colleagues

Viruses are **diverse** in terms of genome size and genetic backbone (DNA/RNA), **dynamic** in terms of evolving variants (variants of concern, variants of interest) and cause differential **disease** manifestations (mild, moderate, severe) in infected individuals. This has been highlighted more than ever before during the COVID-19 pandemic, which challenged global public health, medical and healthcare support.

Genomic surveillance holds the potential to also discover/detect the secondary infections that may be modulating the disease severity and outcome, in addition to understanding the instances of vaccination breakthroughs in a subset of vaccinated individuals.

The Special Issue aims at bringing together different aspects of genomics-based research through a combination of original research and review articles.

- Viral genome features;
- Differential immune escape potentials of VOCs by the presence of specific mutations;
- Vaccination strategies—strengths and limitations;
- Future strategies;
- Role of modulators, such as the co-presence of other microbes.





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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

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