



## Development of Vaccines Based on Virus-Like Particles

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### Message from the Guest Editors

Dear Colleagues,

Basic studies on virus structure and assembly have led to the experimental observation that many viral structural proteins have the intrinsic ability to self-assemble into virus-like particles (VLPs). These VLPs have led to better immunological mimics of whole-virus particles compared to soluble capsid subunits, resulting in the improved effectiveness of vaccines and leading to a renaissance in vaccine development.

VLP-based vaccines combine many of the advantages of whole-virus-based and recombinant subunit vaccines, exhibiting a high safety profile. VLPs produced using recombinant protein expression systems can stimulate strong B- and T-cell immune responses and have been shown to exhibit self-adjuvanting abilities. In addition, VLPs can be used as platforms for the multimeric display of foreign antigens of interest derived from viruses or other pathogens (chimeric VLPs).

This Special Issue aims to collect recent research work on the design, generation and use of VLPs and chimeric VLPs for the development of both human and veterinary new generation vaccines.





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## Editor-in-Chief

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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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