

## Special Issue

# Recent Scientific Advances in Plant-Based Vaccines

### Message from the Guest Editors

In the early 1990s, the concept of using transgenic plants for 'edible' vaccines and immunotherapeutics gained momentum, leading to what we now call 'molecular pharming.' Notable milestones include the licensing of the first plant-made veterinary vaccine in 2006 (targeting Newcastle Disease Virus) and the first human drug in 2012 (glucocerebrosidase for Gaucher's disease). Advancements in plant molecular biology, especially transient transfection platforms, accelerated the field, culminating in the first plant-made human vaccine for SARS-COV-2 in 2022. This Special Issue highlights recent progress in using whole plants, plant-derived cells, and materials (like protein and lipid adjuvants) to create vaccines for humans and animals. We welcome submissions on prophylactic and therapeutic vaccines, process development, non-clinical and clinical research, and advances in plant molecular biology. We invite you to contribute an original report, observation, or review on plant-based vaccine production.

### Guest Editors

Prof. Dr. Brian Ward

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### Deadline for manuscript submissions

closed (30 April 2024)



## Vaccines

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Ralph A. Tripp

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