

## Special Issue

# DNA-Based Vaccines Against Infectious Diseases and Cancer

### Message from the Guest Editor

Vaccines are one of the most important medical interventions for the prevention of infectious diseases and cancers. Although mRNA vaccines have been recognized as next-generation vaccines, the ultra-low temperature storage of mRNA, low physical stability, and short half-life limits their global availability. In contrast, DNA vaccines are very stable, easy to manufacture, and non-HLA specific. We welcome the submission of original research articles, reviews, mini-reviews, perspective articles, opinion articles, and commentaries around the following topics, including, but not limited to:

- Recent advances in DNA vaccine technologies.
- Synthetic DNA vaccines and DNA-encoded monoclonal antibodies (DMABs) to prevent infectious diseases and cancer.
- Controlling gene expression using plasmid engineering and gene circuits.
- Enhancing the duration of immune response using molecular adjuvants.
- Novel methods to stabilize antigens for the development of vaccines.

Dr. Praveen Kumar Neeli and Dr. Dafei Chai are the Topical Advisory Panel Members of *IJMS*, and are assisting in supervising this Special Issue.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 August 2025)



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### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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