# 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**

Dr. Srinivasa Reddy Bonam

Department of Microbiology & Immunology, University of Texas Medical Branch, Galveston, TX 77550, USA

## Deadline for manuscript submissions

20 August 2025



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



# mdpi.com/si/183070

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





# Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

# **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

