

Special Issue

Nanoparticles in Molecular Pharmaceutics

Message from the Guest Editor

From preventing emerging infectious pandemic to treating chronic disorders, nanoparticles have proven to be a key player in transforming the landscape of molecular pharmaceutics by enabling precise payload delivery and enhanced efficacy compared to traditional formulations. Their nanoscale dimensions, tunable physicochemical properties, multifunctionality, and ability to overcome biological barriers make them ideal candidates for addressing complex delivery challenges across diverse agents. This Special Issue emphasizes investigations of nanoparticles at the molecular level, from molecular assembly-mediated nanoformulation to the elucidation of biological processes through in vitro and in vivo studies. Key topics include, but are not limited to, advanced design strategies and manufacturing, the molecular mechanisms of nanoparticles crossing biological barriers, multifunctional therapeutic, and preclinical validation. By bridging fundamental science and translational applications, this issue aims to advance the understanding of nanoparticles as sophisticated solutions for improving health outcomes and shaping the future of molecular pharmaceutics.

Guest Editor

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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.

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