



The Application of Nanoparticles in Biomedicine

Guest Editor:

Prof. Dr. Gangho Lee

Department of Chemistry,
Kyungpook National University,
Daegu 41566, Republic of Korea

Deadline for manuscript
submissions:

closed (20 April 2025)

Message from the Guest Editor

Dear Colleagues,

Nanoparticles, nanomaterials, nanorods, core-shell nanoparticles, and hybrid nanoparticles have been extensively studied for various biomedical applications. Their applications are diverse such as contrast agents in magnetic resonance imaging (MRI) and X-ray computed tomography (CT), drug delivery, fluorescent imaging, biolabeling, biosensing, etc. Their properties are superior to conventional molecules and chelates.

The aim of this Special Issue is to report a variety of nanoparticles and nanomaterials that can be applied to biomedicine, nanomedicine, and nanobiology. These include the synthesis of nanoparticles and nanomaterials and their characterizations using various techniques, surface modifications, and in vitro and in vivo applications. Surface modification with hydrophilic and biocompatible ligands is essential for their biomedical applications. This Special Issue will cover a variety of nanoparticles and nanomaterials that can be applied to biomedicine, nanomedicine, and nanobiology.

Prof. Dr. Gangho Lee

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

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.

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)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI