





an Open Access Journal by MDPI

Biosynthesis of Nanoparticle/Exosome/ECV/Microparticles

Guest Editors:

Dr. Hirak Patra

Department of Surgical Biotechnology, Division of Surgery and Interventional Sciences, University College London, London, UK

Dr. Suryyani Deb

Department of Biotechnology, Maulana Abul Kalam Azad University of Technology, Kolkata. India

Deadline for manuscript submissions:

closed (31 October 2022)

Message from the Guest Editors

The primary goal of this Special Issue is to develop a platform for researchers and readers to concisely investigate all aspects of recent advancements in biosynthesis of Nanoparticle/Exosome/Extra Cellular Vesicles (ECV)/Microparticles. This issue will illuminate important perspectives of clinically relevant 'nano to micro' sized bio-derived and bio-mediated particles, especially for their therapeutic and diagnostic applications. For the successful implementation of these particles, key areas, such as controlled biogenesis or biosynthesis, surface engineering or tuning, cargo loading, isolation and purification, and payload and carrier characterizations, will also be featured. After the increased applications of nanomedicines (e.g., vaccines) during the COVID19 pandemic, development of nanosystems is emerging as a thriving field; however, many translational challenges still need to be overcome. The important questions, such as rational characterization for clinical applications, bio-toxic effect as a therapeutic cargo, and precautions during synthesis and the isolation process, increase bioavailability and should be investigated.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Biomedical)

Contact Us