



Biomedical Applications of Carbonaceous Nanomaterials and Beyond

Guest Editors:

Dr. Narsimha Mamidi

School of Engineering and
Sciences, Tecnológico de
Monterrey, Monterrey, Nuevo
Leon 64849, Mexico

Dr. Ebrahim Mostafavi

Stanford Cardiovascular Institute,
Stanford University School of
Medicine, Stanford, CA, USA

Dr. Ajeet Kaushik

Department of Natural Sciences,
Division of Sciences, Arts &
Mathematics (SAM), Florida
Polytechnic University, Lakeland,
FL 33805-8531, USA

Deadline for manuscript
submissions:

closed (29 February 2024)

Message from the Guest Editors

This Special Issue is devoted to the interaction between CNMs and tissues/cells; the effect of the size, morphology, shape, and surface of CNMs on their toxicity, biocompatibility, and immunogenicity; the design of novel biodegradable and biocompatible CNMs; instrumentation and technologies to analyze the biocompatibility of CNMs; and challenges to overcome the toxicity of CNMs. This exposure will potentially pave the way for exciting and innovative concepts in CNMs and provide game-changing solutions for several research areas. This Special Issue will highlight original articles and reviews on topics including, but not limited to, the following:

- Development of CNMs for tissue engineering and drug-delivery applications;
- Synergistic characteristics and toxicity evaluation of CNMs and their composites for biomedical applications and other uses;
- Carbon-material-reinforced intelligent/smart CNMs for medical devices, biosensors, etc.;
- CNMs incorporated into nanofibers, hydrogels, thin films, aerogels, nanoparticles, etc.;
- Ceramics, metals, and metal oxides incorporated into biomaterials for biomedical applications.





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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

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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*International Journal of Molecular
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MDPI, St. Alban-Anlage 66
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