

Special Issue

From Nanotechnology to Nanomedicine: Past, Present and Future

Message from the Guest Editor

There are two ways of transferring information: 1) chronological, as a gradual evolutionary accumulation of knowledge and 2) logical, which ranges from strict definitions to simple theory and more general concepts. Despite advances in nanotechnology and medical nanomaterials, there is no future without the past. The rapid progress in biopolymer isolation (proteins, polysaccharides, polyhydroxyalkanoates, polyphenols and nucleic acids) from natural sources, the chemical synthesis of novel biomimetics (nucleotides, amino acids, polymers and artificial enzymes) and composite materials (glycoproteins, proteoglycans, lipopolysaccharides and so on) as well as construction of inorganic and organic nanomaterials and even semisynthetic organisms (bacteria with six nucleotide bases instead of the classical four that encode 152 amino acids) open up new opportunities to attain higher levels of medicine and accelerate further development. Comparative analysis of the advantages and disadvantages of nanostructures for medical diagnostics, vaccines and treatment could greatly benefit the scientific community.

Guest Editor

Dr. Morozova Olga

Federal Research and Clinical Center of Physical-Chemical Medicine of Federal Medical Biological Agency, 119435 Moscow, Russia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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