



Nanomaterials and Nanotechnology in Dentistry

Guest Editor:

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Message from the Guest Editor

The aim of the Special Issue is to provide theoretical and practical knowledge on the application of innovative nanotechnologies and nanomaterials that cross through a translational approach, bringing together all the various specialties involved in the study of dentistry and applied to the biomedical research.

The approach for studying oral diseases has changed dramatically with the advent of new methods of analysis (from anatomy to clinical–instrumental pathophysiological interpretation, from molecular biology to proteomics, from functional and morphological analysis, structural and ultrastructural, to the studies in vitro and in a single cell). There is also increasing evidence of the importance of the involvement of stem compartments and their use, as in the case of human-derived mesenchymal cells taken from dental pulp and cells of the microenvironment in the pathogenesis of these diseases. Finally, it seems important to underline the growing development of experimental medicine and medical/surgical biotechnology as the evaluation and the use of new biomaterials–biomimetics combined with sophisticated and minimally invasive surgical techniques.





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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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