

Special Issue on
Dental Nanobiomaterials and Regenerative Dentistry

CALL FOR PAPERS

The oral cavity is a unique anatomical structure, characterized by the collocation of soft and hard tissues, which is continuously subject to challenge by the external and internal factors. Diseases and disorders caused by oral microorganisms are very common, in particular dental caries, root resorption, periodontitis, facial trauma, and oral diseases secondary to systemic disease, e.g., oral candidiasis. Over the last decade, a new generation of nanomaterials has been investigated in dentistry. These are degradable and nondegradable materials and are able to release specific ions to help regenerate and repair the diseased structure. Moreover, smart nanomaterials can elicit reparative processes within the bonding interface in the presence of body fluids such as saliva, crevicular fluid, and blood.

Trends have changed towards the addition of nanoparticles in dental biomaterials. Advances in research science are now focused on using nanomaterials in dentistry to address the problems associated with oral diseases including cancers, caries, periodontitis, oral mucosal lesions, and maxilla-facial injuries. Nanomaterials have the capacity to transport and release therapeutic agents into the body, in order to achieve the desired results in the safest possible manner.

The special issue will focus on the utilization of nanomaterials such as nanometal oxides, nanobioceramics, nanoceramics, nanometals, and nanomagnetic particles for the treatment of oral infectious diseases, oral cancers, caries, root regeneration, alveolar bone regeneration, maxilla-facial bony defects, periodontal infection, prosthodontics, and others. We invite researchers to contribute their original research and review articles on interdisciplinary topics.

Potential topics include but are not limited to the following:

- ▶ Nanomaterials in regenerative dentistry
- ▶ Nanomaterials in restorative dentistry
- ▶ Nanoantibacterial materials for dental applications
- ▶ Nanoparticles for oral cancers
- ▶ Nanofibers as dental biomaterials

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ijbm/dbrd/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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