

Special Issue

Nanotechnology and Pharmaceutical Innovations in Oral Diseases

Message from the Guest Editors

Oral diseases remain among the most prevalent global health burdens, with significant impacts on quality of life and systemic health. Conventional therapeutic approaches are often limited by poor drug solubility, low bioavailability, rapid clearance, and difficulties in achieving sustained local delivery within the oral cavity. Recent advances in nanotechnology and pharmaceutical sciences are opening new horizons for more effective prevention and treatment strategies. Nanoscale systems, including nanoparticles, nanofibers, liposomes, micelles, and bioinspired carriers, enable targeted and controlled drug release, improved mucosal adhesion, and enhanced penetration into hard-to-reach sites. Moreover, smart nanomaterials can deliver antimicrobials, anti-inflammatory agents, growth factors, and regenerative molecules with greater precision and reduced side effects. This Special Issue aims to highlight innovative research at the interface of nanotechnology, drug delivery, and oral medicine, fostering translational strategies that may redefine clinical management of oral infections, periodontal disease, oral cancer, and tissue regeneration.

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