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***Functional Biomaterials***



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## **Functional Biomaterials and Digital Technologies in Dentistry: From Bench to Bedside**

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The publication "Functional Biomaterials and Digital Technologies in Dentistry: From Bench to Bedside," featured in the *Journal of Functional Biomaterials*, signifies a pivotal advancement in dental and maxillofacial healthcare. It underscores groundbreaking innovations in the field of biomaterials, including the use of metals, polymers, and composites, alongside the revolutionary role of digital technologies such as computer-aided imaging (CAI), design (CAD), and manufacturing (CAM) in dentistry. This volume highlights crucial developments in functional biomaterials renowned for their biocompatibility, mechanical strength, and tailored biofunctionality, setting the stage for novel treatment methodologies. It delves into how digital innovations, including CAD/CAM and 3D printing, are enhancing treatment precision, efficiency, and patient satisfaction, thereby moving dentistry closer to the realm of precision medicine. This succinct collection marks a transformative shift in dental care, merging biomaterial science and digital tech advancements to globally elevate patient care standards. As a pivotal moment in the ongoing evolution of dental research, this reprint envisions a future where the harmonious integration of functional biomaterials and digital technology sets new benchmarks for dental care.



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