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Ca-Si Based Ceramics for Skeletal tissue Reconstruction; 1. Introduction; 2. Ca-Si Based Bioactive Glass and Glass-Ceramics; 3. Ca-Si Based Binary Oxide System Bioactive Ceramics; 4. Ca-Si-Mg Bioactive Ceramics; 5. Future Trends. References; CHAPTER 6 Calcium Phosphate-Based Materials for Bone Regenerative Medicine; 1. Introduction
2. Bioactive Glasses and Glass-Ceramics
3. Silicon-Substituted Apatites; 4. Calcium Phosphate-Based Materials; 5. Bone-like Medical Applications; References; CHAPTER 7 Cell Adhesion and Proliferation over Zinc-Glass-reinforced Hydroxyapatite Composites (Zn-GRHA); 1. Introduction; 2. Materials and Methods; 3. Physicochemical and Morphological Analysis of the Zn-GRHA Composites; 4. In Vitro Biocompatibility of the Zn-GRHA Composites; 5. Conclusions. References

Sommario/riassunto

The aim of "Biomaterials for Bone Regenerative Medicine" is to review extensively the latest developments in Biomaterials and their application to bone regeneration in vivo. Indeed, research on biomaterials and their novel applications is essential because of the health issues related to the aging population. A wide range of worldwide investigations is being undertaken by eminent scholars in order to develop further innovative materials for next-generation applications. In future, it is expected that a tissue engineering approach, associating novel biomaterials with stem cells, will be available.
