

References

- Albrektsson, T., & Johansson, C. (2001). Osteoinduction, osteoconduction and osseointegration. *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society, 10 Suppl 2*(Suppl 2), S96–S101. <https://doi.org/10.1007/s005860100282>
- Ali, H. U., Iqbal, D. N., Iqbal, M., Ezzine, S., Arshad, A., Zeeshan, R., ... & Khan, A. F. (2022). HPMC crosslinked chitosan/hydroxyapatite scaffolds containing Lemongrass oil for potential bone tissue engineering applications. *Arabian Journal of Chemistry, 15*(7), 103850.
- Badan Riset Dan Inovasi Nasional. BRIN. (2022, October 7). <https://www.brin.go.id/en/page/6/profil-brin-1>
- Badan Riset Dan Inovasi Nasional. BRIN. (2022b, October 11). <https://www.brin.go.id/en/page/7/visi-misi-tujuan-dan-sasaran-strategis-brin-1>
- Badan Riset Dan Inovasi Nasional. BRIN. (2022a, July 26). <https://www.brin.go.id/en/page/23/struktur-organisasi>
- Badan Riset Dan Inovasi Nasional. BRIN. (n.d.). <https://www.brin.go.id/en/page/profil-pejabat>
- Bauer, T. W., & Muschler, G. F. (2000). Bone graft materials: an overview of the basic science. *Clinical Orthopaedics and Related Research®, 371*, 10-27.
- Choi, S., Coonrod, S., Estroff, L., & Fischbach, C. (2015). Chemical and physical properties of carbonated hydroxyapatite affect breast cancer cell behavior. *Acta biomaterialia, 24*, 333-342.

Du, M., Chen, J., Liu, K., Xing, H., & Song, C. (2021). Recent advances in biomedical engineering of nano-hydroxyapatite including dentistry, cancer treatment and bone repair. *Composites Part B: Engineering*, 215, 108790.

Feroz, S., & Dias, G. (2021). Hydroxypropylmethyl cellulose (HPMC) crosslinked keratin/hydroxyapatite (HA) scaffold fabrication, characterization and in vitro biocompatibility assessment as a bone graft for alveolar bone regeneration. *Heliyon*, 7(11).

Giannoudis, P. V., Arts, J. C., Schmidmaier, G., & Larsson, S. (2011). What should be the characteristics of the ideal bone graft substitute?. *Injury*, 42, S1-S2.

Herford, A. S., & Dean, J. S. (2011). Complications in bone grafting. *Oral and Maxillofacial Surgery Clinics*, 23(3), 433-442.

Iqbal, H., Ali, M., Zeeshan, R., Mutahir, Z., Iqbal, F., Nawaz, M. A. H., ... & Rehman, I. U. (2017). Chitosan/hydroxyapatite (HA)/hydroxypropylmethyl cellulose (HPMC) spongy scaffolds-synthesis and evaluation as potential alveolar bone substitutes. *Colloids and Surfaces B: Biointerfaces*, 160, 553-563.

Janicki, P., & Schmidmaier, G. (2011). What should be the characteristics of the ideal bone graft substitute? Combining scaffolds with growth factors and/or stem cells. *Injury*, 42, S77-S81.

John Hopkins Medicine. (2020, January 3). Bone Grafting.

<https://www.hopkinsmedicine.org/health/treatment-tests-and-therapies/bone-grafting>

Kozusko, S. D., Riccio, C., Goulart, M., Bumgardner, J., Jing, X. L., & Konofaos, P. (2018). Chitosan as a bone scaffold biomaterial. *Journal of Craniofacial Surgery*, 29(7), 1788–1793.

<https://doi.org/10.1097/SCS.0000000000004909>

Loh, J. W., Yeoh, G., Saunders, M., & Lim, L. Y. (2010). Uptake and cytotoxicity of chitosan nanoparticles in human liver cells. *Toxicology and applied pharmacology*, 249(2), 148-157.

Precheur, H. V. (2007). Bone graft materials. *Dental Clinics of North America*, 51(3), 729-746.

Ruano, R., Jaeger, R. G., & Jaeger, M. M. (2000). Effect of a ceramic and a non-ceramic hydroxyapatite on cell growth and procollagen synthesis of cultured human gingival fibroblasts. *Journal of Periodontology*, 71(4), 540-545.

Sanz-Sánchez, I., Sanz-Martín, I., Ortiz-Vigón, A., Molina, A., & Sanz, M. (2022). Complications in bone-grafting procedures: classification and management. *Periodontology 2000*, 88(1), 86-102.

Schmidt, A. H. (2021). Autologous bone graft: Is it still the gold standard?. *Injury*, 52, S18-S22.

Shi, H., Zhou, Z., Li, W., Fan, Y., Li, Z., & Wei, J. (2021). Hydroxyapatite based materials for bone tissue engineering: A brief and comprehensive introduction. *Crystals*, 11(2), 149.

Venkatesan, J., & Kim, S. K. (2010). Chitosan composites for bone tissue engineering—an overview. *Marine drugs*, 8(8), 2252-2266.

Zhang, K., Zhou, Y., Xiao, C., Zhao, W., Wu, H., Tang, J., Li, Z., Yu, S., Li, X., Min, L., Yu, Z., Wang, G., Wang, L., Zhang, K., Yang, X., Zhu, X., Tu, C., & Zhang, X. (2019). Application of hydroxyapatite nanoparticles in tumor-associated bone segmental defect. *Science Advances*, 5(8).
<https://doi.org/10.1126/sciadv.aax6946>

Zhao, R., Xie, P., Zhang, K., Tang, Z., Chen, X., Zhu, X., ... & Zhang, X. (2017). Selective effect of hydroxyapatite nanoparticles on osteoporotic and healthy bone formation correlates with intracellular calcium homeostasis regulation. *Acta biomaterialia*, 59, 338-350.