

DAFTAR PUSTAKA

- Abbas, A.K., Lichtman, A.H. 2004. *Basic Immunology: Functions and Disorders of the Immune System*. Philadelphia: Saunders, pp.43.
- Anchana, C., Perumal, P. 2016. *Synthesis & Application of Hydroxyapatite Bioceramics from Different Marine Sources*. *Journal of Research in Environmental and Earth Science*, p.8.
- Anitasari, W. 2017. Ekspresi Osteoprotegerin dan RANKL pada Soket Setelah Pemberian Hidroksiapatit Tooth Graft. *Thesis*. Fakultas Kedokteran Gigi Universitas Airlangga, p.18-20.
- Ardhiyanto, H.B., 2012. Stimulasi Osteoblas oleh Hidroksiapatit sebagai Material *Bone Graft* Pada Proses Penyembuhan Tulang. *Fakultas Kedokteran Gigi Universitas Jember*, p.1-3.
- Asni, N., Saadilah, A., Saleh, D. 2014. Optimalisasi Sintesis Kitosan dari Cangkang Kepiting sebagai Adsorben Logam Berat Pb (II). *Jurnal Fisika dan Aplikasinya*, 15(1):18-25.
- Barradas, A., Yuan, H., van Blitterswijk, C. and Habibovic, P. 2011. Osteoinductive biomaterials: current knowledge of properties, experimental models and biological mechanisms. *European Cells and Materials*, 21, pp.407-429.
- Beery, A. K., & Zucker, I. 2011. Sex bias in neuroscience and biomedical research. *Neuroscience and biobehavioral reviews*, 35(3), 565–572.
- Caplanis, N., Lozada, J. and Mesquida, J. 2014. Tooth Extraction and Site Preservation. *Principles and Practice of Single Implant and Restorations*, pp.87-106.
- Carter, M.A., 1992. Fraktur dan Dislokasi. Dalam *Patofisiologi Konsep Klinis Proses –proses Penyakit*. S.A. Price dan L.M. Wilson. EGC. Penerbit Buku Kedokteran. Jakarta. pp. 1175-1188.
- Chandra, H.M. 2014. *Buku Petunjuk Praktis Pencabutan Gigi (1st ed)*. Makassar: Sagung Seto, pp.52-53
- Chen, E., et al. 2018. Concentration-dependent, dual roles of IL-10 in the osteogenesis of human BMSCs via P38/MAPK and NF-κB signaling pathways. *The FASEB Journal*, 32:1-13.
- Chudhuri, B., et al. 2013. Hydroxyapatite and Hydroxyapatite-Chitosan Composite from Crab Shell. *Journal of Biomaterials and Tissue Engineering*, 3(6):653-657.

- Chocholata, P., Kulda, V. dan Babuska, V. 2019. Fabrication of Scaffolds for Bone-Tissue Regeneration. *Materials*, 12(4), p.568.
- Cohen, N. and Cohen-Lévy, J. 2014. Healing processes following tooth extraction in orthodontic cases. *Journal of Dentofacial Anomalies and Orthodontics*, 17(3):304.
- Cox, G., Einhorn, T.A., Tzioupis, C., Giannoudis, P.V. 2010. Bone-turnover markers in fracture healing. *J Bone Joint Surg*, 92-B(3):329-34.
- Dietmar, E., Saygili, F. 2015. Causes of High Bone Alkaline Phosphatase. *Journal of Molecular Biology*, 310(4):149-154.
- Effendi, M.C. 2012. Nanopartikel Mineral Trioksida Meningkatkan Proliferasi dan Diferensiasi Sel Punca Pulpa Gigi Serta Maturasi Sel ke Arah Odontoblas. Disertasi. Universitas Indonesia, Jakarta, pp.27,35.
- Eliaz, N., Metoki, N. 2017. Calcium Phosphate Bioceramics: A Review of Their History, Structure, Properties, Coating Technologies and Biomedical Applications. *Materials*, 10(4), p.334.
- Gonzalez, A., Costa, T., Andrade, Z. and Medrado, A. 2016. Wound healing - A literature review. *Anais Brasileiros de Dermatologia*, 91(5):614-620.
- Hardhani, PR., Lastianny, SP., Herawati, D. 2013. Pengaruh Penambahan Platelet-Rich Plasma pada Cangkok Tulang terhadap Kadar *Osteocalcin* Cairan Sulkus Gingiva pada Terapi Poket Infraboni. *Jurnal PDGI*, 62(3):75-82.
- Hassan, KS., Alagl, AS. 2011. Immediate Dental Implants and Bone Graft, Implant Dentistry – The Most Promising Discipline of Dentistry. *InTech*, p.1.
- Heerden, Peter van. 2015. Treatment Concepts for Socket Grafting. *Internasional Dentistry, African Edition*, 2(1):70.
- Humairah, S., Karnila, R., Loekman, S. 2017. Komposisi Kimia Tepung Cangkang Kepiting Bakau (*Scylla Serrata*). *Jurnal Fakultas Perikanan dan Kelautan Universitas Riau*, p.4,7.
- Howe, G.L.1971. *Minor Oral Surgery* (2nd ed). London: John Wright&Sons, p.41-45.
- Kangas, M.I. 2000. Synopsis of the Biology and Exploitation of the Blue Swimmer Crab, *Portunus Pelagicus* Linnaeus, in Western Australia. *Fisheries Western Australia*, (121):3.
- Kantharia, *et al.* 2014. Nano-hydroxyapatite and its contemporary applications. *Journal of Dental Research and Scientific Development*, 1(1):15-19.

- Kasagi, S., Chen, W. 2013. TGF- β 1 on osteoimmunology and the bone component cells. *Cell & Bioscience*, 3(4):1-7.
- Kattimani, V., Kondaka, S. and Lingamaneni, K. 2016. Hydroxyapatite—Past, Present, and Future in Bone Regeneration. *Bone and Tissue Regeneration Insights*, 7, pp.9-19.
- Kenkre, J. and Bassett, J. 2018. The bone remodelling cycle. *Annals of Clinical Biochemistry: International Journal of Laboratory Medicine*, 55(3):308-327.
- Kim, Y., *et al.* 2014. Alveolar ridge preservation of an extraction socket using autogenous tooth bone graft material for implant site development: prospective case series. *The Journal of Advanced Prosthodontics*, 6(6):521.
- Kim, S., Roh, J. and Park, C. 2016. Immunohistochemistry for Pathologists: Protocols, Pitfalls, and Tips. *Journal of Pathology and Translational Medicine*, 50(6):411-418.
- Kini, U., Nandeesh, B.N. 2012. Physiology of Bone Formation, Remodelling, and Metabolism. In: Fogelman, I., Gnanasegaran, G. and Wall, H., Eds., *Radionuclide and Hybrid Bone Imaging*, Springer, Berlin, Heidelberg, 29-57.
- Kubilius, M., Kubilius, R., Gleiznys, A, 2012. The preservation of Alveolar Bone Ridge during Tooth Extraction. *Baltic Dental and Maxillofacial Journal*, 14(1):3-11.
- Kumar, P., Vinitha, B., Fathima, G. 2013. Bone grafts in dentistry. *Journal of Pharmacy and Bioallied Sciences*, 5(1):S125-S127.
- Krishnamurthy, G. 2013. A review on hydroxyapatite-based scaffolds as a potential bone graft substitute for bone tissue engineering applications. *JUMMEC*, 16(2):1-6.
- Lai, JCY., Ng, PKL., Davie, PJF. 2010. A Revision Of The *Portunus Pelagicus* (Linnaeus, 1758) Species Complex (Crustacea: Brachyura: Portunidae), With The Recognition Of Four Species. *The Raffles Bulletin of Zoology*, 58(2): 199–237.
- Lieberman, J.R., Friedlaender, G.E. 2005. Bone Regeneration and Repair, Biology and Clinical Applications. New Jersey: Humana, p.57-59.
- Lin, L., Chow, K. and Leng, Y. 2009. Study of hydroxyapatite osteoinductivity with an osteogenic differentiation of mesenchymal stem cells. *Journal of Biomedical Materials Research Part A*, 89A(2), pp.326-335.
- Manzoor, M. and Raza, S. 2013. Proficient Handling and Restraint of the Laboratory Animal Rat (*Rattus Norvegicus*) Facilitate Essential

- Biochemical and Molecular Level Studies in Biomedical Sciences. IOSR Journal of Pharmacy and Biological Sciences, 6(2), pp.21-33.
- Martati, *et al.* 2002. Optimasi Proses Demineralisasi Cangkang Rajungan (*Portunus Pelagicus*) Kajian Suhu dan Waktu Demineralisasi. *J. Tek. Pert.* 3(2):128-135.
- Mezzomo, L.A., Shinkai, R.S., Mardas, N., Donos, N. 2011. Alveolar ridge preservation after dental extraction and before implant placement: A literature review. *Rev Odonto Cienc*, 26(1):77-83.
- Millán, J. 2006. Alkaline Phosphatases. *Purinergic Signalling*, 2(2), pp.335-341.
- Mocalo, M. 2015. Hydroxyapatite (HA) for biomedical applications. In: 1st ed. Oxford: Woodhead Publishing, p. 3-13.
- Muhardina, V., Ermaya, D., Aisyah, Y., Anwar, S.H. 2017. Pengaruh Karagenan, Alginat dan Ampas Tahu Prebiotik terhadap Visualisasi Fisik dan Rendemen Kapsul Probiotik. *Seminar Nasional II USM*, 1:513.
- Nguyen, N.H. 2012. Basic Knowledge of Bone Grafting. Bone Grafting, Dr Alessandro Zorzi (Ed.), InTech, Available from: <http://www.intechopen.com/books/bone-grafting/basicknowledge-of-bone-grafting>.
- Ningsih, R.P., Wahyuni, N., Destiarti, L. 2014. Sintesis Hidroksiapatit Dari Cangkang Kerang Kepah (*Polymesoda Erosa*) Dengan Variasi Waktu Pengadukan. *Jurnal Kimia Khatulistiwa*, 3(1):22-26.
- Nontji, Anugerah., 2005. *Laut Nusantara*. Cetakan Keempat. Jakarta: Djambatan.
- Novitananda, A. 2018. Peningkatan Jumlah Sel Osteoblas pada Pemberian Hidroksiapatit Berbasis Cangkang Kepiting (*Portunus pelagicus*) Pasca Ekstraksi Gigi Tikus Wistar. *Skripsi*. Fakultas Kedokteran Gigi Universitas Airlangga, p.50.
- Nurhidajah, Yusuf, M. 2010. Analisis Protein, Kalsium dan Daya Terima Tepung Limbah Rajungan. *Prosiding Seminar Nasional UNIMUS*, p. 252-255.
- Oemarjati BS, W Wardhana. 1990. *Taksonomi Avertebrata (Pengantar Praktikum Laboratorium)*. Jakarta: UI Press, p.5.
- Orimo, H. 2010. The Mechanism of Mineralization and the Role of Alkaline Phosphatase in Health and Disease. *J Nippon Med Sch*, 77(1): 4-12.
- Prabawa, A., Riani, E., Wardiatno, Y. 2014. Pengaruh Pencemaran Logam Berat terhadap Struktur Populasi dan Organ Tubuh Rajungan (*Portunus pelagicus*, Linn). *Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan*, IV(1):17-23.

- Pratama, IK. 2017. Biokompatibilitas Hidroksiapatit Graft dari Cangkang Kepiting (*Portunus Pelagicus*) yang Distrerilkan Sinar UV terhadap Kultur Sel *Human Gingival Fibroblast*. Skripsi. Fakultas Kedokteran Gigi Universitas Airlangga, p.10-11.
- Politis, C., Schoenaers, J., Jacobs, R. and Agbaje, J. 2016. Wound Healing Problems in the Mouth. *Frontiers in Physiology*, 7(507):1-3.
- Rahman, K.M, Amir, D., Noer, M. 2017. Efek Pencabutan Gigi terhadap Peningkatan Tekanan Darah pada Pasien Hipertensi. *Jurnal Kesehatan Andalas*, 6(1):61-64.
- Raya, I., *et al.* 2015. Synthesis and Characterizations of Calcium Hydroxyapatite Derived from Crabs Shells (*Portunus Pelagicus*) and Its Potency in Safeguard against to Dental Demineralizations. *International Journal of Biomaterials*, 2015(469176):1
- Reinke, J. and Sorg, H. 2012. Wound Repair and Regeneration. *European Surgical Research*, 49(1):35-43.
- Rucci, N. 2008. Molecular Biology Of Bone Remodeling. *Clinical Cases in Mineral and Bone Metabolism*, 5(1): 49-56.
- Rutkovskiy, A., Stensløyken, K. and Vaage, I. 2016. Osteoblast Differentiation at a Glance. *Medical Science Monitor Basic Research*, 22:95-106.
- Savitri, Bella Devina. 2016. Sintesis dan Karakterisasi Hidroksiapatit dari Cangkang Telur Bebek (*Anas Plathyrynchos*) Menggunakan Metode Pengendapan Basah. Skripsi. Universitas Negeri Surabaya, p.25.
- Setyaningrum, A. 2017. Ekspresi Alkaline Phosphatase pada Sel Osteoblas yang Ditanam dalam *Nano Chitosan – Carbonate Apatite Scaffold*. Skripsi. Universitas Airlangga Surabaya, pp.3,34-36.
- Sfeir, C., Ho, L., Doll, B.A., Azari, K., Hollinger J.O. Fracture repair. In: Lieberman JR, Friedlaenger GE, editors. Bone regeneration and repair. Humana Press; Totowa, NJ: 2005, pp. 21-44.
- Sharma, U., Pal, D. dan Prasad, R. 2013. Alkaline Phosphatase: An Overview. *Indian Journal of Clinical Biochemistry*, 29(3), pp.269-278.
- Sheikh, Z., Sima, C. and Glogauer, M. 2015. Bone Replacement Materials and Techniques Used for Achieving Vertical Alveolar Bone Augmentation. *Materials*, 8(6):2953-2993.
- Shi, X., Zhou, K., Huang, F., Zhang, J. and Wang, C. 2018. Endocytic mechanisms and osteoinductive profile of hydroxyapatite nanoparticles in human umbilical cord Wharton's jelly-derived mesenchymal stem cells. *International Journal of Nanomedicine*, Volume 13, pp.1457-1470.

- Sholeh, K. 2018. Kementerian Kelautan dan Perikanan. [online] Kkp.go.id. Available at: <https://kkp.go.id/djpdspkp/artikel/7947-kinerja-eksport-produk-perikanan-indonesia-tahun-2018> [Accessed 5 Aug. 2019].
- Supangat, D., Cahyaningrum, S.E. 2017. Sintesis dan Karakterisasi Hidroksiapatit dari Cangkang Kepiting (*Scylla Serrata*) dengan Metode Pengendapan Basah. *UNESA Journal of Chemistry*, 6(3):143-149.
- Suryadi. 2011. Sintesis dan Karakterisasi Biomaterial Hidroksiapatit dengan Proses Pengendapan Basah. *Tesis*. Fakultas Teknik, Universitas Indonesia, Depok, p.7-8.
- Svane, I and Hooper, G.E. 2004. *Blue Swimmer Crab (Portunus pelagicus) Fishery*, Fishery Assessment Report to PIRSA for the Blue Crab Fishery Management Committee South Australian Research and Development Institute (Aquatic Sciences), Adelaide, p.9.
- Syukron, F. 2016. Karakteristik glukosamin hidroklorida (GlcN HCl) dari kitin dan kitosan cangkang rajungan biru (*Portunus pelagicus*). [*Tesis*]. Program Pascasarjana, Universitas Riau. Pekanbaru, Riau, p.25-26.
- Trihapsari, E. 2009. Faktor-Faktor yang Berhubungan dengan Densitas Mineral Tulang Wanita ≥ 45 tahun di Departemen Pendidikan Nasional, Jakarta Pusat Tahun 2009. *Skripsi*. Fakultas Kesehatan Masyarakat, Universitas Indonesia, p.9, 37.
- Trisnawati, E., Andesti, D., Saleh, A. 2013. Pembuatan Kitosan dari Limbah Cangkang Kepiting sebagai Bahan Pengawet Buah Duku dengan Variasi Lama Pengawetan. *Fakultas Teknik Universitas Sriwijaya*, 19(2):17-26.
- Van de Velde, *et al.* 2002. ^1H and ^{13}C High Resolution NMR Spectroscopy of Carrageenans: Application in Research and Industry. *Trends in Food Science & Technology*, 13(3):74.
- Van der Weijden, F., Dell'Acqua, F. and Slot, D. 2009. Alveolar bone dimensional changes of post-extraction sockets in humans: a systematic review. *Journal of Clinical Periodontology*, 36(12):1048-1058.
- Wang, W., Yeung, K. 2017. Bone grafts and biomaterials substitutes for bone defect repair: A review. *Bioactive Materials*, 2(4):224-247.
- Weiger, M., Park, J., Roy, M., Stafford, C., Karim, A. and Becker, M. 2010. Quantification of the binding affinity of a specific hydroxyapatite binding peptide. *Biomaterials*, 31(11):2955-2963.
- Zhao, R., Liang, H., Clarke, E., Jackson, C. and Xue, M. 2016. Inflammation in Chronic Wounds. *International Journal of Molecular Sciences*, 17(12):2085.