

DAFTAR PUSTAKA

- Adi-Dako, O., Ofori-Kwakye, K., Frimpong Manso, S., Boakye-Gyasi, M.E., Sasu, C. and Pobee, M., 2016. Physicochemical and antimicrobial properties of cocoa pod husk pectin intended as a versatile pharmaceutical excipient and nutraceutical. *Journal of pharmaceutics*, p 4.
- Ahima, R.S. and Flier, J.S., 2000. Leptin. *Annual review of physiology*, 62(1), pp.413-437.
- Alhashimi N, Frithiof L, Brudvik P, Bakhiet M. 2001. Orthodontic tooth movement and de novo synthesis of proinflammatory cytokines. *Am J Orthod Dentofacial Orthop.*; 19: 307-312.
- Amarowicz, R., 2007. Tannins: the new natural antioxidants?. *European Journal of Lipid Science and Technology*, 109(6), pp.549-551.
- Anjarsari IRD. 2016. Katekin teh Indonesia : prospek dan manfaatnya. *Jurnal Kultivasi* 15(2).
- Bachtiar, E.W., Yuniastuty, M., Monica, A. and Bachtiar, B.M., 2011. Pengaruh Pemberian Kombinasi Sel Punca Pulpa Gigi dan Recombinant Human Bone Morphogenetic Protein-2 Terhadap Kadar Fosfatase Alkali Pada Pulpa Gigi Tikus Terinflamasi. *dentika Dental Journal*, 16(1), pp.36-40.
- Baharum, Z., Akim, A., Hin, T Y., Hamid, RA., Kasran, R. 2016. *Theobroma cacao* : Review of the Extraction, Isolation, and Bioassay of it's Anti-Cancer Compounds. *Tropical Life Science Research Journal*. 27(1): 21-42.

- Baldión, P.A., Velandia-Romero, M.L. and Castellanos, J.E., 2018. Odontoblast-like cells differentiated from dental pulp stem cells retain their phenotype after subcultivation. *International journal of cell biology*, 2018.
- Balogh, M.B. and Fehrenbach, M.J., 2006. Dental embryology, histology, and anatomy. *Edisi ke-2. St Louis: Elsevier Saunders*. pp. 202-5.
- Cabrera, C., Artacho, R. and Giménez, R., 2006. Beneficial effects of green tea—a review. *Journal of the American College of Nutrition*, 25(2), pp.79-99.
- Campos-Vega, R., Nieto-Figueroa, K.H. and Oomah, B.D., 2018. Cocoa (Theobroma cacao L.) pod husk: Renewable source of bioactive compounds. *Trends in food science & technology*.
- Cohen, S., Hargreaves, K.M. and Berman, L.H., 2011. Cohen's pathways of the pulp. *Mosby Elsevier*, p 560.
- Cooper, P.R., Holder, M.J. and Smith, A.J., 2014. Inflammation and regeneration in the dentin-pulp complex: a double-edged sword. *Journal of endodontics*, 40(4), pp.S46-S51.
- Chung, B.Y., Iiyama, K. and Han, K.W., 2003. Food Science; Compositional Characterization Of Cacao (Theobroma Cacao L.) Hull. *Journal of Applied Biological Chemistry*, 46(1), pp.12-16.
- Dausage, P., Dhirawani, R.B., Marya, J., Dhirawani, V. and Kumar, V., 2017. A Comparative Study of Ion Diffusion from Calcium Hydroxide with Various Herbal Pastes through Dentin. *International journal of clinical pediatric dentistry*, 10(1), p.41.

- Dwiandhono, I., Effendy, R. and Kunarti, S., 2016. The thickness of odontoblast-like cell layer after induced by propolis extract and calcium hydroxide. *Dental Journal (Majalah Kedokteran Gigi)*, 49(1), pp.17-21.
- Effendi, M.C., 2012. Nanopartikel Mineral Trioksida Meningkatkan Proliferasi Dan Diferensiasi Sel Punca Pulpa Gigi Serta Maturasi Sel Ke Arah Odontoblas. Disertasi. Universitas Indonesia.
- Emara, R., Elhennawy, K. and Schwendicke, F., 2018. Effects of calcium silicate cements on dental pulp cells: A systematic review. *Journal of dentistry*, 77, pp.18-36.
- Estrela, C. and Holland, R., 2003. Calcium hydroxide: study based on scientific evidences. *Journal of Applied Oral Science*, 11(4), pp.269-282.
- Fan, F.Y., Sang, L.X. and Jiang, M., 2017. Catechins and their therapeutic benefits to inflammatory bowel disease. *Molecules*, 22(3), p.484.
- Fapohunda & Afolayan, 2012. Fermentation of cocoa beans and antimicrobial potentials of the pod husk phytochemicals. *Journal or Physiology and Pharmacology Advances*, 2(3) : 158-164.
- Farges, J.C., Alliot-Licht, B., Renard, E., Ducret, M., Gaudin, A., Smith, A.J. and Cooper, P.R., 2015. Dental pulp defence and repair mechanisms in dental caries. *Mediators of inflammation*, 2015.
- Fernández-Riejos, P., Najib, S., Santos-Alvarez, J., Martín-Romero, C., Pérez-Pérez, A., González-Yanes, C. and Sánchez-Margalet, V., 2010. Role of leptin in the activation of immune cells. *Mediators of inflammation*, 2010.

- Forrester, S.J., Kikuchi, D.S., Hernandes, M.S., Xu, Q. and Griendling, K.K., 2018. Reactive oxygen species in metabolic and inflammatory signaling. *Circulation research*, 122(6), pp.877-902.
- Garg, N. and Garg, A., 2010. Textbook of endodontics. *Jaypee Brothers Medical Publishers (P) Ltd.* p 9-10.
- Goldberg, M. and Hirata, A., 2017. The dental pulp: composition, properties and functions. *JSM Dent*, 5(1), p.1079.
- Goldberg, M., Njeh, A. and Uzunoglu, E., 2015. Is pulp inflammation a prerequisite for pulp healing and regeneration?. *Mediators of inflammation*.
- Hajiaghaalipour, F., Kanthimathi, M.S., Abdulla, M.A. and Sanusi, J., 2013. The effect of camellia sinensis on wound healing potential in an animal model. *Evidence-Based Complementary and Alternative Medicine*, 2013.
- He, F., Pan, Q.H., Shi, Y. and Duan, C.Q., 2008. Biosynthesis and genetic regulation of proanthocyanidins in plants. *Molecules*, 13(10), pp.2674-2703.
- He, W.X., Niu, Z.Y., Zhao, S.L., Jin, W.L., Gao, J. and Smith, A.J., 2004. TGF- β activated Smad signalling leads to a Smad3-mediated down-regulation of DSPP in an odontoblast cell line. *Archives of Oral Biology*, 49(11), pp.911-918.
- Hii CL, et al. 2009. Polyphenols in cocoa (*Theobroma cacao* L.). *Asian Journal of Food and Agro-Industry*, 2(4): 702-722.
- Ingle, J.I. and Baumgartner, J.C., 2008. *Ingle's endodontics*. PMPH-USA. P 1312
- Izzuddin, A.F.A. and Nurkesuma, A., 2015. The Potential Of Cocoa (*Theobroma Cacao* L.) Pods Extract In Periodontal Dressing To Rabbit Gingival Wound Healing. *C COOP*, p.58.

- Jeffers, M.D., 2006. *Tannins as anti-inflammatory agents* (Doctoral dissertation, Miami University).pp.6-7.
- Khoswanto, C., Juliastuti, W.S. and Adla, K.A., 2018. The effect of Avocado leaf extract (*Persea americana* Mill.) on the fibroblast cells of post-extraction dental sockets in Wistar rats. *Dental Journal (Majalah Kedokteran Gigi)*, 51(3), pp.129-132.
- Krinke, G.J. 2000. *The Laboratory Rat*. San Diego, CA: Academic Press. Pp 150-152
- Kumar NS, Chandran TB, Namratha S, Bharath BR, Kumar CHP, Kishore V. 2013. *Production of Theobromine from Pseudomonas sp*. IRJP. Vol.4(2). pp.151-4
- Kumar S & Pandey AK. 2013. *Chemistry and Biological Activities of Flavonoid An Overview*.The Scientific World Journal. pp.1-16
- Kurnia, P.A. and Ardhiyanto, H.B., 2015. Potensi Ekstrak Teh Hijau (*Camellia sinensis*) Terhadap Peningkatan Jumlah Sel Fibroblas Soket Pasca Pencabutan Gigi pada Tikus Wistar (The Potency of Green Tea Extract [Camellia sinensis] Against Increase of Fibroblast Cells on Socket Post Tooth Extracti. *Pustaka Kesehatan*, 3(1), pp.122-127.
- Larmas, M. and Sándor, G.K., 2014. Enzymes, dentinogenesis and dental caries: a literature review. *Journal of oral & maxillofacial research*, 5(4).
- Larjava H, 2012. *Oral Wound Healing : Cell Biology and Clinical Management*. USA: Wiley Blackwell. pp 313-332.
- Lee, K.W., Kim, Y.J., Lee, H.J. and Lee, C.Y., 2003. Cocoa has more phenolic phytochemicals and a higher antioxidant capacity than teas and red wine. *Journal of agricultural and food chemistry*, 51(25), pp.7292-7295.

- Leopoldini, M., Russo, N. and Toscano, M., 2011. The molecular basis of working mechanism of natural polyphenolic antioxidants. *Food Chemistry*, 125(2), pp.288-306.
- Lestari,C., Widjijono, dan Murdiastuti, K. 2009. Pengaruh Ekstrak Gambir Terstandarisasi (*Uncaria Gambir* (Hunter) Roxb) sebagai Periodontal Dressing terhadap Penyembuhan Luka Gingiva Kelinci (*Oryctolagus cuniculus*). *Majalah Kedokteran Gigi*. Vol. 16.
- Li, Zhaofei., Cao, L., Fan, M. and Xu, Q., 2015. Direct pulp capping with calcium hydroxide or mineral trioxide aggregate: a meta-analysis. *Journal of endodontics*, 41(9), pp.1412-1417.
- Lin, S.Y., Kang, L., Wang, C.Z., Huang, H., Cheng, T.L., Huang, H.T., Lee, M.J., Lin, Y.S., Ho, M.L., Wang, G.J. and Chen, C.H., 2018. (-)-Epigallocatechin-3-Gallate (EGCG) Enhances Osteogenic Differentiation of Human Bone Marrow Mesenchymal Stem Cells. *Molecules*, 23(12), p.3221.
- Mahmood, T., Akhtar, N. and Khan, B.A., 2010. The morphology, characteristics, and medicinal properties of *Camellia sinensis* tea. *Journal of Medicinal Plants Research*, 4(19), pp.2028-2033.
- Maligan JM, et al. 2016. Produksi dan identifikasi senyawa antimikroba dari mikroalga *Tetraselmis chuii* dengan metode UAE (kajian jenis pelarut dan jumlah siklus ekstraksi). *Jurnal Teknologi Pertanian* 17(3): 203-213.
- Martín-González, J., Sánchez-Jiménez, F., Pérez-Pérez, A., Carmona-Fernández, A., Sánchez-Margalet, V. and Segura-Egea, J.J., 2013. Leptin expression in

- healthy and inflamed human dental pulp. *International endodontic journal*, 46(5), pp.442-448.
- Min, K.S., Kwon, Y.Y., Lee, H.J., Lee, S.K., Kang, K.H., Lee, S.K. and Kim, E.C., 2006. Effects of proinflammatory cytokines on the expression of mineralization markers and heme oxygenase-1 in human pulp cells. *Journal of endodontics*, 32(1), pp.39-43.
- Mohammadi Z, Dummer PMH. 2011. Properties and applications of calcium hydroxide in endodontics and dental traumatology. *International Endodontic Journal* 44 : 697-730.
- Montero, J.C. and Mori, G.G., 2012. Assessment of ion diffusion from a calcium hydroxide-propolis paste through dentin. *Brazilian oral research*, 26(4), pp.318-322.
- Mulyatni, A.S., Budiani, A. and Taniwiryo, D., 2016. Aktivitas antibakteri ekstrak kulit buah kakao (*Theobroma cacao* L.) terhadap *Escherichia coli*, *Bacillus subtilis*, dan *Staphylococcus aureus*. *E-Journal Menara Perkebunan*, 80(2).
- Murad, A., Nath, A.K., Cha, S.T., Demir, E., Flores-Riveros, J. and Sierra-Honigmann, M.R., 2003. Leptin is an autocrine/paracrine regulator of wound healing. *The FASEB journal*, 17(13), pp.1895-1897.
- Nakamura, Y., Tsuji, S. and Tonogai, Y., 2003. Analysis of proanthocyanidins in grape seed extracts, health foods and grape seed oils. *Journal of health science*, 49(1), pp.45-54.
- Nanci A, 2008. Oral Histology Development Structure and Function. *Mosby Elsevier, St Louis*. Pp 2-290

- Nofitahesti I. 2014. Kandungan polifenol sebagai potensi kulit buah dan salut biji kakao (*Theobroma cacao* L.) sebagai antioksidan. Skripsi. Fakultas Biologi UGM : Yogyakarta.
- Nguyen, V.T. and Nguyen, N.H., 2017. Proximate Composition, Extraction, and Purification of Theobromine from Cacao Pod Husk (*Theobroma Cacao* L.). *Technologies*, 5(2), p.2.
- Panganiban, C.A., Reyes, R.B., Agojo, I., Armedilla, R., Consul, J.Z., Dagli, H.F. and Esteban, L., 2012. Antibacterial Activity of Cacao (*Theobroma Cacao* Linn.) Pulp Crude Extract Against Selected Bacterial Isolates. *IAMURE International Journal of Science and Clinical Laboratory*, 1(1), pp.1-1.
- Parameswaran, A., 2010. Grossman's endodontic practice. *Journal of Conservative Dentistry*, 13(3), p.165.
- Park, S.H., Ye, L., Love, R.M., Farges, J.C. and Yumoto, H., 2015. Inflammation of the dental pulp. *Mediators of Inflammation*, 2015.
- Parolia, A., Kundabala, M., Rao, N.N., Acharya, S.R., Agrawal, P., Mohan, M. and Thomas, M., 2010. A comparative histological analysis of human pulp following direct pulp capping with Propolis, mineral trioxide aggregate and Dycal. *Australian dental journal*, 55(1), pp.59-64.
- Perva-Uzunalić, A., Škerget, M., Knez, Ž., Weinreich, B., Otto, F. and Grüner, S., 2006. Extraction of active ingredients from green tea (*Camellia sinensis*): Extraction efficiency of major catechins and caffeine. *Food chemistry*, 96(4), pp.597-605.

- Prijambodo, S.K., 2005. Stimulasi Aktivitas Fibroblas Pulpa Dengan Pemberian TGF- β 1 Sebagai Bahan Perawatan Direct Pulp Capping: Penelitian Eksperimental (*Doctoral dissertation, Universitas Airlangga*).
- Pusat Penelitian Kopi dan Kakao Indonesia, 2008. Budidaya Kakao. Agromedia Pustaka, Jakarta. Hal 25-31.
- Rachmawaty, Mu'nisa, A., Pagarra, H. and Maulana, Z., 2018, June. Active Compounds Extraction of Cocoa Pod Husk (*Thebroma Cacao* L.) and Potential as Fungicides. In *Journal of Physics: Conference Series* (Vol. 1028, No. 1, p. 012013). IOP Publishing.
- Sahardi, S. And Djufry, F., 2016. Keragaman Karakteristik Morfologis dan Agronomis Plasma Nutfah Klon Harapan Kakao Lokal Sulawesi Selatan. *Jurnal Penelitian Tanaman Industri*, 21(3), pp.145-152.
- Saryono, 2013. Potensi Teh Hijau dalam Penyembuhan Luka : Sistematis Review. Prosiding Konferensi Nasional PPNI Jawa Tengah.
- Scapagnini, G., Davinelli, S., Di Renzo, L., De Lorenzo, A., Olarte, H., Micali, G., Cicero, A. and Gonzalez, S., 2014. Cocoa bioactive compounds: significance and potential for the maintenance of skin health. *Nutrients*, 6(8), pp.3202-3213.
- Singh, B.N., Shankar, S. and Srivastava, R.K., 2011. Green tea catechin, epigallocatechin-3-gallate (EGCG): mechanisms, perspectives and clinical applications. *Biochemical pharmacology*, 82(12), pp.1807-1821.
- Spoto G, Fiorini M, Rubini C, Tripodi D, Di Stillo M, Piatelli A, 2001. Alkaline phosphatase activity in normal and inflamed dental pulp. *J Endod* 27: p 180.

- Subhashini, R., Rao, U.M., Sumathi, P. and Gunalan, G., 2010. A comparative phytochemical analysis of cocoa and green tea. *Indian Journal of Science and Technology*, 3(2), pp.188-192.
- Sulistyowati T, 200, Teh *Camellia sinensis O.K. var. Assamica (Mast)* sebagai Salah Satu Sumber Antioksidan, *Cermin Dunia Kedokteran*, NO. 144, pp. 52-54.
- Suresh Chandra, B., 2010. Gopi Krishna V. *Grossman's Endodontic Practice*. P 27-29.
- Sutherland, B.A., Rahman, R.M. and Appleton, I., 2006. Mechanisms of action of green tea catechins, with a focus on ischemia-induced neurodegeneration. *The Journal of nutritional biochemistry*, 17(5), pp.291-306.
- Trilaksana, A.C., 2015. Dinamika Kadar Leptin dan Fibronektin Terhadap Calcium Hydroxide dan Mineral Trioxide Aggregate Sebagai Bahan Pulp Capping: Penelitian Eksperimental. *Disertasi Doktorat*, Universitas Hasanuddin.
- Towaha, Juniaty. 2013. Kandungan Senyawa Kimia pada Daun Teh. *Warta Penelitian dan Pengembangan Tanaman Industri*.19(3).
- Walton, R.E., Fouad, A., and Torabinejad, M., 2008. *Endodontics-E-Book: Principles and Practice*. Elsevier Health Sciences.p 21.
- Widiadnyani, N.K.E., Mulyawati, E. and Dayinah, H.S., Pengaruh Lama Kontak Kalsium Hidroksida dengan Bahan Pencampur Klorheksidin Diglukonat 2%, Salin, dan Lidokain Hcl 2% sebagai Bahan Sterilisasi Terhadap pH Dentin pada Segmen Sepertiga Apikalsaluran Akar. *Jurnal Kedokteran Gigi*, 5(2), pp.176-188.

- Williams LD, Farley, A., Cupelli, M., Alapati, S., Kennedy, M.S. and Dean, D. 2019. Effect of substrate stiffness on dental pulp stromal cells in culture. *Journal of Biomedical Materials Research Part A*, 106(7), pp. 1789-1797.
- Wollgast, J. and Anklam, E., 2000. Review on polyphenols in *Theobroma cacao*: changes in composition during the manufacture of chocolate and methodology for identification and quantification. *Food Research International*, 33(6), pp.423-447.
- Yamamoto, M., Kawashima, N., Takashino, N., Koizumi, Y., Takimoto, K., Suzuki, N., Saito, M. and Suda, H., 2014. Three-dimensional spheroid culture promotes odonto/osteoblastic differentiation of dental pulp cells. *Archives of oral biology*, 59(3), pp.310-317.
- Yu C, Abbott PV, 2007. An overview of the dental pulp: its functions and responses to injury. *Australian Dental Journal Supplement* 52(1 Suppl): S4-S16.
- Yuwono B, Elga S, Merry D, 2019. The Potential of Cacao (*Theobroma Cacao* L.) Pod Husk Extract on The Number of Fibroblast Cells of Wistar Rats Wound Post-Tooth Extraction. *Int J App Pharm*, 11(4).pp 30-32.