

DAFTAR PUSTAKA

- Bosshardt, D.D. dan Lang, N.P. (2005) The junctional epithelium: From health to disease. *Journal of Dental Research*. 84(1): 9–20.
- Cardoso, E.M., Reis, C. dan Manzanares-Céspedes, M.C. (2017) Chronic periodontitis, inflammatory cytokines, and interrelationship with other chronic diseases. 130(1): 98–104.
- Carter, S.D., Costa, P.F., Vaquette, C., Ivanovski, S., Hutmacher, D.W., dan Malda, J. (2017) Additive Biomanufacturing: An Advanced Approach for Periodontal Tissue Regeneration. *Annals of Biomedical Engineering*. 45(1): 12-22.
- Chen, M.H., Tsai, S.J., Bai, Y.M., Huang, K.L., Su, T.P., Chen, T.J., dan Hsu, J.W. (2022) Type 1 diabetes mellitus and risks of major psychiatric disorders: A nationwide population-based cohort study. *Diabetes & Metabolism*. 48(1): 101319.
- Craig, R.G., & Kamer, A. R. (2016) A Clinician Guide to Systemic Effects of Periodontal Disease. 1st ed. Berlin: Springer. Hal. 30
- Enggardipta, R.A., Haniastuti, T. dan Handajani, J. (2016) Efek eugenol terhadap jumlah sel inflamasi pada pulpa gigi molar tikus Sprague Dawley. *Majalah Kedokteran Gigi Indonesia*. 2(2): 66.
- Ermawati, T., Chriestedy, R., Fatimatuzzahro, N., dan Ganadya, A. (2020) Efek Gel Ekstrak Biji Kopi Robusta (*Coffea canephora*) terhadap Jumlah Sel Makrofag dan Limfosit Jaringan Gingiva Tikus Periodontitis. *Insisiva Dental Journal*. 9(2): 46-51.
- Ernilasari, Walil, K., Fitmawati, Roslim, D.I., Zumaidar, Saudah, dan Rayhannisa (2021) Antibacterial activity of leaves, flowers, and fruits extract of *etlingera elatior* from nagan raya district, indonesia against *escherichia coli* and *staphylococcus aureus*. *Biodiversitas*. 22(10): 4457–4464.
- Federer, W.T. (1967) Experimental design, theory, and application. Oxford and IBH Publ. Co. New Delhi: Ramsey SC, Galeano.
- Figueredo, C.M., Lira-Junior, R. dan Love, R.M. (2019) T and B cells in periodontal disease: new functions in a complex scenario. *International journal of molecular sciences*. 20(16): 3949.
- Firdaus, Rimbawan, Marliyati, S.A., dan Roosita, K. (2016) Model Tikus Diabetes yang Diinduksi Streptozotocin-Sukrosa untuk Pendekatan Penelitian Diabetes Melitus Gestasional. *Jurnal MKMI*. 12(1): 29-34
- Franco, C., Patricia, H. R., Timo, S., Claudia, B., dan Marcela, H. (2017) Matrix metalloproteinases as regulators of periodontal inflammation. *International Journal of Molecular Sciences*. 18(2): 1-12.

- Genco, R.J., Graziani, F. dan Hasturk, H. (2020) Effects of periodontal disease on glycemic control, complications, and incidence of diabetes mellitus. *Periodontology 2000*. 83(1): 9–65.
- Goud, B.J., Dwarakanath, V., dan Chikka, B.K. (2015) Streptozotocin-a diabetogenic agent in animal models. *Int J Pharm Pharm Res*. 3(1), 253-269.
- Hajishengallis, G. dan Sahingur, S.E. (2014) Novel inflammatory pathways in periodontitis. *Advances in dental research*. 26(1): 23–29.
- Halim, M. dan Halim, A. (2019) The effects of inflammation, aging and oxidative stress on the pathogenesis of diabetes mellitus (type 2 diabetes). *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 13(2): 1165–1172.
- Henderson, B. dan Kaiser, F. (2018) Bacterial modulators of bone remodeling in the periodontal pocket. *Periodontology 2000*. 76(1): 97–108.
- Hosseinzade, A., Sadeghi, O., Naghdipour Biregani, A., Soukhtehzari, S., Brandt, G.S. dan Esmailzadeh, A. (2019) Immunomodulatory effects of flavonoids: possible induction of T CD4+ regulatory cells through suppression of mTOR pathway signaling activity. *Frontiers in immunology*. 10: 51.
- Husna, F., Suyatna, F.D., Arozal, W., dan Purwaningsih, E.H. (2019) Model Hewan Coba pada Penelitian Diabetes Animal Model in Diabetes Research. *Mini Review Article Pharmaceutical Sciences and Research (PSR)*. 6(3): 131–141.
- Juwita, T., Puspitasari, I.M., dan Levita, J. (2018) Torch ginger (*Etlingera elatior*): A review on its botanical aspects, phytoconstituents and pharmacological activities. *Pak. J. Biol. Sci*. 21: 151-165.
- Juwita, T., Pakpahan, W.H.P., Puspitasari, I.M., Saptarini, N.M., dan Levita, J. (2020) Anti-inflammatory activity of *etlingera elatior* (Jack) r.m. smith flower on gastric ulceration-induced wistar rats. *Pakistan Journal of Biological Sciences*. 23(9): 1193–1200.
- Kainama, H., Fatmawati, S., Santoso, M., Papilaya, P.M., dan Ersam, T. (2020) The Relationship of Free Radical Scavenging and Total Phenolic and Flavonoid Contents of *Garcinia lasoar* PAM. *Pharmaceutical Chemistry Journal*. 53: 1151-1157.
- Kirschnek, S., Ying, S., Fischer, S.F., Häcker, H., Villunger, A., Hochrein, H. dan Häcker, G. (2005) Phagocytosis-induced apoptosis in macrophages is mediated by up-regulation and activation of the Bcl-2 homology domain 3-only protein Bim. *The Journal of Immunology*. 174(2): 671-679.
- Könönen, E., Gursoy, M. dan Kahraman Gursoy, U. (2019) Clinical Medicine Periodontitis: A Multifaceted Disease of Tooth-Supporting Tissues. *J. Clin. Med*. 8(1135): 1-12.

- Kurgan, S. dan Kantarci, A. (2018) Molecular basis for immunohistochemical and inflammatory changes during progression of gingivitis to periodontitis. *Periodontology 2000*. 76(1): 51–67.
- Kwon, T.H., Lamster, I.B. dan Levin, L. (2021) Current Concepts in the Management of Periodontitis. *International Dental Journal*. 71(6): 462–476.
- Lahamendu, B., Bodhi, W, dan Siampa, J.P. (2019) Uji Efek Analgetik Ekstrak Etanol Rimpang Jahe Putih (*Zingiber officinale Rosc.var. Amarum*) pada Tikus Putih Jantan Galur Wistar (*Rattus norvegicus*). *Pharmacoon*. 8(4): 928-935.
- Li, Y., Du, Z., Xie, X., Zhang, Y., Liu, H., Zhou, Z., Zhao, J., Lee, R.S.B., Xiao, Y., Ivanoviski, S., dan Yan, F. (2021) Epigenetic changes caused by diabetes and their potential role in the development of periodontitis. *Journal of Diabetes Investigation*. 12(8): 1326–1335.
- Lin, P., Niimi, H., Ohsugi, Y., Tsuchiya, Y., Shimohira, T., Komatsu, K., Liu, A., Shiba, T., Aoki, A., Iwata, T. dan Katagiri, S. (2021) Application of Ligature-Induced Periodontitis in Mice to Explore the Molecular Mechanism of Periodontal Disease. *International Journal of Molecular Sciences*, 22(16): 8900.
- Lovic, D., Piperidou, A., Zografou, I., Grassos, H., Pittaras, A., dan Manolis, A. (2018) The Growing Epidemic of Diabetes Mellitus. *Current Vascular Pharmacology*. 18(2): 104–109.
- Luong, A., Tawfik, A.N., Islamoglu, H., Gobriel, H.S., Ali, Nada, Ansari, P., Shah, R., Hung, T., Patel, T., Henson, B., Thankam, F., Lewis, J., Mintline, M., Boehm, T., Tumur, Z., dan Seleem, D. (2021) Periodontitis and diabetes mellitus co-morbidity: A molecular dialogue. *Journal of Oral Biosciences*. 63(4): 360–369.
- Ma, C., Yu, H., Xiao, Y., dan Wang, H. (2017) Momordica charantia extracts ameliorate insulin resistance by regulating the expression of SOCS-3 and JNK in type 2 diabetes mellitus rats. *Pharmaceutical Biology*. 55(1): 2170-2177.
- Manaithiya, A., Alam, O., Sharma, V., Javed Naim, M., Mittal, S., Khan, I. A. (2021) GPR119 agonists: Novel therapeutic agents for type 2 diabetes mellitus. *Bioorganic Chemistry*. 113: 104998.
- Martínez, G., Mijares, M.R. dan De Sanctis, J.B. (2019) Effects of flavonoids and its derivatives on immune cell responses. *Recent patents on inflammation & allergy drug discovery*. 13(2): 84-104.
- Mathew, J.E., Jacob, J. J., dan Kalra, S. (2021) Periodontitis management in diabetes care. *Journal of the Pakistan Medical Association*. 78(8): 2097-2099.

- Maqbool, M., Dar, M.A., Gani, I., dan Mir, S.A. (2019) Animal Models in Diabetes Mellitus: An Overview. *Journal of Drug Delivery & Therapeutics*. 9(1-s): 472-475
- Mescher, A.L. (2018) *Junqueira's Basic Histology Text and Atlas. 15th ed.* McGraw-Hill Education. New York. Hal. 246, 263.
- Ndraha, S. (2014) *Diabetes Melitus Tipe 2 Dan Tatalaksana Terkini.*
- Newman, M.G., Takei, H. H., Klokkevold, P. R., & Carranza, F. A. (2019) *Newman and Carranza's Clinical Periodontology*. 13th ed. Amsterdam: Elsevier. Hal. 19, 32, 38, 41, 342, 944.
- Newman, M.G., Elangovan, S., Dragan, I. F., dan Karan, A. K. (2020) *Newman and Carranza's Essentials of Clinical Periodontology - An Integrated Study Companion*. 1st ed. Amsterdam: Elsevier. Hal. 94, 96-99.
- Ohlrich, E.J., Cullinan, M.P. and Seymour, G.J. (2009) The immunopathogenesis of periodontal disease. *Australian dental journal*. 54: S2-S10.
- Pirih, F.Q., Monajemzadeh, S., Singh, N., Sinacola, R.S., Shin, J.M., Chen, T., Fenno, J.C., Kamarajan, P., Rickard, A.H., Travan, S. dan Paster, B.J. (2021) Association between metabolic syndrome and periodontitis: The role of lipids, inflammatory cytokines, altered host response, and the microbiome. *Periodontology 2000*, 87(1): 50-75.
- Pradana, D.A., Ardhi, M., Hasyono, A.C.D.U., Meytasari, D., Nabilah, F.D., Istikharah, R., dan Chabib, L. (2019) Nanocurcumin Preparation for Reducing Vcam-1 and IL-6 in High Fat Diet-Induced Hyperlipidemic Rats. *Indonesian Journal of Pharmacy*. 30(1): 58.
- Prasetya, R.C., Praharani, D., Fatimatuszahro, N., Ermawati, T., dan Tsalats, F.O., N. (2021) Efek pemberian seduhan kopi robusta (*Coffea canephora*) terhadap jumlah sel makrofag dan limfosit pada model tikus periodontitis kronis. *Padjadjaran Journal of Dental Researchers and Students*. 5(1): 18
- Preshaw, P.M., Alba, A. L., Herrera, D., Jepsen, S., Konstantinidis, A., Makrilakis, K., dan Taylor, R. (2012) Periodontitis and diabetes: A two-way relationship. *Diabetologia*, 55(1): 21–31
- Preshaw, P.M. dan Taylor, J.J. (2011) How has research into cytokine interactions and their role in driving immune responses impacted our understanding of periodontitis?. *Journal of Clinical Periodontology*. 38(SUPPL. 11): 60–84.
- Razali, N.M., dan Wah, Y.B. (2011) Power comparison of Shapiro-Wilk, Kolmogorov-Smirnov, Lilliefors and Anderson-Darling tests. *Journal of Statistical Modeling and Analytics*. 2(1): 21-33
- Rehman, K., Akash, M.S.H., Liaqat, A., Kamal, S., Qadir, M.I., dan Rasul., A. (2017) Role of Interleukin-6 in Development of Insulin Resistance and Type 2 Diabetes Mellitus. *Critical Reviews™ in Eukaryotic Gene Expression*. 27(3): 229-236.

- Riwanti, P. dan Izazih, F. (2020) Artikel Penelitian Pengaruh Perbedaan Konsentrasi Etanol pada Kadar Flavonoid Total Ekstrak Etanol 50,70 dan 96% *Sargassum polycystum* dari Madura. *J-PhAM Journal of Pharmaceutical Care Anwar Medika*. 82(2): 2654–8364.
- Romano, F., Perotto, S., Mohamed, S.E.O., Bernardi, S., Giraudi, M., Caropreso, P., Mengozzi, G., Baima, G., Citterio, F., Berta, G.N., Durazzo, M., Gruden, G., dan Aimetti, M. (2021) Bidirectional Association between Metabolic Control in Type-2 Diabetes melitus and Periodontitis Inflammatory Burden: A Cross-Sectional Study in an Italian Population, *J. Clin. Med.* 10(1787): 1-14.
- Roni, A., Astarly, A., dan Nawawi, A. (2018) Uji Aktivitas Antioksidan, Penetapan Kadar Fenolik dan Flavonoid Total Ekstrak Etanol dari Daun, Batang, dan Kulit Batang Karamunting (*Melastoma malabathricum* L.). *Sainstech Farma*. 11(1): 1-6.
- Rusyanti, Y., Widyaputra, S. dan Maskoen, A.M. (2019) Periodontal tissue destruction in aggressive periodontitis: Determination of gene or environmental factors. *The Saudi Dental Journal*. 31(2): 290–299.
- Santoso, O. (2019) *Infeksi Periodontal Sebagai Faktor Risiko Kondisi Sistemik*, *ODONTO Dental Journal*.
- Sari, R., Herawati, D., Nurcahyanti, R., dan Wardani, P. K. (2017) Prevalensi periodontitis pada pasien diabetes mellitus (Studi observasional di poliklinik penyakit dalam RSUP Dr. Sardjito). *Majalah Kedokteran Gigi Indonesia*. 3(2): 98.
- Saudah, Ernilasari, Fitmawati, Roslim, D.I., Zumaidar, Darusman, Monalisa, dan Umam, A.H. (2021) A phytochemical screening of Bakkala (*Etlingera elatior*) originated from Suakbugis, Aceh, Indonesia and its potential in ethnobotany. *International Journal of Herbal Medicine*. 9(4): 37-42.
- Schweinfurt, M. K. (2020) The social life of Norway rats (*Rattus norvegicus*). *eLife*. 9: 1-26.
- Slots, J. (2017) Periodontitis: facts, fallacies and the future. *Periodontology 2000*. Blackwell Munksgaard. 7–23.
- Srey, C., Sontimuang, C., Thengyai, S., Ovatlarnporn, C., dan Puttarak, P. (2014) Anti α -glucosidase, anti α -amylase, anti-oxidation, and anti-inflammation activities of *Etlingera elatior* rhizome. Available online www.jocpr.com *Journal of Chemical and Pharmaceutical Research*. 6(12): 885–891.
- Sun, H., Saeedi, P., Karuranga, S., Pinkepank, M., Ogurtsova, K., Duncan, B. B., Stein, C., Basit, A., Chan, J. C. N., Mbanya, J. C., Pavkov, M. E., Ramachandaran, A., Wild, S. H., James, S., Herman, W. H., Zhang, P., Bommer, C., Kuo, S., Boyko, E. J., Magliano, D. J. (2022). IDF Diabetes Atlas: Global, regional and country-level diabetes prevalence estimates for 2021 and projections for 2045. *Diabetes Research and Clinical Practice*. 183(2022): 1-13.

- Taufik, M., Alfian, Z., Ardilla, D., Razali, M., Kurniawan, I., Nasution, N. W. A., Pulungan, R. A., dan Sitohang, S. D. (2020) Development of Maceration Methods in the Investigation and Analysis of Lard in Industrial Food Products to Improve Halal Product in Indonesia. *ICOCSTI 2019*. 239-244.
- Tonetti, M.S., Greenwell, H. dan Kornman, K.S. (2018) Staging and grading of periodontitis: Framework and proposal of a new classification and case definition. *Journal of Periodontology*. 89: S159–S172.
- Tortora, G. J., dan Derrickson, B. (2012), *Principles of Anatomy and Physiology*. John Wiley and Sons, USA. Hal. 664, 672, dan 674.
- Verhulst, M.J.L., Loos, B. G., Gerdes, V. E. A., dan Teeuw, W. J. (2019) Evaluating all potential oral complications of diabetes mellitus. *Frontiers in Endocrinology*. 10(FEB): 56.
- Viswanath, B., Choi, C. S., Lee, K., dan Kim, S. (2017) Recent trends in the development of diagnostic tools for diabetes mellitus using patient saliva. *TrAC Trends in Analytical Chemistry*. 89: 60–67.
- Yudina, M.S., Gumay, A.R. dan Muniroh, M. (2019) Efek Pemberian Ekstrak Daun *Carica pubescens* Terhadap Jumlah Limfosit Tikus Sprague dawley Yang Diinduksi Azoxymethane: Studi Di Laboratorium Penelitian Dan Pengujian Terpadu 4 Universitas Gadjah Mada. *DIPONEGORO MEDICAL JOURNAL (JURNAL KEDOKTERAN DIPONEGORO)*. 8(1): 255-266.
- Yunus, M.F., Ismail, N. A., Sundram, T. C. M., Zainuddin, Z., dan Rosli, N. M. (2021). Commercial potentials and agronomic status of *etlingera elatior*, a promising horticulture plant from zingiberaceae famili. *Agrivita*. 43(3): 665–678.
- Zou, H., Zhou, N., Huang, Y., Luo, A. dan Sun, J. (2022) Phenotypes, roles, and modulation of regulatory lymphocytes in periodontitis and its associated systemic diseases. *Journal of Leukocyte Biology*. 111(2): 451-467.