

## DAFTAR PUSTAKA

- Abul K. Abbas, Andrew H. Lichtman, & Shiv Pillai. (2021). *Cellular and Molecular Immunology Cellular and Molecular Immunology* (10th ed.). Elsevier Saunders. [https://books.google.co.id/books?id=1x0fEAAQBAJ&pg=PA571&hl=id&source=gbs\\_selected\\_pages&cad=1#v=onepage&q&f=false](https://books.google.co.id/books?id=1x0fEAAQBAJ&pg=PA571&hl=id&source=gbs_selected_pages&cad=1#v=onepage&q&f=false)
- Al-Musawi, M., & Ali, O. (2023). Assessment of Salivary Interleukin-1 $\beta$  Levels in Patients with Gingivitis and Periodontitis: An Analytical Cross-Sectional Study. *Dent. Hypotheses*, 14(1), 3–6. [https://doi.org/10.4103/DENTHYP.DENTHYP\\_148\\_22](https://doi.org/10.4103/DENTHYP.DENTHYP_148_22)
- Akram, Z., Alqahtani, F., Alqahtani, M., Al-Kheraif, A. A., and Javed, F., (2020) Levels of advanced glycation end products in gingival crevicular fluid of chronic periodontitis patients with and without type-2 diabetes mellitus. *JPER*, 91 (3). <https://doi.org/10.1002/JPER.19-0209>
- Alfadul, H., Sabico, S., and Al-Daghri, N. M., (2022) The role of interleukin-1 $\beta$  in type 2 diabetes mellitus: A systematic review and meta-analysis. *Front. Endocrinol.*, 13. <https://doi.org/10.3389/FENDO.2022.901616>
- American Diabetes Association, (2018) American Diabetes Association. Glycemic Targets: Standards of Medical Care in Diabetes 2018. *Diabetes Care*, 41(1)
- Banday MZ, Sameer AS, Nissar S., (2020) Pathophysiology of diabetes: An overview. *Avicenna J Med*, 10(4):174-188. doi: 10.4103/ajm.ajm\_53\_20.
- Bernabe, E., Marcenes, W., Hernandez, C. R., Bailey, J., Abreu, L. G., Alipour, V., Amini, dkk., (2020) Global, Regional, and National Levels and Trends in Burden of Oral Conditions from 1990 to 2017: A Systematic Analysis for the Global Burden of Disease 2017 Study. *JDR*. 99 (4). <https://doi.org/10.1177/0022034520908533>
- Bogoriani, N. W., Ariati, K., and Pratiwi, I. G. A. P. E., (2022) Potency of Balinese Kecombrang (*Etlingera elatior*) Extract as Antioxidant Against the Activity of Superoxide Dismutase (SOD), Glutathione (GSH) and Fatty liver in Obese rats. *Biomed. Pharmacol. J.*, 15 (1). <https://doi.org/10.13005/bpj/2372>
- Cardoso, E. M., Reis, C., and Manzanares-Céspedes, M. C., (2018) Chronic periodontitis, inflammatory cytokines, and interrelationship with other chronic diseases. *Postgrad. Med*, 130(1): 98–104. <https://doi.org/10.1080/00325481.2018.1396876>
- Chen, H., Fang, Q. Q., and Wang, B., (2020) The age of paraffin block influences biomarker levels in archival breast cancer samples. *Oncol. Lett*, 20(1): 525–532. <https://doi.org/10.3892/OL.2020.11586/HTML>
- Cheng, R., Wu, Z., Li, M., Shao, M., and Hu, T., (2020) Interleukin-1 $\beta$  is a potential therapeutic target for periodontitis: a narrative review. *Int J Oral Sci*, 12(1). <https://doi.org/10.1038/s41368-019-0068-8>

- Choubaya, C., Chahine, N., Aoun, G., Anil, S., Zalloua, P., and Salameh, Z., (2021) Expression of Inflammatory Mediators in Periodontitis Over Established Diabetes: An Experimental Study in Rats. *Med. Res*, 75(6). <https://doi.org/10.5455/medarh.2021.75.436-443>
- Cullen, S. P., Kearney, C. J., Clancy, D. M., and Martin, S. J., (2015) Diverse Activators of the NLRP3 Inflammasome Promote IL-1 $\beta$  Secretion by Triggering Necrosis. *J. Cell Rep*, 11 (10): 1535–1548. <https://doi.org/10.1016/J.CELREP.2015.05.003>
- Del Río-Celestino, M., and Font, R. (2020). The health benefits of fruits and vegetables. *J Foods*, 9 (3). <https://doi.org/10.3390/foods9030369>
- Dharshini, A. D., Jeevitha, M., and Jayaraman, S., (2021) A Comparative Evaluation of the Measurement of Interleukin-1 $\beta$  as Salivary Biomarker in Periodontitis Patients with and without Diabetes Mellitus. *J. pharm. res. int*, 33(61B): 257–264. <https://doi.org/10.9734/JPRI/2021/v33i61B35528>
- Dito, A., (2018) *Asuhan Keperawatan Diabetes Melitus dan Asuhan Keperawatan Stroke*. Google Play Book, vii–148. [https://www.google.co.id/books/edition/Asuhan\\_Keperawatan\\_Diabetes\\_Melitus\\_Dan/u\\_MeEAAAQBAJ?hl=id&gbpv=1&dq=buku+dm&pg=PP1&printsec=frontcover](https://www.google.co.id/books/edition/Asuhan_Keperawatan_Diabetes_Melitus_Dan/u_MeEAAAQBAJ?hl=id&gbpv=1&dq=buku+dm&pg=PP1&printsec=frontcover)
- Ekuni, D., Battino, M., Tomofuji, T., & Putnins, E. E. (Eds.). (2014). *Studies on Periodontal Disease*. Springer Science: New York <https://doi.org/10.1007/978-1-4614-9557-4>
- Elsayed, N. A., Aleppo, G., Aroda, V. R., Bannuru, R. R., Brown, F. M., Bruemmer, D., Collins, B. S., dkk., (2023) Classification and Diagnosis of Diabetes: Standards of Care in Diabetes-2023. *Diabetes care*, 46(Suppl 1), S19–S40. <https://doi.org/10.2337/DC23-S002>
- Ertugrul, A. S., (2017) Association of TNF-A, IL-1 $\beta$  with Chronic Periodontitis and Type 2 Diabetes Mellitus. *J. dent health oral disord. ther*, 6(1). <https://doi.org/10.15406/jdhodt.2017.06.00188>
- Fărcaș-Berechet, C. M., Berechet, E. M., Crăițoiu, Ș., Mehedinți, M. C., Osman, A., Eremia, I. A., Popescu, C., dkk., (2019) Clinical, statistical, histological and immunohistochemical aspects of periodontal changes in patients with diabetes mellitus. *Rom J Morphol Embryol*, 60(4).
- Farida, S., dan Maruzy, A., (2016) Kecombrang (*Etlingera Elatior*): Sebuah Tinjauan Penggunaan Secara Tradisional, Fitokimia Dan Aktivitas Farmakologinya. *J. Med. Plants Stud*, 9(1). <https://doi.org/10.22435/toi.v9i1.6389.19-28>
- Fatimatuzzahro, N., (2014) *Ekspresi Tumor Necrosis Factor- $\alpha$  (TNF- $\alpha$ ) dan Interleukin- 1 $\beta$  (IL-1 $\beta$ ) sebagai Respon Pulpa Setelah Aplikasi Asam Fosfat 37% dan Ethylene Diamine Tetraacetic Acid 19% Peneliti/Pelaksana*. <https://text-id.123dok.com/document/nzw0v70y-ekspresi-tumor-necrosis->

[factor-a-dan-interleukin-1b-sebagai-respon-pulpa-setelah-aplikasi-asam-fosfat-37-dan-ethylene-diamine-tetraacetic-acid-19.html](http://factor-a-dan-interleukin-1b-sebagai-respon-pulpa-setelah-aplikasi-asam-fosfat-37-dan-ethylene-diamine-tetraacetic-acid-19.html), (23/06/2023)

- Fitrianita, A., Yardi, Y., dan Musir, A., (2018) Uji Efek Antihiperglikemia Ekstrak Etanol 70% Daun Kecombrang (*Etlingera Elatior*) pada Tikus Sprague Dawley dengan Penginduksi Aloksan. *Jurnal Sabdariffarma*, 14(1), 9–16. <https://doi.org/10.20885/JIF.VOL14.ISS1.ART2>
- Garcia, V. G., Knoll, L. R., Longo, M., Novaes, V. C. N., Assem, N. Z., Ervolino, E., de Toledo, B. E. C., and Theodoro, L. H., (2016) Effect of the probiotic *Saccharomyces cerevisiae* on ligature-induced periodontitis in rats. *J Periodontal Res*, 51(1). <https://doi.org/10.1111/jre.12274>
- Graves, D. T., Ding, Z., and Yang, Y., (2020) The impact of diabetes on periodontal diseases. *Periodontol.* 2000, 82, (1). <https://doi.org/10.1111/prd.12318>
- Hajishengallis, G. (2014). Immunomicrobial pathogenesis of periodontitis: keystones, pathobionts, and host response. *Trends in Immunology*, 35(1), 3–11. <https://doi.org/10.1016/J.IT.2013.09.001>
- Handajani, F., (2021) *Metode Pemilihan Dan Pembuatan Hewan Model Beberapa Penyakit Pada Penelitian*. Google Buku (S. Prabowo, Ed.). Zifatama Jawa. [https://books.google.co.id/books?id=cRg7EAAQBAJ&printsec=frontcover&hl=id&source=gbg\\_ge\\_summary\\_r&cad=0#v=onepage&q&f=false](https://books.google.co.id/books?id=cRg7EAAQBAJ&printsec=frontcover&hl=id&source=gbg_ge_summary_r&cad=0#v=onepage&q&f=false), (20/07/2023)
- Hernández Ceruelos, A., Romero-Quezada, L. C., Ruvalcaba Ledezma, J. C., and López Contreras, L., (2019) Therapeutic uses of metronidazole and its side effects: An update. *Eur Rev Med Pharmacol Sci*, 23(1). [https://doi.org/10.26355/eurrev\\_201901\\_16788](https://doi.org/10.26355/eurrev_201901_16788)
- Hidayat, A. A. A., (2019) *Modul Kuliah Metodologi Keperawatan* (M. Uliyah, Ed.). UMSurabaya Publishing.
- Holt, R. I. G., Cockram, C. S., Flyvbjerg, A., and Glodstein, B. J., (2019) *The Diabetes Textbook, Clinical Principles, Patient Management and Public Health Issues*. Wiley Blackwell. <https://doi.org/10.1007/978-3-030-11815-0>
- Huang, X., Yang, X., Ni, J., Xie, B., Liu, Y., Xuan, D., & Zhang, J. (2015). Hyperglucose contributes to periodontitis: involvement of the NLRP3 pathway by engaging the innate immunity of oral gingival epithelium. *J Periodontol*, 86(2), 327–335. <https://doi.org/10.1902/JOP.2014.140403>
- Jacob SP, Nath S (2013) Rat gingival model for testing drugs influencing inflammation. *IeJSME*, 7:8–16
- Juwita, T., Puspitasari, I. M., and Levita, J., (2018) Torch ginger (*Etlingera elatior*): A review on its botanical aspects, phytoconstituents and pharmacological activities. *Pak. J. Biol. Sci*, 21(4); 151–165. <https://doi.org/10.3923/PJBS.2018.151.165>

- Karimi, A., Majlesi, M., and Rafieian-Kopaei, M., (2015) Herbal versus synthetic drugs; beliefs and facts. *J. nephropharmacol*, 4(1): 27. [/pmc/articles/PMC5297475/](https://pubmed.ncbi.nlm.nih.gov/2597475/)
- Kementrian Kesehatan RI., (2017) *Pedoman Dan Standar Etik Penelitian Dan Pengembangan Kesehatan Nasional*. Komisi Etik Penelitian dan Pengembangan Kesehatan Nasional. <https://123dok.com/document/q29889jz-rev-pedoman-standar-etik-penelitian-pengembangan-kesehatan-nasional.html>, (20/07/2023)
- Liu, X., and Li, H., (2022) A Systematic Review and Meta-Analysis on Multiple Cytokine Gene Polymorphisms in the Pathogenesis of Periodontitis. *Front. Immunol*, 12, 713198. <https://doi.org/10.3389/FIMMU.2021.713198/BIBTEX>
- Liu, X., & Lu, M. (2023). Normal saline: Past, present, and future. *Sci. Prog*, 106(2). <https://doi.org/10.1177/00368504231168821>
- Longuespée, R., Casadonte, R., Schwamborn, K., Reuss, D., Kazdal, D., Kriegsmann, K., von Deimling, A., dkk., (2018) Proteomics in Pathology. *Proteomics*, 18(2), 1700361. <https://doi.org/10.1002/PMIC.201700361>
- Maimulyanti, A., and Prihadi, A. R., (2015) Chemical composition, phytochemical and antioxidant activity from extract of *Etlingera elatior* flower from Indonesia. *J. pharmacogn. phytochem*, 3(6).
- Marasabessy, N. B., Nasela, S. J., and Abidin, L. S., (2020) *Modul Pencegahan Penyakit Diabetes Meliitus (DM) Tipe 2*. Nasya Expanding Management, 1–32.
- Marcenes, W., Kassebaum, N. J., Bernabé, E., Flaxman, A., Naghavi, M., Lopez, A., and Murray, C. J. L., (2013) Global burden of oral conditions in 1990–2010: A systematic analysis. *J. Dent. Res*, 92(7). <https://doi.org/10.1177/0022034513490168>
- Marchesan, J., Girnary, M. S., Li, J., Miao, M. Z., Zhang, S., Sun, L., Morelli, T., Schoenfisch, M. H., Inohara, N., Offenbacher, S., & Jiao, Y. (2018). An Experimental Murine Model to Study Periodontitis HHS Public Access Editorial Summary. *Nat Protoc*, 13(10), 2247–2267. <https://doi.org/10.1038/s41596-018-0035-4>
- Maria, I., (2021) *Asuhan Keperawatan Diabetes Mellitus Dan Asuhan Keperawatan Stroke*. Yogyakarta: Deepublish. [https://books.google.co.id/books?id=u\\_MeEAAQBAJ](https://books.google.co.id/books?id=u_MeEAAQBAJ)
- Meng, S., Cao, J., Feng, Q., Peng, J., and Hu, Y., (2013) Roles of chlorogenic Acid on regulating glucose and lipids metabolism: a review. *eCAM*, <https://doi.org/10.1155/2013/801457>
- Meyle, J., and Chapple, I., (2015) Molecular aspects of the pathogenesis of periodontitis. *Periodontol*, 2000, 69 (1) :7–17. <https://doi.org/10.1111/PRD.12104>

- Miller, B. R., Nguyen, H., Hu, C. J. H., Lin, C., and Nguyen, Q. T., (2014) New and Emerging Drugs and Targets for Type 2 Diabetes: Reviewing the Evidence. *Am Health Drug Benefits*, 7(8): 452. [/pmc/articles/PMC24280522/](https://pubmed.ncbi.nlm.nih.gov/24280522/)
- Mirza, R. E., Fang, M. M., Ennis, W. J., & Kohl, T. J. (2013). Blocking interleukin-1 $\beta$  induces a healing-associated wound macrophage phenotype and improves healing in type 2 diabetes. *Diabetes*, 62(7), 2579–2587. <https://doi.org/10.2337/DB12-1450/-/DC1>
- Murakami, T., Takahata, Y., Hata, K., and Nishimura, R., (2020) Role of interleukin-1 and inflammasomes in oral disease. *J Oral Biosci*, 62(3), 242–248. <https://doi.org/10.1016/J.JOB.2020.07.003>
- Musir, A., and Farmasi, J., (2019) Antihyperglycemic Effect of 70 % Ethanolic Extract of Kecombrang (*Etlingera elatior*) Leaves on Alloxan-Induced Sprague Dawley Rats. *JIF*, 14 (1): 9-16.
- Newman, M., Takei, H., Klokkevold, P., and Carranza, F., (2019) *Newman dan Carranza's Clinical Periodontology 13th Edition*. USA: Saunders.
- Nor, N. A. M., Noordin, L., Bakar, N. H. A., and Ahmad, W. A. N. W., (2020) Evaluation of antidiabetic activities of *Etlingera elatior* flower aqueous extract in vitro and in vivo. *J. Appl. Pharm. Sci*, 10(8). <https://doi.org/10.7324/JAPS.2020.10805>
- Pahwa, R., Goyal, A., & Jialal, I. (2023). Chronic Inflammation. *Pathobiology of Human Disease: A Dynamic Encyclopedia of Disease Mechanisms*, 300–314. <https://doi.org/10.1016/B978-0-12-386456-7.01808-6>
- Pan, W., Wang, Q., & Chen, Q. (2019). The cytokine network involved in the host immune response to periodontitis. *Int J Oral Sci*, 11(3). <https://doi.org/10.1038/S41368-019-0064-Z>
- Pollack, R. M., Donath, M. Y., LeRoith, D., and Leibowitz, G., (2016) Anti-inflammatory agents in the treatment of diabetes and its vascular complications. *Diabetes Care*, 39. <https://doi.org/10.2337/dcS15-3015>
- Putri, H. S., (2021) *Etlingera Elatior* sebagai Antihiperglikemi pada Penderita Diabetes Mellitus. *J. penelit. keperawatan*, 3(1). <https://doi.org/10.37287/jppp.v3i1.386>
- Rachkeeree, A., Kantadoung, K., Suksathan, R., Puangpradab, R., Page, P. A., and Sommano, S. R., (2018) Nutritional Compositions and Phytochemical Properties of the Edible Flowers from Selected Zingiberaceae Found in Thailand. *Front. nutr*, 5. <https://doi.org/10.3389/FNUT.2018.00003>
- Sadeghipour, A., and Babaheidarian, P., (2019) Making formalin-fixed, paraffin embedded blocks. *Methods mol. biol*, 1897: 253–268. [https://doi.org/10.1007/978-1-4939-8935-5\\_22/COVER](https://doi.org/10.1007/978-1-4939-8935-5_22/COVER)
- Saeedi, P., Petersohn, I., Salpea, P., Malanda, B., Karuranga, S., Unwin, N., Colagiuri, dkk., (2019) Global and regional diabetes prevalence estimates for 2019 and projections for 2030 and 2045: Results from the International



- Diabetes Federation Diabetes Atlas, 9th edition. *Diabetes Res Clin Pract*, 157. <https://doi.org/10.1016/j.diabres.2019.107843>
- Satria, D., Waruwu, S. B., Yuandani, Purnomo, H., and Harahap, U., (2022) The effect of 1.3 bis(p-Hydroxyphenyl)urea compound on IL-6, IL-1 $\beta$ , TNF- $\alpha$  and COX-2 protein expression on  $\lambda$ -Carrageenaninduced rats. *Pharm*, 69(4). <https://doi.org/10.3897/pharmacia.69.e89217>
- Silalahi, M., (2017) *Senyawa Metabolit Sekunder Pada Etlingera elatior (Jack) R. M. Smith*. Surakarta: Program Studi Pendidikan Biologi Fakultas Keguruan Dan Ilmu Pendidikan Universitas Muhammadiyah.
- Soriano-Lerma, A., Magán-Fernández, A., Gijón, J., Sánchez-Fernández, E., Soriano, M., García-Salcedo, J. A., and Mesa, F. (2020) Short-term effects of hyaluronic acid on the subgingival microbiome in peri-implantitis: A randomized controlled clinical trial. *J. Periodontol*, 91(6):734–745. <https://doi.org/10.1002/JPER.19-0184>
- Sugimoto, M. A., Sousa, L. P., Pinho, V., Perretti, M., & Teixeira, M. M. (2016). Resolution of Inflammation: What Controls Its Onset? *Front Immunol*, 7(APR), 160. <https://doi.org/10.3389/FIMMU.2016.00160>
- Tsalamandris, S., Antonopoulos, A. S., Oikonomou, E., Papamikroulis, G. A., Vogiatzi, G., Papaioannou, S., dkk., (2019) The Role of Inflammation in Diabetes: Current Concepts and Future Perspectives. *Eur. Cardiol*, 14 (1), 50. <https://doi.org/10.15420/ECR.2018.33.1>
- USDA NRCS National Plant Data Team, (2023) *USDA Plants Database*. <https://plants.usda.gov/home/plantProfile?symbol=ETEL>, (04/07/2023)
- Wang, N., Liang, H., Zen, K., & Lenz, L. L. (2014). Molecular mechanisms that influence the macrophage M1-M2 polarization balance. *Front. Immunol*, 5:614. <https://doi.org/10.3389/fimmu.2014.00614>
- Wardani, I. G. A. A. K., (2020) Efektivitas Gel Ekstrak Bunga Kecombrang (*Etlingera elatior*) Sebagai Antiinflamasi Terhadap Mencit Yang Diinduksi Karagenan. *JINTO*, 6 (1). <https://doi.org/10.36733/medicamento.v6i1.808>
- Winata, T. (2022). *Pengaruh Ekstrak Etanolik Bunga Kecombrang (Etlingera elatior) Terhadap Jumlah Makrofag Pada Periodontitis Rattus norvegicus Terinduksi Diabetes Melitus Tipe 2*. Skripsi Kedokteran Gigi. Hal 21-41
- Wong, S. K., Lim, Y. Y., and Chan, E. W. C., (2013) Botany, uses, phytochemistry and pharmacology of selected Apocynaceae species: A review. *Pharmacogn. commun*, 3 (3).
- World Dental Federation, F., (2019) Global periodontal health: Adopted by the FDI General Assembly: 7 September 2018, Buenos Aires, Argentina. *Int. Dent. J*, 69(1): 13–14. <https://doi.org/10.1111/IDJ.12467>
- Wu, Y. Y., Xiao, E., and Graves, D. T., (2015) Diabetes mellitus related bone metabolism and periodontal disease. *Int J Oral Sci*, 7(2). <https://doi.org/10.1038/IJOS.2015.2>

- Zhanmu, O., Yang, X., Gong, H., and Li, X., (2020) Paraffin-embedding for large volume bio-tissue. *Sci. Rep*, 10(1): 1–8. <https://doi.org/10.1038/s41598-020-68876-5>
- Zhou, X., Zhang, W., Liu, X., Zhang, W., and Li, Y., (2015) Interrelationship between diabetes and periodontitis: Role of hyperlipidemia. *Arch. Oral Biol*, 60 (4). <https://doi.org/10.1016/j.archoralbio.2014.11.008>
- Zimmet, P. Z., Magliano, D. J., Herman, W. H., and Shaw, J. E., (2014) Diabetes: A 21st century challenge. *Lancet Diabetes Endocrinol*. 2(1). [https://doi.org/10.1016/S2213-8587\(13\)70112: 8](https://doi.org/10.1016/S2213-8587(13)70112: 8)
- Zanoli, L., Briet, M., Empana, J. P., Cunha, P. G., Maki-Petaja, K. M., Protogerou, A. D., Tedgui, A., Touyz, R. M., Schiffrin, E. L., Spronck, B., Bouchard, P., Vlachopoulos, C., Bruno, R. M., & Boutouyrie, P. (2020). Vascular consequences of inflammation: a position statement from the ESH Working Group on Vascular Structure and Function and the Artery Society. *J. Hypertens*, 38(9), 1682. <https://doi.org/10.1097/HJH.0000000000002508>