

DAFTAR PUSTAKA

- Abdulkhaleq, L. A., Assi, M. A., Abdullah, R., Zamri-Saad, M., Taufiq-Yap, Y. H., & Hezmee, M. N. M. 2018. The crucial roles of inflammatory mediators in inflammation: A review. *Veterinary World* **11**(5): 627–635.
<https://doi.org/10.14202/vetworld.2018.627-635>
- Abou Assi, R., Darwis, Y., Abdulbaqi, I. M., Khan, A. A., Vuanghao, L., & Laghari, M. H. 2017. *Morinda citrifolia* (Noni): A comprehensive review on its industrial uses, pharmacological activities, and clinical trials. In *Arabian Journal of Chemistry*: **10**(5): 691–707. <https://doi.org/10.1016/j.arabjc.2015.06.018>
- Afolayan, F. I. D., Adegbolagun, O. M., Irungu, B., Kangethe, L., Orwa, J., & Anumudu, C. I. 2016. Antimalarial actions of *Lawsonia inermis*, *Tithonia diversifolia* and *Chromolaena odorata* in combination. *Journal of Ethnopharmacology*: **191**(1): 188–194
<https://doi.org/https://doi.org/10.1016/j.jep.2016.06.045>
- Ahmadi, S., Abdolmaleki, A., & Jebeli Javan, M. 2023. *Chapter One - In silico study of natural antioxidants* 121: 1–43. Academic Press.
<https://doi.org/https://doi.org/10.1016/bs.vh.2022.09.001>
- Akter, J., Hossain, M. A., Takara, K., Islam, M. Z., & Hou, D. X. 2019. Antioxidant activity of different species and varieties of turmeric (*Curcuma* spp): Isolation of active compounds. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*: **21**(5): 9–17.
<https://doi.org/10.1016/j.cbpc.2018.09.002>
- Alamgeer, Sharif, A., Asif, H., Younis, W., Riaz, H., Bukhari, I. A., & Assiri, A. M. 2018. Indigenous medicinal plants of Pakistan used to treat skin diseases: A review. *Chinese Medicine (United Kingdom)*: **3**(1).
<https://doi.org/10.1186/s13020-018-0210-0>
- Alonso-Castro, A. J., Ruiz-Padilla, A. J., Ramírez-Morales, M. A., Alcocer-García, S. G., Ruiz-Noa, Y., Ibarra-Reynoso, L. D. R., Solorio-Alvarado, C. R., Zapata-Morales, J. R., Mendoza-Macías, C. L., Deveze-Álvarez, M. A., & Alba-Betancourt, C. 2019. Self-treatment with herbal products for weight-loss among overweight and obese subjects from central Mexico. *Journal of Ethnopharmacology*: **23**(4): 21–26.
<https://doi.org/https://doi.org/10.1016/j.jep.2019.01.003>
- Amarowicz, R., & Pegg, R. B. 2019. *Chapter One - Natural antioxidants of plant origin*. In I. C. F. R. Ferreira & L. Barros (Eds.), *Functional Food Ingredients from Plants*: 90: 1–81.
<https://doi.org/https://doi.org/10.1016/bs.afnr.2019.02.011>
- Apak, Reşat, Mustafa Özyürek, Kubilay Güçlü, and Esra Çapanoğlu. 2016. “Antioxidant Activity/Capacity Measurement. 1. Classification, Physicochemical Principles, Mechanisms, and Electron Transfer (ET)-Based Assays.” *Journal of Agricultural and Food Chemistry*: **64**(5):997–1027.
<https://doi.org/10.1021/acs.jafc.5b04739>
- Ayala, Antonio, Mario F. Muñoz, and Sandro Argüelles. 2014. Lipid Peroxidation: Production, Metabolism, and Signaling Mechanisms of Malondialdehyde and 4-Hydroxy-2-Nonenal. *Oxidative Medicine and Cellular Longevity*: **2014**: 1-31 <https://doi.org/10.1155/2014/360438>
- Arlianti, T., Heryanto, R., Wahyuni, S., Hadipoentyanti, E., & Purwiyanti, S. 2025. Selection of Superior Noni (*Morinda citrifolia*) Mother Tree in Cianjur Regency Based on Chemical Composition and Morphological Characteristics. *IOP Conference Series: Earth and Environmental Science*: **1482**(1): 1-9. <https://doi.org/10.1088/1755-1315/1482/1/012002>
- Bibak, H., Heydari, F., & Sadat-Hosseini, M. 2024. Exploring the power of data mining for uncovering traditional medicinal plant knowledge: A case study in Shahrababak, Iran. *PLoS ONE*: **19**(6): 1-12.
<https://doi.org/10.1371/journal.pone.0303229>
- Babij, N. R., McCusker, E. O., Whiteker, G. T., Canturk, B., Choy, N., Creemer, L. C., Amicis, C. V. D., Hewlett, N. M., Johnson, P. L., Knobelsdorf, J. A., Li, F., Lorsbach, B. A., Nugent, B. M., Ryan, S. J., Smith, M. R., & Yang, Q. 2016. NMR Chemical Shifts of Trace Impurities: Industrially Preferred Solvents Used in Process and Green Chemistry. *Organic Process Research and Development*: **20**(3): 661–667. <https://doi.org/10.1021/acs.oprd.5b00417>
- Birben, E., Sahiner, U. M., Sackesen, C., Erzurum, S., & Kalayci, O. 2012. *Oxidative Stress and Antioxidant Defense*.

- Biswas, S. K. 2016. Does the Interdependence between Oxidative Stress and Inflammation Explain the Antioxidant Paradox? In *Oxidative Medicine and Cellular Longevity*: **2016**: 1-9. <https://doi.org/10.1155/2016/5698931>
- Boudou, F., Belakredar, A., Keziz, A., Aissani, L., Alsaeedi, H., Cronu, D., Bechelany, M., & Barhoum, A. 2024. Therapeutic potential of Curcuma longa against monkeypox: antioxidant, anti-inflammatory, and computational insights. *Frontiers in Chemistry*: **12**: 1-14 <https://doi.org/10.3389/fchem.2024.1509913>
- Cano, A., Maestre, A. B., Hernández-Ruiz, J., & Arnao, M. B. 2023. ABTS/TAC Methodology: Main Milestones and Recent Applications. *Processes*: **11**(1): 1-10 <https://doi.org/10.3390/pr11010185>
- Capuano, E. 2024. Chapter 19 - Lipid oxidation promotes acrylamide formation in lipid-rich systems. In V. Gökmen & B. A. Mogol (Eds.), *Acrylamide in Food (Second Edition)*: Second Edition: 385–401. Academic Press. <https://doi.org/https://doi.org/10.1016/B978-0-323-99119-3.00009-6>
- Carmona, F., & Pereira, A. M. S. 2022. Prescription patterns of herbal medicines at a Brazilian Living Pharmacy: The Farmácia da Natureza experience, 2013–2019. *Journal of Herbal Medicine*: **36**(10):1-18. <https://doi.org/https://doi.org/10.1016/j.hermed.2022.100597>
- Chander, M. P., Kartick, C., Gangadhar, J., & Vijayachari, P. 2014. Ethno medicine and healthcare practices among Nicobarese of Car Nicobar – An indigenous tribe of Andaman and Nicobar Islands. *Journal of Ethnopharmacology*: **158**(1): 18–24. <https://doi.org/https://doi.org/10.1016/j.jep.2014.09.046>
- Che, C.-T., George, V., Ijnu, T. P., Pushpangadan, P., & Andrae-Marobela, K. 2024. Chapter 2 - Traditional medicine. In S. B. McCreath & Y. N. Clement (Eds.), *Pharmacognosy (Second Edition)*: Second Edition: 11–28. Academic Press. <https://doi.org/https://doi.org/10.1016/B978-0-443-18657-8.00037-2>
- Chen, L., Deng, H., Cui, H., Fang, J., Zuo, Z., Deng, J., Li, Y., Wang, X., & Zhao, L. 2018. Inflammatory responses and inflammation-associated diseases in organs. *Oncotarget*. 9(6): 7204-7218 www.impactjournals.com/oncotarget/
- Devi, M. S., Thangadurai, T. D., Manjubaashini, N., & Nataraj, D. 2023. Walnut shell biomass waste derived excitation-dependent CQDs for toxic insecticide sensing and protein denaturation inhibition – An ecofriendly and sustainable approach. *Diamond and Related Materials*: **136**: 1-10. <https://doi.org/10.1016/j.diamond.2023.110021>
- Dongmo Nguépi, M. S., Itoe, U. S., Itoe, F. A., Woutouoba Ntieche, D., Dize, D., Kemzeu, R., Noubissi, P. A., Kouemou, N., Tsouh Fokou, P. V., Tincho, M. B., & Fekam Boyom, F. 2024. Persea americana, Curcuma longa and Allium sativum extracts exhibit cercaricidal, anti-inflammatory and anti-oxidant activities. *South African Journal of Botany*: **169**: 268–275. <https://doi.org/10.1016/j.sajb.2024.04.024>
- Eiz, I. 2022. Significant Role of Free Radicals in Inflammation. *Oxidants and Antioxidants in Medical Science*: **11**(8): 01-02. <https://www.ejmoams.com/ejmoams-articles/significant-role-of-free-radicals-in-inflammation-90651.html>
- Elfahmi, Woerdenbag, H. J., & Kayser, O. 2014. Jamu: Indonesian traditional herbal medicine towards rational phytopharmacological use. *Journal of Herbal Medicine*: **4**(2): 51–73. <https://doi.org/https://doi.org/10.1016/j.hermed.2014.01.002>
- El-Saadony, M. T., Saad, A. M., Mohammed, D. M., Alkafaas, S. S., Ghosh, S., Negm, S. H., Salem, H. M., Fahmy, M. A., Mosa, W. F. A., Ibrahim, E. H., AbuQamar, S. F., & El-Tarabily, K. A. 2025. Curcumin, an active component of turmeric: biological activities, nutritional aspects, immunological, bioavailability, and human health benefits - a comprehensive review. *Frontiers in Immunology*: **16**: 1-43. <https://doi.org/10.3389/fimmu.2025.1603018>
- Fadilah Mumtazah, E., Salsabila, S., Suci Lestari, E., Khoirul Rohmatin, A., Noviana Ismi, A., Aulia Rahmah, H., Mugiarto, D., Daryanto, I., Billah, M., Stefani Salim, O., Renaldi Damaris, A., Dwi Astra, A., Binti Zainudin, L., & Noorizka Veronika Ahmad, G. 2020. Pengetahuan Mengenai Sunscreen dan Bahaya Paparan Sinar Matahari serta Prilaku Mahasiswa Teknik Sipil Terhadap Penggunaan Sunscreen. *Jurnal Farmasi Komunitas*: **7**(2): 63-68. <https://doi.org/10.20473/jfk.v7i2.21807>

- Gulcin, İ. 2020. Antioxidants and antioxidant methods: an updated overview. *Archives of Toxicology*: **9**(3): 651–715. <https://doi.org/10.1007/s00204-020-02689-3>
- Hafizh Pane, M., Rahman, A. O., & Ayudia, E. I. 2021. Gambaran Penggunaan Obat Herbal pada Masyarakat Indonesia dan Interaksinya terhadap Obat Konvensional Tahun 2020. *Journal of Medical Studies*: **1**(1): 40-62. <https://online-journal.unja.ac.id/joms/article/view/14527>
- Hamoudi, M., Amroun, D., Baghiani, A., Khennouf, S., & Dahamna, S. 2021. Antioxidant, anti-inflammatory, and analgesic activities of alcoholic extracts of ephedra nebrodensis from eastern algeria. *Turkish Journal of Pharmaceutical Sciences*: **18**(5): 574–580. <https://doi.org/10.4274/tjps.galenos.2021.24571>
- IQAir. 2024, May 18. Kualitas udara di Indonesia. <https://www.iqair.com/id/Indonesia>.
- Iweala, E. J., Uche, M. E., Dike, E. D., Etumnu, L. R., Dokunmu, T. M., Oluwapelumi, A. E., Okoro, B. C., Dania, O. E., Adebayo, A. H., & Ugbo, E. A. 2023. Curcuma longa (Turmeric): Ethnomedicinal uses, phytochemistry, pharmacological activities and toxicity profiles A review. *Pharmacological Research - Modern Chinese Medicine*: **6**: 1-12. <https://doi.org/10.1016/j.prmcm.2023.100222>
- Kim, J. H., Che, D. N., Park, J. H., Shin, J. Y., Jang, S. Il, & Cho, B. O. 2025. Anti-inflammatory effects of Elsholtzia ciliata extract on Poly I:C-treated RAW264.7 cells. *Journal of Ethnopharmacology*: **350**(1): 12-26. <https://doi.org/https://doi.org/10.1016/j.jep.2025.120026>
- Jahurul, M. H. A., Patricia, M., Shihabul, A., Norazlina, M. R., Ramlah George, M. R., Noorakmar, A. W., Lee, J. S., Jumardi, R., Jinap, S., & Zaidul, I. S. M. 2021. A review on functional and nutritional properties of noni fruit seed (Morinda citrifolia L.) and its oil. *Food Bioscience*: **41**(101000): 1-21. <https://doi.org/10.1016/J.FBIO.2021.101000>
- Malada, P. M., Mogashoa, M. M., & Masoko, P. 2022. The evaluation of cytotoxic effects, antimicrobial activity, antioxidant activity and combination effect of Viscum rotundifolium and Mystroxylon aethiopicum. *South African Journal of Botany*: **147**(1): 790–798. <https://doi.org/https://doi.org/10.1016/j.sajb.2022.03.025>
- Maryam, S., Khan, M. R., Shah, S. A., Zahra, Z., Batool, R., & Zai, J. A. 2019. Evaluation of anti-inflammatory potential of the leaves of Wendlandia heynei (Schult.) Santapau & Merchant in Sprague Dawley rat. *Journal of Ethnopharmacology*: **238**(2): 1-12. <https://doi.org/https://doi.org/10.1016/j.jep.2019.111849>
- Marbun, F. K., Tarigan, S. B., & Sudarti, S. 2023. Tinjauan Analisis Manfaat dan Dampak Sinar Ultraviolet Terhadap Kesehatan Manusia. *Jurnal Penelitian Inovatif*: **3**(3): 605–612. <https://doi.org/10.54082/jupin.235>
- Mehallah, H., Djebli, N., Ngoc Khanh, P., Xuan Ha, N., Thi Ha, V., Thu Huong, T., Dinh Tung, D., & Manh Cuong, N. 2024. In silico and in vivo study of anti-inflammatory activity of Morinda longissima (Rubiaceae) extract and phytochemicals for treatment of inflammation-mediated diseases. *Journal of Ethnopharmacology*: **328**(1): 1-8. <https://doi.org/https://doi.org/10.1016/j.jep.2024.118051>
- Meka, B., Ravada, S. R., Muthyala, M. K. K., Kurre, P. N., & Golakoti, T. 2018. Synthesis, in vitro and in silico evaluation of diaryl heptanones as potential 5LOX enzyme inhibitors. *Bioorganic Chemistry*: **80**(1): 408–421. <https://doi.org/https://doi.org/10.1016/j.bioorg.2018.06.015>
- Mulianto, N. 2020. Malondialdehid sebagai Penanda Stres Oksidatif pada Berbagai Penyakit Kulit. *Cermin Dunia Kedokteran*: **47**(1): 39–44. <https://doi.org/10.55175/cdk.v47i1.13>
- Nguyen, T., Chen, Xin, Chai, J., Li, R., Han, X., Chen, Xiaoxin, Liu, S., Chen, M., & Xu, X. 2020. Antipyretic, anti-inflammatory and analgesic activities of Periplaneta americana extract and underlying mechanisms. *Biomedicine & Pharmacotherapy*: **123**(1): 1-9. <https://doi.org/https://doi.org/10.1016/j.biopha.2019.109753>

- Nitteranon, V., Zhang, G., Darien, B. J., & Parkin, K. 2011. Isolation and synergism of in vitro anti-inflammatory and quinone reductase (QR) inducing agents from the fruits of *Morinda citrifolia* (noni). *Food Research International*: **44**(7): 2271–2277. <https://doi.org/10.1016/j.foodres.2010.11.009>
- Öztürk, C., Bayrak, S., Gerni, S., Atmaca, U., Bayrak, C., & Kızıltaş, H. 2026. Chalcone-based bioactive scaffolds: Comparative antioxidant, antibacterial, and anti-Alzheimer activities supported by docking analysis. *Journal of the Indian Chemical Society*: **103**(2): 1-7. <https://doi.org/https://doi.org/10.1016/j.jics.2026.102435>
- Payton, Florastina, Peter Sandusky, and William L. Alworth. 2007. "NMR Study of the Solution Structure of Curcumin." *Journal of Natural Products*: **70**(2):143–46. <https://doi.org/10.1021/np060263s>.
- Picking, D., Delgoda, R., Younger, N., Germosén-Robineau, L., Boulogne, I., & Mitchell, S. 2015. TRAMIL ethnomedicinal survey in Jamaica. *Journal of Ethnopharmacology*: **169**(1): 314–327. <https://doi.org/https://doi.org/10.1016/j.jep.2015.04.027>
- Pradipta, I. S., Aprilio, K., Febriyanti, R. M., Ningsih, Y. F., Pratama, M. A. A., Indradi, R. B., Gatera, V. A., Alfian, S. D., Iskandarsyah, A., & Abdulah, R. 2023. Traditional medicine users in a treated chronic disease population: a cross-sectional study in Indonesia. *BMC Complementary Medicine and Therapies*: **23**(1): 1-10. <https://doi.org/10.1186/s12906-023-03947-4>
- Ramvalho, A., Vale, A., Carvalho, F., Fernandes, E., & Freitas, M. 2025. Parabens exposure and its impact on diabetes: A review. *Toxicology*: **515**(1): 1-10. <https://doi.org/https://doi.org/10.1016/j.tox.2025.154125>
- Safriani, N., Rungkat, F. Z., Yuliana, N. D., & Prangdimurti, E. 2021. Immunomodulatory and Antioxidant Activities of Select Indonesian Vegetables, Herbs, and Spices on Human Lymphocytes. *International Journal of Food Science*: **2021**: 1-21. <https://doi.org/10.1155/2021/6340476>
- Saleem, A., Hameed, I., Akhtar, M. F., Ashraf, G. M., Alghamdi, B. S., Rahman, M. H., & Almashjary, M. N. 2023. Exploration of acute and chronic anti-inflammatory potential of *Quercus leucotrichophora* A. Camus extracts in Wistar rats: A mechanistic insight. *Frontiers in Pharmacology*: **14**(1): 1-10. <https://doi.org/10.3389/fphar.2023.1002999>
- Sánchez-García, R. M., Rodríguez-Luna, A., Santos, J., & Trujillo-Cayado, L. A. 2025. Ultrasonication-driven optimization of cricket protein nanoemulsions: influence of pH and rheological stabilizers. *Ultrasonics Sonochemistry*: **120**(1): 1-10. <https://doi.org/https://doi.org/10.1016/j.ultsonch.2025.107522>
- Shaik, M. I., Hamdi, I. H., & Sarbon, N. M. 2023. A comprehensive review on traditional herbal drinks: Physicochemical, phytochemicals and pharmacology properties. *Food Chemistry Advances*: **3**(1): 1-7. <https://doi.org/https://doi.org/10.1016/j.focha.2023.100460>
- Tumilaar, S. G., Hardianto, A., Dohi, H., & Kurnia, D. 2023. A Comprehensive Review of Free Radicals, Oxidative Stress, and Antioxidants: Overview, Clinical Applications, Global Perspectives, Future Directions, and Mechanisms of Antioxidant Activity of Flavonoid Compounds. *Journal of Chemistry*: **2024**: 1-21. <https://doi.org/10.1155/2024/5594386>
- Ullah, H. M. A., Zaman, S., Juhara, F., Akter, L., Tareq, S. M., Masum, E. H., & Bhattacharjee, R. 2014. Evaluation of antinociceptive, in-vivo & in-vitro anti-inflammatory activity of ethanolic extract of *Curcuma zedoaria* rhizome. *BMC Complementary and Alternative Medicine*: **14**(1): 1-13. <https://doi.org/10.1186/1472-6882-14-346>
- Uzunhisarcikli, M., & Aslanturk, A. 2019. Hepatoprotective effects of curcumin and taurine against bisphenol A-induced liver injury in rats. *Environmental Science and Pollution Research*: **26**(36): 37242–37253. <https://doi.org/10.1007/s11356-019-06615-8>
- Van Vuuren, S. F., Motlhatlego, K. E., & Netshia, V. 2022. Traditionally used polyherbals in a southern African therapeutic context. *Journal of Ethnopharmacology*: **288**(1): 1-9. <https://doi.org/https://doi.org/10.1016/j.jep.2022.114977>
- Vaou, N., Stavropoulou, E., Voidarou, C., Tsakris, Z., Rozos, G., Tsigalou, C., & Bezirtzoglou, E. 2022. Interactions between Medical Plant-Derived Bioactive Compounds: Focus on Antimicrobial Combination Effects. In *Antibiotics*: **11**(8): 1–23. <https://doi.org/10.3390/antibiotics11081014>

- Wan Osman, W. N. F., Che Ahmad Tantowi, N. A., Lau, S. F., & Mohamed, S. 2019. Epicatechin and scopoletin rich *Morinda citrifolia* (Noni) leaf extract supplementation, mitigated Osteoarthritis via anti-inflammatory, anti-oxidative, and anti-protease pathways. *Journal of Food Biochemistry*: **43**(3): 1-10. <https://doi.org/10.1111/jfbc.12755>
- Wang, R., Wang, L., Zhang, L., Wan, S., Li, C., & Liu, S. 2022. Solvents effect on phenolics, iridoids, antioxidant activity, antibacterial activity, and pancreatic lipase inhibition activity of noni (*Morinda citrifolia* L.) fruit extract. *Food Chemistry*: **377**(131989): 1-18. <https://doi.org/10.1016/J.FOODCHEM.2021.131989>
- Zhao, H., Wu, L., Yan, G., Chen, Y., Zhou, M., Wu, Y., & Li, Y. 2021. Inflammation and tumor progression: signaling pathways and targeted intervention. In *Signal Transduction and Targeted Therapy*: **6**(1): 1-8. <https://doi.org/10.1038/s41392-021-00658-5>