

**DAFTAR PUSTAKA**

- Ali F, Assanta MA, Robert C, 2011. *Gnetum africanum* : A Wild Food Plant from the African Forest with Many Nutritional and Medicinal Properties *I*. 14(11) 1289–1297.
- Alqahtani FY, Aleanizy FS, Mahmoud A Z, Farshori NN, Alfaraj R, Al-sheddi ES, Alsarra IA, 2019. Chemical composition and antimicrobial, antioxidant, and antiinflammatory activities of *Lepidium sativum* seed oil. *Saudi Journal of Biological Sciences*, 26(5): 1089–1092.
- Andasari SD, Hermanto AA, Wahyuningsih A, 2020. Perbandingan Hasil Skrining Fitokimia Daun Melinjo (*Gnetum gnemon* L.) Dengan Metode Maserasi dan Sokhletasi. *Jurnal Ilmu Farmasi*, 11(2): 27-31.
- Anisong N, Siripongvutikorn S, Wichienchot S, Puttara P, 2022. A comprehensive review on nutritional contents and functional properties of *Gnetum gnemon* Linn. *Food Science and Technology (Brazil)*, 42.
- Anu O, Rampe HL, Pelealu JJ, 2017. Struktur Sel Epidermis dan Stomata Daun Beberapa Tumbuhan Suku Euphorbiaceae. *Jurnal MIPA*, 6(1): 69.
- Apriyani AS, 2020. Uji Daya Hambat Perasan Daun Melinjo (*Gnetum gnemon* L.) Terhadap Pertumbuhan Bakteri *Escherichia coli*. [Thesis]. Yogyakarta: Poltekes Kemenkes Yogyakarta.
- Araujo JS, Azevado AA, Seliva LC, Meira RMSA, 2010. Leaf Anatomy as an Additional Taxonomy Tool For 16 Species Of Malpighiaceae Found In The Cerrado Area Brazil. *Plant Systematics and Evolution*, 286: 117-131
- Astuti IP, Solihah SM, Witono JR, 2016. Rediscovered of *Gnetum gnemon* var. *tenerum* Markgr. in Kalimantan. *Jurnal Biologi Indonesia*, 12(2): 313–315.
- Awaloei YM, Prastowo NA, Regina R, 2021. The correlation between skin

- type and acne scar severity in young adults. *Jurnal Kedokteran Dan Kesehatan Indonesia*, 12(1): 52–57.
- Azmin NFN, Ahmat N, Yusof MIM, Salim F, Jalil J, Dianita R, Tanjung M, 2024. The Biosynthetic Pathway of Stilbenoids from *Gnetum microcarpum* and SAR Study on Their PGE2 Inhibitory Activities. *Malaysian Journal of Chemistry*, 26(1):188–196.
- Azmin NFN, Ahmat N, Zawawi NKN, 2016. Chemical constituents from the lianas of *gnetum cuspidatum* blume. *Malaysian Journal of Analytical Sciences*, 20(2): 388–392.
- Barua CC, Haloi P, Barua IC, 2015. *Gnetum gnemon* linn. : A comprehensive review on its biological, pharmacological and pharmacognostical potentials. *International Journal of Pharmacognosy and Phytochemical Research*, 7(3): 531–539.
- Blandine L, Kenfack M, Serge E, Ghomdim H, Pascal J, Otabela M., 2023. Possibilities of valorization of *Gnetum* spp leaves in modern gastronomy : Production and characterization of new vegetable tarts and salads. *Helyon*
- Chatri M, Mella CE, Des M, 2020. Characteristics of Leaves Anatomy of Some *Syzgium* (Myrtaceae). *10*(February 2019), 19–22
- Darmapatni K AG, Basori A, Suaniti NM, 2016. Pengembangan Metode GC-MS untuk Penetapan Kadar Acetaminophen pada Spesimen Rambut Manusia. *Jurnal Biosains Pascasarjana*, 18(3): 255
- Dorly, Hafiz P, Rahayu S, 2013. Karakteristik Anatomi Daun Dari Sepuluh Spesies Hoya Sukulen Serta Analisis Hubungan Kekerabatannya. *Buletin Kebun Raya*, 16(1).
- Dickinson WC, 2000. *Integrative Plant Anatomy*. Harcourt Academic Press. San Diego
- Emniyet AA, Avci E, Ozcelik B, Alp Avci G, Kose DA, 2015. Antioxidant

- and antimicrobial activities with GC/MS analysis of the *Morus alba* L. Leaves. *Hittite Journal of Science Engineering*, 1(1): 37–41.
- Evert RF, 2006. *Essau's Plant Anatomy Third Edition*. Wiley Interscience. Canada.
- Ezekwe AS, Ugwuezumba PC, Nwankpa P, Egwurugwu JN, Ekweogu CN, Emengaha FC, Akukwu D, 2020. Qualitative Phytochemical Screening, GCMS Studies and In-Vitro Anti-Oxidative Properties of Aqueous Leaf Extract of *Gnetum africanum*. *Journal of Drug Delivery and Therapeutics*, 10(1): 11–17.
- Falquetto-Gomes P, Silva WJ, Siqueira JA, Araújo WL, Nunes-Nesi A, 2024. From epidermal cells to functional pores: Understanding stomatal development. *Journal of Plant Physiology*.
- Fauziah, Susanti, 2022. Morphological Structure and Fertility of Melinjo (*Gnetum gnemon* L.) Pollen based on Microscopic Data. *Berkala Ilmiah Biologi*, 13(2).
- Fawcett WR, Berg J, Kelleu PB, Lebtilla CB, Liu G, Larsen D, Harvatin P, Goodin D, McMahon B, 2024. Instrumental Analysis Lab Manual Libretext
- Hariri, M. R., Peniwidiyanti, P., Irsyam, A. S. D., & Astuti, R. S. (2021). Keanekaragaman, Status Konservasi, dan Potensi Suku Fabaceae Koleksi Kebun Raya Bogor. *Tropical Bioscience: Journal of Biological Science*, 1(2): 1–10.
- He J, Liang Y, 2018. Stomata. *Encyclopedia of Life Sciences*, 1–8.
- Hema R, Kumaravel S, 2016. *GC / MS determination of bioactive components of *Murraya koenigii**. May.
- Hotmian E, Suoth E, Fatimawali F, Tallei, T, 2021. Analisis GC-MS (Gas Chromatography - Mass Spectroscopy) Ekstrak Metanol Dari Umbi Rumput Teki (*Cyperus rotundus* L.). *Pharmakon*, 10(2): 849.

- Hou C, Wikström N, Strijk JS, Rydin C. 2016. Resolving phylogenetic relationships and species delimitations in closely related gymnosperms using high-throughput NGS, Sanger sequencing and morphology. *Plant Systematics and Evolution*, 302(9): 1345–1365.
- Humami DW, Sujono PAW, Desmawati I, 2020. Densitas dan Morfologi Stomata Daun *Pterocarpus indicus* di Jalan Arif Rahman Hakim dan Kampus ITS, Surabaya. *Rekayasa*, 13(3): 240–245
- Jayakumar S, Vijayaraghavan R, Saikarthik J, Ilango S, Vijayakumar J, 2017. Phytochemical Analysis of Methanolic Extract of Seeds of *Mucuna Pruriens* By Gas Chromatography Mass Spectrometry. *International Journal of Pharmaceutical Sciences and Research*, 8(7): 2916–2921.
- Juma'ani J, Munawwaroh A, 2017. Analisis Karakteristik Stomata SPada Daun Tanaman Bambu Rezeki (*Dracaena reflexa*) Sebagai Tanaman Hias Penyerapan Polusi di Kota Malang. *Edubiotik: Jurnal Pendidikan, Biologi Dan Terapan*, 2(02):7–12.
- Kim DH, Park MH, Choi YJ, Chung KW, Park CH, Jang EJ, An HJ, Yu BP, Chung HY, 2013. Molecular Study of Dietary Heptadecane for the Antiinflammatory Modulation of NF- $\kappa$ B in the Aged Kidney. *PLoS ONE*, 8(3).
- Kenfack LB, Ngangoum ES, Nzali HG, Djiazet S, Mekongo JP, Tchiégang C, 2023. Possibilities of valorization of *Gnetum* spp leaves in modern gastronomy: Production and characterization of new vegetable tarts and salads. *Heliyon*, 9(8).
- Kusuma C, Hikmat A, 2015. The Biodiversity of Flora in Indonesia. *Journal of Natural Resources and Environmental Management*, 5(2):187-198.
- Lawson T, Blatt MR, 2014. Stomatal size, speed, and responsiveness impact on photosynthesis and water use efficiency. *Plant Physiology*, 164(4):

1556–1570.

- Lim TK, 2012. *Edible Medicinal and Non-Medicinal Plants*. Springer. New York.
- Lüttge U, Buckeridge M, 2023. Trees: structure and function and the challenges of urbanization. *Trees - Structure and Function*, 37(1): 9–16.
- Ma YQ, Zhai YM, Deng Y, Guo L, Wan YQ, Tan CH, 2017. Stilbenophenylpropanoids from *Gnetum montanum* Markgr. *Phytochemistry Letters*, 21(1), 42–45.
- Marantika M, Hiarij A, Sahertian DE, 2021. Kerapatan dan Distribusi Stomata Daun Spesies Mangrove di Desa Negeri Lama Kota Ambon. *Jurnal Ilmu Alam Dan Lingkungan*, 12(1): 1–6.
- Mazumder K, Nabila A, Aktar A, Farahnaky A, 2020. Bioactive variability and in vitro and in vivo antioxidant activity of unprocessed and processed flour of nine cultivars of Australian lupin species: A comprehensive substantiation. *Antioxidants*, 9(4).
- Momodu IB, Okungbowa ES, Agoreyo BO, Maliki MM, 2022. Gas Chromatography – Mass Spectrometry Identification of Bioactive Compounds in Methanol and Aqueous Seed Extracts of *Azanza garckeana* Fruits. *Nigerian Journal of Biotechnology*, 38(1):15–38.
- Munthe RD, Nanda AA, Tanjung IF. 2023. Keanekaragaman Vegetasi Tumbuhan Gymnospermae Di Komplek Vetpur Medan State. *Jurnal Ilmiah Biosainstropis*,9(10): 45-51.
- Nadal JM, Gomes MS, Borsato DM, Almeida MA, Barboza FM, Zawadzki SF, Kanunfre CC, Farago PV, Zanin SMW, 2016. Spray-dried Eudragit L100 microparticles containing ferulic acid: Formulation, in vitro

- cytoprotection and in vivo anti-platelet effect. *Materials Science and Engineering C*, 64: 318–328.
- NCBI, 2024. National Center for Bioteknologi Informatif. Diaksesmelalui: <https://pubchem.ncbi.nlm.nih.gov/>
- Neelam, Khatkar A, Sharma KK, 2020. Phenylpropanoids and its derivatives: biological activities and its role in food, pharmaceutical and cosmetic industries. *Critical Reviews in Food Science and Nutrition*, 60(16): 2655–2675.
- Nurrohman E, Latifa R, Hadi S, 2022. Stomata Leaves Characteristics of Sapindaceae Family in Malabar Forest, Malang City. *Bioscience*, 6(2): 73.
- Ojewumi ME, Obanla OR, Taiwo SO, John AN, 2020. Phytochemical Screening and Microbial Assesment of Moringa oleifera Seed Crude Oil extract. *Rasayan Journal of Chemistry*, 15(1): 12–19.
- Papuangan NN, Djurumudi M, 2014. Jumlah Dan Distribusi Stomata Pada Tanaman Penghijauan Di Kota Ternate. *Jurnal Bioedukasi*, 2(1).
- Paul V, Pandey R, Sharma, Meena RC, 2017. Measurements of stomatal density and stomatal insex on leaf/plant surfaces. *Journal Division of Plant Physiology*, 27-30.
- POWO, 2024. Plants of the Word Online. Facilitated by the Royal Botanic gardens, Kew. Published on The Internet; <https://www.plantsoftheworldonline.org/> [Diakses 05Februari 2024].
- Prajnaparamita K, Susanti S. 2021. Karakter Morfologis Dan Perkembangan Anatomis Biji Melinjo (*Gnetum gnemon* L.). *Biogenesis*, 17(2): 49-60
- Rachmadiyanto AN, Hariri MR, Primananda E, Suhatman A, Kuswara U, 2021. Penilaian Kesehatan 12 Pohon Ikonis dan Bernilai Sejarah Di Kebun Raya Bogor. *Buletin Kebun Raya*, 24(3): 104-116.

- Rajagopal G, Periyasamy M, Rameshbabu B, 2014. Antimicrobial potential and bioactive constituents from aerial parts of *Vitis setosa* Wall. *Journal of Medicinal Plants Research*, 8(11): 454–460.
- Rindyastuti R, Hapsari L, 2017. Adaptasi Ekofisiologi Terhadap Iklim Tropis Kering: Studi Anatomi Daun Sepuluh Jenis Tumbuhan Berkayu. *Jurnal Biologi Indonesia*, 13(1): 1-15.
- Rudall PJ, Rice CL, 2019. Epidermal patterning and stomatal development in Gnetales. *Annals of Botany*, 124(1): 149–164.
- Sakoda K, Yamori W, Shimada T, Sugano SS, Hara-Nishimura I, Tanaka Y, 2020. Higher Stomatal Density Improves Photosynthetic Induction and Biomass Production in *Arabidopsis* Under Fluctuating Light. *Frontiers in Plant Science*, 11(2): 1–11.
- Salisbury, 1992. *Plant Physiology*. Wards Worth Publishing Company Belmont California, 682
- Sari DP, Kuswanto K, 2019. Studi Karakterisasi dan Keragaman Sifat Kualitatif Tanaman Rukam (*Flacourtia rukam* Zoll. & Mor.). *PLANTROPICA: Journal of Agricultural Science*, 4(2): 167–176.
- Savvides A, Fanourakis D, Van Ieperen W, 2013. Co-ordination of hydraulic and stomatal conductances across light qualities in cucumber leaves. *Journal of Experimental Botany*, 63(3): 1135–1143.
- Sayed MA, Elbanna SA, Ragab AA, Hafez E, Roushdi M, El Rhman AMMA, 2022. Effect of solid contents and the ratio of EVA/Octadecylacrylate blends on Paraffin Inhibition and pour point temperature of waxy crude oil. *Egyptian Journal of Chemistry*, 65(3): 611–618.
- Seo C, Lym SH, Jeong W, Lee JE, Kang JS, Kim WH, Choi CW, Hong SS, 2020. Flavonoids, stilbenoids, and phenolic derivatives from the stems of *Gnetum macrostachyum* (Gnetaceae). *Biochemical Systematics and*

- Ecology*, 90(2).
- Setiawan A, 2022. Keanekaragaman Hayati Indonesia: Masalah dan Upaya Konservasinya. *Indonesian Journal of Conservation*, 11(1): 13–21.
- Shahzad R, Waqas M, Khan AL, Hamayun M, Kang SM, Lee IJ, 2015. Foliar application of methyl jasmonate induced physio-hormonal changes in *Pisum sativum* under diverse temperature regimes. *Plant Physiology and Biochemistry*, 96: 406–416.
- Sianipar NF, Purnamaningsih R, Rosaria, 2016. Bioactive compounds of fourth generation gamma-irradiated *Typhonium flagelliforme* Lodd. mutants based on gas chromatography-mass spectrometry. *IOP Conference Series: Earth and Environmental Science*, 41(1).
- Sukarti, Risdawati, Illing I, 2023. Analisis Kandungan Senyawa Kimia Dari Ekstrak Kloroform Daun Akar Bulu (*Merremia vitifolia*) Menggunakan GC-MS. 5(2):30–38.
- Sumadji AR, Sativa O, 2016. *Angga Rahabistara Sumadji*. 69–84.
- Surahmaida S, Sudarwati TPL, Junairiah J, 2019. Analisis GCMS terhadap Senyawa Fitokimia Ekstrak Metanol *Ganoderma lucidum*. *Jurnal Kimia Riset*, 3(2):147.
- Suryani E, Zulkarnain, 2021 Inventarisasi dan Karakterisasi Melinjo (*Gnetum Gnemon*) di Kota Solok. *Menara Ilmu*, 15(2): 29–36.
- Taroreh TNC, Rumampuk JF, Siagian KV, 2016. Uji Daya Hambat Ekstrak Daun Melinjo (*Gnetum gnemon*) terhadap Pertumbuhan Bakteri *Streptococcus mutans*. *Jurnal Ilmiah Farmasi*, 5(3):160-166.
- Tekleva M, 2016. Pollen morphology and ultrastructure of several *Gnetum* species: an electron microscopic study. *Plant Systematics and Evolution*, 302(3): 291–
- Tian LW, Lv JJ, Liu Y, Song LY, Hou LB, Zhong C, Xie Y, 2017 A new



- dimeric stilbene from the lianas of *Gnetum parvifolium*. *Natural Product Research*, 31(13): 1495–1500.
- Tjitrosoepomo G, 2013. Taksonomi Tumbuhan (Spermatophyta). Gadjah Mada University Press. Yogyakarta
- Uzlafatunniswah E, 2023. Karakterisasi Morfologi dan Uji Kadar Flavonoid pada Berbagai Jenis *Gnetum* spp. Koleksi Kebun Raya Bogor. [Skripsi]. Serang: UIN Sultan Maulana Hasanuddin Banten.
- Vasco A, Thadeo M, Conover M, Daly DC, 2014. Preparation of samples for leaf architecture studies, a method for mounting cleared leaves. *Applications in Plant Sciences*, 2(9).
- Venn-watsonid SK, Butterworth CN, 2022. Aktivitas asam pentadecanoic yang lebih luas dan lebih aman dibandingkan dengan omega-3 : Evaluasi asam lemak esensial yang muncul di dua belas sistem penyakit utama berbasis sel manusia Perkenalan. 1–17.
- Walujo EB, 2011. Sumbangan Ilmu Etnobotani dalam Memfasilitasi Hubungan Manusia dengan Tumbuhan dan Lingkungannya. *J. Biol. Indonesia*, 7(2): 375 - 391.
- Widianti P, Violita V, Chatri M, 2017. Leaf Area and Stomata Index of Rice Plants (*Oryza sativa* L.) Cisokan and Batang Piaman Varieties to Drought Stress. *BioScience*, 1(2), 77.
- Wulansari TYI, Agustiani EL, Sunaryo, Tihurua EF, 2020. Struktur Anatomi Daun Sebagai Bukti Dalam Pembatasan Takson Tumbuhan Berbunga: Studi Kasus 12 Suku Tumbuhan Berbunga Indonesia. *Buletin Kebun Raya*, 23(2):146–161
- Wulansari TYI, Dewi AP, 2021. Struktur Anatomi Daun Phyllanthaceae di Kabupaten Banggai Kepulauan. *Jurnal Biologi*, 14(1): 29–41.

Yang W, Chen X, Li Y, Guo S, Wang Z, Yu X, 2020. Advances in Pharmacological Activities of Terpenoids. *Natural Product Communications*, 15(3).