

## DAFTAR PUSTAKA

- Acuna, U., Jancovski, N., & Kennelly, E. (2009). Polyisoprenylated Benzophenones from *Clusiaceae*: Potential Drugs and Lead Compounds. *Current Topics in Medicinal Chemistry*, 9(16), 1560–1580. <https://doi.org/10.2174/156802609789909830>
- Anggriani, S. D., & Anggarani, M. A. (2022). Determination of Total Phenolic, Total Flavonoid and Antioxidant Activity of Batak Onion Extract (*Allium chinense* G. Don). *Indonesian Journal of Chemical Science*, 11(3), 207–221.
- Arora, A., & Scholar, E. M. (2005). Role of tyrosine kinase inhibitors in cancer therapy. *Journal of Pharmacology and Experimental Therapeutics*, 315(3), 971–979. <https://doi.org/10.1124/jpet.105.084145>
- Barbosa, D. S. (2007). Green tea polyphenolic compounds and human health. *Journal Fur Verbraucherschutz Und Lebensmittelsicherheit*, 2(4), 407–413. <https://doi.org/10.1007/s00003-007-0246-z>
- Baserga, R., Peruzzi, F., & Reiss, K. (2003). The IGF-1 receptor in cancer biology. *International Journal of Cancer*, 107(6), 873–877. <https://doi.org/10.1002/ijc.11487>
- Belfiore, A., Frasca, F., Pandini, G., Sciacca, L., & Vigneri, R. (2009). Insulin receptor isoforms and insulin receptor/insulin-like growth factor receptor hybrids in physiology and disease. *Endocrine Reviews*, 30(6), 586–623. <https://doi.org/10.1210/er.2008-0047>
- Bethune, G., Bethune, D., Ridgway, N., & Xu, Z. (2010). Epidermal growth factor receptor (EGFR) in lung cancer: An overview and update. *Journal of Thoracic Disease*, 2(1), 48–51.
- Bose, R., Kavuri, S. M., Searleman, A. C., Shen, W., Shen, D., Koboldt, D. C., Monsey, J., Goel, N., Aronson, A. B., Li, S., Ma, C. X., Ding, L., Mardis, E. R., & Ellis, M. J. (2013). Activating HER2 mutations in HER2 gene amplification negative breast cancer. *Cancer Discovery*, 3(2), 224–237. <https://doi.org/10.1158/2159-8290.CD-12-0349>
- Chen, R., Gao, B., Liu, X., Ruan, F., Zhang, Y., Lou, J., Feng, K., Wunsch, C., Li, S. M., Dai, J., & Sun, F. (2017). Molecular insights into the enzyme promiscuity of an aromatic prenyltransferase. *Nature Chemical Biology*, 13(2), 226–234. <https://doi.org/10.1038/nchembio.2263>
- Chen, Y., Huang, L., Qi, X., & Chen, C. (2019). Insulin receptor trafficking: Consequences for insulin sensitivity and diabetes. *International Journal of Molecular Sciences*, 20(20). <https://doi.org/10.3390/ijms20205007>
- Chen, Y., Yang, G. Z., Zheng, F. F., & He, H. W. (2010). Two new prenylated xanthones from the bark of *Garcinia xanthochymus*. *Bulletin of the Korean Chemical Society*, 31(11), 3418–3420.

<https://doi.org/10.5012/bkcs.2010.31.11.3418>

- Chin, Y. W., Jung, H. A., Chai, H., Keller, W. J., & Kinghorn, A. D. (2008). Xanthones with quinone reductase-inducing activity from the fruits of *Garcinia mangostana* (Mangosteen). *Phytochemistry*, 69(3), 754–758. <https://doi.org/10.1016/j.phytochem.2007.09.023>
- Darwati, Anggraeni, A., & Adisumiwi, S. (2015). Santon dari Kuliat Batang Tumbuhan Asam Kandis (*Garcinia cowa*). *Chempublish Journal*, 1(1), 25–31.
- Darwati, Bahti, H. H., ' S., & ' D. (2012). Kowanin, Suatu Santon dari Kulit Batang *Garcinia cowa* Roxb. *Jurnal Natur Indonesia*, 11(2), 109. <https://doi.org/10.31258/jnat.11.2.109-114>
- Deachathai, S., Mahabusarakam, W., Phongpaichit, S., & Taylor, W. C. (2005). Phenolic compounds from the fruit of *Garcinia dulcis*. *Phytochemistry*, 66(19), 2368–2375. <https://doi.org/10.1016/j.phytochem.2005.06.025>
- Dehpour, A. A., Ebrahimzadeh, M. A., Fazel, N. S., & Mohammad, N. S. (2009). Antioxidant activity of the methanol extract of *Ferula assafoetida* and its essential oil composition. *Grasas y Aceites*, 60(4), 405–412. <https://doi.org/10.3989/gya.010109>
- Demoulin, J. B., & Essaghir, A. (2014). PDGF receptor signaling networks in normal and cancer cells. *Cytokine and Growth Factor Reviews*, 25(3), 273–283. <https://doi.org/10.1016/j.cytogfr.2014.03.003>
- Devalaraja, S., Jain, S., & Yadav, H. (2011). Exotic fruits as therapeutic complements for diabetes, obesity and metabolic syndrome. *Food Research International*, 44(7), 1856–1865. <https://doi.org/10.1016/j.foodres.2011.04.008>
- Dickinson, P. J., Roberts, B. N., Higgins, R. J., Leutenegger, C. M., Bollen, A. W., Kass, P. H., & Lecouteur, R. A. (2006). *Expression of receptor tyrosine kinases.pdf*. 1, 132–140.
- Diniatik, Kusumawati, A., Siswanto, A., & Doti, D. M. (2020). Antioxidant activities and identification of compounds in ethyl acetate fraction, dichloromethane fraction and ethanol extract of *Garcinia mangostana* L. Leaves. *International Journal of Pharmaceutical Research*, 12(2), 22–28. <https://doi.org/10.31838/ijpr/2020.12.02.0010>
- Du, J., Cullen, J. J., & Buettner, G. R. (2012). Ascorbic acid: Chemistry, biology and the treatment of cancer. *Biochimica et Biophysica Acta - Reviews on Cancer*, 1826(2), 443–457. <https://doi.org/10.1016/j.bbcan.2012.06.003>
- Duangsrисai, S., Choowongkomon, K., Bessa, L. J., Costa, P. M., Amat, N., & Kijjoa, A. (2014). Antibacterial and EGFR-tyrosine kinase inhibitory activities of polyhydroxylated xanthones from *Garcinia succifolia*. *Molecules*, 19(12), 19923–19934. <https://doi.org/10.3390/molecules191219923>

- Dwi Jayanti, H. S., & Ersam, T. (2018). Digeranilasi Santon pada Ekstrak Diklorometana Kulit Batang Wadung (*Garcinia tetranda* Pierre). *Jurnal Sains Dan Seni ITS*, 7(1). <https://doi.org/10.12962/j23373520.v7i1.29379>
- Erikania, S., Silfiana, D., Kurniawati, N., & Kristyanti, Y. (2023). Aktivitas Antioksidan Ekstrak, Fraksi dan Sub Fraksi Ekstrak Etanol Daun Manggis (*Garcinia mangostana*) dan Kuantifikasi Senyawa Aktif Dalam Kelompok Sub Fraksi Secara Densitometri. *Media Farmasi Indonesia*, 18(2), 63–74. <https://doi.org/10.53359/mfi.v18i2.220>
- Ferlay, J., Colombet, M., Soerjomataram, I., Parkin, D. M., Piñeros, M., Znaor, A., & Bray, F. (2021). Cancer statistics for the year 2020: An overview. *International Journal of Cancer*, 149(4), 778–789. <https://doi.org/10.1002/ijc.33588>
- Fitriah, W. O. I., Milanda, T., & Muchtaridi, M. (2020). Kajian Toksisitas Tanaman Genus *Garcinia*. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 17(2), 368. <https://doi.org/10.30595/pharmacy.v17i2.7691>
- Gocek, E., Moulas, A. N., & Studzinski, G. P. (2014). Non-receptor protein tyrosine kinases signaling pathways in normal and cancer cells. *Critical Reviews in Clinical Laboratory Sciences*, 51(3), 125–137. <https://doi.org/10.3109/10408363.2013.874403>
- Han, A. R., Kim, J. A., Lantvit, D. D., Kardono, L. B. S., Riswan, S., Chai, H., De Blanco, E. J. C., Farnsworth, N. R., Swanson, S. M., & Kinghorn, A. D. (2009). Cytotoxic xanthone constituents of the stem bark of *Garcinia mangostana* (mangosteen). *Journal of Natural Products*, 72(11), 2028–2031. <https://doi.org/10.1021/np900517h>
- Harrison, L. J., Leong, L. S., Sia, G. L., Sim, K. Y., & Tan, H. T. W. (1993). Xanthones from *Garcinia forbesii*. *Phytochemistry*, 33(3), 727–728. [https://doi.org/10.1016/0031-9422\(93\)85486-B](https://doi.org/10.1016/0031-9422(93)85486-B)
- Hemshekhar, M., Sunitha, K., Santhosh, M. S., Devaraja, S., Kemparaju, K., Vishwanath, B. S., Niranjana, S. R., & Girish, K. S. (2011). An overview on genus *Garcinia*: Phytochemical and therapeutical aspects. *Phytochemistry Reviews*, 10(3), 325–351. <https://doi.org/10.1007/s11101-011-9207-3>
- Hermawati, E., Ellita, S. D., Juliawaty, L. D., Hakim, E. H., Syah, Y. M., & Ishikawa, H. (2021). Epoxyquinophomopsins A and B from endophytic fungus *Phomopsis* sp. and their activity against tyrosine kinase. *Journal of Natural Medicines*, 75(1), 217–222. <https://doi.org/10.1007/s11418-020-01454-1>
- Huang, L., & Fu, L. (2015). Mechanisms of resistance to EGFR tyrosine kinase inhibitors. *Acta Pharmaceutica Sinica B*, 5(5), 390–401. <https://doi.org/10.1016/j.apsb.2015.07.001>

- Huang, Y. L., Chen, C. C., Chen, Y. J., Huang, R. L., & Shieh, B. J. (2001). Three xanthones and a benzophenone from *Garcinia mangostana*. *Journal of Natural Products*, 64(7), 903–906. <https://doi.org/10.1021/np000583q>
- Idawati, S., Hakim, A., & Andayani, Y. (2018). Isolasi α -Mangostin dari Kulit Buah Manggis (*Garcinia mangostana* L.) dan Uji Aktivitas Antibakteri Terhadap Bacillus cereus. *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia*, 4(2), 118–122.
- Intan. (2004). The Use of The Stable Free Radical Diphenylpicryl-Hydrazone (DPPH) for Estimating Antioxidant Activity. *Songklanakarin Journal of Science and Technology*, 50(June 2003), 211–219.
- Ito, C., Itoigawa, M., Takakura, T., Ruangrungsi, N., Enjo, F., Tokuda, H., Nishino, H., & Furukawa, H. (2003). Chemical constituents of *Garcinia fusca*: Structure elucidation of eight new xanthones and their cancer chemopreventive activity. *Journal of Natural Products*, 66(2), 200–205. <https://doi.org/10.1021/np020290s>
- Izzati, N. N., Diniatik, D., & Rahayu, W. S. (2012). Aktivitas antioksidan ekstrak perasan daun manggis (*Garcinia mangostana* L.) berdasarkan metode DPPH (2, 2 Diphenyl-1-phycryl hydrazil). *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 9(03).
- Jung, H. A., Su, B. N., Keller, W. J., Mehta, R. G., & Kinghorn, A. D. (2006). Antioxidant xanthones from the pericarp of *Garcinia mangostana* (Mangosteen). *Journal of Agricultural and Food Chemistry*, 54(6), 2077–2082. <https://doi.org/10.1021/jf052649z>
- Karneng, S., Fadlan, A., & Ersam, T. (2021). Isolation and antidiabetic Activity of Prenylated Xanthones from Pericarp of Mangosteen (*Garcinia mangostana* Linn.). *IPTEK Journal of Proceedings Series*, 0(6), 95. <https://doi.org/10.12962/j23546026.y2020i6.8940>
- Khan, T., Ali, M., Khan, A., Nisar, P., Jan, S. A., Afridi, S., & Shinwari, Z. K. (2020). Anticancer plants: A review of the active phytochemicals, applications in animal models, and regulatory aspects. *Biomolecules*, 10(1). <https://doi.org/10.3390/biom10010047>
- Kittisak Likhitwitayawuid<sup>1</sup> Thatree Phadungcharoe&, and J. pan K. (1998). *H Me Me re*. 64(April 1994), 70–72.
- Kurniawan, Y. S., Priyangga, K. T. A., Jumina, Pranowo, H. D., Sholikhah, E. N., Zulkarnain, A. K., Fatimi, H. A., & Julianus, J. (2021). An update on the anticancer activity of xanthone derivatives: A review. *Pharmaceuticals*, 14(11). <https://doi.org/10.3390/ph14111144>
- Kusumawardhani, A. R., Yuniar, A., Ariyanto, E. J., Maariz, M. F., Ambarati, T., Anggun, Y., Mulki, M. A., & Malau, J. (2022). Target Aksi Obat Gefitinib

- Pada Reseptor Tirosin Kinase Terhadap Penyakit Kanker Paru. *Jurnal Pendidikan Dan Konseling*, 4(6), 1707–1715.
- Li, J., Jiang, B., Chen, C., Fan, B., Huang, H., & Chen, G. (2019). Biotransformation of betulin by *Mucor subtilissimus* to discover anti-inflammatory derivatives. *Phytochemistry*, 166(July), 112076. <https://doi.org/10.1016/j.phytochem.2019.112076>
- Mamat, S. F., Azizan, K. A., Baharum, S. N., Noor, N. M., & Aizat, W. M. (2020). GC-MS and LC-MS analyses reveal the distribution of primary and secondary metabolites in mangosteen (*Garcinia mangostana* Linn.) fruit during ripening. *Scientia Horticulturae*, 262(August), 109004. <https://doi.org/10.1016/j.scienta.2019.109004>
- Marliana, E., Tjahjandarie, T. S., & Tanjung, M. (2016). Aktivitas Antioksidan Senyawa Flavonoid Dari *Macaranga pearsonii* Merr. *Jurnal Kimia Mulawarman*, 13(2), 97–100.
- Martiningsih, N. W., Widana, G. A. B., Kristiyanti, P. L. P., Bandyopadhyay, S., Mukerji, J., Yenerel, N. M., Dinc, U. A., Gorgun, E., Radical, F., Activity, S., Alsophila, O. F., Sm, J., Zuhra, C. F., Tarigan, J. B., & Sihotang, H. (2016). Skrining Fitokimia Dan Uji Aktivitas Antioksidan Ekstrak Etanol Daun Matoa (*Pometia pinnata*) dengan Metode DPPH. *Journal of Ocular Pharmacology and Therapeutics*, 3(3), 332–338. Hehakaya, M. O., Edy, H. J. and Siampa, J. P. (2022). Formulasi dan Uji Aktivitas Antioksidan Sediaan Body Scrub Ekstrak Etanol Daun Matoa (*Pometia pinnata*), Pharmacon, 11(4), pp. 1778?1785. Available at: <https://ejournal.unsrat.ac.id/v3/index.php/pharma>
- Marxen, K., Vanselow, K. H., Lippemeier, S., Hintze, R., Ruser, A., & Hansen, U. (2007). Determination of DPPH Radical Oxidation Caused by Linear Regression Analysis of Spectrophotometric Measurements. *Sensors*, 7, 2080–2095.
- Modi, S. J., & Kulkarni, V. M. (2019). Vascular Endothelial Growth Factor Receptor (VEGFR-2)/KDR Inhibitors: Medicinal Chemistry Perspective. *Medicine in Drug Discovery*, 2, 100009. <https://doi.org/10.1016/j.medidd.2019.100009>
- Nazarenko, I., Hede, S. M., He, X., Hedrén, A., Thompson, J., Lindström, M. S., & Nistér, M. (2012). PDGF and PDGF receptors in glioma. *Upsala Journal of Medical Sciences*, 117(2), 99–112. <https://doi.org/10.3109/03009734.2012.665097>
- Nazre, M., Newman, M. F., Pennington, R. T., & Middleton, D. J. (2018). Taxonomic revision of *Garcinia* section *Garcinia* (*Clusiaceae*). *Phytotaxa*, 373(1), 1–52. <https://doi.org/10.11646/phytotaxa.373.1.1>
- Ngawhirunpat, T., Opanasopi, P., Sukma, M., Sittisombut, C., Kat, A., & Adachi, I. (2010). Antioxidant, free radical-scavenging activity and cytotoxicity of

- different solvent extracts and their phenolic constituents from the fruit hull of mangosteen (*Garcinia mangostana*). *Pharmaceutical Biology*, 48(1), 55–62. <https://doi.org/10.3109/13880200903046138>
- Nguyen, L.-H. D., Vo, H. T., Pham, H. D., Connolly, J. D., & Harrison, L. J. (2003). Xanthones from the bark of *Garcinia merguensis*. *Phytochemistry*, 63(4), 467–470.
- Nguyen, O. T.-K., Bui, A. N. T., Vu, N. B., & Pham, P. Van. (2017). ID: 1077 Overexpress of CD47 does not alter stemness of MCF-7 breast cancer cells. *Biomedical Research and Therapy*, 4(S), 163. <https://doi.org/10.15419/bmrat.v4is.351>
- Niu, S. L., Li, Z. L., Ji, F., Liu, G. Y., Zhao, N., Liu, X. Q., Jing, Y. K., & Hua, H. M. (2012). Xanthones from the stem bark of *Garcinia bracteata* with growth inhibitory effects against HL-60 cells. *Phytochemistry*, 77, 280–286. <https://doi.org/10.1016/j.phytochem.2012.01.010>
- Nugroho, Y. A., & Kusnadi, J. (2015). Aplikasi Kulit Manggis (*Garcinia mangostana* L.) sebagai Sumber Antioksidan pada Es Krim. *Jurnal Pangan Dan Agroindustri*, 3(4), 1263–1271.
- Obolskiy, D., Pischel, I., Siriwananametanon, N., & Heinrich, M. (2009). *Garcinia mangostana* L.: a phytochemical and pharmacological review. *Phytotherapy Research : PTR*, 23(8), 1047–1065. <https://doi.org/10.1002/ptr.2730>
- Östman, A., & Heldin, C. H. (2007). PDGF Receptors as Targets in Tumor Treatment. *Advances in Cancer Research*, 97(06), 247–274. [https://doi.org/10.1016/S0065-230X\(06\)97011-0](https://doi.org/10.1016/S0065-230X(06)97011-0)
- Pangow, M. E., Bodhi, W., & De Queljoe, E. (2018). Skrining Fitokimia dan Uji Toksisitas dari Ekstrak Etanol Daun Manggis (*Garcinia mangostana* L.) dengan Metode Brine Shrimp Lethality Test (BSLT). *Pharmacon*, 7(3), 97–209.
- Panthong, K., Hutadilok-Towatana, N., & Panthong, A. (2009). Cowaxanthone F, a new tetraoxxygenated xanthone, and other anti-inflammatory and antioxidant compounds from *Garcinia cowa*. *Canadian Journal of Chemistry*, 87(11), 1636–1640. <https://doi.org/10.1139/V09-123>
- Pattalung, P. N., Wiriyachitra, P., & Ongsakul, M. (1988). The Antimicrobial activities of Rubraxanthone Isolated from *Garcinia Parvifolia* (Miq.) Miq. In *J. Sci. Soc. Thailand* 14 (pp. 67–71).
- Pedraza-Chaverri, J., Cárdenas-Rodríguez, N., Orozco-Ibarra, M., & Pérez-Rojas, J. M. (2008). Medicinal properties of mangosteen (*Garcinia mangostana*). *Food and Chemical Toxicology*, 46(10), 3227–3239. <https://doi.org/10.1016/j.fct.2008.07.024>
- Phaniendra, A., Jestadi, D. B., & Periyasamy, L. (2015). Free Radicals: Properties,

- Sources, Targets, and Their Implication in Various Diseases. *Indian Journal of Clinical Biochemistry*, 30(1), 11–26. <https://doi.org/10.1007/s12291-014-0446-0>
- Pinto, M. M. M., Palmeira, A., Fernandes, C., Resende, D. I. S. P., Sousa, E., Cidade, H., Tiritan, M. E., Correia-Da-silva, M., & Cravo, S. (2021). From natural products to new synthetic small molecules: A journey through the world of xanthones. *Molecules*, 26(2). <https://doi.org/10.3390/molecules26020431>
- Pottier, C., Fresnais, M., Gilon, M., Jérusalem, G., Longuespée, R., & Sounni, N. E. (2020). Tyrosine kinase inhibitors in cancer: Breakthrough and challenges of targeted therapy. *Cancers*, 12(3). <https://doi.org/10.3390/cancers12030731>
- Praycelia Marissa Miranda, G.P. Ganda Putra, & Lutfi Suhendra. (2020). Karakteristik Ekstrak Kulit Buah Kakao (*Theobroma cacao* L.) sebagai Sumber Antioksidan pada Perlakuan Konsentrasi Pelarut dan Ukuran Partikel. *Jurnal Rekayasa Dan Manajemen Agroindustri*, 8(1), 28–38.
- Prayitno, B., Rosyidah, K., & Astuti, M. D. (2016). Uji Antioksidan Senyawa Terpenoid Dari Fraksi M-17 Ekstrak Metilena Klorida Kulit Batang Tumbuhan Kasturi (*Mangifera casturi*). *Jurnal Pharmascience*, 3(1), 32–36. <http://jps.ppjpu.unlam.ac.id/>
- Prayoga G. (2013). Fraksinasi , Uji Aktifitas Antioksidan Dengan Metode DPPH Dan Identifikasi Golongan Senyawa Kimia Dari Ekstrak Teraktif Daun Sambang Darah (*Excoecaria cochinchinensis* Lour). *Universitas Indonesia library UI-Skrripsi*, 81.
- Putri, N. L., Elya, B., & Puspitasari, N. (2017). Antioxidant activity and lipoxygenase inhibition test with total flavonoid content from *Garcinia kydia roxburgh* leaves extract. *Pharmacognosy Journal*, 9(2), 280–284. <https://doi.org/10.5530/pj.2017.2.48>
- Qiu, C., Tarrant, M. K., Choi, S. H., Sathyamurthy, A., Bose, R., Banjade, S., Pal, A., Bornmann, W. G., Lemmon, M. A., Cole, P. A., & Leahy, D. J. (2008). Mechanism of Activation and Inhibition of the HER4/ErbB4 Kinase. *Structure*, 16(3), 460–467. <https://doi.org/10.1016/j.str.2007.12.016>
- Rahayu, D. S., Kusrini, D., & Fachriyah, E. (2010). Penentuan Aktivitas Antioksidan dari Ekstrak Etanol Daun Ketapang (*Terminalia catappa* L) dengan Metode 1,1-Difenil-2-Pikrilhidrazil (DPPH). *Chemistry & Biodiversity*, 1(11), 1829–1841. <http://onlinelibrary.wiley.com/doi/10.1002/cbdv.200490137/abstract>
- Ramawat, K., & Mérillon, J.-M. (2013). Natural Products: Phytochemistry, Botany and Metabolism of Alkaloids, Phenolics and Terpenes. In *Natural Products: Phytochemistry, Botany and Metabolism of Alkaloids, Phenolics and Terpenes*. <https://doi.org/10.1007/978-3-642-22144-6>

- Ramesh, S., Priya, M., & Prabhu, S. (2017). Isolation of garcinone E from *Garcinia mangostana* Linn and its cytotoxic effect on sp2/0 cell lines. ~ 67 ~ *Journal of Pharmacognosy and Phytochemistry*, 6(5), 67–76.
- Ridhia, S. I., & Efdi, M. (2013). Isolasi Dan Karakterisasi Triterpenoid Dari Fraksi N-Heksan Pada Kulit Batang Srikaya (*Annona Squamosa* L). *Jurnal Kimia Unand*, 2(1), 83–86.
- Russo, A., Paret, C., Alt, F., Burhenne, J., Fresnais, M., Wagner, W., Glaser, M., Bender, H., Huprich, S., Harter, P. N., Filipski, K., Lehmann, N., Backes, N., Roth, L., Seidmann, L., Sommer, C., Brockmann, M. A., Pietsch, T., Neu, M. A., ... Faber, J. (2019). Ceritinib-induced regression of an insulin-like growth factor-driven neuroepithelial brain tumor. *International Journal of Molecular Sciences*, 20(17), 1–19. <https://doi.org/10.3390/ijms20174267>
- Sastrawan, I. N., Sangi, M., & Kamu, V. (2013). Skrining Fitokimia dan Uji Aktivitas Antioksidan Ekstrak Biji Adas (*Foeniculum vulgare*) menggunakan Metode DPPH. *Jurnal Ilmiah Sains*, 13(2), 110. <https://doi.org/10.35799/jis.13.2.2013.3054>
- Ségaliny, A. I., Tellez-Gabriel, M., Heymann, M. F., & Heymann, D. (2015). Receptor tyrosine kinases: Characterisation, mechanism of action and therapeutic interests for bone cancers. *Journal of Bone Oncology*, 4(1), 1–12. <https://doi.org/10.1016/j.jbo.2015.01.001>
- Septyaningsih, D. (2010). Isolasi dan Identifikasi Komponen Utama Ekstraksi Biji Buah Merah (*Eleutherine palmifolia*, I.Merr). *Natural Science*, 2(3), 112–122.
- Setiawati, Y., Asri, A., & Rasyid, R. (2020). Hubungan Ekspresi IGF-1R dan HER-2 Terhadap Jumlah Mitosis dan Derajat Histopatologik pada Karsinoma Payudara Invasif Tidak Spesifik. 29(3), 123–130.
- Silalahi, M. (2021). Manfaat dan Bioaktivitas dari Manggis (*Garcinia mangostana* L.). *BIOEDUKASI (Jurnal Pendidikan Biologi)*, 12(1), 30. <https://doi.org/10.24127/bioedukasi.v12i1.3752>
- Silalahi, M., & Mustaqim, W. A. (2020). Tumbuhan berbiji di Jakarta Jilid 1: jenis-jenis pohon terpilih. *UKI Press*, 1–217. <http://repository.uki.ac.id/1630/>
- SIREGAR, M. (1970). R E V I E W: Species Diversity of Local Fruit Trees in Kalimantan: Problems of Conservation and Its Development. *Biodiversitas Journal of Biological Diversity*, 7(1), 94–99. <https://doi.org/10.13057/biodiv/d070123>
- Siti Azima, A. M., Noriham, A., & Manshoor, N. (2017). Phenolics, antioxidants and color properties of aqueous pigmented plant extracts: *Ardisia colorata* var. *elliptica*, *Clitoria ternatea*, *Garcinia mangostana* and *Syzygium cumini*. *Journal of Functional Foods*, 38, 232–241. <https://doi.org/10.1016/j.jff.2017.09.018>

- Sobir, S., Sinaga, S., Poerwanto, R., Rismitasari, R., & Lukman, R. (2009). Comparison Analysis of Genetic Diversity of Indonesian Mangosteens (*Garcinia mangostana* L.) and Related Species by Means Isozymes and AFLP Markers. *Biodiversitas Journal of Biological Diversity*, 10(4), 163–167. <https://doi.org/10.13057/biodiv/d100401>
- Suksamrarn, S., Suwannapoch, N., Ratananukul, P., Aroonlerk, N., & Suksamrarn, A. (2002). Xanthones from the green fruit hulls of *Garcinia mangostana*. *Journal of Natural Products*, 65(5), 761–763. <https://doi.org/10.1021/np010566g>
- Sumardjo, D., & Kimia, P. (2009). Buku Panduan Kuliah Mahasiswa Kedokteran dan Program Strata I Fakultas Bioeksakta. Jakarta: EGC.
- Takibayeva, A. T., Zhumabayeva, G. K., Bakibaev, A. A., Demets, O. V., Lyapunova, M. V., Mamaeva, E. A., Yerkassov, R. S., Kassenov, R. Z., & Ibrayev, M. K. (2023). Methods of Analysis and Identification of Betulin and Its Derivatives. *Molecules*, 28(16). <https://doi.org/10.3390/molecules28165946>
- Tijjani, A., Ndukwe, I. G., & Ayo, R. G. (2012). Isolation and characterization of lup-20(29)-ene-3, 28-diol (Betulin) from the stem-bark of *Adenium obesum* (Apocynaceae). *Tropical Journal of Pharmaceutical Research*, 11(2), 259–262. <https://doi.org/10.4314/tjpr.v11i2.12>
- Uji, T. (2007). Keanekaragaman, Persebaran, dan Potensi Jenis-Jenis *Garcinia* di Indonesia. *Berkala Penelitian Hayati*, 12(2), 129–135. <https://doi.org/10.23869/bphjbr.12.2.20076>
- Utami, S. (2016). Antibacterials patentability of Plant *Garcinia*. *YARSI Medical Journal*, 24(1), 069–079.
- Wairata, J., Sukandar, E. R., Fadlan, A., Purnomo, A. S., Taher, M., & Ersam, T. (2021). Evaluation of the antioxidant, antidiabetic, and antiplasmodial activities of xanthones isolated from *Garcinia forbesii* and their in silico studies. *Biomedicines*, 9(10). <https://doi.org/10.3390/biomedicines9101380>
- Walker, E. B. (2007). HPLC analysis of selected xanthones in mangosteen fruit. *Journal of Separation Science*, 30(9), 1229–1234. <https://doi.org/10.1002/jssc.200700024>
- Warochmah, M. (2017). Amobilisasi Enzim Bromelin Dari Buah Nanas (*Ananas comosus* L. Merr.) Menggunakan Matriks Kitosan untuk Pengurangan Kandungan Protein pada Air Limbah Pabrik Tahu. *Skripsi*. Surabaya: Institut Teknologi Sepuluh Nopember.
- Wezeman, T., Bräse, S., & Masters, K. S. (2015). Xanthone dimers: A compound family which is both common and privileged. *Natural Product Reports*, 32(1), 6–28. <https://doi.org/10.1039/c4np00050a>

- Widayanti, N. P., Puspawati, N. M., Suarsana, I. N., & Asih, I. A. R. A. (2016). Aktivitas antioksidan fraksi n-butanol ekstrak kulit terong belanda (*Solanum betaceum* Cav.) secara in vitro dan identifikasi senyawa golongan flavonoidnya. *Cakra Kimia*, 4(1), 30–37.
- Wulandari, A. W. (2017). Isolasi Dua Senyawa Santon Dari Ekstrak Metilen Klorida Kulit Batang *Garcinia tetrandra* Pierre. *Skripsi Pada FMIPA*, 83.
- Yanochko, G. M., & Eckhart, W. (2006). Type I insulin-like growth factor receptor over-expression induces proliferation and anti-apoptotic signaling in a three-dimensional culture model of breast epithelial cells. *Breast Cancer Research*, 8(2), 1–13. <https://doi.org/10.1186/bcr1392>
- Yehye, W. A., Rahman, N. A., Ariffin, A., Abd Hamid, S. B., Alhadi, A. A., Kadir, F. A., & Yaeghoobi, M. (2015). Understanding the chemistry behind the antioxidant activities of butylated hydroxytoluene (BHT): A review. *European Journal of Medicinal Chemistry*, 101, 295–312. <https://doi.org/10.1016/j.ejmech.2015.06.026>
- Yin, B., Fang, D. M., Zhou, X. L., & Gao, F. (2019). Natural products as important tyrosine kinase inhibitors. *European Journal of Medicinal Chemistry*, 182, 111664. <https://doi.org/10.1016/j.ejmech.2019.111664>
- Ying, Y. M., Yu, K. M., Lin, T. S., Ma, L. F., Fang, L., Yao, J. B., Chen, B. Y., Wang, R. W., Shan, W. G., Wang, Z., & Zhan, Z. J. (2017). Antiproliferative Prenylated Xanthones from the Pericarps of *Garcinia mangostana*. *Chemistry of Natural Compounds*, 53(3), 555–556. <https://doi.org/10.1007/s10600-017-2047-7>
- Yoshimura, M., Ninomiya, K., Tagashira, Y., Maejima, K., Yoshida, T., & Amakura, Y. (2015). Polyphenolic Constituents of the Pericarp of Mangosteen (*Garcinia mangostana* L.). *Journal of Agricultural and Food Chemistry*, 63(35), 7670–7674. <https://doi.org/10.1021/acs.jafc.5b01771>
- Yu, J. S. (2019). From discovery of tyrosine phosphorylation to targeted cancer therapies: The 2018 Tang Prize in Biopharmaceutical Science. *Biomedical Journal*, 42(2), 80–83. <https://doi.org/10.1016/j.bj.2019.03.004>
- Yu, L., Zhao, M., Yang, B., Zhao, Q., & Jiang, Y. (2007). Phenolics from hull of *Garcinia mangostana* fruit and their antioxidant activities. *Food Chemistry*, 104(1), 176–181. <https://doi.org/10.1016/j.foodchem.2006.11.018>
- Zamzani, I., & Triadisti, N. (2021). *Limpasu Pericarpium*: an Alternative Source of Antioxidant From Borneo with Sequential Maceration Method. *Jurnal Profesi Medika : Jurnal Kedokteran Dan Kesehatan*, 15(1), 60–68. <https://doi.org/10.33533/jpm.v15i1.2820>
- Zin, N. F. M., & Said, I. M. (2012). *Xanthones from Garcinia Eugeniifolia (Guttiferae)*. <https://books.google.co.id/books?id=2bB1nQAACAAJ>

Zufahmi, & Zuraida. (2018). Keanekaragaman Jenis Tanaman Obat di Kecamatan Peukan Baro Kabupaten Pidie. *Jurnal Agroristik*, 1(1), 4–7.  
<http://journal.unigha.ac.id/index.php/JAR/article/view/56/54>

