

## DAFTAR PUSTAKA

- Acamovic, T., & Brooker, J. D. (2005). Biochemistry of plant secondary metabolites and their effects in animals. *Proceedings of the Nutrition Society*, 64(3), 403–412.
- Afreen F., Zobayed S. M. A., Kozai T. (2015). Spectral quality and UV-B stress stimulate glycyrrhizin concentration of *Glycyrrhiza uralensis* in hydroponic and pot system. *Plant Physiology and Biochemistry*, 43: 1074–1081.
- Ansel, H. (2018). *Pengantar Bentuk Sediaan Farmasi*, diterjemahkan oleh Farida Ibrahim, Asmanizar, Iis Aisyah, Edisi keempat, 255-271, 607-608, 700, Jakarta, UI Press.
- Aparna, V., Dileep, K. V., Mandal, P. K., Karthe, P., Sadasivan, C., & Haridas, M. (2012). Anti Inflammatory Property of n-Hexadecanoic Acid: Structural Evidence and Kinetic Assessment. *Chemical Biology & Drug Design*, 80(3), 434–439.
- Apry. (2010). “kromatografi gas dan aplikasinya pada pemisahan” <http://apryshinsetsuboy.blogspot.com/2010/12/kromatografi-gas-dan-aplikasinya> pada.html#: diakses pada 18 mei pukul 01. 39.
- Astuti, E., Sunarminingsih, R., Jenie, U. A., Mubarika, S., & Sismindari, S. (2014). Pengaruh Lokasi Tumbuh, Umur Tanaman Dan Variasi Jenis Destilasi Terhadap Komposisi Senyawa Minyak Atsiri Rimpang Curcuma Mangga Produksi Beberapa Sentra Di YOGYAKARTA (Impact of Growing Sites, Plant Ages and Variance of Distillation Types to Curcuma). *Jurnal Manusia dan Lingkungan*, 21(3), 323-330.
- Bachheti, R.K., Indra, R., dan Archana, J. (2013). Chemical composition, mineral and nutritional value of wild *Bischofia javanica* seed. *International Food Research Journal*. 20(4): 1747-1751.
- Blomquist, G. J., & Vogt, R. G. (2003). Biosynthesis and detection of pheromones and plant volatiles introduction and overview. *Insect Pheromone Biochemistry and Molecular Biology*, 3–18.
- Bruno, F., Castelli, G., Migliazzo, A., Piazza, M., Galante, A., Verde, V. L., Vitale, F. (2015). Cytotoxic Screening and In Vitro Evaluation of Pentadecane Against *Leishmania infantum* Promastigotes and Amastigotes. *Journal of Parasitology*, 101(6), 701–705.
- Demasi, S., Caser, M., Lonati, M., Cioni, P. L., Pistelli, L., Najar, B., & Scariot, V. (2018). Latitude and altitude influence secondary metabolite production in peripheral alpine populations of the mediterranean species *Lavandula angustifolia* Mill. *Frontiers in Plant Science*, 9.

- Dicosmo, F, and Tower, G.H.N. (1984). Stress and secondary metabolism in cultured plant cell in phytochemical adaption to stress. *Plenum Publishing Co. Toronto*. Pp 15-50.
- Djarwaningsih, T. (2017). Keanekaragaman jenis *euphorbiaceae* (jarak-jarakan) endemik di sumatra. *Jurnal Biodjati*, 2(2), 89.
- Faridha Begum, I., Mohankumar, R., Jeevan, M., & Ramani, K. (2016). GC–MS Analysis of Bio-active Molecules Derived from *Paracoccus pantotrophus* FMR19 and the Antimicrobial Activity Against Bacterial Pathogens and MDROs. *Indian Journal of Microbiology*, 56(4), 426–432.
- Fesenden, R., Fesenden, J. (1982). *Organic Chemistry, Third Edition*. California.
- Fitriani Sholekah, F. (2017). Perbedaan ketinggian tempat terhadap kandungan flavonoid dan beta karoten buah karika (*Carica pubescens*) daerah dien wonosobo. *Prosiding Seminar Nasional Pendidikan Biologi dan Biologi*.
- Gavamukulya, Y., Abou-Ellella, F., Wamunyokoli, F., & El-Shemy, H. A. (2015). GC-MS Analysis of Bioactive Phytochemicals Present in Ethanolic Extracts of Leaves of *Annona muricata*: A Further Evidence for Its Medicinal Diversity. *Pharmacognosy Journal*, 7(5), 300–304.
- Gillespie, R.J. dan Paul. (2001). *Chemical Bonding and Molecular Geometry*. Oxford University Press, London.
- Gritter, R., Bobbit, M., & Swharting, A. (1991). *Pengantar Kromatografi*. Edisi Kedua. Penerbit ITB. Bandung.
- Handoko. (1995). *Klimatologi Dasar*. Bogor: Pustaka Jaya.
- Harborne, J. B. (1987). *Metode Fitokimia : Penuntun Cara Modern Menganalisis Tumbuhan* Edisi ke-2, diterjemahkan oleh Padmawinata, K. dan Soediro, I., Penerbit ITB, Bandung.
- Hart, H. (1983). *Organic chemistry a short course. sixth edition*. Boston: Houghton Mifflin Company.
- Hong-Wei, Kang, Y., Cao, Y. and Zheng, C., (2014). Antifungal properties and Chemical Analysis of Essential Oil from *Vitex negundo* seed. *British Journal of Pharmaceutical Research* 4(5): 541- 548.
- Ignacimuthu, S., Ayyanar M & Sivaraman, K. (2006). Ethnobotanical investigations among tribes in Madurai District of Tamil Nadu (India). *Journal of Ethnobiology and Ethnomedicine*. 2( 25).
- Ihlenfeldt, W., Bolton, E., & Bryant, S. (2009). The PubChem chemical structure sketcher. *Journal of cheminformatics*, 1(1).
- Jaakola, L., & Hohtola, A. (2010). Effect of latitude on flavonoid biosynthesis in plants. *Plant, Cell & Environment*, no–no.

- Karliawan, A. (2009). *Perubahan senyawa hidrocarbon selama proses bioremediasi tanah tercemar minyak dengan menggunakan Kromatografi Gas Spektrometri Massa*, Skripsi, Departemen Kimia, FMIPA, IPB, Bogor.
- Kashyap, S. M., Pandya, G. H., Wachasunder, S. D., & Kondawar, V. K. (2005). QA/QC aspects of GC-MS analytical instrument for environmental analysis.
- Keerthana, G., Kalaivani, M. K., & Sumathy, A. (2013). In-vitro alpha amylase inhibitory and anti-oxidant activities of ethanolic leaf extract of *Croton bonplandianum*. *Asian Journal of Pharmaceutical and Clinical Research*, 32-36.
- Kim, D. H., Park, M. H., Choi, Y. J., Chung, K. W., Park, C. H., Jang, E. J., Chung, H. Y. (2013). Molecular Study of Dietary Heptadecane for the Anti-Inflammatory Modulation of NF-kB in the Aged Kidney. *PLoS ONE*, 8(3),
- Kliebenstein D. J. (2004) Secondary metabolites and plant /environment interactions: a view through *Arabidopsis thaliana* tinted glasses. *Plant Cell Environment*, 27: 675–684.
- Ko, T.-F., Weng, Y.-M., & Chiou, R. Y.-Y. (2002). Squalene Content and Antioxidant Activity of *Terminalia catappa* Leaves and Seeds. *Journal of Agricultural and Food Chemistry*, 50(19), 5343–5348.
- Kundu, M., Schmidt, L., & Jørgensen, M. J. (Ed.). (2012). *Bischofia javanica* Blume. Seed Leaflet, (157).
- Laily AN, Suranto, Sugiyarto. (2012). Characteristics of *Carica pubescens* of dieng plateau, central java according to its morphology, antioxidant, and protein pattern. *Nusantara Bioscience*, 4(1):16-21.
- Lingadurai S, Roy S, Joseph RV, Nath LK. (2011). Antileukemic activity of the leaf extract of *Bischofia javanica* blume on human leukemic cell lines. *Indian J Pharmacol*, 43:143-149
- Majeed, S. (2019). Evaluation of antidiabetic activity of ethanolic extract of *Bischofia javanica* blume bark by alloxan induced diabetic model. *International*. 11(2).
- Maliníková, E., Kukla, J., Kuklová, M., & Balážová, M. (2013). Altitudinal variation of plant traits: morphological characteristics in *Fragaria vesca* L.(Rosaceae). *Annals of Forest Research*, 56(1), 79-89.
- Menendez-Baceta, G., Aceituno-Mata, L., Reyes-García, V., Tardío, J., Salpeteur, M., & Pardo-de-Santayana, M. (2015). The importance of cultural factors in the distribution of medicinal plant knowledge: a case study in four basque regions. *Journal of Ethnopharmacology*, 161, 116–127.
- Minarno, E. B. (2015). Skrining fitokimia dan kandungan total flavanoid pada buah *Carica pubescens* Lenne & K. Koch Di Kawasan Bromo, Cangar, dan dataran tinggi Dieng. *el-Hayah*, 5(2), 73.

- Noorhadi, Sudadi. (2003). Kajian pemberian air dan mulsa terhadap iklim mikro pada tanaman cabai di tanah entisol. *J ilmu tanah dan lingkungan* Vol 4 (1): 41-49.
- Nugroho, A. (2017). *Teknologi Bahan Alam*, Banjarmasin, Lambung Mangkurat University Press.
- Oskoueian, E., Abdullah, N., Ahmad, S., Saad, W. Z., Omar, A. R., & Ho, Y. W. (2011). Bioactive Compounds and Biological Activities of *Jatropha curcas* L. Kernel Meal Extract. *International Journal of Molecular Sciences*, 12(9), 5955–5970.
- Pascual, G., Avgustinova, A., Mejetta, S., Martín, M., Castellanos, A., Attolini, C. S.-O., Benitah, S. A. (2016). Targeting metastasis-initiating cells through the fatty acid receptor CD36. *Nature*, 541(7635), 41–45.
- Perumalsamy, H., Sankarapandian, K., Kandaswamy, N., Balusamy, S. R., Periyathambi, D., & Raveendiran, N. (2017). Cellular effect of styrene substituted biscoumarin caused cellular apoptosis and cell cycle arrest in human breast cancer cells. *The International Journal of Biochemistry & Cell Biology*, 92, 104–114.
- Poutaraud A., Girardin P. (2005) Improvement of medicinal plant quality: a *Hypericum perforatum* literature review as an example. *Plant Genetic Resources*, 3(2): 178–189.
- Prabowo, P. (2019). Pengembangan perangkat pembelajaran berbasis data *euphorbiaceae* hutan Taman Eden 100. *Best Journal (Biology Education, Sains and Technology)*, 2(2), 24–31.
- Rajbongshi, P., Zaman, K., Boruah, S., & Das, S. (2014). A review on traditional use and phytopharmacological potential of *Bischofia javanica* Blume. *International Journal of Pharmaceutical Sciences Review and Research*. 24(2), 24-29.
- Rohmad, A. (2020). *Identifikasi kandungan senyawa bioaktif ekstrak etanol dan ekstrak air akar, batang, daun dan biji tumbuhan Hanjeli (Coix lacrimajobi L.) dengan pendekatan kromatografi gas (GC-MS)*, Skripsi, Universitas Negeri Medan.
- Savitri, I., Suhendra, L., & Wartini, N. M. (2017). Pengaruh jenis pelarut pada metode maserasi terhadap karakteristik ekstrak *Sargassum polycystum*. *Jurnal Rekayasa dan Manajemen Agroindustri*, 5(3), 93-101.
- Seidel, V. and Taylor, P.W., (2004). In Vitro Activity of Extracts and Constituents of *Pelargonium* against rapidly growing Mycobacteria. *International Journal of Antimicrobial Agency*. 23: p. 613-619.

- Septiana, A. T., & Asnani, A. (2012). Kajian sifat fisikokimia ekstrak rumput laut coklat *Sargassum duplicatum* menggunakan berbagai pelarut dan metode ekstraksi. *Agrointek*, 6(1), 22-28.
- Setyorini, S. D., & Yusnawan, E. (2018). Peningkatan kandungan metabolit sekunder tanaman aneka kacang sebagai respon cekaman biotik. *Jurnal Iptek Tanaman Pangan*, 11(2).
- Siatka, T., & Kašparová, M. (2010). Seasonal variation in total phenolic and flavonoid contents and DPPH scavenging activity of *Bellis perennis* L. flowers. *Molecules*, 15(12), 9450-9461.
- Silalahi, M. (2015). Local knowledge of medicinal plants in sub-ethnic Batak Simalungun of North Sumatra, Indonesia. *Biodiversitas, Journal of Biological Diversity*, 16(1), 44–54.
- Silalahi, M., Walujo, E. B., & Mustaqim, W. (2018). Etnomedisin tumbuhan obat oleh sub etnis batak pakpak di desa Surung Mersada, Kabupaten Pakpak Bharat, Sumatera Utara. *Jurnal Ilmu Dasar*, 19(2), 77-92.
- Sinukaban, K., Saleh, C., Daniel. (2019). Profil tumbuhan sikkam (*Bischofia javanica* Blume), *Prosiding Seminar Nasional Kimia*, Unmul, Samarinda.
- Sirait, M. (2007). *Penuntun Fitokimia dalam Farmasi*. Bandung: Penerbit ITB.
- Sivakumar, R., Jebanesan, A., Govindarajan, M., & Rajasekar, P. (2011). Larvicidal and repellent activity of tetradecanoic acid against *Aedes aegypti* (Linn.) and *Culex quinquefasciatus* (Say.) (Diptera:Culicidae). *Asian Pacific Journal of Tropical Medicine*, 4(9), 706–710.
- Sogandi, S., & Nilasari, P. (2019). Identifikasi senyawa aktif ekstrak buah mengkudu (*Morinda citrifolia* L.) dan potensinya sebagai inhibitor karies gigi. *Jurnal Kefarmasian Indonesia*, 73–81.
- Sushmitha, H. S., Roy, C. L., Gogoi, D., Velagala, R. D., Nagarathna, A., Balasubramanian, S., & Rajadurai, M. (2018). Phytochemical and pharmacological studies on *Hylocereus undatus* seeds: an in vitro approach. *World Journal of Pharmacological Research*, 7(14), 986-1006.
- Szakiel, A., Paćzkowski, C., & Henry, M. (2010). Influence of environmental abiotic factors on the content of saponins in plants. *Phytochemistry Reviews*, 10(4), 471–491.
- Tambunan, S. (2014). *Uji antidiare ekstrak etanol kulit batang sikkam (Bischofia javanica Blume) dengan metode defekasi pada tikus*. Skripsi. Program Studi Farmasi. Fakultas Farmasi, USU, Medan.
- Tanasale, V. (2011). Kajian agronomi dan pemanfaatan buah gandaria (*Bouea macrophylla*). *Jurnal Ilmiah Agribisnis dan Perikanan*, Vol 4(2).

- Terryn, N., Montagu, M. V., Inzé, D., & Goossens, A. (2006). Functional genomic approaches to study and engineer secondary metabolism in plant cell cultures. *Wageningen UR Frontis Series*, 291–300.
- Thomson, G.E. (2007). The health benefits of traditional chinese plant medicine, *a report for the rural industries research and development corporation, RIRDC Publication*, 06(128).
- Voigt, R. (1995). *Buku Pelajaran Teknologi Farmasi*, diterjemahkan oleh Soendani Noerono Soewandhi, Gajah Mada University Press, Yogyakarta, 159-161, 202-204, 221-223.
- Wahyuni, S. (2018). *Skrining fitokimia, kadar total fenol dan analisa senyawa dengan GC-MS (Gas Cromatografi-Mass Spektroskopis) cendawan endofit penghasil antioksidan*, Skripsi, Uin Alauddin Makassar, Makassar.
- Winangsih, W., & Parman, S. (2013). Pengaruh metode pengeringan terhadap kualitas simplisia lempuyang wangi (*Zingiber aromaticum* L.). *Anatomi Fisiologi*, 21(1), 19-25.
- Wink M. (2010). Introduction: biochemistry, physiology and ecological functions of secondary metabolites. In: Wink M (Ed.), *Biochemistry of Plant Secondary Metabolism*. WileyBlackwell, pp. 1-19.
- Xie, X. QS. (2010). Exploiting PUBChem for virtual screening. *Expert Opin Drug Discov*, 5: 1205-1220.
- Yuan, J., Raza, W., Shen, Q., & Huang, Q. (2012). Antifungal Activity of *Bacillus amyloliquefaciens* NJN 6 Volatile Compounds against *Fusarium oxysporum* f. sp. *cubense*. *Applied and Environmental Microbiology*, 78(16), 5942–5944.
- Yusuf, Y. (2019). *Kimia Analisis*, Jakarta, Penerbit EduCenter Indonesia.