

## DAFTAR PUSTAKA

- Aleebrahim-Dehkordy, E., Khodadadi, S., Mousavipanah, Z., and Nasri, H. (2016). Herbal Antioxidant and Kidney. *Annals of Research in Antioxidants*, 1(1), e08.
- Apak, R., Güçlü, K., Demirata, B., Özyürek, M., Çelik, S. E., Bektaşoğlu, B., and Özyurt, D. (2007). Comparative evaluation of various total antioxidant capacity assays applied to phenolic compounds with the CUPRAC assay. *Molecules*, 12(7), 1496-1547.
- Armania, N., Yazan, L.S., Ismail, I.S., Foo, J.B., Tor, Y.S., Ishak, N., Ismail, N., and Ismail, M., (2013b). *Dillenia suffruticosa* Extract Inhibits Proliferation of Human Breast Cancer Cell Lines (MCF-7 and MDA-MB-231) via Induction of G2/M Arrest and Apoptosis. *Molecules*, 18(11), 13320-13339.
- Armania, N., Yazan, L.S., Musa, S.N., Ismail, I.S., Foo, J.B., Chan, K.W., Noreen, H., Hisyam, A.H., Zulfahmi, S. and Ismail, M., (2013a). *Dillenia suffruticosa* exhibited antioxidant and cytotoxic activity through induction of apoptosis and G2/M cell cycle arrest. *Journal of Ethnopharmacology*, 146, 525–535.
- Arnanda, Q.P., and Nuwarda, R.F. (2019). Penggunaan Radiofarmaka Teknesium-99m Dari Senyawa Glutation dan Senyawa Flavonoid Sebagai Deteksi Dini Radikal Bebas Pemicu Kanker. *Farmaka*, 17(2), 236-243.
- Asmaliyah, A., Hadi, E.E.W., Waluyo, E.A., and Muslimin, I. (2016). Kandungan Fitokimia Beberapa Tumbuhan Obat Di Pesisir Pantai Dan Lahan Basah Serta Potensinya Sebagai Pestisida Nabati. *Prosiding Ekspose Hasil Penelitian* (pp. 165-175). Palembang: Balai Penelitian dan Pengembangan Lingkungan Hidup dan Kehutanan Palembang.
- Bate-Smith, E. C., and Harborne, J. B. (1971). Differences In Falvonoid Content Between Fresh and Herbariym Leaf Tissue in *Dillenia*. *Phytochemistry*, 10(5), 1055-1058.
- Boparai, A., Niazi, J., Bajwa, N., and Singh, P. A. (2016). A Review Update On *Dillenia indica* F. *Elongata* (Miq.)Miq. *Journal of Drug Delivery and Therapeutics*, 6(2), 62-70.
- Cahyani, D. R., Tamrin, T., and Faradilla, R. F. (2020). Evaluasi Metode In Vitro Pada Analisis Aktivitas Antioksidan Beberapa Buah Tropis: Studi Kepustakaan. *urnal Sains dan Teknologi Pangan*, 5(6), 3465-3480.
- Carocho, M. and Ferreira, I.C. (2013). A Review On Antioxidants, Prooxidants and Related Controversy: Natural and Synthetic Compounds, Screening and

Analysis Methodologies and Future Perspectives. *Food and Chemical Toxicology*, 51, 15-25.

- Darmawati, A. (2014). Kajian Antioksidan Ekstrak Daun Lima Spesies dari Famili Curcubitaceae dengan Metode FRAP dan DPPH. In (*Doctoral dissertation, Tesis*).
- Dubey, P.C., Sikarwar, R.L.S., Khanna, K.K. and Tiwari, A.P . (2009). Ethnobotany of *Dillenia pentagyna* Roxb. in Vindhya region of Madhya Pradesh, India. *Journal of applied pharmaceutical Science*, 8(5), 546-548.
- El Rayess, Y., Barbar, R., Wilson, E. A., and Bouajila, J. (2014). *Analytical Methods for Wine Polyphenols Analysis And for Their Antioxidant Activity Evaluation*. New York, NY, USA: Nova Science Publishers.
- Faisal, H. (2019). Uji Aktivitas Antioksidan Ekstrak Etanol Buah Okra (*Abelmoschus esculentus* L. Moench) Dengan Metode DPPH (1, 1-difenil-2-pikrilhidrazil) dan Metode ABTS (2, 2-azinobis-(3-Ethylbenzothiazoline-6-Sulfonic Acid). *Ready Star*, 2(1), 1-5.
- Foo, J.B., Yazan, L.S., Tor, Y.S., Wibowo, A., Ismail, N., How, C.W., Armania, N., Loh, S.P., Ismail, I.S., Cheah, Y.K. and Abdullah, R., (2015). Induction of cell cycle arrest and apoptosis by betulinic acid-rich fraction from *Dillenia suffruticosa* root in MCF-7 cells involved p53/p21 and mitochondrial signalling pathway. *Journal of Ethnopharmacology*, 166, 270–278.
- Galleano, M., Verstraeten, S.V., Oteiza, P.I. and Fraga, C.G., (2010). Antioxidant Actions of Flavonoids: Thermodynamic and Kinetic Analysis. *Archives of Biochemistry and Biophysics*, 501(1), 23-30.
- Gazali, M., Safutra, E., Zulfadhli, Z., Zamani, N.P. and Nurjanah, N., (2017). Eksplorasi Potensi Senyawa Bioaktif Makroalga Laut *Sargassum* sp asal Pesisir Aceh Barat Sebagai Agen Antioksidan. *Prosiding SEMDI-UNAYA (Seminar Nasional Multi Disiplin Ilmu UNAYA)*, 1, pp. 289-300. 2017.
- Goh, M.P.Y., Basri, A.M., Yasin, H., Taha, H. and Ahmad, N., (2017). Ethnobotanical Review and Pharmacological Properties of Selected Medicinal Plants in Brunei Darussalam: *Litsea elliptica*, *Dillenia suffruticosa*, *Dillenia excelsa*, *Aidia racemosa*, *Vitex pinnata* and *Senna alata*. *Asian Pacific Journal of Tropical Biomedicine*, 7(2), 173–180.
- Halvorsen, B.L., Holte, K., Myhrstad, M.C., Barikmo, I., Hvattum, E., Remberg, S.F., Wold, A.B., Haffner, K., Baugerød, H., Andersen, L.F. and Moskaug., (2002). A Systematic Screening of Total Antioxidants in Dietary Plants. *The Journal of nutrition*, 132(3), 461-471.

- Hanin, N, N.F., and Rarastoeti, P.,. (2017). Kandungan Fenolik, Flavonoid dan Aktivitas Antioksidan Ekstrak Daun Paku Laut (*Acrostichum aureum* L.) Fertil dan Steril. *Journal of Tropical Biodiversity and Biotechnology*, 2, 51-56.
- Hasanah, M.,Maharani, B.,and Munars, E. (2017). Daya Antioksidan Ekstrak dan Fraksi Daun Kopi Robusta (*Coffea robusta*) Terhadap Pereaksi DPPH (2,2-difenil-1-pikrilhidrazil). *Indonesian Journal of Pharmaceutical Science and Technology*, 4(2), 42-49.
- Hediyansah, R. S. (2019). Aktivitas Antidiabetes Ekstrak Etanol *Dillenia suffruticosa* (Griff.) Martelli pada Tikus Diabetes yang Diinduksi Streptozotosin-Nikotinamid. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 16(2), 326-333.
- Huliselan, Y, M., Runtuwene, M, R, J., and Wewengkang, D,S.,. (2015). Aktivitas Antioksidan Ektrak Etanol, Etil Asetat, dan n-Heksan dari Daun Sesewanua (*Clerodendron squamatum* Vahl.). *Jurnal Ilmiah Farmasi – UNSRAT*, 4(3), 2302 - 2493.
- Irnawati, I. (2017). Penetapan Kadar Vitamin C dan Uji Aktifitas Antioksidan Sari Buah Songi (*Dillenia serrata* Thunb.) terhadap Radikal DPPH (Diphenylpicrylhydrazyl). *Pharmacon*, 6(2), 40-45.
- Islam, M. K., Saha, S., Mahmud, I., Mohamad, K., Awang, K., Uddin, S. J., and Shilpi, J. A. (2014). An Ethnobotanical Study of Medicinal Plants Used by Tribal and Native People of Madhupur Forest Area, Bangladesh. *Journal of Ethnopharmacology*, 15(2), 921–930.
- Jamil, S. B. (2015). Antioxidant activities of extracts from the leaves and stem barks of *Artocarpus scortechinii* KING. *Jurnal Teknologi*, 77(2).
- Jatmika, C., Maggadani, B. P., and Hayun, H. (2015). Evaluasi Aktivitas Antioksidan Senyawa 4-[(E)-2-(4-okso-3-fenilkuinazolin-2-il)etenil]-benzensulfonamida dan Analognya. *Pharmaceutical Sciences & Research*, 2(3).
- Johnny, L., Yusuf, U. K., and Nulit, R. (2010). The Effect of Herbal Plant Extracts on the Growth and Sporulation of *Colletotrichum gloeosporioides*. *Journal of Applied Biosciences*, 34, 2218 - 2224.
- Junsongduang, A., Balslev, H., Inta, A., Jampeetong, A., and Wangpakapattanawong, P. . (2014). Karen and Lawa Medicinal Plant Use: Uniformity or Ethnic Divergence? *Journal of Ethnopharmacology*, 151, 517–527.

- Kamboj, P. T. (2019). Therapeutic benefit of *Dillenia indica* in diabetes and its associated complications. *Journal of diabetes research*, 1-7.
- Kattappagari, K. K., Teja, C. R., Kommalapati, R. K., Poosarla, C., Gontu, S. R., and Reddy, B. V. R. (2015). Role of antioxidants in facilitating the body functions: A review. *Journal of Orofacial Sciences*, 7(2), 71-75.
- Kemit, N., Widarta, I. W. R., and Nocianitri, K. A. (2016). Pengaruh Jenih Pelarut dan Waktu Maserasi Terhadap Kandungan Senyawa Flavonoid dan Aktivitas Antioksidan Ekstrak Daun Alpukat (*Persea americana* Mill). *Jurnal Ilmu dan Teknologi Pangan (ITEPA)*, 5(2), 130-141.
- Khairun, N. B. (2018). Efektivitas Kulit Batang Bakau Minyak (*Rhizophora apiculata*) sebagai Antioksidan. *Jurnal Agromedicine*, 5(1), 412-417.
- Kocabey, N. İ. M. E. T., Yilmaztekin, M. U. R. A. T., and Hayaloglu, A. A. (2016). Effect of Maceration Duration on Physicochemical Characteristics, Organic Acid, Phenolic Compounds and Antioxidant Activity of Red Wine from *Vitis vinifera* L. Karaoglan. *Journal of Food Science and Technology*, 53(9), 3557–3565.
- Lalhminglui, K., and Jagetia, G. C. (2018). Evaluation of the free-radical scavenging and antioxidant activities of Chilauni, *Schima wallichii* Korth in vitro. *Future science OA*, 4(2), FSO272.
- Liana, T. M. (2019). Aktivitas Antioksidan, Kandungan Fenolat dan Flavonoid Total Ekstrak Kulit Batang *Dillenia auriculata* (Dilleniaceae). *PROS SEM NAS MASY BIODIV INDON*, 5, pp. 129-133.
- Lima, C. C., Lemos, R. P., and Conserva, L. M. . (2014). Dilleniaceae family: an overview of its ethnomedicinal uses, biological and phytochemical profile. *Journal of Pharmacognosy and Phytochemistry*, 3(2), 181-204.
- Lo'pez, M., Mart'inez. F., Del Valle, C., Ferrit, F., and Luque, R. (2003). Study of Phenolic Compounds As Natural Antioxidants By A Fluorescence Method. *Study of Phenolic Compounds As Natural Antioxidants By A Fluorescence Method*, 60((2-3)), 609-616.
- Lourenço, S. C., Moldão-Martins, M., and Alves, V. D. (2019). Antioxidants of Natural Plant Origins: From Sources to Food Industry Applications. *Molecules*, 24(22), 4132.
- Lung, J. K. (2017). Uji Aktivitas Antioksidan Vitamin A, C, E dengan metode DPPH. *Farmaka*, 15(1), 53-62.
- Maryam, S., Baits, M., and Nadia, A. (2015). Pengukuran Aktivitas Antioksidan Ekstrak Etanol Daun Kelor (*Moringa oleifera* Lam.) Menggunakan Metode

- FRAP (*Ferric Reducing Antioxidant Power*). *Jurnal Fitofarmaka Indonesia*, 2(2), 115-118.
- Mehta, D. G. P. (2013). *Dillenia indica* Linn. and *Dillenia pentagyna* Roxb.: Pharmacognostic, Phytochemical and Therapeutic aspects. *Journal of Applied Pharmaceutical Science*, 3(11), 134-142.
- Mohd Noor, H. S. (2020). Phytochemical content and antioxidant activity of selected wild ulam/vegetables consumed by indigenous Jakun community in Taman Negara Johor Endau Rompin (TNJER), Malaysia. *Food Research*, 4(1), 28-33.
- Muliawan, S. (2008). Effect of *Dillenia suffruticosa* extract on dengue virus type 2 replication. *Universa Medicina*, 27(1), 1-5.
- Musa, N. D. (2020). *Antioxidant and cytotoxic effects of Dillenia suffruticosa and Eugenia polyantha water extracts against nasopharyngeal carcinoma cells*. Faculty of Engineering, Computing and Science, Swinburne University Of Technology.
- Myke-Mbata, B. K., Meludu, S. C., and Dioka, C. E. (2018). Antioxidant Supplementation and Free Radicals Quelling; the Pros and Cons. *Journal of Advances in Medicine and Medical Research*, 25(6), 1-13.
- Naeimi, A. F., and Alizadeh, M. (2017). Antioxidant properties of the flavonoid fisetin: An updated review of in vivo and in vitro studies. *Trends in Food Science & Technology*, 70, 34-44.
- Neubig, R. R., Spedding, M., Kenakin, T., and Christopoulos, A. (2003). Update on Terms and Symbols in Quantitative Pharmacology. *Pharmacological Reviews*, 55(4), 597-606.
- Nguyen-Pouplin, J., Tran, H., Tran, H., Phan, T. A., Dolecek, C., Farrar, J., and Grellier, P. (2007). Antimalarial and Cytotoxic Activities of Ethnopharmacologically Selected Medicinal Plants from South Vietnam. *Journal of Ethnopharmacology*, 109, 417-427.
- Opitz, S. E., Smrke, S., Goodman, B. A., and Yeretjian, C. (2014). Methodology for the Measurement of Antioxidant Capacity of Coffee: A Validated Platform Composed of Three Complementary Antioxidant Assays. *Processing and Impact on Antioxidants in Beverages*, (pp. 254-264). Academic Press.
- Parvin, M. N., Rahman, M. S., Islam, M. S., and Rashid, M. A. (2009). Chemical and Biological Investigations of *Dillenia indica* Linn. *Bangladesh Journal of Pharmacology*, 4(2), 122-125.

- Pham-Huy, L. A., He, H., and Pham-Huy, C. (2008). Free Radicals, Antioxidants in Disease and Health. *International Journal of Biomedical Science*, 4(2), 89-96.
- Phaniendra, A., Jestadi, D. B., and Periyasamy, L. (2015). Free Radicals: Properties, Sources, Targets, and Their Implication in Various Diseases. *Indian Journal of Clinical Biochemistry*, 30(1), 11–26.
- Prior, R. L., Wu, X., and Schaich, K. (2005). Standardized Methods for the Determination of Antioxidant Capacity and Phenolics in Foods and Dietary Supplements. *Journal of Agricultural and Food Chemistry*, 53, 4290–4302.
- Procházková, D., Boušová, I., and Wilhelmová, N. (2011). Antioxidant and Prooxidant Properties of Flavonoid. *Fitoterapia*, 82(4), 513–523.
- Puspitasari, D., and Desrita, D. (2019). Pengaruh Metode Perebusan Terhadap Uji Fitokimia Daun Mangrove *Excoecaria agallocha*. *Acta Aquatica: Aquatic Sciences Journal*, 6(1), 28-31.
- Putri, A. H., Putriyana, R. S., and Silviani, N. (2019). Isolasi dan Ekstraksi Kelompok Senyawa Flavonoid dari Ekstrak Daun Cocor Bebek (*Kalanchoe pinnata*). *Fullerene Journal of Chemistry*, 4(2), 28-33.
- Rahayu, S., Zahara, I., Pambudi, K. A., Afifah, A., and Supriyatin, S. (2019). Antioxidant capacity of *Dillenia* sp. leaf extract against DPPH. *Journal of Physics: Conference Series*, 1402, 1-8.
- Sabandar, C. W., Jalil, J., Ahmat, N., and Aladdin, N. A. (2016). Medicinal Uses, Chemistry and Pharmacology of *Dillenia* species (Dilleniaceae). *Phytochemistry*, 134, 6–25.
- Saefudin, S., Marusin, S., and Chairul, C. (2013). Aktivitas Antioksidan pada Enam Jenis Tumbuhan Sterculiaceae. *Jurnal Penelitian Hasil Hutan*, 31(2), 103-109.
- Saiful Yazan, L., and Armania, N. (2014). *Dillenia* species: A review of the traditional uses, active constituents and pharmacological properties from pre-clinical studies. *Pharmaceutical Biology*, 52(7), 890–897.
- Sami, F. J., and Rahimah, S. . (2015). Uji Aktivitas Antioksidan Ekstrak Metanol Bunga Brokoli (*Brassica oleracea* L. var. *Italica*) dengan Metode DPPH (2,2 diphenyl-1-picrylhydrazyl) dan Metode ABTS (2,2 azinobis (3- etilbenzotiazolin)-6-asam sulfonat). *Jurnal Fitofarmaka*, 2(2), 107-110.
- Sari, Ayu Nirmala. (2016). Berbagai Tanaman Rempah Sebagai Sumber Antioksidan Alami. *Journal of Islamic Science and Technology*, 2(2), 203-212.

- Sen, S., Chakraborty, R., Sridhar, C., Reddy, Y. S. R., and De, B. (2010). Free Radicals, Antioxidants, Diseases, and Phytomedicines: Current Status and Future Prospect. *Journal of Pharmaceutical Sciences Review and Research*, 3(1), 91-100.
- Setiawan, F., Yunita, O., and Kurniawan, A. (2018). Uji Aktivitas Antioksidan Ekstrak Etanol Kayu Secang (*Caesalpinia sappan*) Menggunakan Metode DPPH, ABTS, dan FRAP. *Media Pharmaceutica Indonesiana*, 2(2), 82-89.
- Shah, M. D. (2020). Antiparasitic activity of the medicinal plant *Dillenia suffruticosa* against the marine leech *Zeylanicobdella arugamensis* (Hirudinea) and its phytochemical composition. *Aquaculture Research*, 51(1), 215-221.
- Shah, M. D. (2020). Phytochemical investigation and antioxidant activities of methanol extract, methanol fractions and essential oil of *Dillenia suffruticosa* leaves. *Arabian Journal of Chemistry*, 13(9), 7170-7182.
- Shalaby, E. A., dan Shanab, S. M. (2013). Comparison of DPPH and ABTS assays for determining antioxidant potential of water and methanol extracts of *Spirulina platensis*. *Indian Journal of Geo-Marine Sciences*, 42(5), 556-564.
- Shama, S. N., Lakshmi, S. M., and Devanna, N. (2019). Phytochemical Screening and Antioxidant Activity of *Dillenia bracteata*. *International Journal of Green Pharmacy*, 13(2), 126-132.
- Sharifi-Rad, M., Mnayer, D., Morais-Braga, M. F. B., Carneiro, J. N. P., Bezerra, C. F., Coutinho, H. D. M., and Sharifi-Rad, J. (2018). Echinacea plants as antioxidant and antibacterial agents: From traditional medicine to biotechnological applications. *Phytotherapy Research*, 32(9), 1-11.
- Singh, S., Saikia, J. P., and Buragohain, A. K. (2013). A novel 'green' synthesis of colloidal silver nanoparticles (SNP) using *Dillenia indica* fruit extract. *Colloids and Surfaces B: Biointerfaces*, 102, 83– 85.
- Terahara, N. (2015). Flavonoids in Foods: A Review Norihiko. *Natural Product Communications*, 10(3), 521-528.
- Thooptianrat, T., Chaveerach, A., Sudmoon, R., and Tanee, T. (2017). DNA Profiles to Identify *Dillenia Species* (Dilleniaceae) in Thailand. *Phytotaxa*, 296(3), 239–252.
- Tristantini, D., Ismawati, A., Pradana, B. T., and Jonathan, J. G. (2016). Pengujian aktivitas antioksidan menggunakan metode DPPH pada daun tanjung (*Mimusops elengi* L). In *Seminar Nasional Teknik Kimia Kejuangan*, (p. 1). Yogyakarta.

- Üstündaş, M., Yenner, H. B., and Helvac, Ş, Ş. (2018). Parameters Affecting Lycopene Extraction from Tomato Powder and Its Antioxidant Activity. *Anadolu University Journal of Science and Technology A- Applied Sciences and Engineering*, 19(2), 454 - 467.
- Utami, M. R., and Anjani, R. D. (2020). Analisis Fitokimia dan Toksisitas Ekstrak Etanol Daun, Kulit Batang, Akar Tanaman Simpurr (*Dillenia indica* L) Dengan Metode *Brine Shrimp Lethality Test* (BSLT). *Media Farmasi*, XVI(2), 2622-0962.
- Venkata Smitha, P., Ch, M. M., Kandra, P., Sravani, R., and Raju, B. A. (2012). Screening of antimicrobial and antioxidant potentials of *Acacia caesia*, *Dillenia pentagyna* and *Buchanania lanzan* from Maredumilli Forest of India. *Journal of Pharmacy Research*, 5(3), 1734-1738.
- Werdhasari, A. (2014). Peran Antioksidan Bagi Kesehatan. *Jurnal Biotek Medisiana Indonesia*, 3(2), 59-68.
- Wuart, C., Mogana, S., Khalifah, S., Mahan, M., Ismail, S., Buckle, M., and Sulaiman, M. (2004). Antimicrobial screening of plants used for traditional medicine in the state of Perak, Peninsular Malaysia. *Fitoterapia*, 75, 68–73.
- Widowati, W. (2011). Uji Fitokimia dan Potensi Antioksidan Ekstrak Etanol Kayu Secang (*Caesalpinia sappan* L.). *Jurnal Kedokteran Maranatha*, 11(1), 23-31.
- Xue, Y., Zheng, Y., An, L., Dou, Y., and Liu, Y. (. (2014). Density functional theory study of the structure–antioxidant activity of polyphenolic deoxybenzoins. *Food Chemistry*, 151, 198–206.
- Yadav, A., Kumari, R., Yadav, A., Mishra, J. P., Srivatva, S., and Prabha, S. . (2016). Antioxidants and Its Functions in Human Body - A Review. *Research in Environment and Life Sciences*, 9(11), 1328-1331.
- Yuningtyas, S., and Roswiem, A. P. (2018). Aktivitas Inhibisi A-Glukosidase dari Ekstrak Air dan Etanol Daun Simpurr Air (*Dillenia suffruticosa* (Griff.) Martelli). *Jurnal Farmamedika*, 3(1), 21-26.