



## DAFTAR PUSTAKA

- Abdul, A.B., Abdelwahab, S.I., Jalinas, J.B., Alzhubairi, A.S., & Taha, M.M.E. (2009). Combination of zerumbone and cisplatin to treat cervical intraepithelial neoplasia in female BALB/c mice. *International Journal of Gynecological Cancer*, Vol. 19 (6) : 1004-1010.
- Adiningsih, W., Vifta R. L., & Yuswantina, R. (2021). Uji Aktivitas Antibakteri Ekstrak Etanol 70% dan Ekstrak Etanol 96% Buah Strawberry (*Fragaria x Ananassa*) terhadap Bakteri *Propionibacterium acnes*. *Journal of Research in Pharmacy*, 1(1): 1-9.
- Adnyana, I. K., Rakhamawati, I., dan Afifa, A. T. (2011). Aktivitas Kemopreventif Kanker dari Ekstrak Etanol Lempuyang Wangi pada Mencit yang Diinduksi DMBA. *Acta Pharmaceutica Indonesia*, 36(1&2): 11-15.
- Amalia, A., Sari, I., & Nursanty, R. (2017). AKTIVITAS ANTIBAKTERI EKSTRAK ETIL ASETAT DAUN SEMBUNG (*Blumea balsamifera* (L.) DC.) TERHADAP PERTUMBUHAN BAKTERI *Methicillin Resistant Staphylococcus aureus* (MRSA). *Prosiding Seminar Nasional Biotik*, 387-391.
- Ashri, N. H. (2016). Uji Aktivitas Dan Identifikasi Senyawa Kimia Antibakteri Ekstrak Etanol Daun Bidara (*Ziziphus spina-christi* L) Terhadap Beberapa Bakteri Patogen. Naskah Skripsi. Fakultas Kedokteran dan Ilmu Kesehatan. Universitas Islam Negeri Alauddin Makassar.
- Azhar, N., Hussain, B., Ashraf, Y.M., Abbasim, K.Y. (2011). Water stress mediated changes in growth, physiology and secondary metabolites of desi ajwain (*Trachyspermum ammi*). *Pakistan Journal of Botany*, 43 (9), 15–19.
- Azmin, A. N. H. M., Manan, Z. A., Alwi, S. R.W., Chua, L. S., Mustaffa, A. A., & Yunus, N. A. (2016). *Herbal Processing and Extraction Technologies, Separation & Purification Review*, 45(4): 305-320.
- Baatour, O.R., Kaddour, W., Wannes, A., Lachaal, M., Marzouk, B. (2010). Salt effects on the growth, mineral nutrition, essential oil yield and composition of marjoram (*Origanum majorana*). *Acta Physiol. Plant.* 32 (1), 45–51.
- Barzic, A. I & S. Loan. (2015). *Antibacterial Drugs — From Basic Concepts to Complex Therapeutic Mechanisms of Polymer Systems*, in V. Bobbarala (ed.), *Concepts, Compounds and the Alternatives of Antibacterials*. IntechOpen, London
- Boakye, Y. D., Agyare, C., & Hensel, A. (2016). Anti-infective properties and time-kill kinetics of Phyllanthus muellerianus and its major constituent, geraniin. *Medicinal Chemistry: Current Research*, 6, 95–104.
- Boccolini, P. M. M & Boccolini, C. S. (2020). Prevalence of Complementary and Alternative Medicine (CAM) Use in Brazil. *BMC Complement Med Ther*, 20(1): 51.
- Brehm-Stecher, B.F & Jonhson, E. A. (2003). Sensitization of *Staphylococcus aureus* and *Escherichia coli* to antibiotics by the sesquiterpenoids nerolidol, farnesol, bisabolol and apritone. *Antimicrobial Agents and Chemotherapy*, 47: 3357-3360.



- Broun, P., Liu, Y., Queen, E., Schwarz, Y., Abenes, M.L., Leibman, M. (2006). Importance of transcription factors in the regulation of plant secondary metabolism and their relevance to the control of terpenoid accumulation. *Phytochem. Phytochemistry Reviews*, 5(1):27–38.
- Budifaka, M.J. (2014). Profil Fitokimia Aktivitas Antibakteri Tanaman Obat Di Sulawesi Tenggara Terhadap Bakteri *Salmonella typhi* YCTC. Skripsi. Kendari, Universitas Halu Oleo.
- Cavalier-Smith, T. (2007). Origins of Secondary Metabolism. *Novartis Foundation Symposia*, 64–87. doi:10.1002/9780470514344.ch5
- Chandra, K., McIntosh, G.H., Ian, R.R., & J. Graham P. (2003). Antitumor activity of extract of *Zingiber aromaticum* and its bioactive sesquiterpenoid zerumbone. *Nutrition and cancer* 45(2):218-225.
- Chane-Ming, J., Vera, R & Chalchat, J. C. (2003). Chemical Composition of the Essential Oil from Rhizomes, Leaves and Flowers of *Zingiber zerumbet* Smith from Reunion Island. *Journal of Essential Oil Research*, 15(3): 202–205.
- Chessa, D., Ganau, G., Mazzarello, V. (2015). An overview of *Staphylococcus epidermidis* and *Staphylococcus aureus* with a focus on developing countries. *The Journal of Infection in Developing Countries*, 9(6):547-550.
- Ciulei, J. (1984). *Metodology for Analysis of vegetable and Drugs*. Bucharest Rumania: Faculty of Pharmacy. pp 11-26.
- Conitaty, Y., Fitriyanti., Hasymi, F. (2022). Uji Efektivitas Antibakteri Ekstrak Metanol Daun Rmania (*Bouea macrophylla* Griffith) terhadap Bakteri *Staphylococcus aureus*. *Pharmacoscript*, 5(2): 212-224.
- Estell, R.E., Fredrickson, E.L., James, D.K., (2016). Effect of light intensity and wavelength on concentration of plant secondary metabolites in the leaves of *Flourensia cernua*. *Biochememical Systematics and Ecology*, 65, 108–114.
- F. Caron. (2009). Antimicrobial susceptibility testing : a four facets tool for the clinician. *Journal Desinfectant Anti-Infectious*, 14: 186-174.
- Farha, A. K., Yang, Q. Q., Kim, G., Li, H. Bin, Zhu, F., Liu, H. Y., ... Corke, H. (2020). Tannins as an alternative to antibiotics. *Food Bioscience*, 38(September), 100751. <https://doi.org/10.1016/j.fbio.2020.100751>
- Farnsworth, N. R. (1966). Biological and Phytochemical Screening of Plant. *Journal of Pharmaceutical Sciences*, 55: 59.
- Farrell D.J., Mendes Rodrigo E., Ross James E., Sader Helio S., Jones Ronald N. (2011). LEADER program results for 20 09: An Activity and Spectrum Analysis of Linezolid Using 6,414 Clinical Isolates from 56 Medical Centers in the United States. *Antimicrob. Agents Chemother*, 55:3684–3690.
- Ginting, P. A. W. (2018). Uji Aktivitas Antibakteri Ekstrak Metanol, Etil Asetat, dan n- Heksana dari Daun Benalu Alpukat (*Dendrophthoe pentandra* (L.) Miq.). Naskah Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Sumatera Utara.
- Hamory, B.H., Parisi, J. T., Hutton, J. P. (1987). *Staphylococcus epidermidis*: a Significant Nosocomial Pathogen. *American Journal of Infection Control*, 15(2):59-74.
- Harbone, J.B. (2006). *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan. Edisi Kedua*. Bandung : Penerbit ITB. pp 4-147. Markham, K. R. 1988. Cara Mengidentifikasi



- Hartanti, D and Cahyani, A. N. (2020). Plant Cyanogenic Glycosides: An Overview. *Farmasains: Jurnal Farmasi dan Ilmu Kesehatan*, 5(1): 1-6
- Hassan, M. N & Laily, A. N. (2014). Uji Kandungan Flavonoid dan Perbandingan Aktivitas Antioksidan Pada Ekstrak Etanol Simplisia Bunga Pepaya Gantung Saat Kuncup dan Mekar. *Jurnal Skrining Bioaktif*, 1-12 <http://dx.doi.org/10.13140/RG.2.2.19762.40647>
- Hudzicki, J. (2009). Kirby-Bauer Disk Diffusion Susceptibility Test Protocol. *American Society for Microbiology*, pp: 1-15.
- Husni E., Netty. Suharti, dan Arlyn.P. (2018). Karakterisasi Simplisia dan Ekstrak Daun Pacar Kuku (*Lawsonia inermis* Linn) Serta Penentuan Kadar Fenolat Total dan Uji Aktivitas Antioksidan. *Jurnal Sains Farmasi dan Klinis*, 5(1):12-16.
- ITIS. (2022). Integrated Taxonomic Information System: *Staphylococcus epidermidis* (Winslow and Winslow, 1916). [https://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=377#null](https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=377#null). Diakses tanggal. 28 Februari 2023, jam 14.29.
- Jaafar, H.Z., Ibrahim, M.H., Mohamad, F.N.F. (2012). Impact of soil field water capacity on secondary metabolites, phenylalanine ammonia-lyase (PAL), maliondialdehyde (MDA) and photosynthetic responses of Malaysian kacip fatimah (*Labisia pumila* Benth). *Molecules*, 17 (6): 7305–7322
- Jamco, J. C. S & Balami, A. M. (2022). Analisis Kruskal-Wallis untuk Mengetahui Konsentrasi Belajar Mahasiswa Berdasarkan Bidang Minat Program Studi Statistika Fmipa UNPATTI. *Parameter*, 1(1): 29-30.
- Jones, W.P., Kinghorn, A.D. (2006). *Extraction of Plant Secondary Metabolites*. In: Sharker, S.D. Latif Z., Gray A.L, eds. *Natural Product Isolation. 2nd edition*. Humana Press. New Jersey.
- Kanani, M., Chamani, E., Shokouhian, A. A., & Torabi-Giglou, M. (2021). Plant secondary metabolism and flower color changes in damask rose at different flowering development stages. *Acta Physiologiae Plantarum*, 43(4), 1–10. <https://doi.org/10.1007/s11738-021-03200-w>
- Kristanti, Karenia Uly Imaculata. (2014). Uji Aktivitas Antibakteri dari Ekstrak Tanaman Suruhan (*Peperomia pellucida* L.) Terhadap Pertumbuhan bakteri *Escherichia coli* dan *Bacillus cereus* Secara In-Vitro Serta Kaitannya Dengan Pembelajaran Biologi SMA Kelas X. Skripsi. Universitas Sanata Dharma.
- Lax, S., Gilbert, J.A. (2015). Hospital-associated Microbiota and Implications for Nosocomial Infections. *Trends Mol Med*, 21(7):427-32.
- Lestari, G., Noptahariza, R., & Rahmadina, N. (2020). Uji Aktivitas Antibakteri Formulasi Sabun Cair Ekstrak Kulit Buah Durian (*Durio Zibethinus* L.) Terhadap Bakteri *Staphylococcus aureus*. *Cendekia Journal of Pharmacy*, 4(2), 95–101.
- Lestari, I. K. (2012). Penentuan Profil Metabolit Sekunder Ekstrak Etanol Rimpang Lempuyang Wangi (*Zingiber zerumbet*) dengan T;C dan GC-MS. Naskah Publikasi. Fakultas Farmasi. Universitas Muhammadiyah.
- Li, Q., Lei, S., Du, K., Li, L., Pang, X., Wang, Z., Wei, M., Fu, S., Hu, L., Xu, L., (2016a). RNA-seq based transcriptomic analysis uncovers a-linolenic acid and jasmonic acid biosynthesis pathways respond to cold acclimation in



*Camellia japonica.* Sci. Rep. UK 6, 36463.  
<https://doi.org/10.1038/srep36463>

- Li, Y., Kong, D., Fu, Y., Sussman, M. R., & Wu, H. (2020). The effect of developmental and environmental factors on secondary metabolites in medicinal plants. *Plant Physiology and Biochemistry*, 148(December 2019), 80–89. <https://doi.org/10.1016/j.plaphy.2020.01.006>
- Li, Y.Q., Kong, D.X., Liang, H.L., Wu, H. (2018). Alkaloid content and essential oil composition of *Mahonia brevirostris* cultivated under different light environments. *Journal of Applied Botany Food Quality*. 91, 171–179.
- Lianah., Krisantini., Wegener, M. (2020). Evaluation and identification of the native Zingiberaceae species in Mijen, Central Java, Indonesia. *The 3rd International Conference on Biosciences*, 457: 1-11.
- Lin, D., Xiao, M., Zhao, J., Li, Z., Xing, B., Li, X., ... Chen, S. (2016). An overview of plant phenolic compounds and their importance in human nutrition and management of type 2 diabetes. *Molecules*, 21(10). <https://doi.org/10.3390/molecules21101374>
- Mugford ST, Osbourn A. (2012). Saponin Synthesis and Function. Isoprenoid Synthesis in Plants and Microorganisms. [Diakses pada 5 Juni 2023]. doi: 10.1007/978-1-4614-4063-5\_28. PMID: PMC7121976.
- Nomer, N. M. G. R., Duniaji, A. S., Nocianitri, K. A. (2019). Kandungan Senyawa Flavonoid Dan Antosianin Ekstrak Kayu Secang (*Caesalpinia sappan* L.) Serta Aktivitas Antibakteri Terhadap *Vibrio cholerae*. *Jurnal Ilmu dan Teknologi Pangan*, 8(2): 216-225.
- Okoli, R. I., Turay, A. A., Mensah, J. K., Aigbe, A. O. (2009). Phytochemical and antimicrobial properties of four herbs from Edo state, Nigeria. *Report and Opinion*, 1:67–73.
- Osmić, S., Begić, S., Mićić, V., Petrović, Z., & Avdić, G. (2019). Effect of Solvent and Extraction Conditions on Antioxidative Activity of Sage (*Salvia officinalis* L.) Extracts Obtained by Maceration. *Technologica Acta*, 11(2), 1–8. <https://doi.org/10.5281/zenodo.2563049>
- Plant of the World Online (POWO). (2023). *Zingiber zerumbet* subsp. *zerumbet*. [Online diakses pada 23 Juli 2023] <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:873035-1>
- Pramesti, G., F. Arum., A. Retnoningsih, A. Irsadi. (2012). Etnobotani Tumbuhan Obat Masyarakat Desa Kesene Kecamatan Sumowono Kabupaten Semarang Jawa Tengah. *Unnes Journal of Life Science*, 1(2): 12-132.
- Priamsari, M. R & Pokhana, A. (2020). Uji Aktivitas Antibakteri Ekstrak Etanolik Daun Mengkudu (*Morinda citrifolia* L.) Terhadap Bakteri *Streptococcus pyogenes* secara In Vitro. *Journal of Pharmacy*, 9(2): 16-17.
- Radji M, Sumiati A, Rachmayani R and Elya B. (2011). Isolation of Fungal Endophytes from *Garcinia mangostana* and Their Antibacterial Activity. *African Journal of Biotechnology*, 10 (1):103-07.
- Rahman, F. A., Haniastuti, T., & Utami, T, W. (2017). Skrining Fitokimia dan Aktivitas Antibakteri Ekstrak Etanol Daun Sirsak (*Annona muricata* L.) pada *Streptococcus mutans* ATCC 35668. *Majalah Kedokteran Gigi*, 3(1) : 5.



- Ramakrishna A, Ravishankar GA. Influence of abiotic stress signals on secondary metabolites in plants. (2011) *Plant Signal Behav*, 6(11):1720-31. doi: 10.4161/psb.6.11.17613
- Rashidinejad A, Marze S, Singh H. (2021). Lipid digestion and bioaccessibility of lipid-soluble compounds. In: Grundy MML, Wilde PJ (eds). Bioaccessibility and Digestibility of Lipids from Food. Springer, Cham. DOI: 10.1007/978-3-030-56909-9\_10
- Repi, N. B., Mambo, C & Wuisan, J. (2016). Uji efek antibakteri ekstrak kulit kayu manis (*Cinnamomum burmannii*) terhadap *Escherichia coli* dan *Streptococcus pyogenes*. *Jurnal e-Biomedik*, 4(1): 1-5.
- Rizki, A. F., Nasution, H. M., Rahayu, Y. P., Yuniarti, R. (2023). Uji Aktivitas Antibakteri Fraksi Etil Asetat Rimpang Lempuyang Wangi (Zingiber zerumbet (L.) Roscoe ex Sm.) Terhadap *Propionibacterium Acnes* dan *Escherichia Coli*. *Journal of Health and Medical Science*, 2(2): 5-15.
- Rosyidah, K., Nurmuhamina, Komari, M.D.Astuti. (2010). Aktivitas Antibakteri Fraksi Saponin dari Kulit Batang Tumbuhan Kasturi *Mangifera casturi*. *Bioscientiae*, 7 (2): 25-31.
- Sabu M. (2003). "Revision of the genus Zingiber in South India," *Folia Malesiana*, vol. 4, pp. 25–52.
- Safrudin, N., & Nurfitasari, F. (2018). Analisis Senyawa Metabolit Sekunder dan Uji Aktivitas Antioksidan Dengan Metode DPPH (1,1-diphenyl-2-picrylhydrazly) dan Ekstrak Daun Bidara (*Ziziphus spina-cristi* L.). *Jurnal ITEKIMA*, 4(2): 163-169.
- Sari, S. A., Ernita, M., Mara, M. N., & AR, M. R. (2020). Identification of Active Compounds on *Muntingia calabura* L.Leaves using Different Polarity Solvents. *Indonesian Journal of Chemical Science and Technology (IJCST)*, 3(1), 1. <https://doi.org/10.24114/ijcst.v3i1.18309>
- Saudah,. Viena. V., & Ernilasari. (2019). Ekplorasi Spesies Tumbuhan Berkhasiat Obat Berbasis Pengetahuan Lokal di Kabupaten Pidie. *Jurnal Tumbuhan Obat Indonesia*, 12(2): 56-67.
- Severn, M.M., & Horswill, A.R. (2023). *Staphylococcus epidermidis* and Its Dual Lifestyle In Skin Health and Infection. *Nat Rev Microbiol* 21, 97–111.
- Sood, S & Nagar P. K. (2003). Changes in abscisic acid and phenols during flower development in two diverse species of rose. *Acta Physiol Plant*, 25:411–416
- Stan, D., Enciu, A. M., Mateescu, A. L., Ion, A. C., Brezeanu, A. C., Stan, D., & Tanase, C. (2021). Natural Compounds With Antimicrobial and Antiviral Effect and Nanocarriers Used for Their Transportation. *Frontiers in Pharmacology*, 12 : 1- 25.
- Stan, D., Enciu, A. M., Mateescu, A. L., Ion, A. C., Brezeanu, A. C., Stan, D., & Tanase, C. (2021). Natural Compounds With Antimicrobial and Antiviral Effect and Nanocarriers Used for Their Transportation. *Frontiers in Pharmacology*, 12 : 1- 25.
- Sulasmi. S., E., Saptasari, M., Mawaddah, K., & Zulfia, F. A (2019). Tannin identification of 4 species pterydophyta from baluran national park. *Journal of Physics: Conference Series*, 1241(1), 0–7. <https://doi.org/10.1088/1742-6596/1241/1/012002>



- Susanto, S. D & Ruga R. (2012). Studi kandungan bahan aktif tumbuhan meranti merah (*Shorea leprosula* Miq) sebagai sumber senyawa antibakteri. *Mulawarmnan Scientific*, 11(2):181-90.
- Taiz, L. and E. Zeiger. (2002). *Plant Physiology. 3rd Edition*. Sinauer. Associates.Sunderland.
- Thimmappa, R., Geisler, K., Louveau, T., O'Maille, P., & Osbourn, A. (2014). Triterpene biosynthesis in plants. *Annual Review of Plant Biology*, 65, 225–257. <https://doi.org/10.1146/annurev-arplant-050312-120229>
- Truong, D. H., Nguyen, D. H., Ta, N. T. A., Bui, A. V., Do, T. H., & Nguyen, H. C. (2019). Evaluation of the use of different solvents for phytochemical constituents, antioxidants, and in vitro anti-inflammatory activities of *Severinia buxifolia*. *Journal of Food Quality*, 2019. <https://doi.org/10.1155/2019/8178294>
- Ullah, H & Ali, S. (2017). *Classification of Anti-Bacterial Agents and Their Functions*. In(Ed.), *Antibacterial Agents*. IntechOpen, London. pp : 1-16.
- Wagstaf C, Yang TJW, Stead AD, Buchanan-Wollaston V, Roberts JA. (2009). A molecular and structural characterization of senescing *Arabidopsis silique*s and comparison of transcriptional profiles with senescing petals and leaves. *Plant J*, 57:690–705.
- Wahyuni, S., Bermawie, N., Kristina, N. N. (2013). Karakteristik Morfologi, Potensi Produksi dan Komponen Utama Rimpang Sembilan Nomor Lempuyang Wangi. *Jurnal Littri*, 19(3): 99-107.
- Wawang, S., In, J. K., & Rita, K. R. (2007). Recovery Metanol pada Proses Pembuatan Biodiesel dari Minyak Jarak Pagar (*Jatropha curcas* Oil). *Konferensi Nasional 2007-Pemanfaatan Hasil Samping Industri Biodiesel dan Industri Etanol serta Peluang Pengembangan Industri Integratednya*, pp: 138-153.
- Windarini, L. G. E., Astuti, K. W., Warditiani, N. K. (2013). Skrining Fitokimia Ekstrak Metanol Kulit Buah Manggis (*Gracinia mangostana* L.). *Jurnal Farmasi Udayana*, 2(4): 1-8.
- World Health Organization. (2005). Epidemiology and Management of Common Skin Diseases in Children in Developing Countries. World Health Organization. *Geneva*. pp.54
- Yulina, I. K. (2017). Back to Nature: Kemajuan atau Kemunduran. *Mangifera Edu*, 2(1): 20-31.
- Zheng, C.X., Ma, X.F., Zhang, Y.H., Li, H.J., Zhang, G.F. (2018). Research progress in the mechanism of translation initiation of eukaryotic mRNAs. *Yi Chuan*, 40(8):607-619.
- Zhou, X & Li, Y. (2015). *Atlas of Oral Microbiology: Chapter 3 Supragingival Microbes*. Academic Press, page 41-65.
- Zulfahmi & Solfan. B. (2010). Eksplorasi Tanaman Obat Potensial Di Kabupaten Kampar. *Jurnal Agroteknologi*, 1(1): 31-38.