

DAFTAR PUSTAKA

- Aati, H., R. Mehmood. 2020. Chemical Composition and Antimicrobial Activity of The Essential Oils of *Artemisia absinthium*, *Artemisia scoparia*, and , *Artemisia sieberi* grown in Saudi Arabia. *Arabian Journal of Chemistry*. 13:8209-8217
- Agoramoorthy, G., M. Chandrasekaran., V. Venkatesalu and M.J. Hsu. 2007. Antibacterial and Antifungal Activities of Fatty Acid Methyl Esters of The Blind-Your Eye Mangrove From India. *Brazilian Journal of Microbiology*. 38: 739–742.
- Agustini, N.W., Y. Wijayanto. 2020. Isolation, Identification, of Fatty Acids From *Spirulina platensis* as Antibacterial. *IOP Conf Series : Earth and Enviromental Sciences*. 457:1-9
- Aral, H., Haşimi, D., Aral, T., Levent, A., & Ziyadanoğullari, B. 2017. Separation, optimization, and quantification of cytokinins by a recently developed amide-embedded stationary phase. *Journal of Liquid Chromatography & Related Technologies*, 40(11), 549-555.
- Atta, R., L. Laurens, E. Boucheron-Dubuisson, A. Guivarc'h, E. Carnero, V. Giraudat-Pautot, P. Rech, and D. Chriqui. 2009. Pluripotency of *Arabidopsis* xylem pericycle underlies shoot regeneration from root and hypocotyl explants grown *in vitro*. *The Plant Journal*, 57(4): 626-644.
- Ayuningtyas, N.K. 2018. Pengaruh Pemberian Elisitor Asam Metil Jasmonat Dalam Produksi Metabolit Sekunder Pada Kultur Kalus Pegagan (*Centella asiatica* (L.) Urb.). Skripsi S1 Farmasi UGM Yogyakarta.
- Babu, S., S. Jayaraman. 2020. An Update on Beta-Sitosterol : A Potential Hebal Nutraceutical for Diabetic Management. *Biomedicine & Pharmacotherapy*. 131:1-8
- Bae, E.Y., Oh, H., Oh, W.K., Kim, M.S., Kim, B.S., Kim, B.Y., Sohn, C.B., Osada, H., Ahn, J.S. 2004. A new VHR dual-specificity tyrosine phosphatase inhibitor from *Dendrobium moniliforme*. *Planta Medica*. 70: 869-870.
- Berckmans, B., V. Vassileva, S.P. Schmid, S. Maes, B. Parizot, S. Naramoto, Z. Magyar, C.L.A. Kamei, C. Koncz, L. Bögre, and G. Persiau. 2011. Auxindependent cell cycle reactivation through transcriptional regulation of *Arabidopsis E2Fa* by lateral organ boundary proteins. *The Plant Cell*, 23(10): 3671-3681.
- Bhatia, S. 2015. Plant tissue culture. In S. Bhatia, K. Sharma, R. Dahiya, and T. Bera (Eds.), *Modern Applications of Plant Biotechnology in Pharmaceutical Sciences*. Academic Press. pp. 29-106
- Bourgaud, F., A. Gravot, S. Milesi, and E. Gontier. 2001. Production of plant secondary metabolites: A historical perspective. *Plant Sci.*, 161(5): 839– 851.

- Boutilier, K., Offringa, R., Sharma, V.K., Kieft, H., Ouellet, T., Zhang, L., Hattori, J., Liu, C.M., van Lammeren, A.A.M., Miki, B.L.A., Custers, J.B.M., and van Lookeren Campagne, M.M. 2002. Ectopic expression of *BABY BOOM* triggers a conversion from vegetative to embryonic growth. *Plant Cell* 14: 1737–1749
- Calderon L.I., Tan X., Zheng N., and Estelle M. 2010. Auxin Perception Structural Insights. *Cold Spring Harb Perspect Biol.* 2: 1-16.
- Canadian Orchid Congress. 2003. *Dendrobium phalaenopsis* Orchids. www.canadianorchidcongress.ca
- Chen, K.K., Chen, A.L. 1935. The alkaloid of Chih-Shih-Hu. *Journal of Biological Chemistry*. pp: 653-658.
- Chen, C.C., Wu, L.G., Ko, F.N., Teng, C.M. 1994. Antiplatelet aggregation principles of *Dendrobium loddigesii*. *Journal of Natural Products*. 57: 1271-1274.
- Chesworth, J. M., Stuchbury, T., & Scaife, J. R. 2012. *An introduction to agricultural biochemistry*. Springer Science & Business Media.
- Daisy, P., S.Hendaryono dan A.Wijayani. 2012. *Teknik Kultur Jaringan*. Kaninus. Yogyakarta. p:26-31.
- Departemen Kesehatan Republik Indonesia, 2008, *Farmakope Herbal Indonesia*, Edisi I, 109-114, Departemen Kesehatan Republik Indonesia Jakarta
- Fan, C., Wang, W., Wang, Y., Qin, G., Zhao, W. 2001. Chemical constituents from *Dendrobium densiflorum*. *Phytochemistry*. 57: 1255-1258.
- Gandawidjaya, D., Sastrapradja, S. 1980. Plasma nutfah *Dendrobium* asal Indonesia. *Buletin Kebun Raya*. 4 (4): 113-125.
- George, E. F., Hall, M. A., & De Klerk, G. J. (Eds.). 2007. *Plant propagation by tissue culture: volume 1. the background (Vol. 1)*. Springer Science & Business Media
- Gong CY, Yu ZY, Lu B, Yang L, Sheng YC, Fan YM, Ji LL, Wang ZT. 2014. Ethanol extract of *Dendrobium chrysotoxum* Lindl ameliorates diabetic retinopathy and its mechanism. *Vascular pharmacology*. 62(3):134-42.
- Gong, Y.Q., Fan, Y., Wu, D.Z., Yang, H., Hu, Z.B., Wang, Z.T. 2004. *In vivo* and *in vitro* evaluation of erianin, a novel anti angiogenic agent. *European Journal of Cancer*. 40: 1554-1565.
- Govaerts, R. 2003. *World Checklist of Monocotyledons Database in ACCESS: 1-71827*. The Board of Trustees of the Royal Botanic Gardens, Kew.
- Guo Z, Zhou Y, Yang J, Shao X. 2019. *Dendrobium candidum* extract inhibits proliferation and induces apoptosis of liver cancer cells by inactivating Wnt/ β -catenin signaling pathway. *Biomedicine & Pharmacotherapy*. 110:371- 9.
- Gupta, A. 2016. Asymbiotic Seed Germination in Orchids: Role of

- Organic Additives. *IARJSET*. 3(5):143-147.
- Gutierrez, R.M.P. 2010. Orchids: a review of uses in traditional medicine, its phytochemistry and pharmacology. *Journal of Medicinal Plants Research*. 4 (8): 592-638.
- Gutzeit, H.O. and J.L. Muller. 2014. *Plant natural product, synthesis, biological functions and practical applications*. Wiley Blackwell. Jerman.
- Hamid, A.A., Aliyu, M.A., Abubakar, L.Z., Mukadam, A.A., Shehu, A., Egharevba, G., Adisa, M.J., Ajibade, S.O., Zubair, A.O., Fagbohun, E.O. 2017. *Thaumatococcus daniellii* Leaves: Its Chemical Compositions, Antioxidant and Antimicrobial Activities. *Ife Journal of Science*. 19: 409-417
- Hasanah, Y., L.Marwani, C.Hanum, and Nurhaida. 2020. Effect of Coconut Water and Banana Hump Extract on the Growth of Binahong (*Anredera cordifolia*) accessions from lowland. *The 7th Symposium of Japan-Asean Science Technology Innovation Platform-IOP Conf.Series:Earth and Environmental Science*. 591:1-7
- Hidayati NZ, Saptadi D, Soetopo L. 2016. Analisis hubungan kekerabatan 20 spesies anggrek *Dendrobium* berdasarkan karakter morfologi. *Jurnal produksi Tanaman*. 4(4):291-7.
- Ho, C.K., Chen, C.C. 2003. Moscatilin from the orchid *Dendrobium loddigesii* is a potential anticancer agent. *Cancer Investigation*. 21:729-736.
- Hoesen, DS, Witjaksono, dan LA, Sukanto. 2008. Induksi Kalus Dan Organogenesis Kultur/Zv *Vitro Dendrobium lineale* Rolfe. *Berita Biologi*. 9(3): 334-340.
- Hussain, S. Z and K. Maqbool. 2014. GC-MS: Principle, Technique and its application in Food Science. *INT J CURR SCI*. 13: 116 – 126.
- Hwang, I., J. Sheen, and B. Müller. 2012. Cytokinin signaling networks. *Annu. Rev. Plant Biol.* 63: 353–379
- Ikeuchi, M., K. Sugimoto, and A. Iwase. 2013. Plant Callus: Mechanisms of Induction and Repression. *The Plant Cell*, 25: 3159–3173.
- Indah, P.N dan D. Ermavitalini. 2013. Induksi Kalus Daun nyamplung (*Calophyllum inophyllum* Linn.) pada Beberapa Kombinasi Konsentrasi 6-Benzylaminopurine (BAP) dan 2,4-Dichlorophenoxyacetic acid (2,4-D). *Jurnal Sains dan Seni Pomits*. 2 (1)
- Inthongkaew P, Chatsumpun N, Supasuteekul C, Kitisripanya T, Putalun W, Likhitwitayawuid K, Sritularak B. 2017. α -Glucosidase and pancreatic lipase inhibitory activities and glucose uptake stimulatory effect of phenolic compounds from *Dendrobium formosum*. *Revista Brasileira de Farmacognosia*.

- 27(4):480-7.
- Islam, M.O., Ichihashi, S., and Matsui, S. 1998. Control of growth and development of protokorm like body derived from callus by carbon sources in *Phalaenopsis*. *Plant Biotechnol.* 15: 183–187.
- Jafari, N., R.Y. Othman, and N. Khalid. 2011. Effect of benzylaminopurine (BAP) pulsing on *in vitro* shoot multiplication of *Musa acuminata* (banaan) cv Berangan. *African Journal of Biotechnology*. 10(13): 2446-2450
- Kudo, Y., Tanaka, A., Yamada, K. 1983. Dendrobine, an antagonist of beta-alanine, taurine and presynaptic inhibition in the frog spinal cord. *British Journal of Pharmacology*. 78: 709-715.
- Lappano, R., A. Sebastiani., F. Cirillo., D. C. Rigracciolo., G.F. Galli., R. Curcio., R. Malaguarnera. 2017. The Lauric Acid-activated Signaling Prompts Apoptosis in Cancer Cells. *Cell Death Discovery*. 3: 17063-17069
- Li, M.F., Hirata, Y., Xu, G.J., Niwa, M., Wu, H.M. 1991. Studies on the chemical constituents of *Dendrobium loddigesii* rolfe. *Yao Xue Xue Bao*. 26: 307-310.
- Lin, T.H., Chang, S.J., Chen, C.C., Wang, J.P., Tsao, L.T. 2001. Two phenanthraquinones from *Dendrobium moniliforme*. *Journal of Natural Products*. 64: 1084-1086.
- Liu, W.J.H. 2011. *Traditional Herbal Medicine Research Methods: Identification, Analysis, Bioassay and Pharmaceutical and Clinical Studies*. United Kingdom: John Wiley & Sons
- Lo, S.F., Mulabagal, V., Chen, C.L., Kuo, C.L., Tsay, H.S. 2004. Bioguided fractionation and isolation of free radical scavenging components from *in vitro* propagated chinese medicinal plants *Dendrobium tosaense* Makino and *Dendrobium moniliforme* SW. *Journal of Agricultural and Food Chemistry*. 52: 6916-6919.
- Luo, A., He, X., Zhou, S., Fan, Y., Luo, A., & Chun, Z. 2010. Purification, composition analysis and antioxidant activity of the polysaccharides from *Dendrobium nobile* Lindl. *Carbohydrate Polymers*, 79(4), 1014-1019.
- McKinley, M. 2005. *Complete Guide To Orchid*. Des Moines: Meredith Books.
- Merikli, F., E. Becer., H. Kabadayi., A. Hanoqlu., D.Y. Hanoqlu., D.O. Yavuz., T. Ozek., S. Vatansever. 2017. Fatty Acid Composition and Anticancer Activity in Colon Carcinoma Cell Lines of *Prunus dulcis* Seed Oil. *Pharmaceutical Biology*. 55(1): 1239–1248.
- Miyazawa, M., Shimamura, H., Nakamura, S., Sugiura, W., Kosaka, H., Kameoka, H. 1999. Moscatilin from *Dendrobium nobile*, a naturally occurring bibenzyl compound with potential antimutagenic activity. *Journal of Agricultural and Food Chemistry*. 47: 2163-2167

- Moudi, M., R. Go, C. Y. S. Yien, and M. N. Saleh. 2013. A Review on Molecular Systematic of the Genus *Dendrobium* Sw. *Acta Biologica Malaysiana* 2(2): 71-78
- Nartop P. 2018. *Engineering of Biomass Accumulation and Secondary Metabolite Production in Plant Cell and Tissue Cultures*. In: *Plant Metabolites and Regulation under Environmental Stress*. Elsevier Inc. p. 169-94.
- Oregon State University. 2012. GC-MS: How does it Work? Environmental Health Sciences Center Corvallis OR 97331. http://www.unsolvedmysteries.oregonstate.edu/MS_05. Diakses 29 Maret 2022. 09.40
- Perilli, S., J.M. Perez-Perez, R. Di Mambro, C.L. Peris, S. DíazTriviño, M. Del Bianco, E. Pierdonati, L. Moubayidin, A. CruzRamírez, P. Costantino, B. Scheres, and S. Sabatini. 2013. *RETINOBLASTOMA-RELATED* Protein Stimulates Cell Differentiation in the *Arabidopsis* Root Meristem by Interacting with Cytokinin Signaling. *Plant Cell*, 25(11): 4469–4478
- Purnamaningsiha, R. and M. Ashrina. 2011. The Effect of BAP and NAA on Callus Induction and Artemisinin Content of *Artemisia annua* L.. *Berita Biologi* 10(4).
- Rajesh, K.D., V. Subramanian, A. Panneerselvam, N. V. Rajesh, and N. Jeyathilakan. 2016. GC-MS Analysis of Secondary Metabolites from The Whole Plant Methanolic Extract of *Drynaria quercifolia* (L) J. Smith. *Journal of Advanced Applied Scientific Research*. 84-89.
- Rhesto. T, R. R. Shubharani, S.S. Roppa, V. Sivaram. 2020. Chemical Constituents, Antioxidant, and Antimicrobial Activity of *Allium chinense* G. Don. *Future Journal Pharmaceutical Sciences*. 6:102-11
- Saad, A. I. M., and A. M. Elshahed. 2012. *Plant Tissue Culture Media*. InTech. p. 37- 38.
- Saifudin A. 2014. *Senyawa Alam Metabolit Sekunder Teori, Konsep, dan Teknik Pemurnian*. Deepublish. Yogyakarta.
- Santoso, U. & Nursandi, F., 2003, *Kultur Jaringan Tanaman*, UMM Press, Malang.
- Sarker, S.D., Nahar, L. 2012. *An introduction to natural products isolation*, In *Natura*, NY. p: 7.
- Selvan, P.S., and S. Velavan. 2015. Analysis of Bioactive Compounds in Methanol Extract of *Cissus vitiginea* Leaf Using GC-MS Technique. *RAYASAN J. Chem*. 8:443-447
- Semiarti, E., A. Indrianto, A. Purwantoro, I. N. A. Martiwi, Y. M. L. Feroniasanti, F. Nadifah, I. S. Mercuriana, R. Dwiyan, H. Iwakawa, Y. Yoshioka, Y. Machida, and C. Machida. 2010. High-Frequency Genetic Transformation of *Phalaenopsis amabilis* Orchid Using Tomato Extract-Enriched Medium for The Pre-Culture of Protocorms. *Journal of Horticultural*

- Science & Biotechnology* 85(3): 205.
- Semiarti, E., Purwantoro, A., Sari, I.P. 2020. Biotechnology approaches on characterization, mass propagation, and breeding of Indonesian orchids *Dendrobium lineale* (Rolfe.) and *Vanda tricolor* (Lindl.) with its phytochemistry, In *Orchids Phytochemistry, Biology and Horticulture* (Merillon, J.M., Kodja, H. Eds.). Springer. Cham. p: 8.
- Setiari, N., Purwantoro, A., Moeljopawiro, S., & Semiarti, E. 2016. Peptone and tomato extract induced early stage of embryo development of *Dendrobium phalaenopsis* Orchid. *Journal of Tropical Biodiversity and Biotechnology*, 1(2), 77-84.
- Setriana, S., H.B. Jumin, dan Mardaleni. 2014. Interaksi NAA dan BAP terhadap Pertumbuhan Eksplan Anggrek *Vanda* secara *In-vitro*. *Jurnal Dinamika Pertanian*, 29:1-8
- Singh, D.K and S. Luqman. 2014. Lawsonia inermis (L.): A Perspective on Anticancer potential of Mehndi/Henna. *Biomedical Research and Therapy*. 1(04): 112–120.
- Skoog, D. A., F. J. Holler, and S. R. Crouch. 2007. *Principles of Instrumental Analysis. 6th Edition*. Brooks/Cole Learning. Cengage. p 11, 20, 26, 27.
- Song, Y.W. and S.K. Cho. 2015. Phytol Induces Apoptosis and ROS–Mediated Protective Autophagy in Human Gastric Adenocarcinoma AGS Cells. *Biochemistry & Analytical Biochemistry*. 4: 211
- Sparkman O.D., Penton Z, Fulton G. 2011. *Gas Chromatography and Mass Spectrometry: a practical guide*. Elsevier. Antioch.
- Syahid, S.F., N.N. Kristina, D. Seswita. 2010. Pengaruh Komposisi Media Terhadap Pertumbuhan Kalus dan Kadar Tannin dari Daun Jati Belanda (*Guazuma ulmifolia* Lamk) Secara *In Vitro*. *Jurnal Littri*. 16(1):1-5
- Ueda, K. 2021. iNaturalist Research-grade Observations. iNaturalist.org. Occurrence dataset www.gbif.org/occurrence/1990504618. Accessed on 2 April 2022
- Widiyastoety, D. 2014. Pengaruh Auksin dan Sitokinin Terhadap Pertumbuhan Plantlet Anggrek Mokara. *Jurnal Hortikultura*. 24(3):230-238
- Yang, L., Han, H., Nakamura, N., Hattori, M., Wang, Z., Xu, L. 2007. Bioguided isolation of antioxidants from the stems of *Dendrobium aurantiacum* var. *denneanum*. *Phytotherapy Research*. 21: 696-698.
- Ye, Q., Qin, G., Zhao, W. 2002. Immunomodulatory sesquiterpene glycosides from *Dendrobium nobile*. *Phytochemistry*. 61: 885-890.
- You, H.L., Park, J.D., Baek, N.I., Kim, S., Ahn, B.Z. 1995. *In vitro* and *in vivo* antimutagenic phenanthrenes from the aerial parts of *Dendrobium nobile*. *Planta Medica*. 61: 178-180.



- Zhang, X., Xu, J.K., Wang, J., Wang, N.L., Kurihara, H., Kitanaka, S., Yao, X.S. 2007. Bioactive bibenzyl derivatives and fluorenones from *Dendrobium nobile*. *Journal of Natural Products*. 70: 24-28.
- Zhao, W., Ye, Q., Tan, X., Jiang, H., Li, X., Chen, K., Kinghorn, A.D. 2001. Three new sesquiterpene glycosides from *Dendrobium nobile* with immunomodulatory activity. *Journal of Natural Products*. 64: 1196-2000.
- Zhao, C., Liu, Q., Halaweish, F., Shao, B., Ye, Y., Zhao, W. 2003. Copachampane, picrotoxane, and alloaromadendrane sesquiterpene glycosides and phenolic glycosides from *Dendrobium moniliforme*. *Journal of Natural Products*. 66: 1140-1143.