

Daftar Pustaka

- Aoyama, T., & Chua, N. H. 1997. A glucocorticoid-mediated transcriptional induction system in transgenic plants. *Plant Journal*. 11 (3): 605–612.
- Arnold, S.V., Sabala, I., Bozhlov, P., Dyachok, J., and Filonova, L. 2018. Developmental pathway of somatic embryogenesis. *Plant Cell Tissue and Organ Culture* 69:233-249
- Ashraf M, Ahmad MSA, Öztürk M, Aksoy A. 2012. Crop production for agricultural improvement.
- Banks, D.P. 2019. Tropical Orchids of Indonesia. *Periplus Edition* (HK) Ltd., Singapore. 64p
- Bunnag, S. & Pilahome, W., 2012, Agrobacterium-mediated transformation of *Dendrobium chrysotoxum* Lindl., *African Journal of Biotechnology*, 11(10) : 2472-2476.
- Chardin, C., Girin, T., Roudier, F., Meyer, C., & Krapp, A. 2014. The plant RWP-RK transcription factors: Key regulators of nitrogen responses and of gametophyte development. *Journal of Experimental Botany*. 65 (19): 5577–5587.
- Chugh, S., Guha, S., Rao, I.U., 2009, Micropropagation of orchids: A review on the potential of different explants, *Scientia Horticulturae*, 122: 507–520.
- De, L.C. 2020. Morphological diversity in orchids. *International Journal of Botany Studies*. 5:229-238.
- Dressler, R. L. 1993. Phylogeny and Classification of the Orchid Family. *In The Quarterly Review of Biology*.
- Dwiyani, R.,¹ Purwantoro, A.,² Indrianto, A.,³ dan Semiarti, E. Peranan Vitamin C dan Acetosyringone pada Transformasi genetik anggrek *Vanda tricolor* Lindl. var. *suavis* melalui *Agrobacterium tumefaciens*. 2012. *Bionatura-Jurnal Ilmu-ilmu Hayati dan Fisik*. 1411 – 0903

- Elhiti, M., Stasolla, C., Wang, Aiming. 2013. Molecular regulation of plant somatic embryogenesis. *In Vitro Cell Dev Biol-Plant*. 49: 631-642.
- Gahan, P.B. dan George, E.F. 2018. Adventitious regeneration pp. 355-401. In George, E.F., hall., M.A. dan de Klerk, G-J (eds). *Plant propagation by tissue culture*. Vol 1. Netherlands: Springer.
- Gautier, F., Eliášová, K., Leplé, J. C., Vondráková, Z., Lomenech, A. M., Le Metté, C., Lelu-Walter, M. A. 2018. Repetitive somatic embryogenesis induced cytological and proteomic changes in embryogenic lines of *Pseudotsuga menziesii* [Mirb.]. *BMC Plant Biology*. 18 (1): 1–24.
- Gelvin, S. B. 2003. Agrobacterium-Mediated Plant Transformation: the Biology behind the "Gene-Jockeying" Tool. *ASM Journals Microbiology and Molecular Biology Reviews* Vol. 67, No. 1
- Goldberg, R. B., Paiva, G. De, & Yadegari, R. 1994. Plant Embryogenesis: Zygote to Seed. *Science*. 266: 605–614.
- Hossain, M.M., Sharma, M., da Silva, J.A.T., Pathak, P., 2013, Seed germination and tissue culture of *Cymbidium giganteum* Wall. ex Lindl., *Scientia Horticulturae*. 123:479–487.
- Hwang H-H, Yu M, Lai E-M. 2017. Agrobacterium -Mediated Plant Transformation: *Biology and Applications* . Arab B. 15(15):e0186. doi:10.1199/tab.0186.
- Jeong, S., T. M. Palmer, and W. Lukowitz. 2011. The RWP-RK factor GROUNDED promotes embryonic polarity by facilitating YODA MAP kinase signaling. *Current Biology*. 21: 1268–1276.
- Johansen, D. A. 1950. Plant Embryology. Waltham: *Chronica Botanica*.

- Kamens, J. (2015). The Addgene repository: An international nonprofit plasmid and data resource. *Nucleic Acids Research*, 43(D1), D1152–D1157. <https://doi.org/10.1093/nar/gku893>
- Kang, H., Fang, Y. and Singh, K.B. 1999. A glucocorticoid-inducible transcription system causes severe growth defects in Arabidopsis and induces defense related genes. *The Plant Journal* 20(1) : 127-133
- Koszegi, D., A.J. Johnston, T. Rutten, A. Czihal, L. Altschmied, J. Kumlehn, S.E.J. Wüst, O. Kirioukhova, J. Gheyselinck, U. Grossniklaus, and H. Bäumllein. 2011. Members of the RKD transcription factor family induce an egg cell-like gene expression program. *Plant Journal*. 67 (2): 280–291.
- Lawrie, M. D., Indrianto, A., Mada, U. G., Purwantoro, A., Mada, U. G., Semiarti, E., & Mada, U. G. (2019). *Isolation and characterization of LEAFY homologous gene partial sequences from Dendrobium capra J.J. Smith Endemic Orchid of Java Island. (June)*. <https://doi.org/10.23869/bphjbr.23.2.20181>
- Mose, W. 2019. Induksi Embriosomatik Tanaman Anggrek *Phalaenopsis amabilis* (L) Blume dengan Zat Pengatur Tumbuh dan Transformasi Genetik. Disertasi. Universitas Gadjah Mada.
- Mursyanti, E., Aziz-Purwantoro, A., Moeljopawiro, S., and Semiarti, E., 2016, Micropropagation of mini orchid 'Adinda x Mount Hood' *Phalaenopsis* 'Sogo Vivien', *Journal of Tropical Biodiversity and Biotechnology*, 1: 45-53.
- Ouwerkerk, P.B.F., de Kam, R.J., Hoge, J.H.C. and Meijer, A.H. 2001. Glucocorticoid-inducible gene expression in rice. *Planta* 213: 370-378
- Pant, M., Negi, A., Singh, A., Gautam, A. and Rawat, M. 2020. *Rhyncholaeliocattleya* Orchids: A Mini Review. *Journal of Critical Reviews*. 7(12):2394- 5125.

- Phlaetita, W., Chin, D. P., Tokuhara, K., Nakamura, I., and Mii, M. 2015. *Agrobacterium*-mediated transformation of protocorm-like bodies in *Dendrobium Formidible* 'Ugusu'. *Plant Biotechnology* 32: 225–231
- Picard, D. 1993. Steroid-binding domains for regulating the functions of heterologous proteins in cis. *Trends in Cell Biology*. 3 (8): 278–280.
- Pimda W., and Bunnag S., 2010. Genetic transformation of *Vanda lilacina* Teijsm. & Binnend. with a chitinase gene. *AAB Bioflux* 2(1):71-78.
- Piria, R.S., Rajmohan, K., and Suresh, S., 2018. In vitro production of protocorms and protocorm like bodies in orchids- a review. *Agric.Rev.* 29(1):40-47
- Purba, B.R.M. dan Saptadi, D. 2019. Karakteristik berbagai jenis anggrek berdasarkan karakter morfologi. *Jurnal Produksi Tanaman*. 7(7):12580-1263.
- Radoeva, T and Weijers, D. 2014. A roadmap to embryo identity in plants. *Trends in Plant Science* 19 (11): 709-716.
- Raffener, B., Serek, M. and Winkelmann, T. 2019. *Agrobacterium tumefaciens* mediated transformation of *Oncidium* and *Odontoglossum* orchid species with the ethylene receptor mutant gene *etr1-1*. *Plant Cell Tissue Organ Cult.* 98:25– 134.
- Rocha, D.I., Kurczynska, E., Potocka, I., Steinmacher, D.A., Otoni, W.C. 2016. Histology and histochemistry of somatic embryogenesis. pp. 471-494. In V.M. Loyola-Vargas dan Ochoa-Alejo (eds). *Somatic Embryogenesis: Fundamental Aspects and Applications*. Vol. 1. *Springer International Publishing*. Switzerland.
- Schauser, L., Wieloch, W., Stougaard, J. 2005. Evolution of NIN-like proteins in *Arabidopsis*, rice, and *Lotus japonicus*. *J Mol Evol.* 60: 229-237.

- Semiarti E., Indrianto A., Purwantoro A., Isminingsih S., Suseno, N., Ishikawa T., Yoshioka Y., Machida Y., and Machida C., 2007. *Agrobacterium*-mediated transformation of the wild orchid species *Phlaenopsis amabilis*. *Plant Biotechnol*, 24: 265-272
- Semiarti, E., Indrianto, A., Suyono, E.A., Nurwulan, R. L., Restiani, R., 2010, Mikropropagasi tanaman anggrek hitam *Coelogyne pandurata* Lindl. dengan penyisipan gen penumbuh tunas melalui *Agrobacterium*, Seminar Nasional Biologi, 592-599.
- Semiarti, E., Indrianto, A., Purwantoro, A., Machida, Y., Machida, C., 2011, *Agrobacterium*-Mediated Transformation of Indonesian Orchid for Micropropagation.
http://cdn.intechopen.com/pdfs/18821/InTechAgrobacterium_mediated_transformation_of_indonesian_orchids_for_micropropagation.pdf
- Sreeramanan S., and Zuraida A.R., 2010. Early GFP gene assessments influencing *Agrobacterium tumefaciens* transformation system in *Phalaenopsis violacea* orchid. *Emir.J.Food Agric*. 22(2): 103-116
- Suryowinoto, M. 1988. Mengenal Anggrek Alam Indonesia. *Penebar Swadaya*. Yogyakarta
- Utami, E. S. W., Soemardi, I., Taryono, T., & Semiarti, E. 2007. Embriogenesis somatik anggrek bulan *Phalaenopsis amabilis* (L.) Bl: struktur dan pola perkembangan. *Journal of Biological Researches*. 13 (1): 33–38.
- Waki, T. Hiki, T., Watanabe, R., Hashimoto, T. and Nakajima, K. 2011. The Arabidopsis RWP-RK protein *RKD4* triggers gene expression and pattern formation in early embryogenesis. *Current Biology* 21: 1277-1281.
- Wendrich, J.R. and Weijers, D., 2013, The Arabidopsis embryo as a miniature morphogenesis model, *New Phytologist*, 199: 14–25.

- Widiastoety, D., Solvia, N. dan Soedarjo, M. 2010. Potensi anggrek *Dendrobium* dalam meningkatkan variasi dan kualitas anggrek bunga potong. *Jurnal Litbang Pertanian*. 29(3):101-106
- Yelnititis K., Komar T. (2013): Micropropagation of Ramin (*Gonystylus bancanus* (Miq.) Kurz). *Jurnal Pemuliaan Tanaman Hutan*, 5: 149–157. (in Indonesian)
- Yeung, E.C., 2017, A perspective on orchid seed and protocorm development. *Botani Study*. 58(1): 33.
- Zhang, L., Chin, DP., Mii, M. 2010. Agrobacterium-mediated transformation of protocorm-like bodies in *Rhyncholaeliocattleya*. *Plant Cell Tiss Organ Cult*.103:41–47