

## DAFTAR PUSTAKA

- Acquaah, G. 2012. Principles of Plant Genetics and Breeding 2<sup>nd</sup> edition. John Wiley and Sons Ltd., UK.
- Ashikari, M., Matsuoka, M., Datta, S.K. 2004. Transgenic rice plants. Transgenic crops of the world: essential protocols. Kluwer Academic Publishing.
- Babaoglu, M., Davey, R., Power, J.B. 2000. Genetic engineering of grain legumes: key transformation events. Agri. Biotech. Net. 2: 1-12.
- Bhojwani, S.S. and Dantu, P.K. 2013. Plant Tissue Culture: An Introductory Text. Genetic Engineering. 199–226.
- Birch, R.G. 1997. Plant transformation: problems and strategies for practical application. Annu. Rev. Plant Physiol. Plant Mol. Biol. 48: 297-326.
- Cardon, D. 2005. Dyes and Tannins. Plant Resources of Tropical Africa Foundation. 1:61-62.
- Corduk, N., and Aki, C. 2011. Inhibition of browning problem during micropropagation of *Sideritis trojana* Bornm. An endemic medicinal herb of Turkey. Romanian Biotechnological Letters. 16(6): 6760-6765.
- Curtis, M.D. and Grossniklaus, U. 2003. A gateway cloning vector set for high-throughput functional analysis of genes in plants. Plant Physiol. 133: 462–469.
- Dewi, K., Masrizal, dan Mugiono. 1998. Regenerasi tanaman dari beberapa sumber eksplan pada mutan kacang tanah. Penelitian dan Pengembangan Aplikasi Isotop dan Radiasi. BATAN. 171-174.
- Dewi, I., Nindita, A., Purwoko, B., dan Efendi, D. 2012. Induksi tunas pada kotiledon dan hipokotil tanaman jarak pagar (*Jatropha curcas* L.) melalui organogenesis tak langsung. Jurnal Agro Biogen. 8(3): 89-96.
- Dole, J.M. and Wilkins, H.F. 1999. Floriculture: Principles and Species. Prentice Hall. 272-273.
- Dwiyani, R., Yuswanti, H., Darmawati. I., Mayadewi, N. 2016. Transformasi Genetik

pada Tanaman: melalui *Agrobacterium tumefaciens*. Swasta Nulus. 1: 5-7.

- Esmail, A.L.G., Haggag, L.F., Barakat, M.N., Farag, K.M., Zayed, N.S., and Fouad, A.A. 2014. Direct effect of medium types, explant type and antioxidant treatments on micropropagation of *Pyrus "Lecont"*. Middle East Journal of Agriculture Research. 3(3): 618-622.
- Gallois, P. and Marinho, P. 1995. Methods in Molecular Biology: Plant Gene Transfer and Expression Protocols. Humana Press Inc. New Jersey. 49: 39-46.
- George, E.F., and Sherrington, P.D. 1984. Plant propagation by tissue culture. Hand book and Directory of Comercial Laboratories. Eastern Press, Reading, Berks. England. P. 9-449.
- Gunawan, L.V. 1987. Teknik kultur jaringan tumbuhan. Laboratorium Kultur Jaringan Institut Pertanian Bogor. 167-179.
- Habibah, N., Sumadi, dan Ambar, S. 2013. Optimasi sterilisasi permukaan daun dan eliminasi endofit pada burahol. Journal of Biology & Biology Education. 5(2): 94-99.
- Hansen, G. and Chilton, M.D. 1996. Agrolistic transformation of plant cells : Integrated of T-strands generated in planta. *Proc. Natl. Acad. Sci. USA*. 93: 14978-14983.
- Herrera-Estrella, L. and Simpson, J. 1988. Foreign gene expression in plants. Plant Molecular Biology, a practical approach. 131-158.
- Horsch, R.B. 1985. A simpe and general method for transferring genes into plants. *Science*. 227: 1229-1231.
- Jaberi, M., and Azadi, P. 2017. Regenertion and transformation of *Cosmos bipinnatus* planlets. United States Patent Application Publication. 1-14
- Jauhar, P.P. 2006. Modern biotechnology as an integral supplement to conventional plant breeding: the prospect and challenges. *Crop Science*. 46(5): 1841-1859.
- Kalawong, S., Srichuay, W., and Te-chato, S. 2014. The effect of *Agrobacterium* densities and inoculation times on gene transformation efficiency in rubber tree. *Afrocan Journal of Biotechnology*. 13(23): 2321-2329.

- Karyati dan Adhi, M.A. 2018. Jenis-jenis Tumbuhan Bawah di Hutan Pendidikan Fakultas Kehutanan Universitas Mulawarman. Mulawarman University Press. Samarinda. 3: 31-32.
- Kazeroonian, R., Mousavi, A., Jari, S., and Tohidfar, M. 2018. Factors influencing in vitro organogenesis of *Chrysanthemum morifolium* Cv. 'Resomee splendid'. Iranian J. Biotech. 16(2): 132-139.
- Krenek, P., Samajova, O., Luptovciak, I., Daskocilova, A., Komis, G., Samaj, J. 2015. Transient plant transformation mediated by *Agrobacterium tumefaciens*: Principles, methods and applications. Biotechnology Advances. 33(6): 1024-1042.
- Klee, H. 2000. A guide to *Agrobacterium* binary Ti vectors. Trends in Plant Science. 5: 446-451.
- Laukkanen, H., Rautianinen, L., Taulavouri, E., and Hohtola, A. 2000. Changes in cellular structures and enzymatic activities during browning of Scots pine callus derived from mature buds. Tree Physiology. 20: 467-475.
- Ledger, S.E., Deroles, S.C., and Given, N.K. 1991. Regeneration and *Agrobacterium*-mediated transformation of chrysanthemum. Plant Cell Rep. 10: 195-199.
- Lim, T. 2014. Edible Medicinal And Non-Medicinal Plants: Flowers. Springer Science. 7: 287-288.
- Lin, Y.J. and Zhang, Q. 2005. Optimising the tissue culture conditions for high efficiency transformation of indica rice. Plant Cell Rep. 23: 540-547.
- Ling, H.Q., Kriseleit, D., and Ganai, M.W. 1998. Effect of ticarcilin/potassium clavulanate on callus growth and shoot regeneration in *Agrobacterium*-mediated transformation of tomato (*Lycopersicon esculentum* Mill.). Plant Cell Rep. 17: 843-847.
- Maghfoer, M.D., Yurlisa, K., Aini, N., Yamika, W. 2019. Sayuran Lokal Indonesia. Universitas Brawijaya Press. Malang.
- Malinovsky, F.G., Fangel, J.U., and Willats, W.G.T. 2014. The role of the cell wall in plant immunity. Frontiers in Plant Science. 5(178): 1-12.

- McCullen, C.A., and Binns, A.N. 2006. *Agrobacterium tumefaciens* and plant cell interactions and activities required for interkingdom macromolecular transfer. *Annu. Rev. Cell. Dev. Biol.* 22: 101-127.
- Mulyaningsih, E.S., Aswidinnoor, H., Soepandie, D., Ouwerkerk, P.B.F., Nugroho, S. dan Loedin, I.H.S. 2010. Perbandingan tiga metode transformasi *Agrobacterium* untuk pencarian gen-gen terkait toleransi kekeringan menggunakan transposon Ac/Ds pada Padi cv. Batutegi. *Jurnal Biologi Indonesia.* 6(3): 367-381.
- Nasir, M. 2001. Pengantar Pemuliaan Tanaman. Departemen Pendidikan Nasional. Jakarta.
- Nishimura, A., Aichi, I., and Matsuoka, M. 2007. A protocol for *Agrobacterium*-mediated transformation in rice. *Nature Protocols.* 1(6): 2796-2802.
- Opabode, J.T. 2002. Factors influencing transformation of crops by *Agrobacterium tumefaciens*. A seminar presented at Department of Plant Science. Obafemi Awolowo University. Nigeria.
- Orlikowska, T.K., Cranston, H.J., and Dyer, W.E. 1995. Factor influencing *Agrobacterium tumefaciens* – mediated transformation and regeneration of the sunflower cultivar centennial. *Plant Cell. Tiss. & Org. Cult.* 40: 85-91.
- Pharmawati, M. 2009. Optimalisasi ekstraksi DNA dan PCR-RAPD pada *grevillea* spp. *Jurnal Biologi.* 8(1): 12-16.
- Potrykus, I. 1991. Gene transfer to plants: assessment of published approaches and result. *Annu. Rev. Plant Physiol. Plant Mol. Biol.* 42: 205-225.
- Purnamaningsih, R., dan Sukmadjaja, D. 2012. Transformasi genetik pisang ambon dengan gen kitinase dari padi. *Jurnal Agro Biogen.* 8(3): 97-104.
- Puttock, C.F. 2017. *Cosmos Sulphureus* (Sulphur Cosmos). *Invasive Species Compendium.* Wallingford. UK.
- Qianru, L.V., Chen, C., Xu, Y., Hu, S., Wang, L., Sun, K., Chen, X., dan Li, X. 2017. Optimization of *Agrobacterium tumefaciens*-mediated transformation systems in tea plant (*Camellia sinensis*). *Horticultural Plant Journal.* 3(3): 105-109.

- Rahmawati, S. 2006. Status perkembangan perbaikan sifat genetik padi menggunakan transformasi *Agrobacterium*. Jurnal Agrobiogen. 2(1): 36-44.
- Rusdianto, dan Indrianto, A. 2012. Induksi kalus embriogenik pada wortel (*Daucus carota* L.) menggunakan 2,4-D. Jurnal Bionature. 13(2): 136-140.
- Sha-Valli-Khan, P.S., Prakash, E., and Rao, K.R. 2002. Callus induction and planlet regeneration in *Bixa arellana*, an annatto-yielding tree. In Vitro Cell. Dev. Biol. 38: 186-290.
- Sharma, K.K., Bhatnagar-Mathur, P., Thorpe, T.A. 2005. Genetic transformation technology: Status and problems. *In vitro* Cellular & Developmental Biology-Plant. 41(2):102-112.
- Shinoyama, H., Aida, R., Ichikawa, A., Nomura, Y., Mochizuki, A. 2012. Genetic engineering of chrysanthemum: current progress and perspectives. Plant Biotechnology. 29: 323-337.
- Sisharmini, A., Purwoko, B., Khumaida, N., dan Trijatmiko, K. 2018. Optimasi konsentrasi asetosiringon dan higromisin dalam transformasi genetik padi fatmawati dengan perantara *Agrobacterium tumefaciens*. J. Agron Indonesia. 46(3): 223-230.
- Siswanto, Budiani, A., Chaidamsari, T., dan Darussamin, A. 1997. Ekspresi transien GUS pada tahap awal transformasi genetik tanaman kopi melalui *Agrobacterium tumefaciens*. Prosiding Seminar Perhimpunan Bioteknologi Pertanian Indonesia. 149-157.
- Siwach, P., Grover, K., and Gill, A.R. 2011. The influence of plant growth regulators, explant nature, and sucrose concentration on in vitro callus growth of *Thevetia peruviana* Schum. Asian Journal Biotech. 3: 280-292.
- Smith, E.F., Townsend, C.O. 1907. A plant tumour of bacterial origin. Science. 25: 671-673.
- Sukamto, Santoso, T.J., Siharmini, A., Apriana, A., Amalia, dan Sirait, N. 2017. Transformasi gen pada nilam untuk ketahanan terhadap penyakit utama menggunakan *Agrobacterium tumefaciens*. Balai Penelitian Tanaman Rempah dan Obat. 28(1): 37-46.

- Tourae, A., Citovsky, V., Tzfira, T. 2011. Plant Transformation Technologies. John Wiley and Sons Ltd., UK.
- Wang, H.M. and To, K.Y. 2004. *Agrobacterium*-mediated transformation in the high-value medicinal plant *Echinacea purpurea*. Plant Science. 166: 1087-1096.
- Webb, K.J. and Morris, P. 1992. Methodologies of Plant Transformation: Plant Genetic Manipulation for Crop Protection. CAB International. Wallingford. UK.
- Zeng, X. and Zhao, D. 2015. *In vitro* regeneration and *Agrobacterium tumefaciens*-mediated genetic transformation in asakura-sanshoo (*Zanthoxylum piperitum* (L.) DC. F. Inerme Makino) an important medicinal plant. Pharmacognosy Mag. 11(42): 374-380.
- Zulkarnain, dan Lizawati. 2011. Proliferasi kalus dari eksplan hipokotil dan kotiledon tanaman jarak pagar (*Jatropha curcas* L.) pada pemberian 2,4-D. Jurnal Natur Indonesia. 14(1): 19-25.
- Zupan, J.R., and Zambrysky, P.C. 1995. Transfer of T-DNA from *agrobacterium* to the plant cell. Plant Physiology. 107: 1041-1047.