



## DAFTAR PUSTAKA

- Amal, T. C., P. Karthika, G. Dhandapani, S. Sevakumar, K. Vasanth. 2020. A simple and efficient *Agrobacterium*-mediated in planta transformation protocol for horse gram (*Macrotyloma uniflorum* Lam. Verdc.). Journal of Genetic Engineering and Biotechnology 18(9): 1-9.
- Babaoglu, M., M. R. Davey dan J. B. Power. 2000. Genetic engineering of grain legumes: key transformation events. Agri. Biotech. Net. 2: 1-12.
- Barampuram, S. and Z. J. Zhang. 2011. Plant chromosome engineering: Methods and protocols. Methods in Molecular Biotechnology 701: 1-15.
- Bastaki, N. K., C. A. Cullis. 2014. Floral-dip transformation of Flax (*Linum usitatissimum*) to generate transgenic progenies with a high transformation rate. J. Vis. Exp. (94): 1-10.
- Bechtold, N., J. Ellis, and G. Pelletier. 1993. In planta *Agrobacterium*-mediated gene transfer by infiltration of adult *Arabidopsis thaliana* plants. Comp. Rend. L'Acad. des Sci. Serie III 316: 1194-1199.
- Cavaiuolo, M., G. Cocetta, and A. Ferrante. 2013. The antioxidants changes in ornamental flowers during development and senescence. Antioxidants 2: 132-155.
- Clough, S. J. and A. F. Bent. 1998. Floral dip: a simplified method for *Agrobacterium* mediated transformation of *Arabidopsis thaliana*. Plant J. 16(6): 735-743.
- Cooper, S. 1991. Bacterial growth and division. Academic Press, Inc. California. Hal. 7-17.
- Feldmann, K. A. And M. D. Marks. 1987. *Agrobacterium* mediated transformation of germinating seeds of *Arabidopsis thaliana*: A non tissue culture approach. Mol. Gen. Genet. 208: 1-9.
- Hassan, W. E. 2006. Healing Herbs of Malaysia Kuala Lumpur: Federal Land. Development Agency. Malaysia.
- Hwang, H. H., M. Yu, dan E. M. Lai. 2017. *Agrobacterium* mediated plant transformation: biology and applications. The Arabidopsis Book. American Society of Plant Biologists. Hal 1-31.
- Jaber, M., P. Azadi, B. Gharehyazi, M. Khosrowchahli, A. Sharafi, N. Aboofazeli , dan H. Bagheri. 2018. Silver nitrate and adenine sulphate induced high regeneration frequency in the recalcitrant plant *Cosmos bipinnatus* using



cotyledon explants. The Journal of Horticultural Science and Biotechnology 93(2): 204-208.

Jaganath, B., K. Subramanyam, S. Mayavan, S. Karthik, D. Elayaraja, R. Udayakumar, M. Manickavasagan, and A. Ganapathi. 2014. An efficient in planta transformation of *Jatropha curcas* (L.) and multiplication of transformed plants through in vivo grafting. *Protoplasma* 251: 591–601.

Jakhar, M. L., R. Verma, and D. Dixit. 2019. Effect of antioxidant on in vitro degree of browning and culture establishment of Guggul (*Commiphora wightii* (Arnott)): A valuable dessert medicinal plant. *Journal of Pharmacognosy and Phytochemistry* SP5: 250-254.

Jan, A. S., Z. K. Shinwari, S. H. Shah, A. Shahzad, M .A. Zia, and N. Ahmad. 2016. In planta transformation: Recent advances. *Romanian Biotechnology Center* 21(1): 11085-11091.

Kavipriya, C., A. Yuvaraja, dan C. Menaka. 2018. Genetic transformation methods for crop improvement: A brief review. *Agricultural Reviews* 40(4): 281-288.

Keshavareddy, G., A.R.V. Kumar, dan V. S. Ramu. 2018. Methods of plant transformation- A review. *International Journal of Current Microbiology and Applied Sciences* 7(7): 2656-2669.

Lee, J. H. dan P. M. Pijut. 2018. Optimization of Agrobacterium-mediated genetic transformation of *Fraxinus nigra* and development of black ash for possible emerald ash borer resistance. *Plant Cell, Tissue and Organ Culture* 134: 217-229.

Low, L. Y., S. K. Yang, D. X. Andrew, J. O. Abdullah, N. P. Tan, and K. S. Lai. 2018. Transgenic Plants: Gene constructs, vector and transformation method. *New Vision in Plant Science*. IntechOpen. London. Hal. 41-61.

Mayavan, S., K. Subramanyam, M. Arun, M. Rajesh, G. K. Dev, G. Sivanandhan, B. Jaganath, M. Manickavasagam, N. Selvaraj, and A. Ganapathi. 2013. *Agrobacterium tumefaciens*-mediated in planta seed transformation strategy in sugarcane. *Plant Cell Reports* 32: 1557–1574.

Ming, O. C., A. S. Wen, U. Sinniah, R. Xavier, dan S. Subramaniam. 2007. Cysteine and acetosyringone are the two important parameters in *Agrobacterium* mediated transformation of rose hybrid (*Rosa hybrida* L.) cv. Nikita. *Journal of Plant Sciences* 2(4): 387-397.

Mir, H. dan V. B. Patel. 2018. Genetic engineering of temperate fruit crops. Elsevier. Amsterdam. Hal. 89-119.



Movahedi, A., J. Zhang, R. Amirian, dan Q. Zhuge. 2014. An efficient *Agrobacterium* mediated transformation system for poplar. Int. J. Mol. Sci. 15: 10780-10793.

Mu, G., N. Chang, K. Xiang, Y. Sheng, Z. Zhang, dan G. Pan. 2012. Genetic transformation of maize female inflorescence following floral dip method mediated by *Agrobacterium*. Biotechnology 11(3): 178-183.

Niazian, M., S. A.D. Noori, P. Galuszka, and S. M. M. Mortazavian. 2017. Tissue culture-based *Agrobacterium*-mediated and in planta transformation methods. Czech J. Genet. Plant Breed. 53(4): 133-143.

Peraturan Pemerintah Republik Indonesia Nomor 21 Tahun 2005 tentang Keamanan Hayati Produk Rekayasa Genetik. 2005. Kementerian Sekretariat Negara Republik Indonesia. Jakarta.

Que, Q., M. M. Chilton, S. Elumalai, H. Zhong, S. Dong, dan L. Shi. 2019. Repurposing macromolecule delivery tools for plant genetic modification in the era of precision genome engineering. Methods Mol Biol 1864: 3-18.

Rahmawati, S. 2006. Status perkembangan perbaikan sifat genetik padi menggunakan transformasi *Agrobacterium*. Jurnal AgroBiogen 2(1): 36-44.

Rani, J. S. and R. Usha. 2013. Transgenic plants: Types, benefits, public concerns and future. Journal of Pharmacy Research 6: 879-883.

Respatie, D. W., P. Yudono, A. Purwantoro, dan Y. A. Trisyono. 2019. The potential of *Cosmos sulphureus* flower extract as a bioherbicide for *Cyperus rotundus*. Biodiversitas 20(12): 3568-3574.

Rivera, A. L., M. G. Lim, F. Fernandez, and A. M. Loske. 2012. Physical method for genetic plant transformation. Physical of Life Reviews (9): 308-345.

Rod-in, W., K. Sujipuli, and K. Ratanasut. 2014. The floral-dip method for rice (*Oryza sativa*) transformation. Journal of Agricultural Technology 10(2): 467-474.

Saha, P. dan E. Blumwald. 2016. Spike-dip transformation of *Setaria viridis*. The Plant Journal. John Wiley & Son Ltd. New Jersey. Hal. 1-14.

Sakuragui, C. M., E. M. Alves, E. R. Lorenzetti, A. M. Janunzzi, R. A. X. Borges, and V. A. De Toledo. 2011. Bee flora of an insular ecosystem in Southern Brazil. Journ. Bot. Res. Inst. Texas 5(1): 311-331.

Sheng, J., V. Citovsky. 1996. *Agrobacterium*-plant cell DNA transport: have virulence proteins, will travel. Plant Cell 8: 1699-1710.



- Smagur, A. W., K. H. Konka, dan A. K. Kononowicz. 2009. Flower bud dipping or vacuum infiltration- Two methods of *Arabidopsis thaliana* transformation. Russian Journal of Plant Physiology 56(4): 560-568.
- Steenis, C. G. G. J. Van. 1987. Flora. Pradnya Paramita. Jakarta.
- Supartana, P., T. Shimizu, H. Shioiri, M. Nogawa, M. Nozue, dan M. Kojima. 2005. Development of simple and efficient in planta transformation method for rice (*Oryza sativa* L.) using *Agrobacterium tumefaciens*. Journal of Bioscience and Bioengineering 100(4): 391-397.
- Suputri, N. P. A. E. O., R. Dwiyani, I. A. P. Damayanti, dan B. Sugiharto. 2019. *Agrobacterium tumefaciens* mediated in planta transformation method for the SoSPS1 gene in citrus plant (*Citrus nobilis* L.). International Journal of Biosciences and Biotechnology 7(1): 31-44.
- Suryowinoto, S.M. 1997. Flora Eksotika, Tanaman Hias Berbunga. Kanisius. Yogyakarta.
- Wahyuni, D.K., D. Praseto, dan S. Hariyanto. 2014. Perkembangan kultur daun *Aglaonema* sp. dengan perlakuan kombinasi zat pengatur tumbuh NAA dan 2,4-D dengan BAP. Jurnal Bioslogos 4(1): 9-16.
- Wang, K., S.E. Stachel, B. Timmerman, M. V. Montagu, P. C. Zambryski. 1987. Site-specific nick in the T-DNA border sequence as a result of *Agrobacterium vir* gene expression. Science 235: 587-590.
- Wright, G. H. A. M. S. 1999. Recent advances in the transformation of plants. Trends in Plant Science 4: 226-231.
- Yadav, S. K., S. Katikala, V. Yellisetty, A. Kannepalle, J.K. Narayana, V. Maddi, M. Mandapaka, A. K. Shanker, V. Bandi, K. P., Bharadwaja. 2012. Optimization of Agrobacterium mediated genetic transformation of cotyledonary node explants of *Vigna radiata*. SpringerPlus 1:59
- Yildiz, M., M. Aycan, dan S. Park. 2016. New approaches to *Agrobacterium tumefaciens* -mediated gene transfer to plants. InTech Open. London. Hal.23-45.
- Yong, W. T. L., J. O. Abdullah, M. Mahmood. 2006. Optimization of Agrobacterium-mediated transformation parameters for *Melastomataceae* spp. using green fluorescent protein (GFP) as a reporter. Sci Hort 109: 78-85.
- Zale, J. M., S. Agrawal, S. Loar, dan C. M. Steber. 2009. Evidence for stable transformation of wheat by floral dip in *Agrobacterium tumefaciens*. Plant Cell Rep 28: 903-913.



Zhang, X., R. Henriques, S. S. Lin, Q. W. Niu, and N. H. Chua. 2006. *Agrobacterium*-mediated transformation of *Arabidopsis thaliana* using the floral dip protocol. *Nature Protocols* 1(2): 1-6.

Zhang, Y. Y., D. M. Zhang, Y. Zhong, X. J. Chang, M. L. Hu, and C. Z. Cheng. 2017. A simple and efficient in planta transformation method for pommelo (*Citrus maxima*) using *Agrobacterium tumefaciens*. *Scientia Horticulturae* 214: 174-179.

Zhao, H., Z. Tan, X. Wen, Y. Wang. 2017. An improved syringe agroinfiltration protocol to enhance transformation efficiency by combinative use of 5-azacytidine, ascorbate acid and tween-20. *Plants* 6(9): 1-10.