DAFTAR PUSTAKA

Ambarwati, A.D., E. Listanto, Slamet, Umar, Sustiprijatno, dan Sutoro. 2015. Induksi dan regenerasi kalus jagung yang ditransformasi dengan gen *CsNirt1-L* melalui penembakan partikel. Jurnal Agrobiogen. 11 : 25-32.

Azizan, Muhammad N. A., dan RISDA. 2017. The effect of BAP and NAA treatment on micropropagation of *Cucumis sativus* L. International Journal of Science and Research. 170-176.

Badu-Apraku, B., and Fakorede, M. A. B. 2017. Morphology and Physiology of Maize. Advances in Genetic Enhancement of Early and Extra-Early Maize for Sub-Saharan Africa. 33–53.

C.C., Chu, Wang C.C., Sun C.S. 1975. Establishment of an efficient medium for anther culture of rice through comparative experiments on the nitrogen source. Sci Sin. 18:659–668.

Dare, A.P., Schaffer, R.J., Lin-Wang, K, Allan, A.C., Hellens R.P., 2008. Identification of a cis-regulatory element by transient analysis of co-ordinately regulated genes. Plant Methods 4, 17.

Das, R. dan P.J. Harikrishnan.2015. Improving nitrogen use efficiency in crops and its effect on crop productivity-a review. Journal of Global Bioscience 4(8):3074-3093.

de Carvalho, E.V., F. S. Afférri, J. M. Peluzio, M. A. Dotto and L.L. Cancellier. 2012. Nitrogen use efficiency in corn (*Zea mays* L) genotypes under different conditions of nitrogen and seeding date. Maydica 57. 43-48.

Du, Dengxiang, R. Jin, J. Guo and F. Zhang. 2019. Infection of embryonic callus with *Agrobacterium* enables high-speed transformation of maize. International Journal of Molecular Science. Khals20 : 1-15.

Edwards, K., C. Johnstone, and C. Thompson. 1991. A simple and rapid method for the preparation of plant genomic DNA for PCR analysis. Nucleic Acids Res. 19 : 1349.

Frame, B.R., H. Shou, R. K. Chikwamba, Z. Zhang, C. Xiang, T. M. Fonger, S. E. K. Pegg, B. Li, D. S. Nettleton, D. Pei, and K. Wang. 2002. *Agrobacterium tumefaciens*-mediated transformation of maize

embryos using a standard binary vector system. Plant Physiology. 129: 13-22.

Gui-rong, Y., L. Yan, D. Wen-ping, S. Jun, L. Min, X. Li-yuan, X. Fang-ming, L. Yong-sheng. 2013. Optimization of *Agrobacterium tumefaciens*-mediated immature embryo transformation system and transformation of *glyphosate-resistant gene 2mg2-EPSPS* in maize (*Zea mays* L.). Journal of Integrative Agriculture. 12 : 2134-2142.

Haryati, Y., B. Nurbaeti dan K. Permadi. 2015. Penerapan pengeololaan tanaman terpadu jagung pada beberapa varietas unggul jagung komposit di kabupaten majalengka. Agrin. 19 : 166-178.

Hiei,Y. dan T. Komari. 2006. Improved protocols for transformation of indica rice mediated by *Agrobacterium tumefaciens.*Plant Cell Tissue and Organ Culture. 85:271-283.

Hyeyoung, L. and J. Z. Zhanyuan. 2014. *Agrobacterium*-mediated transformation of maize (*Zea mays*) immature embryos. Cereal Genomics : Methods and Protocol. New York. Springer Science Business Media.

Ikeuchi, M., K. Sugimoto and A. Iwase. 2012. Plant caluus: mechanisms of induction and repression. The Plant Cell. 25: 3259-3173.

Ishida, Y., Y. Hiei and T. Komari. 2007. Agrobacterium-mediated transformation of maize. Nature Protocol. 2: 1614-1621.

Kahriman, F., C. O. Egesel and E. Zorlu. 2015. Effects of open- and self-pollination treatments on genetic estimations in maize diallel experiment. Spanish Journal of Agricultural Research. 13: 1-11.

Khaleda, L. and M. Al-Forkan. 2006. Stimulatory effects of casein hydrolysate and proline in *in vitro* callus induction and plant regeneration from five deepwater rice (*Oryza sativa* L.). Biotechnology. 5 : 379-384.

Kumar, V., G. Parvatam and G. A. Ravishankar. 2009. AgNO3 - a potential regulator of ethylene activity and plant growth modulator. Electronic Journal of Biotechnology. 12 : 1-15.

Linsmaier, E.M. and Skoog, F. 1965. Organic growth factor requirements of tobacco tissue cultures. Physiologia Plantarum. 18: 100-127.

Manalu,Y.H., I.G.P. Wirawan, dan I.G.K. Susrama.2014. Isolasi dan identifikasi *Agrobacterium tumefaciens* dari tanaman wortel (*Daucus carota* L.).E-Jurnal Agroteknologi Tropika 3(3): 119-127.

Matthys-Rochon, E., F. Piola, E. Le Deunff, R. Mol and C. Dumas. 1997. *In vitro* develompment of maize immature embryos: a tool for embryogenesis analysis. Journal of Experimental Botany. 49: 839-845.

Mubeen, H., R. Z. Naqvi , A. Masood , M. W. Shoaib and S. Raza. 2016. Gene transformation: methods, uses and applications. Journal of Pharmaceutical and Biological Science. 1 – 4.

Muhadjir, F. 2018. Karakteristik Tanaman Jagung. Balai Penelitian Tanaman Pangan. Bogor. 1-16.

Opabode, J.T. 2006. Agrobacterium-mediated transformation of plants: emergingfactors that influence efficiency. Biotechnol & Mol Biol Rev. 1 :12-20.

Paeru, R.H., dan T.Q. Dewi. 2017. Panduan Praktis Budidaya Jagung. Penebar Swadaya. Jakarta.

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

Rashid, H., A. Afzal, M. H. Khan, Z. Chaudhry and S. A. Malik. 2010. Pak J Bot. 42: 4183-4189.

Raven, P.H., R.F. Evert and S.E. Eichhorn. 1999. Biology of Plants. W H Freeman and Compaby. New York.

Read, P.E. 1992. Environmental and Hormonal Effect in Micropropagation. Transplant Production Systems. 231–246.

Riva, G., A. J. Gonzalez-Cabrera, R. Vasquez-Padron, dan C. Ayra-Pardo. 1998. *Agrobacterium tumefaciens*: a natural tool for plant transformation. Nature Biotechnol 1(1):77-83.

Rukmana. 2010. Prospek Jagung Manis. Pustaka Baru Perss. Yogyakarta.

Sadikin, M. 2002. Biokimia Enzim. Widya Medika. Jakarta.

Saeed, T., and A. Shahzad. 2016. Basic Principles Behind Genetic Transformation in Plants. Switzerland : Springer International Publishing.

Saeed, T., and Shahzad, A. 2015. Basic Principles Behind Genetic Transformation in Plants. Biotechnological Strategies for the Conservation of Medicinal and Ornamental Climbers, 327–350.

Selvaraj,M.G.,M.O. Valencia,S. Ogawa,Y. Lu,L. Wu,C. Downs,W. Skinner,Z. Lu, J.C. Kridl,M. Ishitani, dan J. van Boxtel. 2016. Development and field performance of nitrogen useefficient rice lines for Africa. Plant Biothechnology Journal : 1-13.

Sher, A., A. Basit, A. Khan , A. Ameen, S. Hussain, I. Ahmed, A. Shakoor and M. Abdullah. 2016. Nitrogen use efficiency in maize (*Zea mays* L.) as affected by different organic amendments. Journal of Advance Botany and Zoology. 4 : 1-5.

Shrawat,A.K., R.T. Carroll, M. DePauw, G. J. Taylor, dan A. G. Good.2008. Genetic engineering of improved nitrogen use efficiency in rice by the tissue-specific expression of *alanine aminotransferase.*Plant Biothechnology Journal 6 : 722-732

Slamet-Loedin, Inez H., P. Chadha-Mohanty and L. Torrizo. 2014. *Agrobacterium*-mediated transfotmation: rice transformation. Cereal Genomics : Methods and Protocol. New York. Springer Science Business Media.

Sugiura, M., M.N. Georgescu, and M. Takahashi. 2007. A nitrite transporter associated with nitrite uptake by higher plant chloroplasts. Plant Cell Physiol. 48 : 1022–1035.

Sutoro, Sustiprijatno, Hadiatmi, D. Ambarwati, S.G. Budiarti, M. Setyowati, dan E. Listanto. 2010. Perakitan 30 hibrida jagung dan 5 tanaman transforman jagung regenerasi awal (Ro) untuk peningkatan

efisiensi penggunaan pupuk N <50%, umur genjah ≤85 hari dan produktivitas 10 t/ha. Laporan Hasil Penelitian 2010. Balai Besar Penelitian dan Pengembangan Bioteknologi dan Sumber Daya Genetik Pertanian.

Suzuki, K., Y. Hattori, M. Uraji, N. Ohta, K. Iwata, K. Murata, A. Kato, dan K. Yoshida. 2000. Complete nucleotide sequence of a plant tumorinducing Ti plasmid. Gene 242:331–336.

Yuwono, T. 2006. Teori dan Aplikasi *Polymerase Chain Reaction*. Andi Offset. Yogyakarta.