

DAFTAR PUSTAKA

- Adams, G. 2020. A Beginner's Guide to RT-PCR, qPCR and RT-qPCR. *The Biochemist*, 42(3), 48-53.
- Adeyemo, O. S., Hyde, P. T., and Setter, T. L. 2019. Identification of *FT* Family Genes That Respond to Photoperiod, Temperature and Genotype in Relation to Flowering in Cassava (*Manihot esculenta*, Crantz). *Plant reproduction*, 32, 181-191.
- Ahn, J. H., Miller, D., Winter, V. J., Banfield, M. J., Lee, J. H., Yoo, S. Y., and Weigel, D. 2006. A divergent external loop confers antagonistic activity on floral regulators *FT* and *TFL1*. *The EMBO journal*, 25(3), 605-614.
- Albani, M. C., Vincent, C., Bergonzi, S., Luan, M., Bai, Y., Kiefer, C., Castillo, R., and Coupland, G. 2011. A *TFL1* Confers an Age-Dependent Response To Vernalization In *Perennial Arabis Alpina*. *Plant Cell*, 23(4), 1307–1321.
- Allem, A.C. 2002. The Origins and Taxonomy of Cassava. In: Hillocks, R.J., Thresh, J.M., Bellotti, A.C. (Eds.), *Cassava: Biology, Production and Utilization*. CABI Publishing, Wallingford, UK, pp. 1–16.
- Amalia, A. V., Fibriana, F., Widiatningrum, T., and Hardianti, R. D. 2021. Bioconversion and Valorization of Cassava-Based Industrial Wastes to Bioethanol Gel and its Potential Application as a Clean Cooking Fuel. *Biocatalysis and Agricultural Biotechnology*, 35(January), 102093. <https://doi.org/10.1016/j.bcab.2021.102093>.
- Andrés, F., and Coupland, G. 2012. The Genetic Basis of Flowering Responses to Seasonal Cues. *Nature Reviews Genetics*, 13(9), 627–639..
- Ayyubi, S. N., Purbasari, A., and Kusmiyati. 2022. The Effect of Composition on Mechanical Properties Of Biodegradable Plastic Based On Chitosan/Cassava Starch/PVA/Crude Glycerol: Optimization of the composition using Box Behnken Design. *Materials Today: Proceedings*, 63, S78–S83.

- Behnam, B., Bohorquez-Chaux, A., Castaneda-Mendez, O. F., Tsuji, H., Ishitani, M., and Becerra Lopez-Lavalle, L. A. 2018. An Optimized Isolation Protocol Yields High-Quality RNA from Cassava Tissues (*Manihot esculenta* Crantz). *FEBS Open bio*, 9(4), 814-825.
- Behnam, B., Higo, A., Yamaguchi, K., Tokunaga, H., Utsumi, Y., Selvaraj, M. G., ... and Tsuji, H. 2021. Field-Transcriptome Analyses Reveal Developmental Transitions During Flowering in Cassava (*Manihot esculenta*) [Erratum: August 2022, v. 109 (6); p. 823].
- Beltrán, J., Jaimes, H., Echeverry, M., Ladino, Y., López, D., Duque, M. C., and Tohme, J. 2009. Quantitative Analysis of Transgenes in Cassava Plants Using Real-Time PCR Technology. *In Vitro Cellular & Developmental Biology-Plant*, 45, 48-56.
- Beck, B. D. 1960. Cassava Trials on Moor Plantation 1958–1959 Report. Ibadan, Nigeria: Department of Agriculture.
- Behnam, B., Higo, A., Yamaguchi, K., Tokunaga, H., Utsumi, Y., Selvaraj, M. G., ... and Tsuji, H. 2021. Field-Transcriptome Analyses Reveal Developmental Transitions During Flowering in Cassava (*Manihot esculenta* Crantz). *Plant Molecular Biology*, 106, 285-296.
- Blackman, B. K. 2013. Interacting Duplications, Fluctuating Selection, And Convergence: The Complex Dynamics of Flowering Time Evolution During Sunflower Domestication. *Journal of Experimental Botany*, 64(2), 421–431.
- Bradley, D., Ratcliffe, O., Vincent, C., Carpenter, R., and Coen, E. 1997. Inflorescence Commitment and Architecture in Arabidopsis. *Science* 275: 80–83.
- Bolhuis, G. G. 1966. Influence of Length of The Illumination Period on Root Formation in Cassava. *Netherlands Journal Agricultural Science* 14, 151–262.
- Bokanga, M. 1994. Processing of Cassava Leaves for Human Consumption. In *Acta Horticulturae* (Issue 375, pp. 203–208).
- Bustin, S. A., Benes, V., Nolan, T., and Pfaffl, M. W. 2005. Quantitative Real-Time RT-PCR—a Perspective. *Journal of molecular endocrinology*, 34(3), 597-601.

- Byrne, D. 1984. Breeding cassava. *Plant Breed. Rev.* 2:73–133
- Cao, H., and Shockey, J. M. 2012. Comparison of TaqMan and SYBR Green qPCR Methods for Quantitative Gene Expression in Tung Tree Tissues. *Journal of agricultural and food chemistry*, 60(50), 12296-12303.
- Ceballos, L. F., Hershey, C., and Amaya, A. 1996. Cassava Taxonomy and Morphology. *Cassava in the Third Millennium: Chapter 2*, 15–28.
- Ceballos, H., Iglesias, C. A., Pérez, J. C., and Dixon, A. G. 2004. Cassava breeding: Opportunities and Challenges. *Plant molecular biology*, 56, 503-516.
- Ceballos H, Jaramillo JJ, Salazar S, Pineda LM, Calle F, and Setter T. 2017. Induction of Flowering in Cassava Through Grafting. *J Plant Breed Crop Sci* 9:19–29.
- Chauynarong, N., Elangovan, A. V., and Iji, P. A. 2009. The Potential of Cassava Products in Diets for Poultry. *World's Poultry Science Journal*, 65(1), 23–35. <https://doi.org/10.1017/S0043933909000002>.
- Clark, D. P., Pazdernik, N. J., and McGehee, M. R. 2019. DNA Sequencing. *Molecular Biology. Elsevier*, 240-269.
- Diaguna, R., Suwanto, Santosa, E., Hartono, A., Pramuhadi, G., Nuryartono, N., and Prartono, T. 2022. Morphological and Physiological Characterization of Cassava Genotypes on Dry Land of Ultisol Soil in Indonesia. *International Journal of Agronomy*, 2022(1), 3599272.
- Dinata, F. S., and Kartawiria, I. S. 2021. Bioethanol Potential from Whole Parts of Cassava Plant in Indonesia. *Jurnal Teknologi Industri Pertanian*, 31(1), 20-33.
- Egan, A. N., Schlueter, J., and Spooner, D. M. 2012. Applications of Next-Generation Sequencing in Plant Biology. *American journal of botany*, 99(2), 175-185.
- Fan, Z., Gao, Y., Gao, Y., Guan, C., Liu, R., Wang, S., and Zhang, Q. 2023. Functional Characterization of Two Flowering Repressors Short Vegetative Phase and Terminal Flower1 in Reblooming Bearded *Iris (Iris spp.)*. *Plant Science*, 328(35).

- Fleury, D., Baumann, U., and Langridge, P. 2012. Plant Genome Sequencing: Models for Developing Synteny Maps and Association Mapping. In *Plant biotechnology and agriculture* (pp. 83-97). Academic Press.
- Freitas, F. C., Depintor, T. S., Agostini, L. T., Luna-Lucena, D., Nunes, F. M., Bitondi, M. M., and Lourenço, A. P. 2019. Evaluation of Reference Genes for Gene Expression Analysis by Real-Time Quantitative PCR (qPCR) in Three Stingless Bee Species (Hymenoptera: Apidae: Meliponini). *Scientific reports*, 9(1), 17692.
- Guo, J. L., Yu, C. L., Fan, C. Y., Lu, Q. N., Yin, J. M., Zhang, Y. F., and Yang, Q. 2010. Cloning and Characterization of a Potato *TFL1* Gene Involved in Tuberization Regulation. *Plant Cell, Tissue and Organ Culture*, 103(1), 103–109. <https://doi.org/10.1007/s11240-010-9759-8>
- Gottschalk, C., Zhang, S., Schwallier, P., Rogers, S., Bukovac, M. J., and van Nocker, S. 2021. Genetic Mechanisms Associated with Floral Initiation and The Repressive Effect of Fruit on Flowering in Apple (*Malus domestica* Borkh). *Plos one*, 16(2), e0245487.
- Halsey, M. E., Olsen, K. M., Taylor, N. J., and Chavarriaga-Aguirre, P. 2008. Reproductive Biology of Cassava (*Manihot esculenta* Crantz) and Isolation of Experimental Field Trials. *Crop science*, 48(1), 49-58.
- Hanano, S., and Goto, K. 2011. Arabidopsis *Terminal Flower1* is Involved in The Regulation of Flowering Time and Inflorescence Development Through Transcriptional Repression. *Plant Cell*, 23(9), 3172–3184.
- Hao, X., Horvath, D. P., Chao, W. S., Yang, Y., Wang, X., and Xiao, B. 2014. Identification and Evaluation of Reliable Reference Genes for Quantitative Real-Time PCR Analysis in Tea Plant (*Camellia sinensis* (L.) O. Kuntze). *International journal of molecular sciences*, 15(12), 22155-22172.
- Hassankhah, A., Rahemi, M., Ramshini, H., Sarikhani, S., and Vahdati, K. 2020. Flowering in Persian Walnut: Patterns of Gene Expression During Flower Development. *BMC plant biology*, 20, 1-10.
- Higuchi, Y. and Hisamatsu, T. 2015. CsTFL1, a Constitutive Local Repressor of

- Flowering, Modulates Floral Initiation by Antagonising Florigen Complex Activity in *Chrysanthemum*. *Plant Sci.* 237, 1–7.
- Jalali, M., Zaborowska, J., and Jalali, M. 2017. The Polymerase Chain Reaction: PCR, qPCR, and RT-PCR. In *Basic science methods for clinical researchers* (pp. 1-18). Academic Press.
- Jain, M., Nijhawan, A., Tyagi, A. K., and Khurana, J. P. 2006. Validation of Housekeeping Genes as Internal Control for Studying Gene Expression in Rice by Quantitative Real-Time PCR. *Biochemical and Biophysical Research Communications*, 345(2), 646-651.
- Jennings, D.L., and C. Iglesias. 2002. Breeding for Crop Improvement. p. 149–166. In R.J. Hillocks, J.M. Thresh, and A. Bellotti (ed.) *Cassava: Biology, production, and utilization*. CAB International, Oxfordshire, UK.
- Jin, S., Nasim, Z., Susila, H., and Ahn, J. H. 2021a. Evolution and Functional Diversification of *Flowering Locus T/Terminal Flower1* Family Genes in Plants. *Seminars in Cell and Developmental Biology*, 109(March 2020), 20–30. <https://doi.org/10.1016/j.semcdb.2020.05.007>.
- Jin, S., Nasim, Z., Susila, H., and Ahn, J. H. 2021b. Evolution and Functional Diversification of *Flowering Locus T/Terminal Flower 1* Family Genes in Plants. *Seminars in Cell and Developmental Biology*, 109(May), 20–30.
- Kubista, M., Andrade, J. M., Bengtsson, M., Forootan, A., Jonák, J., Lind, K., and Zoric, N. 2006. The Real-Time Polymerase Chain Reaction. *Molecular aspects of medicine*, 27(2-3), 95-125.
- Kaufmann K, Wellmer F, and Muiño JM. 2010. Orchestration of Floral Initiation by *Apetalal*. *Science* 328, 85–89.
- Kawano, K. 1980. Cassava. p. 225–233. In W.R. Fehr and H.H. Hadley (ed.) *Hybridization of Crop Plants*. ASA, Madison, WI.
- Kementerian Pertanian. 2022. Laporan Kinerja Direktorat Jendral Tanaman Pangan. Hal 50 dan 87.

- Khosa, J., Bellinazzo, F., Kamenetsky Goldstein, R., Macknight, R., and Immink, R. G. 2021. *Phosphatidylethanolamine-Binding Proteins: The Conductors of Dual Reproduction in Plants with Vegetative Storage Organs. Journal of experimental botany*, 72(8), 2845-2856.
- Khumaida, N., Maharani, S., and Ardie, S. W. 2015. The Leaf Color Performance on Several Lines of Cassava and it's Relation with Tuber Yield ass Early Reference. *Procedia Environmental Sciences*, 24, 39-46.
- Lambret-Frotte, J., de Almeida, L. C., de Moura, S. M., Souza, F. L., Linhares, F. S., and Alves-Ferreira, M. 2015. Validating Internal Control Genes for The Accurate Normalization of qPCR Expression Analysis of The Novel Model Plant *Setaria Viridis*. *PLoS One*, 10(8), e0135006.
- Latif, S., and Müller, J. 2015. Potential of Cassava Leaves in Human Nutrition: A review. *Trends in Food Science and Technology*, 44(2), 147–158. <https://doi.org/10.1016/j.tifs.2015.04.006>
- Leihner D. 2002. Agronomy and Cropping Systems, chapter 6. In: Hillocks RJ, Thresh JM, Bellotti AC (eds) *Cassava Biology, Production and Utilization*. CABI, Oxford.
- Lin, F., Jiang, L., Liu, Y., Lv, Y., Dai, H., and Zhao, H. 2014. Genome-Wide Identification of Housekeeping Genes in Maize. *Plant molecular biology*, 86, 543-554.
- Li, C., Fu, Q., Niu, L., Luo, L., Chen, J., and Xu, Z. F. 2017. Three *TFL1* Homologues Regulate Floral Initiation in The Biofuel Plant *Jatropha curcas*. *Scientific Reports*, 7(1), 43090.
- Li, C., Lin, F., An, D., Wang, W., and Huang, R. 2017. Genome Sequencing and Assembly by Long Reads in Plants. *Genes*, 9(1), 6.
- Li, X., Nguyen, L. V., Hill, K., Ebendorff-Heidepriem, H., Schartner, E. P., Zhao, Y., and Warren-Smith, S. C. 2020. All-Fiber All-Optical Quantitative Polymerase Chain Reaction (qPCR). *Sensors and Actuators B: Chemical*, 323, 128681.
- Liljegren SJ, Gustafson-Brown C, Pinyopich A, Ditta GS, and Yanofsky MF. 1999.

- Interaction Among *Apetala1*, *Leafy*, and *Terminal Flower1* Specify Meristem Fate. *The Plant Cell* 11, 1007–1018.
- Livak, K. J., and Schmittgen, T. D. 2001. Analysis of Relative Gene Expression Data Using Real-Time Quantitative PCR and the $2^{-\Delta\Delta CT}$ Method. *methods*, 25(4), 402-408.
- Lorenzo, C. D., García-Gagliardi, P., Gobbini, M. L., Freytes, S. N., Antonietti, M. S., Mancini, E., and Cerdán, P. D. 2023. *MsTFL1A* Delays Flowering and Regulates Shoot Architecture and root Development in *Medicago sativa*. *Plant Reproduction*, 1-14.
- McCallum, E. J., Anjanappa, R. B., and Gruissem, W. 2017. Tackling Agriculturally Relevant Diseases in The Staple Crop Cassava (*Manihot esculenta*). *Current Opinion in Plant Biology*, 38, 50–58. <https://doi.org/10.1016/j.pbi.2017.04.008>.
- Mohamed R, Wang CT, and Ma C. 2010. *Populus CEN/TFL1* Regulates First Onset of Flowering, Axillary Meristem Identity and Dormancy Release in *Populus*. *The Plant Journal* 62, 674–688.
- Nassar, N. M. A., and Ortiz, R. 2007. Cassava Improvement: Challenges and Impacts. *The Journal of Agricultural Science*, 145(2), 163-171.
- Ngongo, Y., Basuki, T., Derosari, B., Mau, Y. S., Noerwijati, K., Dasilva, H., and Wisnubroto, E. I. 2022. The Roles of Cassava in Marginal Semi-Arid Farming in East Nusa Tenggara—Indonesia. *Sustainability*, 14(9), 5439.
- Nguyen, D. Q., Eamens, A. L., and Grof, C. P. 2018. Reference Gene Identification for Reliable Normalisation of Quantitative RT-PCR data in *Setaria viridis*. *Plant methods*, 14, 1-12.
- Oluwasanya, D., Esan, O., Hyde, P. T., Kulakow, P., and Setter, T. L. 2021. Flower Development in Cassava is Feminized by Cytokinin, While Proliferation is Stimulated by Anti-Ethylene and Pruning: Transcriptome Responses. *Frontiers in plant science*, 12, 666266.
- Ordidge M, Chiurugwi T, Tooke F, Battey NH. 2005. *Leafy*, *Terminal Flower1* and *Agamous* Are Functionally Conserved but do Not Regulate Terminal Flowering

- and Floral Determinacy in *Impatiens Balsamina*. *Plant Journal* 44, 985–1000.
- Plazas, J.J. 1991. Respuesta Al Cultivo In Vitro De Microsporas Aisladas De Variedades De Yuca (*Manihot esculenta* Crantz) Con Fertilidad Diferencial. Bachelor's thesis. Univ. del Valle, Facultad de Ciencias, Dept de Biología, Cali, Colombia.
- Parmar, A., Sturm, B., and Hensel, O. 2017. Crops that feed the world: Production and Improvement of Cassava for Food, Feed, And Industrial Uses. *Food Security*, 9(5), 907–927. <https://doi.org/10.1007/s12571-017-0717-8>.
- Peña-Venegas, C. P., Stomph, T. J., Verschoor, G., Becerra Lopez-Lavalle, L. A., and Struik, P. C. 2014. Differences in Manioc Diversity Among Five Ethnic Groups of the Colombian Amazon. *Diversity*, 6(4), 792-826.
- Pinto-Zevallos, D. M., Pareja, M., and Ambrogi, B. G. 2016. Current Knowledge and Future Research Perspectives on Cassava (*Manihot esculenta* Crantz) Chemical Defenses: An agroecological view. *Phytochemistry*, 130, 10–21. <https://doi.org/10.1016/j.phytochem.2016.05.013>.
- Ratcliffe OJ, Bradley DJ, and Coen ES. 1999. Separation of Shoot and Floral Identity in *Arabidopsis*. *Development* 126, 1109–1120. Remay A, Lalanne D, Thouroude T, Le Couviour F, Oyant.
- Remans, T., Smeets, K., Opdenakker, K., Mathijsen, D., Vangronsveld, J., and Cuypers, A. 2008. Normalisation of Real-Time RT-PCR Gene Expression Measurements in *Arabidopsis thaliana* Exposed to Increased Metal Concentrations. *Planta*, 227, 1343-1349.
- Reuben-Kalu, J. I., Eswaran, K., Muthurajan, R., Doraiswamy, U., Venkatasamy, B., and Shanmugam, K. P. 2023. Precise Isolation of High-Quality RNA from Leaves and Storage Roots of Cassava (*Manihot esculenta* Crantz) for Gene Expression Studies. *Bulletin of the National Research Centre*, 47(1), 84.
- Rogers, D. J., and SG, A. 1973. *Manihot and Manihotoides* (Euphorbiaceae): a computer assisted study.
- Rozi, F., Elisabeth, D.A.A., Krisdiana, R., Adri, A., Yardha, Y., and Rina, Y. 2023.

- Prospects of Cassava Development in Indonesia in Supporting Global Food Availability in Future. *Advances in Root Vegetables Research. IntechOpen*: pp. 1-22.
- Saha, P., and Blumwald, E. 2014. Assessing Reference Genes for Accurate Transcript Normalization Using Quantitative Real-Time PCR in Pearl Millet [*Pennisetum glaucum* (L.) R. Br.]. *PloS one*, 9(8), e106308.
- Salcedo, A., Zambrana, C., and Siritunga, D. 2014. Comparative Expression Analysis of Reference Genes in Field-Grown Cassava. *Tropical plant biology*, 7, 53-64.
- Serrano-Mislata A, Fernández-Nohales P, Doménech MJ, Hanzawa Y, Bradley D, and Madueño F. 2016. Separate Elements of the *Terminal Flower 1* Cis-Regulatory Region Integrate Pathways to Control Flowering Time and Shoot Meristem Identity. *Development* 143:3315–3327.
- Setiadi. 2017. Model Reproduksi dan Biologi Pembungan Ubi Kayu.
- Shanmugam, K. P. 2023. Precise Isolation of High-Quality RNA from Leaves and Storage Roots of Cassava (*Manihot esculenta* Crantz) for Gene Expression Studies. *Bulletin of the National Research Centre*, 47(1), 84.
- Shannon, S., and Meeks-Wagner, D.R. 1991. A Mutation in the *Arabidopsis TFL1* Gene Affects Inflorescence Meristem Development. *Plant Cell* 3: 877–892.
- Silva Souza, L., Cunha Alves, A. A., and de Oliveira, E. J. 2020. Phenological Diversity of Flowering and Fruiting in Cassava Germplasm. *Scientia Horticulturae*, 265(January), 109253.
- Singh, R. K., Bhalerao, R. P., and Maurya, J. P. 2022. When to Branch: Seasonal Control of Shoot Architecture in Trees. *FEBS Journal*, 289(24), 8062–8070.
- Song, Y. H., Ito, S. and Imaizumi, T. 2013. Flowering Time Regulation: Photoperiod- And Temperature-Sensing in Leaves. *Trends Plant Sci.* 18, 575–583.
- Strasser, B., Alvarez, M. J., Califano, A., and Cerdán, P. D. 2009. A Complementary Role for ELF3 and TFL1 in The Regulation of Flowering Time by Ambient Temperature. *The Plant Journal*, 58(4), 629-640.
- Su, X., Lu, L., Li, Y., Zhen, C., Hu, G., Jiang, K., and Zhang, B. 2020. Reference Gene

- Selection for Quantitative Real-Time PCR (qRT-PCR) Expression Analysis in Galium Aparine L. *PLoS One*, 15(2), e0226668.
- Susila, H., Nasim, Z., and Ahn, J. H. 2018. Ambient Temperature-Responsive Mechanisms Coordinate Regulation of Flowering Time. *International Journal of Molecular Sciences*, 19(10), 3196.
- Susila, H., and Purwestri, Y. A. 2023. PEBP Signaling Network in Tubers and Tuberous Root Crops. *Plants*, 12(2), 264.
- Van den Bulcke, M., Lievens, A., Barbau-Piednoir, E., MbongoloMbella, G., Roosens, N., Sneyers, M., and Casi, A. L. 2010. A Theoretical Introduction to “Combinatory SYBR® Green qPCR Screening”, a matrix-based Approach for The Detection of Materials Derived from Genetically Modified Plants. *Analytical and bioanalytical chemistry*, 396, 2113-2123.
- Yoo, S. J., Chung, K. S., Jung, S. H., Yoo, S. Y., Lee, J. S., and Ahn, J. H. 2010. Brother of *FT* and *TFL1* (BFT) has TFL1-like activity and Functions Redundantly with *TFL1* in Inflorescence.
- Wang Z, Zhou Z, Liu Y, Liu T, Li Q, Ji Y, Li C, Fang C, Wang M, Wu M, Shen Y, Tang T, Ma J, and Tian Z. 2015. Functional Evolution of Phosphatidylethanolamine Binding Proteins in Soybean and Arabidopsis. *Plant Cell* 27:323–336.
- Williams, c. N. and Gazhali, S. M. 1969. Growth and Productivity of Tapioca (*Manihot utilissima*) 1. Leaf Characteristics and Yield. *Experimental Agriculture* 5, 183–194.
- Wilhelm, J., and Pingoud, A. 2003. Real-Time Polymerase Chain Reaction. *Chembiochem*, 4(11), 1120-1128.
- Wilson, M. C., Mutka, A. M., Hummel, A. W., Berry, J., Chauhan, R. D., Vijayaraghavan, A., and Bart, R. S. 2017. Gene Expression Atlas for The Food Security Crop Cassava. *New Phytologist*, 213(4), 1632-1641.

Wu, L., Li, F., Deng, Q., Zhang, S., Zhou, Q., Chen, F., and Liu, G. 2019. Identification and Characterization of the *Flowering Locus T/Terminal Flower 1* Gene Family in Petunia. *DNA and Cell Biology*, 38(9), 982-995.

Zuo, X., Xiang, W., Zhang, L., Gao, C., An, N., Xing, L., and Zhang, D. 2021. Identification of Apple *TFL1*-Interacting Proteins Uncovers an Expanded Flowering Network. *Plant Cell Reports*, 40, 2325-2340.