

## DAFTAR PUSTAKA

- Abdullah, B. 2001. The use of isoenzyme as biochemical markers in rice research. *Buletin Agrobio* 4(2):39-44
- Allard, R. W. 1989. *Pemuliaan Tanaman Jilid 2*. Bina Akasara, Jakarta.
- Anonim. 2014. Statistik Perkebunan Indonesia (Teh) 2013-2015. < <http://ditjenbun.pertanian.go.id> >. Diakses pada tanggal 8 September 2019.
- Ariyaratna, C. dan K. Gunasekare. 2006. Genetic base of tea (*Camellia sinensis* L.) cultivars in Sri Lanka as revealed by pedigree analysis. *J Appl Genet* 48(2):125-128.
- Asif, M., M. Rahman, J. I. Mirza, and Y. Zafar. 2008. High resolution metaphor agarose gel electrophoresis for penyandian genotipe with microsatellite markers. *Pak. J. Agri. Sci.* 45(1):75-79.
- Azka, N. A., H. Widhianata, and Taryono. 2019. Morphological and molecular characterization of 5 accessions of tea (*Camellia sinensis* (L.) O. Kuntze) exploited to develop high quality and quantity yield. *AIP Conference Proceeding*. < <https://doi.org/10.1063/1.5098408> >. Diakses pada tanggal 10 April 2019.
- Biswas, K. P. 2006. Description of tea plant. In *Encyclopaedia of Medicinal Plants*. Dominant Publishers and Distributors, New Delhi.
- Blair, M. W., S. R. McCouch, and O. Panaud. 1999. Inter simple sequence repeat (ISSR) amplification for analysis of microsatellite motif frequency and fingerprinting in rice (*Oryza sativa* L.). *Theoretical Appli Gen.* 98:780–792.
- Buteler, M. I. and D. R. LaBonte. 2002. Microsatellite-based paternity analysis in polyploidy sweetpotato. *J. Amer. Soc. Hort. Sci.* 127(3):392-396.
- Chahal, G. S. and S. S. Gosal. 2002. *Principles and Procedures of Plant Breeding: Biotechnological and Conventional Approaches*. Alpha Science International Ltd., United Kingdom.
- Crowder, L. V. 2010. *Genetika Tumbuhan*. Gadjah Mada University Press, Yogyakarta.
- De Costa, W. A. J. M., A. J. Mohotti, and M. A. Wijeratne. 2007. Ecophysiology of tea. *Braz. J. Plant Physiol.* 19(4):299-332.
- Diaz, A., A. Martin, P. Rallo, D. Barranco, and R. De la Rosa. 2006. Self-incompatibility of 'Arbequina' and 'Picual' olive assessed by SSR markers. *J. Am. Soc. Hortic. Sci.* 131(2):250-255.
- Doyle, J. J. and J. L. Doyle. 1990. Isolation of plant DNA from fresh tissue. *Focus* 12:13-15.
- Fan, F. Y., D. H. Yan, D. Borthakur, Y. R. Liang, X. Y. Luo, J. Wei, S. C. Liu, and J. L. Lu. 2011. Application of molecular tools in parentage identification and gene diversity study in tea (*Camellia sinensis*) germplasm of Guizhou province, China. *Two and a Bud* 58:39-43.
- Freeman, S., J. West, C. James, V. Lea, and S. Mayes. 2004. Isolation and characterization of highly polymorphic microsatellites in tea (*Camellia sinensis*). *Molecular Ecology Notes* 4:324-326.
- Gjedrem, T. and M. Baranski. 2009. *Selective breeding in aquaculture: an introduction*. Springer, New York.
- Govindaraj, P., A. Balamurugan and U. S. Natarajam. 2012. Identification of intergenic hybrid between *Erianthus arundinaceus* and *Saccharum spontaneum* through STMS markers. *International Sugar Journal* 114(1361):350-356.



- Griffin, A. R. and M. Sedgley. 1989. Sexual Reproduction of Tree Crop. Academic Press Inc. Harcourt Brace Jovanovich Publishers, San Diego.
- Hancock, J. M. 1999. Microsatellites and other simple sequences: Genomic context and mutational mechanisms. *In* D. B. Goldstein and C. Schlotterer [eds.], Microsatellites: Evolution and applications. Oxford University Press, United Kingdom.
- Indarti, D. 2015. Outlook Teh. Sekretariat Jenderal Kementerian Pertanian, Pusat Data dan Sistem Informasi Pertanian, Jakarta.
- Jones, A. G., C. M. Small, K. A. Paczolt, and N. L. Ratterman. 2010. A practical guide to methods of parentage analysis. *Molecular Ecology Resources* 10:6-30.
- Kalinowski, S. T., M. L. Taper, T. C. Marshall. 2007. Revising how the computer program CERVUS accommodates penyandian genotipe error increases success in paternity assignment. *Molecular Ecology* 16:1099-1106.
- Lazar Jr, I., E. H. Lazar, I. Lazar Sr. 2019. Gel Analyzer 19.1. < <http://www.gelanalyzer.com/index.html> >. Diakses pada tanggal 10 September 2020.
- Mahmood, T., N. Akhtar, and B. A. Khan. 2010. The morphology, characteristics, and medicinal properties of *Camellia sinensis*' tea. *Journal of Medicinal Plants Research* 4(19):2028-2033.
- Mangoendidjojo, W. 2003. Dasar-Dasar Pemuliaan Tanaman. Penerbit Kanisius, Yogyakarta.
- Mangoendidjojo, W. 2006. Varietas dan Potensi Hasil Tanaman Teh. Fakultas Pertanian, Universitas Gadjah Mada, Yogyakarta.
- Martono, B. 2013. Karakteristik Morfologi dan Kegiatan Plasma Nutfah Tanaman Kakao. Balai Penelitian Tanaman Industri dan Penyegar, Sukabumi.
- Martono, B. dan Syafaruddin. 2018. Analisis keragaman 21 genotipe teh (*Camellia sinensis* (L.) O. Kuntze) berdasarkan penanda rapd. *Jurnal Tanaman Industri dan Penyegar* 5(2): 77-86.
- McNeish, D. 2017. Small Sample Methods for Multilevel Modeling: A Colloquial Elucidation of REML and the Kenward-Roger Correction. University of North Carolina, North Carolina.
- Mitra, B., S. Roy, S. K. Shah, and P. Mishra. 2017. Inventorisation of true flies (Insecta: Diptera) and their association with tea plants in Dooars, West Bengal, India. *International Journal of Entomology Research* 2(5):21-26.
- Mondal, T. K., A. Bhattacharya, M. Laxmikumaran, and P. S. Ahuja. 2004. Recent advances of tea (*Camellia sinensis*) biotechnology. *Plant Cell, Tissue and Organ Culture* 76: 195-254
- Mookerjee, S., J. Guerin, G. Collins, C. Ford, and M. Sedgley. 2005. Paternity analysis using microsatellite markers to identify pollen donors in an olive grove. *Theoretical and Applied Genetics* 111: 1174-1182
- Murianingrum, M., Taryono, R. A. Wulandari. 2018. Microsatellite genetic markers of *Saccharum* spp., and *Erianthus* sp. on their hybrids. *Ilmu Pertanian (Agricultural Science)* 3(1):1-11.
- Nisa, Y. S. 2020. Karakterisasi Penanda Morfologi Dan SSR Klon Teh (*Camellia Sinensis* (L.) O. Kuntze) Kebun Poliklonal Kayulandak PT Pagilaran. Manuscript in preparation.
- NRCS. 2018. Classification for Kingdom Plantae Down to Species *Camellia sinensis* (L.) Kuntze.

<https://plants.usda.gov/java/ClassificationServlet?source=profile&symbol=CASI16&display=31> >. Diakses pada tanggal 1 September 2018.

- Pemberton, J. M. 2009. Wild pedigrees: the way forward. *Proceedings of the Royal Society of London B* 275:613-621.
- Perera, M. F., M. E. Arias, D. Costilla, A. C. Luque, M. B. Garcia, C. D. Romero, J. Racedo, S. Ostengo, M. P. Filippone, M. I. Cuenya, and A. P. Castagnaro. 2012. Genetic diversity assessment and genotype identification in sugarcane based on DNA markers and morphological traits. *Euphytica* 185:491-510.
- Putri, Y. S., R. H. Murti, dan S. Mitrowihardjo. 2015. Evaluasi klon-klon harapan teh (*Camellia sinensis* (L.) O. Kuntze) keturunan TRI 2024xPS 1 pada lingkungan berbeda. *Vegetalika* 4(3): 127-137.
- Ramakrishnan, M., L. Rajanna, N. Papanna, and L. Simon. 2009. Assessment of genetic relationship and hybrid evaluation studies in tea (*Camellia* sp.) by RAPD. *International Journal of Plant Breeding* 3(2):144-148.
- Ross, I. A. 2005. Tea common names and its uses. In *Medicinal Plants of the World*. 3 rd Vol. Humana Press, New Jersey.
- Setyorini, T. 2009. Studi Keragaman Genetik dan Pendugaan Tetua Jantan Perdu F1 Teh (*Camellia sinensis*) dengan Analisis Isozim. Tesis. Program Pascasarjana, Fakultas Pertanian, Universitas Gadjah Mada, Yogyakarta.
- Tallarida, L. and R. B. Murray. 1987. *Manual of Pharmacologic Calculations*. Springer-Verlag New York Inc., New York.
- Tan, L. Q., M. Peng, L. Y. Xu, L. Y. Wang, S. X. Chen, Y. Zou, G. N. Qi, and H. Cheng. 2015. Fingerprinting 128 Chinese clonal tea cultivars using SSR markers provides new insight into their pedigree relationships. *Tree Genet. Genomes* 11:90.
- Tan, L. Q., Q. L. Liu, B. Zhou, C. J. Yang, X. Zou, Y. Y. Yu, Y. Wang, J. H. Hu, Y. Zao, S. X. Chen, P. W. Li, and Q. Tang. 2019. Paternity analysis using SSR markers reveals that the anthocyanin-rich tea cultivar 'Ziyan' is self-compatible. *Scientia Horticulturae* 245:258-262.
- Taryono. 2014. *Pengantar Bioteknologi untuk Pemuliaan Tanaman*. Gadjah Mada University Press, Yogyakarta.
- Thongthawae, S., P. Tittinutchanon, and H. Volkaert. 2010. Microsatellites for parentage analysis in an oil palm breeding population. *Thai Journal of Genetics* 3(2):172-181.
- Visser, T. 1969. *Outlines of Perrenial Crop Breeding in the Tropics*. Institute of Plant Breeding, Landbouwhogeschool, Wageningen.
- Wachira, F. N., S. Kamunya, S. Karori, R. Chalo, and T. Maritim. 2013. The Tea Plants: Botanical Aspects. In V. R. Preedy [ed], *Tea in Health and Disease Prevention*. Academic Press Books-Elsevier, Massachusetts.
- Wambulwa, M. C., M. K. Meegahakumbura, R. Chalo, S. Kamunya, A. Muchugi, and J. Xu. 2016. Nuclear microsatellites reveal the genetic architecture and breeding history of tea germplasm of East Africa. *Tree Genet. Genomes* 12:11.
- Wang, Y., X. Wang., A. L. Skirpan, and T. H. Kao. 2003. S-RNase-mediated self-incompatibility. *Journal of Experimental Botany* 54(380): 115-122.



- Williams, J. G. K., A. R. Kubelik, K. J. Livak, J. A. Rafalski, and S. V. Tingey. 1990. DNA polymorphisms amplified by arbitrary primers are useful as genetic markers. *Nucleic Acids Research* 18:6531-6535.
- Zhang, C. C., L. Y. Wang, K. Wei, L. Y. Wu, H. L. Li, F. Zhang, H. Cheng, and D. J. Li. 2016. Transcriptome analysis reveals self-incompatibility in the tea plant (*Camellia sinensis*) might be under gametophytic control. *BMC Genomics* 17:359



UNIVERSITAS  
GADJAH MADA

**Analisis Tetua Teh (*Camellia sinensis* (L.) O. Kuntze) Berdasarkan Penanda SSR dan Morfologi**  
NAFILA ALIFIA AZKA, Dr. Ir. Taryono, M.Sc.; Rani Agustina Wulandari, S.P., M.P., Ph.D.  
Universitas Gadjah Mada, 2021 | Diunduh dari <http://etd.repository.ugm.ac.id/>