

DAFTAR PUSTAKA

- Abeyasinghe, D.C., K.M. Mewan, W.M.S.S. Kumari, and K.L.W. Kumara. 2015. Morphological and molecular differences of *Exobasidium vexans* Masee causing blister blight of tea. *Journal of The Korean Tea Society* 4: 72-76.
- Aboul-Maaty, N.A. and H.A. Oraby. 2019. Extraction of high-quality genomic DNA from different plant orders applying a modified CTAB-based method. *Bulletin of the National Research Centre*. <https://doi.org/10.1186/s42269-019-0066-1>
- Agrios, G.N. 2004. *Plant Pathology* 3rd ed. Academic Press, New York.
- Ahuja, P.S., A. Gulati, R.D. Singh, R.K. Sud, and R.C. Boruah. 2013. *Science of Tea Technology*. Scientific Publishers, India.
- Ajay, D., A. Balamurugan, and U.I. Baby. 2009. Survival of *Exobasidium vexans*, the incitant of blister blight disease of tea, during off season. *International Journal Applied Agriculture Resources* 4: 115-123.
- Anonim. 2016. Outlook teh. *Jurnal Kementerian Pertanian* 10: 1-78.
- Anonim. 2018. Statistik Teh Indonesia 2018. <<https://www.bps.go.id/publication/2019/11/22/02661f42709afc66345c26bd/statistik-teh-indonesia-2018.html>> diakses pada 20 November 2020.
- Anonim. 2020. Statistik Teh Indonesia 2020. <<https://www.bps.go.id/publication/2021/11/30/a39c39e9b09d77c9a282a0b5/statistik-teh-indonesia-2020.html>> diakses pada 17 Januari 2022.
- Anonim. 2021. Tentang Pagilaran. <<https://pagilaran.co.id/sejarah/>> diakses pada 17 Januari 2022.
- Arif, I. A., M. A. Bakir, H. A. Khan, A.H. Al Farhan, *et al.* 2010. Application of RAPD for molecular characterization of plant species of medicinal value from an arid environment. *Genetics and Molecular Research* 9: 2191-2198. DOI 10.4238/vol9-4gmr848
- Ayu, L., D. Indradewa, dan E. Ambarwati. 2020. Pertumbuhan Hasil dan kualitas pucuk teh (*C. sinensis* (L.) Kuntze) di berbagai tinggi tempat. *Vegetalika* 1: 78-89. 10.22146/veg.1598
- Bandyopadhyay, T. 2011. Molecular marker technology in genetic improvement of tea. *International Journal of Plant Breeding and Genetics* 5: 23-33
- Barman, A., A. Nath, and D. Thakur. 2020. Identification and characterization of fungi associated with blister blight lesions of tea (*Camellia sinensis* L. Kuntze) isolated from Meghalaya, India. *Microbiological Research* 240: 1-12. <https://doi.org/10.1016/j.micres.2020.126561>
- Barooahi, A.K., N. Kalita, M.N. Borthakur, A. Barooah, and T. Barman. 2012. Non-tariff trade barriers—pesticide residues and heavy metals in tea and approaches to mitigate them. *Two Bud* 59:1-8.
- Basu, M.A., B. Bera, and A. Rajan. 2010. Tea statistics: global scenario. *International Journal of Tea Science* 8: 121-124.
- Bandyopadhyay, T. 2011. Molecular marker technology in genetic improvement of tea. *International Journal of Plant Breeding and Genetics* 5: 23-33.
- Balodi, R., S. Bisht, A. Ghatak, and K.H. Rao. 2017. Plant disease diagnosis: technological advancements and challenges. *Indian Phytopathology* 70:275-281
- Biswas, K.P. 2006. Description of tea plant. In *Encyclopaedia of Medicinal Plants*. Dominant Publishers and Distributors, New Delhi.

- Chadha, S. and T. Gopalakrishna. 2005. Genetic diversity of India isolated of rice blast pathogen (*Manguaportha grisea*) using molecular markers. Cur. Sci. 88: 1466-1469.
- Chaliha, C. and E. Kalita. 2020. Blister blight disease of tea: an enigma. IntechOpen. DOI: 10.5772/intechopen.95362
- Chalkley, D. 2010. Invasive and Emerging Fungal Pathogens-Diagnostic Fact Sheets. <https://nt.ars-grin.gov/taxadescriptions/factsheets/index.cfm?thisapp=Exobasidiumvexans> diakses pada 20 November 2020.
- Chang, K. 2015. World Tea Production and Trade: Current and Future Development. FAO, Roma.
- Chen, B. and J. Jia. 2020. Automatic recognition of tea diseases based on deep learning. Sustainable Forest Management: 1-19. <http://dx.doi.org/10.5772/intechopen.91953>
- Chen, L., M.Z. Yao, L.P. Zhao, and X.C. Wang . 2006. Recent research progresses on molecular biology of tea plant (*Camellia sinensis*). In: da Silva JT (ed) Floriculture, ornamental and plant biotechnology, advances and topic issues, vol 4. Global Science Books, London.
- Chen, L., Z.X. Zhou, and Y.J. Yang. 2007. Genetic improvement and breeding of tea plant (*Camellia sinensis*) in China: from individual selection to hybridization and molecular breeding. Euphytica 154: 239-248.
- Dadan, H., D. Judawi, D. Priharyanto, *et al.* 2002. Musuh Alami, Hama, dan Penyakit Tanaman Teh. Kementerian Pertanian, Jakarta.
- Dufrene, B. 2020. The 2020 Global Tea Market Report. <<https://www.teaandcoffee.net/feature/25850/the-2020-global-tea-market-report/>> diakses pada 11 Januari 2020.
- Effendi, D.S., M. Syakir, M. Yusron, dan Wiratno. 2010. Budidaya dan Pasca Panen Teh. Pusat Penelitian dan Pengembangan Perkebunan, Bogor.
- EPPO. 2001. *Exobasidium vexans* (EXOBVE). <https://gd.eppo.int/taxon/EXOBVE> diakses pada 14 Januari 2021.
- Falakro, K. and S.J. Khiavi. 2020. Assessment of genetic diversity and relationships among tea genotypes in Iran based on RAPD and ISSR markers. Journal of Horticulture and Postharvest Research 3: 209-220. DOI: 10.22077/jhpr.2019.2832.1094
- Fauziah, F., M. R. Setiawati, D.N. Susilowati, E. Pranoto, dan Y. Rachmiati. 2016. Potensi mikroba indigen tanaman teh terhadap pertumbuhan dan ketahanan terhadap penyakit cacar daun (*Exobasidium vexans* Masee). Jurnal Penelitian Teh dan Kina 19: 115-123.
- Fauziah, N., B. Hadisutrisno, dan A. Priyatmojo. 2018. Waktu pemencaran dan pengaruh jenis air terhadap perkecambahan basidiospora *Exobasidium vexans*, penyebab penyakit cacar daun teh. Jurnal Perlindungan Tanaman Indonesia 22: 66-71.
- Fei, Y., W. Tang, J. Shen, T. Zou, *et al.* 2014. Application of random amplified polymorphic DNA (RAPD) markers to identify *Taxus chinensis* var. *mairei* cultivars associated with parthenogenesis. African Journal of Biotechnology 13.
- Gardes, M. and D. Burns. 1993. ITS primers with enhanced specificity for basidiomycetes application to the identification of mycorrhizae and rusts. Molecular Biology 2: 113-118.

- Gudadett, J., J. Julien, J.F. Lafay, and Y. Brygoo. 1989. Phylogeny of some *Fusarium* species as determined by larger sub-unit r-RNA sequence comparison. *Molecular Biological Evaluation* 6: 227-242.
- Gulati, A., S.D. Ravindranath, G. Satyanarayana, and D.N. Chakraborty. 1993. Effect of blister blight on infusion quality in orthodox tea. *India Phytopathology* 46: 155-159.
- Gusmiaty, M. Restu, Asrianny, dan S. H. Larekeng. 2016. Polimorfisme penanda RAPD untuk analisis keragaman genetik *Pinus merkusii* di Hutan Pendidikan Unhas. *Jurnal Naturl Indonesia* 16: 47-53.
- Holliday, P. 1980. *Fungus Disease of Tropical Crops*. Dover Publications, Inc., New York.
- Iordache, O., C.P. Cornea, C. Diguta, S. Rodino, I. Ionescu, A. Matei, and I. Dumitrescu. 2015. Molecular identification of fungal isolated from textile wastewater by ITS-RFLP method. *Bulletin UASV Animal Science and Biotechnologies* 72: 259-261. DOI:10.15835/buasvmcn-asb:11608
- ITC (International Tea Committee); Annual Bulletin of Statistics 2010. ITC, London.
- Joshi, S.D., A. Balamurgan, P.R. Rahul, A.K.A. Mandal, R.R. Kumar, *et al.* 2009. Genetic and morphological variation of tea (*Camellia sinensis*) blister blight pathogen (*Exobasidium vexans*) in Southern India revealed by RAPD markers and spore morphology. *S. L. J. Tea Sci.* 74: 52-61.
- Kalia, R.K., M.K. Rai, S. Kalia, R. Singh, and A.K. Dhawan. 2011. Microsatellite Markers: An overview of the recent progress in plants. *Euphytica* 177: 309–334. DOI 10.1007/s10681-010-0286-9
- Karurathna, K.H.T., K.M. Mewan, O.V.D.S.J. Weerasera, S.A.C.N. Perera, and E.N.U. Edirisinghe. 2020. A functional molecular marker for detecting blister blight disease resistance in tea (*Camellia sinensis* L.). *Plant Cell Reports*. <https://doi.org/10.1007/s00299-020-02637-6>
- Kaundun, S.S. and S. Matsumoto. 2003. Development of CAPS markers based on three key genes of the phenylpropanoid pathway in tea, *Camellia sinensis* (L.) O. Kuntze, and differentiation between assamica and sinensis varieties. *Theor Appl Genet* 106: 375-383.
- Kim, D.H., V. Haridas, J. Thomas, P.R. Rahul, and R.R. Kumar. 1992. Restriction fragment length polymorphism groups and physical map of mitochondrial DNA from *Fusarium oxysporum* f.sp. Nuveium. *Phytopathology* 82: 346-353.
- Kistler, H.C., E.A. Momol, and U. Benny. 1991. Repetative genomic sequences for determining relatedness among strains of *Fusarium oxysporum*. *Phytopathology* 81: 331-336.
- Kolade, O. A., M.O. Olowolafe, and I. Fawole. 2016. Characterization of mutant cowpea [*Vigna unguiculata* (L) Walp] lines using random amplified polymorphic DNAs (RAPDs) and amplified fragment length polymorphism (AFLP) markers. *African Journal of Biotechnology* 15: 2530-2537. <https://doi.org/10.5897/AJB2015.14539>
- Kulatunga, C., G.D. Sinniah, A. Balasuriya, T. Karunarathna, and K.M. Mewan. 2013. Use ITS region for molecular differentiation of *Exobasidium vexans* causing blister blight in tea. *International Symposium on Agriculture and Environment 2013* : 271-274.
- Kumar, A., A. Pandey, C. Aochen, and A. Pattanayak. 2015. Evaluation of genetic diversity and inter-relationship of agro morphological characters in soybean (*Glycine max*) genotype. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 85: 397–405

- Latief, W. dan S. Amien. 2014. Studi awal pemanfaatan marka molekuler RAPD untuk penentuan kebenaran tiga kultivar nilam. *Bionatura-Jurnal Ilmu-Ilmu Hayati dan Fisik* 16: 109-113.
- Lee, K.J., J.R. Lee, R. Sebastin. 2019. Assessment of genetic diversity of tea germplasm for its management and sustainable use in Korea genebank. *Forests* 10:780. <https://doi.org/10.3390/f10090780>
- Liu, B., Sun, X., Wang, Y., Li, Y., Cheng, H., Xiong, C., and Wang, P. 2012. Genetic diversity and molecular discrimination of wild tea plants from Yunnan Province based on inter-simple sequence repeats (ISSR) markers. *African Journal of Biotechnology* 11: 11566-11574
- Lu, H.Y., J.P. Zhang, Y.M. Yang, X.Y. Yang, B.Q. Xu, W.Z. Yang, *et al.* 2016. Earliest tea as evidence for one branch of the silk road across the Tibetan Plateau. *Science Report* 6: 18955.
- Lu, Y. 1974. the Classic of tea. Introduced and Translated bu F. Ross Carpenter and H.Demi. Little Brown & Co., Boston.
- Lucic, I., M. Rakonjan, R. D. Babic. 2011. Application of Various Methods to Analyze Genetik Diversity of Austrian Pine (*Pinus nigra*) and Scots Pine (*Pinus cyluestris*). *Genetika* 43: 477– 486.
- Meegahakumbura, M.K., M.C. Wambulwa, M. Li, K.K. Thapa, Y. Sun, *et al.* 2018. Domestication origin and breeding history of the tea plant (*Camellia sinensis*) in China and India based on nuclear microsatellites and cpDNA sequence data. *Frontiers in Plant Science* <https://doi.org/10.3389/fpls.2017.02270>.
- Mohktar, M. and H. Nagao. 2019. Histological description of *Exobasidium vexans* infection on tea leaves (*Camellia sinensis*). *Songklanakarin Journal Science and Technology* 41: 1021-1028.
- Mouli, B. C. 2003. Blister blight of tea: biology, epidemiology, and management. *Annual Review Plant Pathology* 2: 145-162.
- Nandani, K., and S. K. Thakur. 2014. Randomly amplified polymorphic DNA-a brief review. *American Journal of Animal and Veterinary Sciences*, 9(1), 6-13. <https://doi.org/10.3844/ajavssp.2014.6.13>
- Neff, M., J. Neff, J. Chory, and A. Pepper. 1998. dCAPS, a simple technique for the genetic analysis of single nucleotide polymorphisms: Experimental applications in *Arabidopsis thaliana* genetics. *The Plant Journal* 14: 387-392.
- Ngatimin, S.N.A., A. Amalia, Fatmawati, F. Jamaluddin, Suhardi, *et al.* tanpa tahun. Teknik Pengelolaan Hama dan Penyakit Tanaman Perkebunan. *LeutikaPrio*.
- Nilsson, R.H., K.D. Hyde, J. Pawłowska, *et al.* 2014. Improving ITS sequence data for identification of plant pathogenic fungi. *Fungal Divers* 67:11-19. DOI 10.1007/s13225-014-0291-8
- Novasyurahati. 2014. Strategi untuk perbaikan manajemen perkebunan teh rakyat: studi kasus di Kecamatan Pasirjambu dan Ciwidey, Kabupaten Bandung. *Jurnal Matematika dan sains* 19: 33-49.
- Ochieng, J., L. Kirimi, and M. Mathenge. 2016. Effects of climate variability and change on agricultural production: The case of small scale farmers in Kenya. *NJAS-Wageningen Journal of Life Sciences* 77: 71-78. commitment. <http://dx.doi.org/10.1016/j.njas.2016.03.005>
- Pandin, D. S. 2010. Penanda DNA untuk pemuliaan tanaman kelapa (*Cocos nucifera* L.). *Perspektif* 9: 21-35.

- Prana, T.K., dan Hartanti. 2003. Identifikasi sidik jari DNA talas (*Colocasia esculata* L. Schoot) Indonesia dengan teknik RAPD, skrining primer dan optimalisasi kondisi PCR. *Jurnal Natur Indonesia* 5: 107- 112
- Priyatmojo, A., V.E. Escopalao, Tangonan, N.G., C.B. Pacual, H. Suga, K. Kageyama, and M. Hyakumachi. 2013. Characterization of a new subgroup of *Rhizoctonia solani* anastomosis group 1 (AG-1-ID), causal agent of necrotic leaf spot on coffee. *Ecology and Population Biology* 91: 1057-1061.
- Poerba, Y.S. and D. Martanti. 2008. Keragaman genetic berdasarkan marka random amplified polymorphic DNA pada *Amorphophallus muelleri* Blume di Jawa. *Biodiversitas* 9: 245-249.
- Ramashish, K. 2015. Characterization and application of some plant extracts for controlling important foliar fungal disease of tea. University of North Bengal for the award of doctor of philosophy.
- Rayati, D.J. 2011a. Efektivitas berbagai agensia pengendali hayati terhadap penyakit cacar (*Exobasidium vexans* Masee) pada tanaman teh. 2011. *Jurnal Penelitian Teh dan Kina* 14: 8-15.
- Rayati, D.J. 2011b. Berbagai cara pengendalian non-kimiawi: efektivitas terhadap penyakit cacar (*Exobasidium vexans* Masee) pada tanaman teh. *Jurnal Penelitian Teh dan Kina* 14: 47-58.
- Rayati, D.J. 2012. Efektivitas formulasi fungisida nabati lamtoro, *Leucaena leucocephala* (Lam.) De Wit terhadap penyakit cacar (*Exobasidium vexans* Masee) pada tanaman teh. *Jurnal Penelitian Teh dan Kina* 15: 11-20.
- Rezamela, E., F. Fauziah, dan S. L. Dalimoenthe. 2016. Pengaruh bulan kering terhadap intensitas serangan *Empoasca* sp. dan *blister blight* di kebun teh Gambung. *Jurnal Penelitian Teh dan Kina* 19: 169-178.
- Ross, I.A. 2005. Tea common names and its uses. In *Medical Plants of the World*. 3rd Vol. Humana Press, New Jersey.
- Saberi, H. 2010. Tea: A Global History. Reaktion Book Ltd, London.
- Sen, S., M. Rai, D. Das, S. Chandra, and K. Acharya. 2020. Blister blight a threatened problem in tea industry: a review. *Journal of King Saud University-Science* 32: 3265-3272.
- Singh, S., M. Taneja, and D.K. Majumdar. 2007. Biological activities of *Ocimum sanctum* L. fixed oil-an overview. *Indian Journal of Experimental Biology* 45: 403-412.
- Singh, H.R., M. Deka, and S. Das. 2015. Enhanced resistance to blister blight in transgenic tea (*Camellia sinensis*[L.] O. Kuntze) by overexpression of class I chitinase gene from potato (*Solanum tuberosum*). *Funct Int Genom* 15:461–480. DOI: 10.1007/s10142-015-0436-1
- Rayati, D.J. 2011. Efektivitas berbagai agensia pengendali hayai terhadap penyakit cacar. *Jurnal Penelitian Teh dan Kina* 14: 8-15.
- Tommerup, I.C., J.E. Barton, and P.A. O'Brien. 1995. Reliability of RAPD fingerprinting of three basidiomycete fungi, *Laccaria*, *Hydnangium*, and *Rhizoctonia*. *Mycological Research* 99: 179-186.
- Vilgalys, R., and Gonzales, D. 1990. Ribosomal DNA restriction fragment length polymorphisms in *Rhizoctonia solani*. *Phytopathology* 80:151-158.
- Willson, K.C. and M.N. Clifford .2012. Tea: Cultivation to Consumption. Springer Science & Business Media, Berlin.
- Wu, J.N. 1987. Review on "Cha Ching". Agriculture Press, Beijing.

- Yamanishi, T. 1995. Special issue on tea. *Food Review International* 11: 371-546.
- Yao, M.Z. and L. Chen. 2012. "Tea germplasm and breeding in China," in *Global Tea Breeding: Achievements Challengers and Prospective*, eds. L. Chen, Z. Apostolides, and Z. M. Chen (Hangzhou; Berlin; Heidelberg: Zhejiang University Press; Springer-Verlag), 13–68.
- Zhang, Y., X. Zhang, X. Chen, W. Sun, and J. Li. 2018. Genetic diversity and structure of tea plant in Qinba area in China by three types of molecular markers. *Hereditas* 155-22-34. <https://doi.org/10.1186/s41065-018-0058-4>