

## DAFTAR PUSTAKA

- Agisimanto, D. dan A. Supriyanto. 2007. Keragaman Genetik Pamelo (*Citrus maxima*) Indonesia Berdasarkan Primer Random Amplified Polymorphic DNA. *J. Hort.* 17: 1-7.
- Asra, R. Syamsuardi, Mansyurdin, Witono, J. R. 2014. The study of genetic diversity of *Daemonorops draco* (palmae) using ISSR markers. *BIODIVERSITAS* 15(2): 109-114.
- Badan Pusat Statistik Sumatera Barat. 2022. Produksi Tanaman Buah-Buahan Sayuran Tahunan (Ton), 2022. <https://sumbar.bps.go.id/indicator/55/41/1/produksi-tanaman-buah-buahan-dan-sayuran-tahunan.html>. 11 Desember 2023
- Balitjestro. 2020. *Jeruk Nusantara dan Sebaran Benih Sumber*. Batu, Jawa Timur
- Bardakci, F. 2001. Random Amplified Polymorphic DNA (RAPD) Markers. *Turk J Biol.* 25: 185-196.
- Barrett, S. C. H. 1982. Genetic variation in weeds. In: Biological Control of Weeds with Plant Pathogens (Eds. R.C. Charudattan & H. Lynn Walker). *John Wiley*. New York. 73–98.
- Bidang Pengembangan Produksi Holtikultura (BPPH). 2014. *Standar Operasional Prosedur (SOP) Budidaya Jeruk Siam Banjar*. Dinas Pertanian Dan Peternakan Provinsi Kalimantan Tengah. Kalimantan Tengah.
- Bustaman, M. & Moeljopawiro, S. 1998. Utilization of DNA Fingerprint Technology in Agriculture. *Zuriant* 9: 77-90.
- Cahyono, Bambang. 2005. *Budidaya Jeruk Mandarin (Keprok, Siam dan Jepan)*. Jakarta : Yayasan Pustaka Nusantara.
- Cevik, M. S. and G. A. Moore. 2007. Construction Of A Genetic Linkage Map Of Citrus With Random Amplified Polymorphic DNA (RAPD) Markers Using A Progeny Population From A Complex Intergeneric Cross. *Turk J Bot.* 31: 79-86.
- Das, A., Mondal, B., Sarkar, J., & Chaudhuri, S. 2004. RAPD profiling of some elite clones of mandarin orange (*Citrus reticulata Blanco*) in the North Eastern Himalayan Region of India. *The Journal of Horticultural Science and Biotechnology*, 79(6), 850-854.
- Dayarani, M. & Dhanarajan, M. S. 2014. Diversity and Phylogenetic Analysis of the Genus *Musa*. *International Journal of ChemTech Research* 6(4): 2357-2762.

- Devy, N.F., and Hardiyanto. 2017. Keragaman Jeruk Gunung Omeh (*Citrus nobilis* Lour.) di Sumatera Barat Berdasarkan Marka *J. Hort.* Vol. 27 No. 2, Desember 2017 : 155-164
- Dimyati, A. 2005. *Prospek dan arah pengembangan agribisnis jeruk. Badan Penelitian dan Pengembangan Pertanian*. Kementerian Pertanian Republik Indonesia. Jakarta
- Direktorat Jenderal Hortikultura. 2022. *Statistik Hortikultura Tahun 2022*. Departemen Pertanian.
- Doyle, J. J. and J. L. Doyle. 1987. A rapid DNA isolation procedure for small quantities of fresh leaf tissue. *Phytochem. Bull.*, 19: 11-15.
- El-Mouei, R., W. Choumane and F. Dway, 2011. Characterization and estimation of genetic diversity in Citrus rootstocks. *Int. J. Agric. Biol.*, 13: 571–575.
- FAO. 2021. *Citrus Fruit Statistical Compendium 2020*. Rome.
- Farchiyah, E.L., Arumingtyas, S., Widjarti., Rahayu S. 2016. *Biologi Molekuler: Prinsip dasar analisis*. Jakarta: Penerbit Erlangga.
- Finkeldey, R. 2005. *An Introduction To Tropical Forest Genetics: Molekuler Basic The Gene As A Function Unit*. Institute Of Forest Genetics And Forest Tree Breeding. Germany.
- Frankham, R. 1996. Relationship of Genetic Variation to Population Size in Wildlife. *Conserv. Biol.* 10: 1500-1508.
- Furlan, E. J. Stoklosa, J. Griffith, N. Gust, R. Ellis, R. M., Huggins, and A. R. Weeks. 2011. Small Population Size and Extremely Low Levels of Genetic Diversity in Island Populations of the Platypus, *Ornithorhynchus anatinus*. *Ecology and Evolution*. 844-857.
- Giacomazzi, S., F. Lerol and J.J. Joffraud. 2005. Comparison of three methods of DNA extraction from cold-smoked salmon and impact of physical treatments. *Journal of Applied Microbiology*. 98: 1230–1238.
- Golein, B, Bigonah, M, Azadvar, M & Golohammadi, M 2012, ‘Analysis of genetic relationship between ‘Bakraee (*Citrus* sp.) and some known citrus genotype through SSR and PCRRFLP markers’, *Scientia Hoticulturae*, vol. 148, pp. 147-53.
- Grattapaglia, D. 2007. Marker-Assisted Selection in Eucalyptus. In: Current Status and Future Perspectives in Crops, Livestock, Forestry, and Fish. Eds: Guimaraes EP, Ruane J, Scherd BD, Sonnino A, Dargie JD. *Food and Agriculture Organization of the United Nations*. Rome. 252-281.

- Hadrys, H., M. Balick and B. Schierwater. 1992. Applications of Random Amplified Polymorphic DNA (RAPD) in molecular ecology. *Molecular Ecology*, 1: 55-63.
- Hamilton, M. B. 2009. *Population genetics*. Wiley-Blackwell. Hoboken, USA.
- Hanafi, P. 2020. Karakterisasi Morfologi Organ Generatif Tanaman Jeruk Siam (*Citrus nobilis* L.) di Dua Sentra Lokasi yang Berbeda. *Skripsi*. Program Studi Agroteknologi Universitas Islam Negeri Sultan Syarif Kasim Riau.
- Handoyo, D., Rosmaina, Zulfahmi. 2013. Kekerabatan Genetik Tanaman Jambu Bol (*Syzygium malaccense* (L.) Merr. & Perry) Berdasarkan Penanda RAPD (Random Amplified Polymorphic DNA). *J. Agrotek. Trop.* 2(1): 6-10.
- Harahap, J., H. Fauzana dan A. Sutikno. 2017. Jenis dan Populasi Hama Lalat Buah (Bactrocera Spp.) pada Tanaman Jeruk (*Citrus nobilis* Lour) di Desa Kuok Kecamatan Kuok Kabupaten Kampar. *Jom Faperta*, 4 (1): 1-2.
- Horrison, I., Laverty, and E. Sterling. 2004. *Genetic Diversity*: Connexions Module: m12158.
- Karsinah, Sudarsono, S. Lilik dan A. Hajrial. 2002. Keanekaragaman Genetik Plasma Nutfah Jeruk Berdasarkan Analisis Penanda RAPD. *J. Bioteknologi Pertanian*. 1: 8-16.
- Kawar, P. G., Devarumath, R. M., & Nerkar, Y. 2009. Use of RAPD Marker for Assessment of Genetic Diversity in Sugarcane Cultivar. *Indian Journal of Biotechnology* 8: 67-71.
- Keller, L. F. & Waller, D. M. 2002. Inbreeding Effects in Wild Populations. *Trends Ecol Evol* 17: 230-241.
- Kumar. N. S and G. Gurusubramanian. 2011. Random amplified polymorphic DNA (RAPD) markers and its Applications. *Sci Vis* 11: 116-124.
- Laikre, L. 2010. Genetic Diversity is Overlooked in International Conservation Policy Implementation. *Conserv. Genet.* 11: 349-354.
- Latta, R. G., & Mitton, J. B. (1997). A comparison of population differentiation across four classes of gene marker in limber pine (*Pinus flexilis* James). *Genetics*, 146(3), 1153-1163.
- Lim, L.S, R. Wickneswari, S. L. Lee and A. Latif. 2002. Genetic variation of *Dryobalanops aromatica* Gaertn. F. (Dipterocarpaceae) in Peninsular Malaysia using microsatellite DNA markers. *Forest Genetics* 9 : 125- 136.
- Lizawati, Nusifera, S., Neliyati, Alia, Y., Antony. 2019. RAPC-PCR Primer Selection to Analyze Genetic Diversity of Cinnamon Plan. *Earth and Environmental Science* 391: 1-7.

- Lowe AJ, Harris SA, Ashton P. 2004. *Ecological Genetics: Design, Analysis and Application*. Blackwell. Oxford, UK. 326.
- Lv, X., S. Zhao, Z. Ning, H. Zeng, Y. Shu, O. Tao, C. Xiao, C. Lu and Y. Liu. 2015. Citrus Fruits As A Treasure Trove Of Active Natural Metabolites That Potentially Provide Benefits For Human Health. *Chemistry Central Journal*. 68: 2-14.
- Martasari C., Supriyanto A., Hardianto, Agisimanto D., Mulyanto H. 2004. Keragaman jeruk siam di Indonesia. *Heterogenic of tangerine cv Siam (Citrus suhuensis Tan) in Indonesia*. Prosiding seminar jeruk siam nasional. Surabaya, 15-16 Jun 2004.
- Martasari, C., Karsinah Karsinah, and Reflinur Reflinur. 2012. *Characterization of Indonesian'Siam'cultivar (Citrus nobilis Lour.) by morphological and ISSR markers* : 830-835.
- Menteri Pertanian (MENTAN). 2008. Deskripsi jeruk Varietas Gunuang Omeh SK. Mentan nomor 79/Kpts/SR.120/1/2008.
- Mollah, A., Ashan, M.A., Khatimah, A.H. 2022. Uji Kualitas dan Kuantitas DNA Porang (*Amorphophallus Muelleri Blume*) pada Beberapa Kawasan di Sulawesi Selatan. *Jurnal Agritechno*, Vol. 15, No. 01.
- Montalvo, A.M., S.G. Conard, M.T. Conkle and P.D. Hodgskiss. 1997. Population Structure, Genetic Diversity, And Clone Formation In *Quercus chrysolepis* (Fagaceae). *America Journal of Botany*. 84: 1553-1564.
- Muhajirah, E., Kamal, M. M., Butet, N. A., Wibowo, A. 2021. Keragaman genetik populasi giant snakehead (*Channa micropeltes*) menggunakan penanda random amplified polymorphic dna di perairan taman nasional sebangau, Kalimantan Tengah. *Journal of Natural Resources and Environmental Management* 11(1): 141-151.
- Mulyani, Z., 2017. Variasi Genetik Tanaman Jeruk Siam (*Citrus nobilis* Lour. Var. *microcarpa* Hassk) di Sentra Budidaya Gunuang Omeh Kenagarian Koto Tinggi Berdasarkan Analisis Random Amplified Polymorphic DNA (RAPD). *Skripsi Program Studi Biologi*. Universitas Andalas. Padang.
- Na’iem, M. 2000. *Training course on basic forest genetics: Characteristic of forest genetic variation*. Fakultas Kehutanan Universitas Gajah Mada. Yogyakarta.
- Nei, M. 1978. Estimation of average heterozygosity and genetic distance from a small number of individuals. *Genetics* 89(3): 583-590.
- Nei, M. 1987. *Molecular Evolutionary Genetics*. Columbia University Press. New York.

- Nicolosi, E., Z. N. Deng, A. Gentile, S. L. Malfa, G. Continella and E. Tribulato. 2000. Citrus phylogeny and genetic origin of important species investigated by molecular markers. *Theor Appl Genet* 100:1155–1166.
- Nurasa, Tjetjep dan Deri Hidayat. 2011. *Analisis usahatani dan keragaan marjin pemasaran jeruk di Kabupaten Karo*. Bogor: Pusat Penelitian dan Pengembangan Sosial Ekonomi Kebijakan Pertanian Badan Litbang pertanian.
- Oliveira R. P., M. Cristofani and M.A. Machado. 2005. Integrated Genetic Map Of Citrus Based On RAPD Markers. *Fruits*. 60: 187-193.
- Pal, D., S. K. Malik, K. Susheel, C. K. C Ravish, Sharma and C. Rekha. 2013. Genetic Variability and Relationship Studies Of Mandarin (*Citrus reticulata* 35 Blanco) Using Morphological and Molecular Markers. *Agric Res.* 2: 236- 245.
- Prayitno, E and E. Nuryandani. 2011. Optimazation of DNA Extraction of Physic Nut (*Jatropha curcas*) by Selecting The Appropriate Leaf. *Bioscience*. 3: 1-6
- Probojati, R. T., Wahyudi, D., Hapsari, L. 2019. Clustering analysis and genome inference of pisang raja local cultivars (*Musa* spp.) from java island by random amplified polymorphic DNA (RAPD) marker. *Journal of Tropical Biodiversity and Biotechnology* 4(2): 42-53.
- Qiao, Y., B. J. Xie, Y.Zhang, Y. Zhang, G. Fan, X. L. Yao and S.Y. Pan. 2008. Characterization of Aroma Active Compounds in Fruit Juice and Peel Oil of Jinchen Sweet Orange Fruit (*Citrus sinensis* (L.) Osbeck) by GC-MS and GC-O. *Molecules* 13: 1333-1344.
- Rahayu, E. S., dan S. Handayani. 2010. Keragaman Genetik Pandan Asal Jawa Barat Berdasarkan Penanda Inter Simple Sequence Repeat. *Makara Sains* 14: 158-162
- Ramana, K. V. R., V. S. Govindarajan, S. Ranganna and J. F. Kefford. 1981. Citrus fruits-varieties, chemistry, technology, and quality evaluation. Part I: Varieties, production, handling, and storage. *Comprehensive Reviews in Food Science and Food Safety*. 15: 353-431.
- Rivers, M. C., Brummitt, N. A., Lughadha, E. N., Meagher, T. R. 2011. Genetic Variation in Delonix s.l. (Leguminosae) in Madagascar Revealed by AFLPs: Fragmentation, Conservation Status and Taxonomy. *Conserv. Genet.* 12: 1333-1344
- Rizko, N., Kusumaningrum, H. P., Ferniah, R. S., Pujiyanto, S., Erfianti, T., Mawarni, S. N., & Khairunnisa, D. 2020. Isolasi DNA daun jeruk bali merah (*Citrus maxima* Merr.) dengan modifikasi metode Doyle and Doyle. *Berkala Bioteknologi*, 3(2).
- Sambrook, J., E.F. Fritsch, T. Maniatis. 1989. *Molecular Cloning Laboratory Manual 3rd Ed.* New York : Cold Spring Harbour Lab. Press.

- Sankar, T. G., V. Gopi, B. Deepa and K. Gopal. 2014. Diversity Analysis of Sweet Orange (*Citrus sinensis osbeck*) varieties/clones through RAPD markers. *Int.J.Curr.Microbiol.App.Sci.* 3: 75-84.
- Shannon C. E. and W. Weaver. 1963. *The Mathematical Theory of Communication*. University of Illinois Press, Urbana.
- Shahzadi, K., Naz, S., & Ilyas, S. (2016). Genetic diversity of citrus germplasm in Pakistan based on random amplified polymorphic DNA (RAPD) markers. *JAPS: Journal of Animal & Plant Sciences*, 26(4).
- Sinha, B., Islam, M.M., Bhuiyan, F.H., Hasan, M.N., Kibria, M.G., Sultana, R., Prodhan, S.H., Hoque, H. 2022. Determination of Genetic Diversity among Local Mandarin Orange *Citrus reticulata* Using Mature Seed Derived Calli Through RAPD Markers. *SUST J Sci Tech*. Vol 32(1) 2022, 43 – 52
- Sitepu, A. F., Bayu, E. S., & Siregar, L. A. M. 2015. Analisis pola pita beberapa genotipe kurma (*Phoenix dactylifera L.*) menggunakan primer RAPD. *Jurnal online Agroekoteknologi.[Online]*, 7(3), 502-507.
- Sugawara K., T. Wakizuka, A. Oowada, T. Moriguchi and M. Omura. 2002. Histogenic Identification by RAPD Analysis of Leaves and Fruit of Newly Synthesized Chimeric Citrus. *J. Amer. Soc. Hort. Sci.* 127: 104–107.
- Sulistyawati, P., & Widyatmoko, A. Y. P. B. C. 2017. Keragaman Genetik Populasi Kayu Merah (*Pterocarpus Indicus Willd*) Menggunakan Penanda Random Amplified Polymorphism Dna. *Jurnal Pemuliaan Tanaman Hutan*, 11(1), 67-76.
- Sundari, Arumingtyas, E. L., Hakim, L., Azrianingsih, R., and Wahyudi, D. 2017. Genetic Variability of Local Durian (*Durio zibethinus murr.*) in Ternate Island Based on RAPD Markers. *Plant Cell Biotechnology and Molecular Biology* 18: 68-75.
- Swingle W.T. 1967. The botany of citrus and its wild relatives. In: Reuther W., Webber H.J. and Batchelor L.D. (eds.) *The Citrus Industry*, vol. 1 University of California Press, Berkeley, CA. USA. 389–390.
- Syamsuardi, Jamsari and D. Pohan. 2008. Genetic Variation within Population and Gene Flow between Populations of *Morus macroura* Miq. var. macroura in West Sumatra. Presented paper in The Sixth Regional IMT-GT Uninet Conference. Penang.
- Tobing, D.M.A.L., Bayu E.S., Siregar L.A.M. 2013. Identifikasi Karakter Morfologi Dalam Penyusunan Deskripsi Jeruk Siam (*Citrus nobilis* Lour.) di Beberapa Daerah Kabupaten Karo. *Jurnal Online Agroteknologi*. Vol.2, No.1: 72-85.
- Utama, M.S. 2015. Penanganan Pasca Panen Buah dan Sayuran Segar. Di dalam: Forum Konsultasi Teknologi Dinas Pertanian Tanaman Pangan Provinsi Bali. Denpasar (Vol. 21).

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 Acid Res.* 18: 6531-6535.

Wright, S. 1978. *Evolution and the Genetics of Populations, Vol. IV. Variability Within and Among Natural Populations*. University of Chicago Press, Chicago. 355

Xu, L., Xue, H., Song, M., Zhao, Q., Dong, J., Liu, J., Guo, Y., Xu, T., Cao, X., Wang, F., Wang, S., Hao, S., Yang, H., Zhang, Z. 2013. Variation of Genetic Diversity in Rapidly Expanding Population of the Greater Long-Tailed Hamster (*Tscherskia triton*) as Revealed by Microsatellites. *PLOS ONE* 8(1): 1-9.

Yeh, F. C., R. C. Yang and T. Boyle. 1997. *POPGENE, the user-friendly shareware for population genetic analysis*. Molecular Biology and Biotechnology Centre University of Alberta, Canada.

Yulita, K. S., & Partomihardjo, T. 2011. Keragaman Genetika Populasi Pelahlar (*Dipterocarpus littoralis* (Bl.) Kurz) Di Pulau Nusakambangan Berdasarkan Profil Enhanced Random Amplified Polymorphic DNA. *Berita Biologi*, 10(4), 541-548.

