

DAFTAR PUSTAKA

- Aci, M. M., A. Lupini, G. Badagliacca, A. Mauceri, E. L. Presti, and G. Preiti. 2020. genetic diversity among *Lathyrus* ssp. based on agronomic traits and molecular markers. *Agronomy* 10(1182): 1-15.
- Almontero, C. C., A. G. Lalusin, M. G. Q. Diaz, E. T. M. Ocampo, and J. E. Hernandez. 2022. Fingerprinting of Philippine waling-waling (*Vanda sanderiana* Rchb.f.) accessions using Simple Sequence Repeat (SSR) markers. *Philippine Journal of Crop Science* 47(2): 1-17.
- Anonim. 2022. *Hoya diversifolia* Blume. A Singapore Government Agency Website. <<https://www.nparks.gov.sg>>. Diakses pada 17 April 2025.
- Arif, I. A. and H. A. Khan. 2009. Molecular markers for biodiversity analysis of wildlife animals: a brief review. *Animal Biodiversity and Conservation* 32(1): 9– 17.
- Ashry, N. A. 2013. *Plant biodiversity and biotechnology*. Woodhead Publishing Limited, Egypt.
- Asif, S., M. Khan, M. W. Arshad, and M. I. Shabbir. 2021. PCR optimization for beginners: a step by step guide. *Res Mol Med* 9(2):81-102.
- Baltazar, A. M. P. and I. E. Bout. 2019. Controversies on *Hoya* R. Br. taxonomy. *The Thailand Natural History Museum Journal* 13(1): 59-68.
- Basir, S., N. Talip, H. Bunawan, and R. A. Rahman. 2024. Anatomical and histochemical analysis of *Hoya pentaphlebia* MERR. *Flower: Insights into Structure and Chemical Composition*. *Malaysian Applied Biology* 53(6): 105-114.
- Burton C. M. 1992. Where are *Hoyas* native. *The Hoyan* 13(3):40.
- Castillo, A., H. Budak, R. K. Varshney, G. Dorado, A. Graner, and P. Hernandez. 2008. Transferability and polymorphism of barley EST-SSR markers used for phylogenetic analysis in *Hordeum chilense*. *BMC Plant Biology* 8(97): 1-9.
- Chen, Z., Y. Deng, R. Zhou, and S. He. 2016. Development of transcriptome-derived SSR markers for *Hoya ledongensis* (Apocynaceae) and cross-amplification in a congener. *Applications in Plant Sciences* 4(9): 1-4.
- Collard, B.C.Y., M. Z. Z. Jahufer, J. B. Brouwer, and E. C. K. Pang. 2005. An introduction to markers, quantitative trait loci (QTL) mapping and marker-assisted selection for crop improvement: The basic concepts. *Euphytica* 142: 169-196.

- Conrad, S., A. G. Kanegusuku, and S. E. Conlin. 2023. Taking a step back from testing: Preanalytical considerations in molecular infectious disease diagnostics. *Clinical Biochemistry* 115: 22-32.
- Cornea-Cipigan, M. D. Pamfil, C. R. Sisea, and R. Margaoan. 2023. Characterization of *Cyclamen* genotypes using morphological descriptors and DNA molecular markers in a multivariate analysis. *Frontiers* 14:1-15.
- Don, G. 1837. *Hoya verticillata*. *Gen. Hist* 4(128):10-12.
- Doyle, J.J. and J. L. Doyle. 1987. A rapid DNA isolation procedure for small quantities of fresh leaf tissue. *Phytochemical Bulletin* 19(1): 11-15.
- Drury, C. H. 1873. *The Useful Plant of India*. William IL Allen and Co, London.
- Ehlers, B. K., C. F. Damgaard, F. Laroche. 2016. Intraspecific genetic variation and species coexistence in plant communities. *Biology Letters* 12(20150853):1-7.
- Elshafei. A. A., E. I. Ibrahim, K. F. Abdellatif, A. E. K. Salem, K. A. Moustafa, A. A. Al-Doss, H. M Migdadi, A. M. Hussien, W. Soufan, T. A. E. Rahman, and S. M. Eldemery. 2024. Molecular and agro-morphological characterization of new barley genotypes in arid environments. *BMC Biotechnology*. 24(41): 1-14.
- Endress, P. K. 2016. Development and evolution of extreme synorganization in angiosperm flowers and diversity: a comparison of Apocynaceae and Orchidaceae. *Annals of Botany* 117:749-767.
- Farchiyah, E.L., Arumingtyas, S., Widyarti., dan Rahayu S. 2016. *Biologi Molekuler: Prinsip dasar analisis*. Penerbit Erlangga, Jakarta.
- Field, D., and Wills, C. 1996. Long, polymorphic microsatellites in simple organisms. *Proceedings of the Royal Society B: Biological Sciences* 263(1367): 209–215.
- Ford, R., E.C.K. Pang & P.W.J. Taylor, 1999. Genetics of resistance to ascochyta blight (*Ascochyta lentis*) of lentil and the identification of closely linked RAPD markers. *Theor Appl Genet* 98: 93–98.
- Green, M. R. and J. Sambrook. 2019. *Polymerase Chain Reaction*. Cold Spring Harbor Laboratory Press 6: 436-456.
- Hafiz, P., Dorly, dan S. Rahayu. 2013. Karakteristik anatomi daun dari sepuluh spesies *Hoya* sukulen serta analisis hubungan kekerabatannya. *Buletin Kebun Raya* 16(1): 58-73.

- Handayani, F., R. A. Wulandari, and R. H. Murti. 2016. Genomic DNA extraction method from mature leaf of lai (*Durio kutejensis* Becc.). *Agrivita* 38(1): 73-79.
- Handoyo, D. dan A. Rudiretna. 2000, Prinsip umum dan pelaksanaan Polymerase Chain Reaction (PCR). *Unitas* 9(1): 17-29.
- Hikmatyar, M.F., Royani, J.I., Dasumiati. 2015. Isolasi dan amplifikasi dna keladi tikus (*Thyponium flagelliform*) untuk identifikasi keragaman genetik, *Jurnal Bioteknologi dan Biosains Indonesia* 2(2): 42-48.
- Ishmael, F. T. and C. Stellato. 2008. Principles and applications of Polymerase Chain Reaction: basic science for the practicing physician. *Ann Allergy Asthma Immunol* 101(4): 437-443.
- Jones, M. M., N. S. Nagalingum, and V. M. Handley. 2023. Testing protocols to optimize DNA extraction from tough leaf tissue: A case study in *Encephalartos*. *Appl. Plant Sci* 11(3): 1-9.
- Knisely, A.S. 2003. Progressive familial intrahepatic cholestasis: an update. *Pediatric and Developmental Pathology* 7(4): 309-314.
- Lamb, A. and Rodda, M. 2016. *A Guide to Hoyas of Borneo*. Kota Kinabalu: Natural History Publications (Borneo), Malaysia.
- Lamb, A., Rodda, M., Gokulsing, L., Bosuang, S., and Rahayu, S. 2016. *A Guide to Hoyas of Borneo*. Borneo: Natural History Publications.
- Li, C., Wu, J., Li, Q., Yang, Y., and Zhang, K., 2022. Development of simple sequence repeat markers from functional genes and establishment of molecular identity for tree peony. *Journal of Plant Biochemistry and Biotechnology* 31: 22-36.
- Lorico, C. H., C. C. Almontero, A. G. Lalusin, R. P. Gentallan Jr., and M. L. D. Guevarra. 2024. Cross amplification of SSR markers to selected Philippine native wax plants (*Hoya* R. Br.) species. *International Journal of Agricultural Technology* 20(4): 1463-1482.
- Mason, A. S. 2014. SSR Genotyping. *Methods in Molecular Biology* 1245: 77-89.
- Mayrantie, M., T. M. Fernando, dan R. Herawatiningsih. 2021. Inventarisasi tumbuhan *Hoya* (Apocynaceae) dalam kawasan Hutan Lindung Kecamatan Jangkang Kabupaten Sanggau. *Jurnal Hutan Lestari* 9(3): 457-465.
- Meirmans, P. G. 2012. AMOVA-based clustering of population genetic data. *Journal of Heredity* 103(5): 744-750.

- National Library of Medicine. *Hoya* Taxonomic Name. National Center for Biotechnology Information (NCBI). <<https://www.ncbi.nlm.nih.gov>>. Diakses pada 18 November 2024.
- Nei, M. and W. Li. 1979. Mathematical model for studying genetic variation in terms of restriction endonucleases. *Proc. Natl. Acad. Sci.* 76(10):5269–5273.
- O’Neill, S.L., R. Giordano, A.M.E. Colbert, T.L. Karr and H.M. Robertson (1992). 16S rRNA phylogenetic analysis of the bselial endosymbionts associated with cytoplasmic of in frame chimeric plant viral genes by simplified PCR strategies. *Plant Mol. Biol* 19: 517-22
- Omlor, R. 1996. Notes on Marsdenieae (Asclepiadaceae): a new, unusual species of *Hoya* from Northern Borneo. *Novon* 6(3): 288-294.
- Oujaja, M. B. A. Bahri, L. Aouini, S. Ferjaoui, M. Medini, T. C. Marcel, and S. Hamza. 2021. Morphological characterization and genetic diversity analysis of Tunisian durum wheat (*Triticum turgidum* var. *durum*) accessions. *BMC Genomic Data* 22(3): 1-17.
- Pahlevi, T. R., R. Buaton, dan Nurhayati. 2021. Identifikasi jenis bunga menggunakan ekstraksi ciri orde satu dan algoritma multi support-vector machines (MULTISVM). *JIK* 5(1): 116-128.
- Peakall, R. O. D. and P. E. Smouse. 2006. Genalex 6: Genetic analysis in excel. population genetic software for teaching and research. *Mol. Ecol. Notes* 6: 288–295.
- Pertiwi, N. P. D., I. G. N. K. Mahardika, dan N. L. Watiniasi. 2015. Optimasi amplifikasi dna menggunakan metode PCR (*Polymerase Chain Reaction*) pada ikan karang anggota famili Pseudochromidae (dotyback) untuk identifikasi spesies secara molekular. *Jurnal Biologi* 19(2): 53
- Pradhan A., M. N. Nelson, J. A. Plummer, W. A. Cowling, and G. Yan. 2011. Characterization of *Brassica nigra* collections using simple sequence repeat markers reveals distinct groups associated with geographical location, and frequent mislabelling of species identity. *Genome* 54: 50-63.
- Rahayu, S. 2006. Keanekaragaman jenis *Hoya* (Asclepiadaceae) di Hutan Lindung Bukit Batikap, Kalimantan Tenga. *Biodiversitas* 7(2): 139-142.
- Rahayu, S. 2013. Use of local plant diversity as bioinsecticide on rice farm to produce saver food: A lesson from Dayak people in Kalimantan, Indonesia. *Proceedings of*

the 12th Science Council of Asia (SCA) Conference and International Symposium: 149-157.

- Rahayu, S. 2021. Konservasi Biodiversitas dan Pemanfaatan Berkelanjutan *Hoya* Indonesia. LIPI Press, Jakarta.
- Rahayu, S., R.P. P. Ahmad, and M. Rodda. 2022. *Hoya* of Sulawesi, Indonesia: A checklist, two new species, a new subspecies and six new records. *Gardens' Bulletin Singapore* 74(2): 207-221.
- Rintz, R. E. 1978. The Peninsular Malaysian species of *Hoya* (Asclepiadaceae). *Malayan Nature Journal* 30(34): 467-522.
- Royal Botanic Garden Kew. 2023. *Hoya diversifolia*. POWO. <powo.science.kew.org>. Diakses pada 15 April 2025.
- Sambrook, J. and D.W. Russell. 2001. *Molecular Cloning, A Laboratory Manual*. 3rd edition. Cold Spring Harbor Laboratory Press, New York.
- Sareen, A., V, Sharma, and R. C. Gupta. 2023. Assessment of genetic diversity and population structure in wild *Ziziphus* species from northwest India using SSR marker technique. *Journal of Genetic Engineering and Biotechnology* 21(4): 1-11.
- Schlotter C and D. Tautz. 1992. Slippage synthesis of simple sequence DNA. *Nucleic Acids Research* 20: 211–215.
- Schmidt, F. H., and J.H. Ferguson. 1951. Rainfall types based on wet and dry period ratios for Indonesia. *DJKM Meteorology and Climatology* 42:1–15.
- Semagn, A., A. Bjornstad, and M. N. Ndjiodjop. 2006. An overview of molecular marker methods for plants. *African Journal of Biotechnology* 5(25): 2541- 2568.
- Shah, N.J. 2019. Polymerase Chain Reaction. In: Raj, G., Raveendran, R. (eds) *Introduction to Basics of Pharmacology and Toxicology*. Springer, Singapore
- Shannon, C. E. and W. Weaver. 1949. *The Mathematical Theory of Communication*. University of Illinois Press, United State.
- Siallagan, C. S., M. Syafi'I, M. Y. Samaullah, U. Susanto, E. F. Pramudyawardani, dan D. Prastika. 2022. Visualisasi gel akrilamida sidik jari DNA 49 genotipe padi (*Oryza sativa* L.) menggunakan marka SSR (*Simple Sequence Repeat*). *Jurnal Ilmiah Wahana Pendidikan* 8(8): 32-38.
- Simpson, M. G. 2019. *Plant Systematics (Third Edition)*. Academic Press, USA.

- Sitepu, A. F., E. S. Bayu, dan L. A. M. Siregar. 2019. analisis pola pita beberapa genotipe kurma (*Phoenix dactylifera* L.) menggunakan primer RAPD. Jurnal Online Agroekoteknologi 7(3): 502-507.
- Soeharsono. 2022. *Hoya* Puspa Handayani. Sumber Daya Genetik Tanaman Pangan & Hortikultura Kabupaten Gunungkidul. Badan Penelitian dan Pengembangan Pertanian. Yogyakarta. <<https://kikomunal-indonesia.dgip.go.id>>. Diakses pada 17 April 2025.
- Sulaeman, M., Sulistijorini, and S. Rahayu. 2019. Habitat suitability for *Hoya* spp. (Apocynaceae) in the Bodogol conservation area, West Java. Biosaintifika 11(1): 91-99.
- Supatha, N. O. 2000, Fungsi tumbuh-tumbuhan dalam upacara agama Hindu. Prosiding Seminar Nasional Etnobotani III. Denpasar: 11-19.
- Suteu, D., M. Puscas, I. Bacila, Z. R. Balazs, and P. Choler. 2024. cross-species transferability of specific SSR markers from *Carex curvula* (Cyperaceae) to other carex species. Diversity 16(73): 1-10,
- Terryana, R. T., K. Nugroho, H. Rijzaani, dan P. Lestari. 2018. Karakterisasi keragaman genetic 27 genotipe cabai berdasarkan marka SSR (*Simple Repeat Sequence*). Jurnal Ilmu-ilmu Hayati 17(20): 183-194.
- Topinka, J. R., A. J. Donovan, and B. May. 2004. Characterization of microsatellite loci in kearney's bluestar (*Amsonia kearneyana*) and cross-amplification in other Amsonia species. Molecular Ecology Notes 4: 710-712.
- Ullah, A., Z. Akram, S. I. Malik, and K. S. U. Khan. 2021. Assessment of phenotypic and molecular diversity in soybean [*Glycine max* (L.) Merr.] germplasm using morpho-biochemical attributes and SSR markers. Genet. Resour. Crop Evol. 68: 2827-2847.
- Veldkamp, J. F. and B. Hansen. 1996. New combinations under *Hoya verticillata* (Asclepodaceae) and a bibliographical note on sperlingia. Blumea: Biodiversity, Evolution and Biogeography of Plants 41(2): 439-442.
- Wanntorp, L. and H. Kunze. 2009. Identifying synapomorphies in the flowers of *Hoya* and dischidia-toward phylogenetic understanding. Int. J. Plant Sci 170(3): 331-342.

- Westoby M., M. R. Leishman, J. M. Lord. 1995. On Misinterpreting the “Phylogenetic Correction”. *Journal of Ecology* 83(3) 531-534
- Widiarsih, S., S. V. Siar, and A. G. Lalusin. 2011. Optimization of DNA extraction protocol for *Hoya mindorensis* Schlechter. *Phillippine Journal of Crop Science* 36(2): 63-66.
- Widiarsih, S., S. V. Siar, and A. G. Lalusin. 2014. Molecular characterization of *Hoya mindorensis* Schlechter by Microsatelite Marker. *Phillippine Journal of Crop Science* 39(2): 58-64.
- Winter, P. and G. 1995. Kahl. Molecular marker technologies for plant improvement. *World J Microbiol Biotechnol* 11(4): 438-448.
- Yang, D. S., S. V. Pennisi, Son K. C., S. J. Kaysl. 2009. Screening indoor plants for volatile organic pollutant removal efficiency. *Hortscience* 44 (5): 1377-1381.
- Zulfahmi. 2013. Penanda DNA untuk analisis genetik tanaman. *Jurnal Agroteknologi* 3(2): 41-52.
- Zuur, A. F., E. N. Ieno, and G. M. Smit. 2007. *Analysing Ecological Data*. Springer, United Kingdom.
- Kurniawan, A., T. P. Anjani, E. Lestari, M. S., M. Ichsan, R. Apriyani, A. M. Safitri, I. P. N. I. K. Almagribi, A. F. Syarif, dan A. Kurniawan. 2022. Optimasi suhu annealing untuk amplifikasi gen COI pada ikan ekstremofil menggunakan PCR. *Journal of Aquatropica Asia* 7(2): 101–110.
- Freudenreich, C. H., J. Kantrow, and S. M. Zakian. 1997. Stability of CTG/CAG trinucleotide repeats in *Saccharomyces cerevisiae*: role of replication and sequence orientation. *Molecular and Cellular Biology* 17(4): 2096–2106.
- Aryana. 2007. Uji Keseragaman, Heritabilitas dan Kemajuan Genetik Galur Padi Beras Merah Hasil Seleksi Silang Balik di Lingkungan Gogo. Universitas Mataram.