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DAFTAR PUSTAKA

Adiga, D. J., Veena, G. L., Thondaiman, V., & Babli, M. (2020). An overview of canopy management in cashew (*Anacardium occidentale* L.). *Journal of Horticultural Sciences*, *15*(2), 127–135.

Adu-Gyamfi, P. K. K., Barnor, M., Akpertey, A., Dadzie, A. M., Anyomi, E., Osei-Akoto, S., & Padi, F. (2021). Broadening the Gene Pool of Cashew (*Anacardium occidentale*) for Survival and Precocity. *Agricultural Research*, *10*(4), 613–625. Scopus. https://doi.org/10.1007/s40003-020-00521-z

Ahmad, R., Malik, W., & Anjum, M. A. (2019). Genetic Diversity and Selection of Suitable Molecular Markers for Characterization of *Indigenous Zizyphus* Germplasm. *Erwerbs-Obstbau*, *61*(4), 345–353. https://doi.org/10.1007/s10341-019-00438-0

Aidoo, R., Kwofie, E. M., & Ngadi, M. O. (2022). Circularity of Cashew Apples: Examining the Product-Process Pathways, Techno-Functional, Nutritional/Phytomolecular Qualities for Food Applications. *ACS Food Science and Technology*, *2*(7), 1051–1066. Scopus. https://doi.org/10.1021/acsfoodscitech.2c00093

Akyereko, Y. G., Yeboah, G. B., Wireko-Manu, F. D., Alemawor, F., Mills-Robertson, F. C., & Odoom, W. (2023). Nutritional value and health benefits of cashew apple. *JSFA Reports*, *3*(3), 110–118. Scopus. https://doi.org/10.1002/jsf2.107

Al-Gharaibeh, M. M., Hamasha, H. R., Rosche, C., Lachmuth, S., Wesche, K., & Hensen, I. (2017). Environmental gradients shape the genetic structure of two *Medicinal salvia* species in Jordan. *Plant Biology*, *19*(2), 227–238. Scopus. https://doi.org/10.1111/plb.12512

Aliyu, O. & Mashood. (2006). Application of tissue culture to cashew (*Anacardium occidentale* L.) breeding: An appraisal. *African Journal of Biotechnology*, *4*, 1485–1489.

Aliyu, O. M., & Awopetu, J. A. (2007). Multivariate analysis of cashew (*Anacardium occidentale* L.) germplasm in Nigeria. *Silvae Genetica*, *56*(3–4), 170–179. https://doi.org/10.1515/sg-2007-0026

Aliyu, O. M., & Awopetu, J. A. (2011). Variability study on nut size and number trade-off identify a threshold level for optimum yield in cashew (anacardium occidentale L.). *International Journal of Fruit Science*, *11*(4), 342–363. Scopus. https://doi.org/10.1080/15538362.2011.630297

Amirthavinayagam, N., & Meenakshi, K. (2025). Harnessing the Deep Learning techniques in Cashew plant disease management. *Int. Conf. Comput. Robot., Test. Eng. Eval., ICCRTEE*. International Conference on Computational Robotics, Testing and

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Engineering Evaluation, ICCRTEE 2025. Scopus. https://doi.org/10.1109/ICCRTEE64519.2025.11052970

Archak, S., Gaikwad, A. B., Gautam, D., Rao, E. V. V. B., Swamy, K. R. M., & Karihaloo, J. L. (2003). Comparative assessment of DNA fingerprinting techniques (RAPD, ISSR and AFLP) for genetic analysis of cashew (*Anacardium occidentale* L.) accessions of India. *Genome*, *46*(3), 362–369. https://doi.org/10.1139/g03-016

Archak, S., Gaikwad, A. B., Gautam, D., Rao, E. V. V. B., Swamy, K. R. M., & Karihaloo, J. L. (2003). DNA fingerprinting of Indian cashew (*Anacardium occidentale* L.) varieties using RAPD and ISSR techniques. *Euphytica*, *230*, 397–404.

Archak, S., Gaikwad, A. B., Swamy, K. R. M., & Karihaloo, J. L. (2009). Genetic analysis and historical perspective of cashew (*Anacardium occidentale* L.) introduction into India. *Genome*, *52*(3), 222–230. https://doi.org/10.1139/G08-119

Asna, A. C., Menon, J. S., & Smitha, M. S. (2022). Phenotypic diversity and clustering of germplasm accessions of cashew for utilization and conservation. *Electronic Journal of Plant Breeding*, *12*(4), 1218–1226. https://doi.org/10.37992/2021.1204.167

Barros, L.M., Paiva, J.R., Crisóstomo, J.R. and Cavalcanti, J.J.V. (1999). Hybridization of the cashew tree. p.191-220. In: A. Borém (ed.) Artificial hybridization of plants. UFV, Viços

Bartsch, D. (2010). Gene Flow in Sugar Beet. *Sugar Tech*, *12*(3–4), 201–206. Scopus. https://doi.org/10.1007/s12355-010-0053-1

Beguedou, E., Narra, S., Agboka, K., Armoo, E.A., Damgou, M.K. (2024). Cashew Nutshell and Raw Coal Co-grinding for Sustainability Goals in Clinkerization Pyro-Processes. In: Narra, MM., Narra, S. (eds) Innovations in Circular Economy and Renewable Energy in Africa. World Sustainability Series. Springer, Cham. https://doi.org/10.1007/978-3-031-68330-5_14

Benjamin R. K, Alexander L.S., Umilaela A., Djoko T. I., Evy A., Christopher C. A., Jimmy A.M. (2020) "Crossing Lydekker's Line: Northern Water Dragons (*Tropicagama temporalis*) Colonized the Mollucan Islands of Indonesia from New Guinea. *Herpetologica*, 76(3), 344-350.

Bocianowski, J., Niemann, J., Jagieniak, A., & Szwarc, J. (2024). Comparison of Six Measures of Genetic Similarity of Interspecific Brassicaceae Hybrids F2 Generation and Their Parental Forms Estimated on the Basis of ISSR Markers. *Genes*, *15*(9). Scopus. https://doi.org/10.3390/genes15091114

Boer, D., Ladati, N., Jumarno, Irwan, Arsyad, M. A., & Larekeng, S. H. (2021). Morphological diversity and relationship among cashew (*Anacardium occidentale* L.) individuals in three districts of Southeast Sulawesi, Indonesia. *IOP Conference Series: Earth and Environmental Science*, *886*(1). https://doi.org/10.1088/1755-1315/886/1/012056

UNIVERSITAS
GADJAH MADA
**Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis
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Borges, A. N. C., Lopes, A. C. A., Britto, F. B., Vasconcelos, L. F. L., & Lima, P. S. C. (2018). Genetic diversity in a cajuí (*Anacardium* spp.) germplasm bank as determined by *issr* markers. *Genetics and Molecular Research*, *17*(4). https://doi.org/10.4238/gmr18212

Bornet, B., & Branchard, M. (2001). Nonanchored Inter Simple Sequence Repeat (ISSR) Markers: Reproducible and Specific Tools for Genome Fingerprinting. *Plant Molecular Biology Reporter*, *19*(3), 209–215. https://doi.org/10.1007/BF02772892

Bradford, K. 2008. Comparing the ability of two PCR based techniques, RAPD and ISSR to detect low level of genetic diversity. In Chicago botanic Garden.http://www.chicagobotanic.org/downloads/conservation. Diakses 7 September 2022.

Braasch, J. E., Di Santo, L. N., Tarble, Z. J., Prasifka, J. R., & Hamilton, J. A. (2021). Testing for evolutionary change in restoration: A genomic comparison between *ex situ* , native, and commercial seed sources of *Helianthus maximiliani*. *Evolutionary Applications*, *14*(9), 2206–2220. https://doi.org/10.1111/eva.13275

Buljević, N., Preiner, D., Šikuten, I., & Tomaz, I. (2025). Comparison of Different DNA Isolation Methods from Grapevine (*Vitis vinifera*) Leaves. *Separations*, *12*(11). Scopus. https://doi.org/10.3390/separations12110316

Campos, A. S., Jesus, E. D. C., Mendes Filho, P. F., Pereira, A. P. D. A., Castro, A. C. R. D., Coelho, A. C. M. A., Bordallo, P. D. N., Borges, W. L., & Carvalho, A. C. P. P. D. (2025). Soil quality changes in cashew orchard production in Brazilian semiarid areas: A comprehensive field survey across locations, seasons, tree types, and management practices. *Applied Soil Ecology*, *211*. Scopus. https://doi.org/10.1016/j.apsoil.2025.106102

Carneiro, L. A., Silva, L. S., Gomes, M. F. C., Santos, M. F., Valente, S. E. S., Gomes, R. L. F., & Costa, M. F. (2019). Morphological characterization and genetic divergence of a cashew population in Floriano, Piauí, Brazil. *Genetics and Molecular Research*, *18*(3), 1–8. https://doi.org/10.4238/gmr18348

Carvalho, R. S., Pinto, J. F. N., dos Reis, E. F., Santos, S. C., & Dias, L. A. S. (2012). Gnetic variability of bushy cashew (*Anacardium hum*ile ST. HILL.) through RAPD markers. *Revista Brasileira de Fruticultura*, *34*(1), 227–233. Scopus. https://doi.org/10.1590/S0100-29452012000100030

Casazza, G., Macrì, C., Dagnino, D., Guerrina, M., Juin, M., Minuto, L., Thompson, J. D., Baumel, A., & Médail, F. (2021). When ecological marginality is not geographically peripheral: Exploring genetic predictions of the centre-periphery hypothesis in the endemic plant *Lilium pomponium*. *PeerJ*, *9*. Scopus. https://doi.org/10.7717/peerj.11039

Castro, A. C. R., Bordallo, P. N., Cavacanti, J. J. V., & Barros, L. M. (2011). Brazilian cashew germplasm bank. *Acta Horticulturae*, *918*, 857–861. https://doi.org/10.17660/ActaHortic.2011.918.113

Cavalcanti, J. J. V., & Wilkinson, M. J. (2007). The first genetic maps of cashew (*Anacardium occidentale* L.). *Euphytica*, *157*(1–2), 131–143. https://doi.org/10.1007/s10681-007-9403-9

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Chipojola, F. M., Mwase, W. F., Kwapata, M. B., Bokosi, J. M., Njoloma, J. P., & Maliro, M. F. (2009). Morphological characterization of cashew (*Anacardium occidentale* L.) in four populations in Malawi. *African Journal of Biotechnology*, *8*(20), 5173–5181.

Czuppon B., Ifj. Papp L., Tóth Z., & Szépligeti M. (2019). A kereklevelű harmatfű (Drosera rotundifoliaL.) szaporodásbiológiai vizsgálata, különös tekintettel az ex situ természetvédelmi módszerekre. *Botanikai Közlemények*, *106*(1), 41–63. https://doi.org/10.17716/BotKozlem.2019.106.1.41

Daras, U. (2007). Strategi dan Iovasi Teknologi Peingkatan Produktivitas Jambu Mete Di Nusa Tenggara. *Jurnal Litbang Pertanian*, *26*(1), 25–34.

Das, S., Ali, M. N., Bandyopadhyay, S., & Poduval, M. (2024). Multivariate analysis from maturase K (matK) gene-based markers and morphological indices in Indian cashew. *Plant Genetic Resources: Characterisation and Utilisation*, *22*(1), 17–26. https://doi.org/10.1017/S1479262123000874

Dasmohapatra, R., Rath, S., Pradhan, B., & Rout, G. R. (2014). Molecular and agromorphological assessment of cashew (*Anacardium occidentale* L.) genotypes of India. *Journal of Applied Horticulture*, *16*(3), 215–221.

de Brito, E. S., de Oliveira Silva, E., & Rodrigues, S. (2018). Caju—Anacardium occidentale. In *Exotic Fruits Reference Guide* (pp. 85–89). Elsevier; Scopus. https://doi.org/10.1016/B978-0-12-803138-4.00012-5

Dhanaraj, A. L., Bhaskara Rao, E. V. V., Swamy, K. R. M., Bhat, M. G., Theertha Prasad, D., & Sondur, S. N. (2002). Using RAPDs to assess the diversity in Indian cashew (*Anacardium occidentale* L.) germplasm. *Journal of Horticultural Science and Biotechnology*, *77*(1), 41–47. https://doi.org/10.1080/14620316.2002.11511454

Dimoso, N., Aluko, A., Makule, E., & Kassim, N. (2021). Challenges and opportunities toward sustainable consumption and value addition of cashew apples in Tanzania. *Outlook on Agriculture*, *50*(2), 169–177. Scopus. https://doi.org/10.1177/0030727020941164

Ditjenbun. (2019). *Statistik Perkebunan Indonesia*. www.ditjenbun.pertanian.go.id. Diakses 7 September 2022.

Dlugosch, K. M., & Parker, I. M. (2008). Invading populations of an ornamental shrub show rapid life history evolution despite genetic bottlenecks. *Ecology Letters*, *11*(7), 701–709. Scopus. https://doi.org/10.1111/j.1461-0248.2008.01181.x

dos Santos, J. O., Mayo, S. J., Bittencourt, C. B., & de Andrade, I. M. (2019). Genetic diversity in wild populations of the restinga ecotype of the cashew (*Anacardium occidentale*) in coastal Piauí, Brazil. *Plant Systematics and Evolution*, *305*(10), 913–924. https://doi.org/10.1007/s00606-019-01611-4

Douaihy B, Sobierajska K, Jasińska AK, Boratyńska K, Ok T, Romo A, Machon N, Didukh Y, Bou Dagher-Kharrat M, Boratyński A. (2012). Morphological versus molecular

UNIVERSITAS
GADJAH MADA
**Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

markers to describe variability in *Juniperus excelsa* subsp. excelsa (Cupressaceae). *AoB Plants*. 2012:pls013. doi: 10.1093/aobpla/pls013.

Ehoniyotan, O. I., & Udo, E.-O. J. (2019). Variation studies of morphological characters of cashew trees (*Anacardium occidentale*) on Kogi State University Campus, Anyigba, Kogi State, Nigeria. *GSC Biological and Pharmaceutical Sciences*, *8*(3), 017–022. https://doi.org/10.30574/gscbps.2019.8.3.0161

Engler, A. (1879). *Monograpiae: Phanerogamarum Burseraceae et Anacardiaceae* (Alphonso & D. C. Casimir, Eds.; Vol. 4). Sumptibus G. Masson.

FAO. (2022). Cashew Production by Country 2022. https://worldpopulationrevirew.com. Diakses tanggal 27 November 2022.

Fang, D.Q. & M.Z. Roose, 1997. Identification of closely relatedcitrus cultivars with inter simple sequence repeat markers. TheorAppl Genet 95: 408–417

Febriani, S., & Hartana, A. (2016). Klasifikasi Kultivar Jambu Mete (*Anacardium occidentale* L.). *Floribunda*, *5*(4), 139–143.

Ferry, Y. (2012) Pengembangan Industri Perbenihan Jambu Mete. Perspektif. 11 (1), 33–44

Frercks, B., Stanys, V., Siksnianiene, J. B., Stepulaitiene, I., Gelvonauskiene, D., Staniene, G., Rugienius, R., & Siksnianas, T. (2014). Efficiency of AFLP marker attributes in the genetic analysis of sweet cherry cultivars. *Journal of Food, Agriculture and Environment*, *12*(1), 122–127.

Gamermann, D., Montagud, A., Alberto Conejero, J., de Córdoba, P. F., & Urchueguía, J. F. (2019). Large scale evaluation of differences between network-based and pairwise sequence-alignment-based methods of dendrogram reconstruction. *PLoS ONE*, *14*(9). Scopus. https://doi.org/10.1371/journal.pone.0221631

Garcia Gonçalves, A. P., Bassi Scarpim, L., Alves Garcia, C., Candido da Silva, T., Goloni, C., de Souza Ávida Castro, T.,Carciofi, A. C. (2025). Cashew (*Anacardium occidentale*) nut co-product in extruded foods for dogs. *Archives of Animal Nutrition*, *79*(2), 95–110. https://doi.org/10.1080/1745039X.2025.2503172

Gateva, S. P., Jovtchev, G., Angelova, T. V., Nonova, T. P., Tyutyundzhiev, N., Geleva, E. G., Katrandzhiev, K., Nikolova, N. A., Dimitrov, D., & Angelov, C. V. (2022). Effect of uv radiation and other abiotic stress factors on dna of different wild plant species grown in three successive seasons in alpine and subalpine regions. *Phyton-International Journal of Experimental Botany*, *91*(2), 293–313. Scopus. https://doi.org/10.32604/phyton.2022.016397

Germano, T. A., de Oliveira, M. F. R., Aziz, S., Oliveira, A. E. R., da Cruz Saraiva, K. D., dos Santos, C. P., Moura, C. F. H., & Costa, J. H. (2022). Transcriptome profiling of cashew apples (*Anacardium occidentale*) genotypes reveals specific genes linked to firmness and color during pseudofruit development. *Plant Molecular Biology*, *109*(1–2), 83–100. https://doi.org/10.1007/s11103-022-01257-w

UNIVERSITAS
GADJAH MADA
**Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis
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Gomes, M. F. C., Borges, A. N. C., Batista, G., Luz, G., Oliveira, M., Lopes, Â., de ARAÚJO, A., Gomes, R. L. F., Britto, F., Lima, P., & Valente, S. E. S. (2021). Genetic Diversity and Structure In Natural Populations OF Cajui From Brazillian Cerrado. *Bioscience Journal*, *37*. https://doi.org/10.14393/BJ-V37N0A2021-53974

Guterres, L., Barnabé, J., Barros, A., Charrua, A. B., Duarte, M. C., Romeiras, M. M., & Monteiro, F. (2023). East Timor as an important source of cashew (*Anacardium occidentale* L.) genetic diversity. *PeerJ*, *11*. https://doi.org/10.7717/peerj.14894

Gupta, M., Y.S. Chyi, J. Romero-Severson & J.L. Owen, 1994. Amplification of DNA markers from evolutionarily diverse gen-omes using single primers of simple-sequence repeats. TheorAppl Genet 89: 998–1006

Hadad, E. A., Syakir, M., & Rosman, R. (2006). *Karakterisasi Plasma Nutfah Jambu Mete*. Bogor: Balai Penelitian Tanaman Rempah dan Obat (Balittro).

Hamrick, J. L., & Godt, M. J. W. (1996). Effects of life history traits on genetic diversity in plant species. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, *351*(1345), 1291–1298. https://doi.org/10.1098/rstb.1996.0112

Hansen, M., Halldén, C., and Säll, T. 1998. Error rates and polymorphism frequencies for three RAPD protocols. Plant Mol Biol Rep 16: 139-146.

Haryudin, W., & Rostiana, O. (2017). Keragaman 16 Aksesi Jambu Mete Hasil Grafting Berdasarkan Karakter Morfologis. *Buletin Penelitian Tanaman Rempah Dan Obat*, *27*(2), 93. https://doi.org/10.21082/bullittro.v27n2.2016.93-104

Hatai, L. D. (2018). Economic feasibility of on-farm processing and value chain of cashewnut in west garo hills of meghalaya. *Journal of Plantation Crops*, *46*(3), 196–203. Scopus. https://doi.org/10.25081/jpc.2018.v46.i3.2078

Hawerroth, M. C., do Nascimento Bordallo, P., Oliveira, L. C. P., Vale, E. H., das Chagas Vidal Neto, F., & Melo, D. S. (2019). Genetic variability among cashew hybrids and prediction of superior combinations based on agronomic performance. *Pesquisa Agropecuaria Brasileira*, *54*. Scopus. https://doi.org/10.1590/S1678-3921.PAB2019.V54.00725

IBPGR. (1986). *International Board for Plant Genetic Resources: Cashew Deskriptors* (pp. 1–36). International Board for Plant Genetic Resources (IPBGR).

Jena, R. C., Samal, K. C., Pal, A., Das, B. K., & Chand, P. K. (2016). Genetic Diversity Among Some Promising Indian Local Selections and Hybrids of Cashew Nut Based on Morphometric and Molecular Markers. *International Journal of Fruit Science*, *16*(1), 69–93. https://doi.org/10.1080/15538362.2015.1046321

Jeyavishnu, K., Thulasidharan, D., Shereen, M. F., & Arumugam, A. (2021). Increased Revenue with High Value-Added Products from Cashew Apple (*Anacardium occidentale* L.) Addressing Global Challenges. *Food and Bioprocess Technology*, *14*(6), 985–1012. https://doi.org/10.1007/s11947-021-02623-0

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Karmawati, E., Penelitian, P., & Perkebunan, P. (2008). *Perkembangan Jambu Mete dan Strategi Pengendalian Hama Utamanya*. *7*(2), 102–111.

Karp, A. . (1997). *Molecular tools in plant genetic resources conservation: A guide to the technologies*. IPGRI.

Kaunang, I. R. B., Haliadi., & Rabani, O. 2016. *Jaringan Maritim Indonesia : Sejarah Toponim Kota Pantai Di Sulawesi* (J. Bangun, Ed.). Direktorat Sejarah Direktorat Jendral Kebudayaan Kementrian Pendidikan dan Kebudayaan.

Kebede, M., & Bekele, E. (2018). Genetic diversity and population structure of Ethiopian sesame (*Sesamum indicum* L.) germplasm as revealed by ISSR markers. *African Journal of Agricultural Research*, 13(45), 2575 2586. https://doi.org/10.5897/AJAR2018.13490

Khatun, M., Sarker, A., Akhter, S., & Chowdhury, M. A. Z. (2022). Morphological and molecular characterization of Lablab (*Lablab purpureus* L.) germplasm. *Asian Journal of Agricultural and Biological Research*, 8(1), 25-37.

Konan K, C., Adopo, da, Jean-Baptiste Djaha, A., Pokou, D. N., Annicet, H. N., Arsène Zoro Bi, I., Kévin Koffi, K., Djidji, H., Yves Minhibo, M., Dosso, M., & Évariste, A. N. (2020). Genetic characterization of promising high-yielding cashew (*Anacardium occidentale* L.) cultivars from Côte d'Ivoire. *Biotechnol. Agron. Soc. Environ. 2020*, *24*(1), 46–58.

Konate, M., Tarpaga, W. V., Bourgou, L., & Wonni, I. (2022). Genetic diversity assessment among 18 elite cashew tree genotypes (Anacardium occidentale L) selected in Western Burkina Faso. *Journal of Plant Breeding and Crop Science*, *14*(1), 1–11. https://doi.org/10.5897/jpbcs2021.0986

Kouakou, C. K., Konan, J. A., Konan, D., & Kouadio, A. B. R. (2021). Genetic Diversity of Cashew. In *Cash Crops: Genetic Diversity, Erosion, Conservation and Utilization* (pp. 523–555). Springer International Publishing; Scopus. https://doi.org/10.1007/978-3-030-74926-2_14

Kumar, A., Sharma, N., Panwar, S., & Kumar, M. (2014). Polymorphic Information Content (PIC) and marker utility of molecular markers. Indian Journal of Genetics and Plant Breeding, 74(1), 95-99.

Kumar, S.(2014). The Role of Bioinformatics in Agriculture (1st ed.). Apple Academic Press. https://doi.org/10.1201/b16568

Lohman, D. J., De Bruyn, M., Page, T., Von Rintelen, K., Hall, R., Ng, P. K. L., Shih, H. T., Carvalho, G. C., & Von Rintelen, T. (2011). Beyond Wallaces line: Genes and biology inform historical biogeographical insights in the Indo-Australian archipelago. *Annual Review of Ecology, Evolution, and Systematics*, *42*. https://doi.org/10.1146/annurev-ecolsys-102710-145001

Lovatel, Q. C., Rosa, G. T. D., Sá, A. C. S., Lopes, B. C., Tonett, E. L., Dias, R. A. R., Pereira, M. D. O., & Navroski, M. C. (2021). Impacts of genetic selection on Sequoia

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GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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sempervirens mini-cutting rooting and initial growth in the field. *New Zealand Journal of Forestry Science*, *51*. https://doi.org/10.33494/nzjfs512021x84x

Lucena-Aguilar, G., Sánchez-López, A. M., Barberán-Aceituno, C., Carrillo-Ávila, J. A., López-Guerrero, J. A., & Aguilar-Quesada, R. (2016). DNA Source Selection for Downstream Applications Based on DNA Quality Indicators Analysis. *Biopreservation and Biobanking*, *14*(4), 264–270. https://doi.org/10.1089/bio.2015.0064

Malik, J.A., Bhadauria, M. (2020). Cashew Nut (*Anacardium occidentale*). In: Nayik, G.A., Gull, A. (eds) Antioxidants in Vegetables and Nuts - Properties and Health Benefits. Springer, Singapore. https://doi.org/10.1007/978-981-15-7470-2_28

Manjusha, A. V. M., Nair, A. S., & Retheesh, P. K. (2015). Cashew based cropping systems: An effective approach for integrated land use planning in hard lateritic areas of northern kerala. In *Integrated Land Use Planning for Sustainable Agriculture and Rural Development* (pp. 237–244). Apple Academic Press; Scopus. https://doi.org/10.1201/b18816

Mathiang, J. M., Nyirenda, M., & Kamwene, C. (2023). Morphological characterization and genetic diversity of maize (*Zea mays* L.) landraces from Zambia. *Journal of Agricultural Science*, 15(3), 112-128.

Matos-Filho, C. H. A., De Carvalho-Junior, J., Costa, G., Costa, M., Nunes, J., Lopes, Â., & Ferreira-Gomes, R. (2023a). Estimation of the extent of phenotypic diversity among cashew (*Anacardium occidentale* L.) genotypes based on agro-morphological and physicochemical traits. *Plant Genetic Resources: Characterisation and Utilisation*, *175*. https://doi.org/10.1017/S1479262123000102

Mint Abdelaziz, S., Medraoui, L., Alami, M., Pakhrou, O., Makkaoui, M., Ould Mohamed Salem Boukhary, A., & Filali-Maltouf, A. (2020). Inter simple sequence repeat markers to assess genetic diversity of the desert date (*Balanites aegyptiaca* Del.) for Sahelian ecosystem restoration. *Scientific Reports*, *10*(1). https://doi.org/10.1038/s41598-020-71835-9

Mog, B., Janani, P., Nayak, M. G., Adiga, J. D., & Meena, R. (2019). Manipulation of vegetative growth and improvement of yield potential of cashew (*Anacardium occidentale* L.) by Paclobutrazol. *Scientia Horticulturae*, *257*. Scopus. https://doi.org/10.1016/j.scienta.2019.108748

Mog, B., Adiga, J. D., Preethi, P., & Nayak, M. G. (2023). Changes in Growth and Developmental Stages of Nuts of Selected Cashew (Anacardium occidentale) Varieties in West Coast Region of Karnataka. *Agricultural Research*, *12*(1), 62–71. Scopus. https://doi.org/10.1007/s40003-022-00620-z

Mohammadi, S. A., & Prasanna, B. M. (2003). Analysis of genetic diversity in crop plants—salient statistical tools and considerations. *Crop Science*, *43*(4), 1235–1248. https://doi.org/10.2135/cropsci2003.1235

Mohod, A., Jain, S., Powar, A. G. (2011). Cashew nut processing: sources of environmental pollution and standards. *BioInfo Env. Pollution*, 1 (1): 5-11

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Mondini, L., Noorani, A., & Pagnotta, M. A. (2009). Assessing plant genetic diversity by molecular tools. *Diversity*, *1*(1), 19–35. https://doi.org/10.3390/d1010019

Morton, J. (1987). *Fruits of Warm Climates*. Julia F Morton.

Mukhebi, D. W., Gachanja, P. W., Karan, D. J., Kamau, B. M., King'ori, P. W., Juma, B. S., & Mbinda, W. M. (2025). DArTseq-based silicoDArT and SNP markers reveal the genetic diversity and population structure of Kenyan cashew (Anacardium occidentale L.) landraces. *PLoS ONE*, *20*(1 January). Scopus. https://doi.org/10.1371/journal.pone.0313850

Mukhlif, F. H., Ramadan, A. S. A., Hammody, D. T., Mousa, M. O., & Shahatha, S. S. (2023). Molecular assessment of genetic divergence among maize genotypes. *Sabrao Journal of Breeding and Genetics*, *55*(3), 739–748. Scopus. https://doi.org/10.54910/sabrao2023.55.3.12

Muniz, C. R., Freire, F. C. O., Soares, A. A., Cooke, P. H., & Guedes, M. I. F. (2013). The ultrastructure of shelled and unshelled cashew nuts. *Micron*, *54–55*, 52–56. Scopus. https://doi.org/10.1016/j.micron.2013.08.006

Nakasone, H.K. and Paull, R.E. 1998. Tropical Fruits. CAB International, Wallingford, 132-148

Nalini, E., Jawali, N., & Bhagwat, S. G. (2003). *A Simple Method For Isolation Of DNA From Plants Suitable For Long Term Storage And DNA Marker Analysis* (pp. 208–214). Molecular Biology and Agriculture Division Bhabha Atomic Research Centre.

Nanami, S. (2023). Multiplexed ISSR Genotyping by Sequencing (MIG-Seq). In: Shavrukov, Y. (eds) Plant Genotyping. Methods in Molecular Biology, vol 2638. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-3024-2_29

Nayak, M. G., Mohana, G. S., Bhat, P. S., Saroj, P. L., Swamy, K. R. M., & Bhat, M. G. (2014). *Catalogue-V Minimum Descriptors of Cashew Germplasm Accessions*. ICAR - Directorate of Cashew Research.

N'Djolossè, K., Adoukonou-Sagbadja, H., Gbèmavo, C. D. S. J., Kodjo, S., Badou, A., Maliki, R., & Ahoyo Adjovi, R. N. (2019). Agro-morphological characterization of preselected cashew (*Anacardium occidentale* L.) mother trees in Benin farmer's plantations. *Journal of Agriculture and Environment for International Development*, *113*(1), 17–34. https://doi.org/10.12895/jaeid.20191.841

Nuri, R, N, I., & Lak, L,H,N, E. (2016). Strategi peningkatan perekonomian masyarakat melalui diversifikasi produk makanan olahan buah jambu mete sebagai basis produk unggulan kabupaten wonogiri. Prosiding seminar nasional: *Pemberdayaan Sektor Riil Melalui Pengembangan Keuangan*.2016: 159-177

Orwa, C., & Simons, A. J. (2009). *ORWA et al. Pdf maxlike View project COST Action CA15226-Climate-Smart Forestry in Mountain Regions (CLIMO) View project*. http://www.worldagroforestry.org/output/agroforestree-

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Qian, W., S. Ge & D.Y. Hong, 2001. Genetic variation within and among populations of a wild rice *Oryza granulata* from China detected by RAPD and ISSR markers. Theor Appl Genet 102:440–449.

Pereira, L.D., Costa, M.L., Pinto, J.F.N., Assunção, H.F. 2016. Diversidade genética do florescimento de *Anacardium humile* A. St. Hill no Sudoeste Goiano. Rev. Bras. Agropecu. Sustent.6(4): 19-25. http:// dx.doi.org/10.21206/rbas.v6i4.373

Pereira, A. L. F., & Rodrigues, S. (2012). Fermentation and cashew apple juice. In *Handb. Of Plant-Based Fermented Food and Beverage Technology, Second Edition* (pp. 237–248). CRC Press; Scopus. https://doi.org/10.1201/b12055

Pessoni, L. A. (2007). Genetic diversity in cashew (*Anacardium* spp.): A review. Genetics and Molecular Research, 6(4), 1035-1048.

Pissard, A., Arbizu, C., Ghislain, M., Faux, A.-M., Paulet, S., & Bertin, P. (2007). Congruence between morphological and molecular markers inferred from the analysis of the intra-morphotype genetic diversity and the spatial structure of Oxalis tuberosa Mol. *Genetica*, *132*(1), 71–85. https://doi.org/10.1007/s10709-007-9150-9

Pitono, J., Syakir, M., Nurhayati, H., Sugiartini, E., & Suhirman, S. (2024). Hydraulic Redistribution: Co-Benefit Potential on Cashew (*Anacardium occidentale* L.) Cultivation—A Review. In H. Kurniawan, B. A. Atmoko, W. Harsonowati, W. null, S. Widodo, M. F. Hudaya, R. D. Purba, & E. M. Putri (Eds.), *AIP Conference Proceedings* (Vol. 2957, Issue 1). American Institute of Physics Inc. https://doi.org/10.1063/5.0184333

Prevost, A. & M.J. Wilkinson, 1999. A new system of comparing PCR primers applied to ISSR fingerprinting of potato cultivars.*Theor Appl Genet* 98: 107–112.

Puntieri, J., Torres, C., & Ghirardi, S. (2013). Growth and branching in *Nothofagus alpi*na and *Nothofagus obliqua* (Nothofagaceae) under different light conditions. *Boletin de la Sociedad Argentina de Botanica*, *48*(2), 277–293. Scopus. https://doi.org/10.31055/1851.2372.v48.n2.6262

Ramteke, V., Nirala, Y. S., Nayak, M. G., & Mohana, G. S. (2020). Evaluation of apple and nut characters of cashew germplasm from Bastar region, Chhattisgarh, India. *Journal of Plantation Crops*, *48*(2), 142–145. https://doi.org/10.25081/jpc.2020.v48.i2.6374

Randriani, E., Listyati, D., & Syafaruddin. (2011). Kekerabatan Plasma Nutfah Jambu Mete (*Anacardium occidentale* L.) Berdasarkan Marka Random Amplified Polymorphic Dna (RAPD). *Buletin RISTRI*, *2*(2), 143–150.

Randriani, E., Tresniawati, & Syafaruddin. (2012). Pemanfaatan Teknik Random Amplified Polymorphic DNA (RAPD) Untuk Pengelompokan Secara Genetik Plasma Nutfah Jambu Mete. *Buletin RISTRI*, *3*(1), 1–6.

Rocha, S. S., Oliveira, A. C., & Santos, R. P. (2020). Congruence between morphological and molecular characterization in plants. *Genetica*, 148(2), 89-98.

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Rosman, R. (2018). *Increasing National Cashew Production Through Improved Ecology-Based Cultivation Technology*. *17*(2), 166–174. https://doi.org/10.21082/psp.v17n2.2018

Rostiana, O., Haryudin, W., & Darajat, J. (2017). The Spreading of Cashew Superior Variety-seeds in the Eastern and Western Regions of Indonesia. *Buletin Littro*, *28*(1), 1–14.

Rucińska, A., Olszak, M., Świerszcz, S., Nobis, M., Zubek, S., Kusza, G., Boczkowska, M., & Nowak, A. (2021). Looking for hidden enemies of metabarcoding: Species composition, habitat and management can strongly influence dna extraction while examining grassland communities. *Biomolecules*, *11*(2), 1–19. Scopus. https://doi.org/10.3390/biom11020318

S R, V. K., Vermani, A., Rangarajan, V., & Manjare, S. D. (2025). Production of Feni Beverage from Cashew Apple and Assessment of Bioethanol Production Potential from the Residual Pulp. In *Ref. Ser. Phytochem.: Vol. Part F3607* (pp. 1101–1128). Springer Science and Business Media B.V.; Scopus. https://doi.org/10.1007/978-3-031-38663-3_185

Sabran, M., Lestari, P., & Mastur, M. (2019). Conservation and Sustainable Use of PGRFA in Indonesia. *Buletin Plasma Nutfah*, *25*(2), 67. https://doi.org/10.21082/blpn.v25n2.2019.p67-78

Salehi, B., Gültekin-Özgüven, M., Kırkın, C., Özçelik, B., Morais-Braga, M. F. B., Carneiro, J. N. P., Bezerra, C. F., Silva, T. G. d., Coutinho, H. D. M., Amina, B., Armstrong, L., Selamoglu, Z., Sevindik, M., Yousaf, Z., Sharifi-Rad, J., Muddathir, A. M., Devkota, H. P., Martorell, M., Jugran, A. K., Cho, W. C. (2019). *Anacardium* Plants: Chemical,Nutritional Composition and Biotechnological Applications. *Biomolecules*, *9*(9), 465. https://doi.org/10.3390/biom9090465.

Samal, S., Lenka, P. C., Nanda, R. M., Nayak, S., Rout, G. R., & Das, P. (2004). Genetic relatedness in cashew (*Anacardium occidentale* L.) germplasm collections as determined by randomly amplified polymorphic DNA. *Genetic Resources and Crop Evolution*, *51*(2), 161–166. https://doi.org/10.1023/B:GRES.0000020856.77201.7d

Samal, S., Rout, G. R., & Lenka, P. C. (2003). Analysis of genetic relationships between populations of cashew (*Anacardium occidentale* L.) by using morphological characterisation and RAPD markers. *Plant Soil Environ*, *49*(4), 176–182.

Sankhare, M., Diallo, A. M., Ba Halimatou Sadyaneand Diatta, S., Samb, C. O., & Toure Mamoudou Abdouland Badiane, S. (2025). Phenotypic diversity of growth, leaf and yield-related traits in cashew (*Anacardium occidentale* L.): Implications for the development of a cashew breeding program in Senegal. *GENETIC RESOURCES AND CROP EVOLUTION*. https://doi.org/10.1007/s10722-025-02367-2

Santana, I. B., Paiva, J. R., Barros, L. M., Rosado, A. S., & Peixoto, A. R. (2011). Genetic diversity of cashew (*Anacardium occidentale* L.) germplasm using ISSR markers. *Genetics and Molecular Research*, *10*(2), 817–828. https://doi.org/10.4238/vol10-2gmr1117

UNIVERSITAS
GADJAH MADA
**Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Savadi, S., Manoj, K., Ashwitha, K., Muralidhara, B. M., Manjunatha, K., Eradasappa, E., Bhagya, H. P., Mohana, G. S., & Adiga, J. D. (2024). Morpho-biochemical and molecular characterization of accessions with unique traits as potential genetic stocks for cashew improvement. *Genetic Resources and Crop Evolution*. https://doi.org/10.1007/s10722-024-02036-w

Schut, J.W., Qi, X., and Stam, P. 1997. Association between relationship measures based on AFLP markers, pedigree data and morphological traits in barley. Theoretical and Applied Genetics, 95, 1161- 1168.

Sethi, K., Dash, M., Panda, P. K., G. S. , M., & Adiga, J. D. (2024). Assessment of adaptability of cashew varieties to changing environmental conditions of Odisha. *Scientia Horticulturae*, *324*, 1–9. https://doi.org/10.1016/j.scienta.2023.112577

Shadenova, E. A., Mamirova, A. A., Sembekov, M. T., & Imanbayeva, A. A. (2019). DNA extraction from leaves of woody plants without liquid nitrogen. *Annals of Agri Bio Research*, *24*(2), 153–159. Scopus.

Shahrajabian, M. H., & Sun, W. (2023). The Important Nutritional and Wonderful Health Benefits of Cashew (*Anacardium occidentale* L.). *Natural Products Journal*, *13*(4), 2–10. Scopus. https://doi.org/10.2174/2210315512666220427113702

Sheeba, A., & Mohan, S. (2025). Genetic Diversity Studies in Drought Tolerant Rice (Oryza sativa L.) Genotypes. *Agricultural Science Digest*, *45*(1), 86–90. https://doi.org/10.18805/ag.D-5434

Sika, K., Adoukonou-Sagbadja, H., Ahoton, L., Saidou, A., Ahanchede, A., Kefela, T., Gachomo, E., Baba, M., & Kotchoni, S. O. 2015. Genetic Characterization of Cashew (*Anacardium occidentale* L.) Cultivars from Benin. *Journal of Horticulture*, *02*(04), 1–7. https://doi.org/10.4172/2376-0354.1000153

Singh, G. (2010). *Plant systematics: An integrated approach* (3rd ed). Science Publishers.

Singh, P., Singh, M. P., Sharma, R., & Kumar, A. (2016). Morphological variability and principal component analysis in Cajanus species accessions. *International Journal of Plant Research*, 6(2), 45-58.

Sivaprakasam, S., Chinnaiyan, U., Varatharajan, S., Uthayasuryan, E., Chandrasekaran, M., Paramasivam, S., & Ramasamy, P. (2025). Unveiling the Physicochemical Attributes and Antioxidant Potential of Cashew Apple Juice Varieties. *Applied Fruit Science*, *67*(2). https://doi.org/10.1007/s10341-025-01303-z

Soelkhan, M., Odit Kudratun, M., Novia Miranda, S., Evanzi, W., Astuti, I., Ahmad, J. A., Fauzan, M., Abdillah, R. D., Ihwanul, A., Rakasiwi, R. G., & Hidayat, A. R. (2022). Pemanfaatan Daging Jambu Mete Sebagai Bahan Baku Pembuatan Abon Di Desa Batu Rakit Kecamatan Bayan Kabupaten Lombok Utara. *Jurnal Sinergi*, *5*(1), 27–30.

Sophian, A., & Syukur, A. (2021). Analysis of Purity and Concentration of Isolated DNA in Making Raw DNA of Rat Species: Analysis of Purity and Concentration of Isolated

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DNA in Making Raw DNA of Rat Species. *Eruditio : Indonesia Journal of Food and Drug Safety*, *1*(2), 1–5. https://doi.org/10.54384/eruditio.v1i2.75

Sudaryanto, A., Hidayat, D. D., Sagita, D., Darmajana, D. A., Indriati, A., & Kurniawan, Y. R. (2024). Engineering Properties of Cashew Nut in Context to Design of Post-Harvest Handling and Processing Machinery. In Setiawan W., Anggono A.D., Hidayati N., & Kusban M. (Eds.), *AIP Conf. Proc.* (Vol. 2838, Issue 1). American Institute of Physics; Scopus. https://doi.org/10.1063/5.0199495

Swamy, K. R. M. (2021). Technological Innovations in Cashewnut Production. In *The Basics of Hum. Civilization: Food, Agriculture and Humanity Volume-I : Present Scenario* (pp. 383–417). Taylor and Francis; Scopus. https://doi.org/10.1201/9781003246237-30

Syed, N. H., Sureshsundar, S., Wilkinson, M. J., Bhau, B. S., Cavalcanti, J. J. V., & Flavell, A. J. (2005). Ty1-copia retrotransposon-based SSAP marker development in cashew (*Anacardium occidentale* L.). *Theoretical and Applied Genetics*, *110*(7), 1195–1202. https://doi.org/10.1007/s00122-005-1948-1

Tamburaka, I. P. (2016). Strategi Pengembangan Jambu Mete Untuk Mendukung Perekonomian Petani Di Kabupaten Muna. *Jurnal Mega Aktiva*, *5*(1).

Tautz, D. 1989. Hypervariability of simple sequences as a general source for polymorphic DNA markers. Nucleic Acids Res 17(16): 6463-6471.

Thakkar, J. R., Mandavia, M. K., Golakiya, B. A., & Sabara, P. H. (2014). Analysis of genetic diversity among brinjal (*Solanum melongena* L.) genotypes through dominant markers. *Indian Journal of Agricultural Biochemistry*, *27*(2), 165–169.

Thimmappaiah, Santhosh, W. G., Shobha, D., & Melwyn, G. S. (2009). Assessment of genetic diversity in cashew germplasm using RAPD and ISSR markers. *Scientia Horticulturae*, *120*(3), 411–417. https://doi.org/10.1016/j.scienta.2008.11.022

Turrión, D., & Bautista, S. (2025). Tree-architectural response to restoration thinning pattern in post-fire Aleppo pine forests – A modular view of tree plasticity. *Forest Ecology and Management*, *595*. Scopus. https://doi.org/10.1016/j.foreco.2025.123025

Uller, T., & Leimu, R. (2011). Founder events predict changes in genetic diversity during human-mediated range expansions. *Global Change Biology*, *17*(11), 3478–3485. Scopus. https://doi.org/10.1111/j.1365-2486.2011.02509.x

Van Beuningen, L.T. and Busch, R.H. 1997. Genetic diversity among North American spring wheat cultivars. In: Analysis of the coefficient of parentage matrix. Crop Science, 37, 564-573.

Veena, G. L., Adiga, J. D., Mohana, G., Eradasappa, E., Savadi, S., Vanitha, K., Thondaiman, V., & Shamsudheen, M. (2023). Purple Cashew (*Anacardium occidentale* L.): A Unique Cashew Type. *National Academy Science Letters*, *46*(6), 559–562. Scopus. https://doi.org/10.1007/s40009-023-01307-x

UNIVERSITAS GADJAH MADA
Keragaman Genetik Jambu Mete (Anacardium occidentale L.) di Sulawesi Berdasarkan Karakter Morfologis dan Molekuler
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Virk, P.S., Zhu, J., Newbury, H.J., Bryan, G.J., Jackson, M.T., & Ford-Lloyd, B.V. 2000 Effectiveness of different classes of molecular markers for classifying and revealing variations in rice (Oryza sativa) germplasm. Euphytica 112: 275-284.

Vos P, Hogers R, Bleeker M, Reijans M, Van der Lee T, Hornes M, Frijters A, Pot J, Peleman J, Kuiper M and Zabeau M (1995) AFLP: a new technique for DNA fingerprinting. Nucleic Acids Res 23: 4407-4414.

Wahyuni, S., D.H. Xu, N. Bermawie, H. Tsunematsu & T. Ban. 2004. Skrining ISSR primer studi pendahuluan Kekerabatan antar jahe merah, jahe emprit dan jahe besar. Buletin TRO, 15: 33-40.

Wahyuni, S. (2006). Kekerabatan Plasma Nutfah Jambu Mete Berdasar Sifat Morfologis. *Jurnal Littri*, *12*(2), 58–66.

Wan, Y., Mu, H., Luo, N., Yang, J., Tian, Y., Hong, N., & Dong, H. (2023). Rapid accuracy determining DNA purity and concentration in heavy oils by spectrophotometry methods. *Petroleum Science*, *20*(6), 3394–3399. Scopus. https://doi.org/10.1016/j.petsci.2023.07.019

Wang, A., Zhang, P., Liu, X., Liang, J., & Li, W. (2016). Genetic structure and diversity of Glehnia littoralis, an endangered medicinal plant in China. *Biochemical Systematics and Ecology*, *66*, 265–271. https://doi.org/10.1016/j.bse.2016.04.019

Williams, J.G.K., Kubelik, A.R., Livak, K.J., Rafalski, J.A., & Tingey, S.V. 1990. DNApolymorphisms amplified by arbitrary primers are useful as genetic markers. Nucleic Acids Res 18: 6231-6235.

Xie, X., Qiu, Y., Ke, L., Zheng, X., Wu, G., Chen, J., Qi, X., & Ahn, S. (2011). Microsatellite primers in red bayberry, Myrica rubra (myricaceae). *American Journal of Botany*, *98*(4), e93–e95. Scopus. https://doi.org/10.3732/ajb.1000271

Xu, Z., Xiao, D., Shen, B., Xiao, J., Chen, X., & Zhou, Z. (2021). Variation and correlation analyses on leaf color parameters and leaf shape traits of *Cornus hongkongensis* subsp. Elegans. *Journal of Plant Resources and Environment*, *30*(1), 61–68. Scopus. https://doi.org/10.3969/j.issn.1674-7895.2021.01.08

Zehdi, S., Sakka, H., Rhouma, A., Ould Mohamed Salem, A., Marrakchi, M., & Trifi, M. (2004). Analysis of Tunisian date palm germplasm using simple sequence repeat primers. *African Journal of Biotechnology*, *3*(4), 215–219. Scopus. https://doi.org/10.5897/AJB2004.000-2040

Zie, M., Karoui, R., Alabi, T., Jacquet, N., Richel, A., & Blecker, C. (2025). Ultrasound-enhanced extraction and structural dynamics of protein-polysaccharide complexes from cashew apple bagasse: Structure–function relationship. *Food Hydrocolloids*, *171*. Scopus. https://doi.org/10.1016/j.foodhyd.2025.111843

Zietkiewicz, E., Rafalski, A. & Labuda, D. 1994. Genome finger-printing by simple sequence repeat (SSR)-anchored polymerasechain reaction amplification. Genomics 20: 176–183