

## DAFTAR PUSTAKA

- Amalraj, V.A., and N. Balasundaram. 2006. On the taxonomy of the members of “*Saccharum* complex.” *Genetic Resources and Crop Evolution*. 53(1): 35-41.
- Barbosa, G.V.S., M.M. Cruz, L. Soares, A.M.C. Rocha, C.A.G. Ribeiro, A.J.R. Sousa, J.L.C. Ferreira, E.J.S. Barreto, W.C.M. Silva, and A.V.P. Santos. 2002. A brief report on sugarcane breeding program in Alagoas, Brazil. *Cropps Breeding and Applied Biotechnology* 2(4): 613-616.
- Bell, M.J., and A.L. Garside. 2005. Shoot and stalk dynamics and the yield of sugarcane crops in tropical and subtropical Queensland, Australia. *Field Crops Research* 92: 231-248.
- Berding, N., R.S. Pendrigh, and V. Dune. 2007. Can flowering in sugarcane be optimised by use of differential declinations for the initiation and development phases? *Proceeding International Society Sugar Cane Technologists*. 26: 699-711.
- Bermúdez-Guzmán, M.D.J., S. Guzmán-González, M. Orozco-Santos, J.J. Velázquez-Monreal, M.T. Buenrostro-Nava, and C.Y. Michel-López. 2017. Optimización de un protocolo para aislamiento de DNA de hojas de *Saccharum officinarum*. *Revista Mexicana de Ciencias Agrícolas*. 7(4): 897-910.
- Besse, P., C.L. McIntyre, and N. Berding. 1997. Characterisation of *Erianthus* sect. *Ripidium* and *Saccharum* germplasm (Andropogoneae—Saccharinae) using RFLP markers. 93: 283-292.
- Bonnett, G.D. 2014. Developmental Stages (Phenology). *In*: P.H. Moore and F.C. Botha (Eds.). *Sugarcane: Physiology, Biochemistry, and Functional Biology*. 1<sup>st</sup> ed. John Wiley & Sons, Oxford, p: 35-53.
- Bonnett, G.D., M.L. Hewitt, and D. Glassop. 2006. Effects of high temperature on the growth and composition of sugarcane internodes. *Australian Journal of Agricultural Research*. 57(10): 1087-1095.
- Botstein, D., R.L. White, M. Skolnick, and R.W. Davis. 1980. Construction of a genetic linkage map in man using restriction fragment length polymorphisms. *American Society of Human Genetics*. 32: 314-331.
- Caixeta, E.T., L.F.V. Ferrão, E. Maciel-Zambolim, and L. Zambolim. 2014. Molecular Markers. *In*: A. Borem and F. Fritsche-Neto (Eds.) *Biotechnology and Plant Breeding*. Academic Press, San Diego, p:19-45.

- Cheavegatti-Gianotto, A., H.M.C. de Abreu, P. Arruda, J.C.B. Filho, W.L. Burnquist, S. Creste, L. di Ciero, J.A. Ferro, A.V. de Oliveira Figueira, T. de Sousa Filgueiras, M. de F. Grossi-de-Sá, E.C. Guzzo, H.P. Hoffmann, M.G. de Andrade Landell, N. Macedo, S. Matsuoka, F. de Castro Reinach, E. Romano, W.J. da Silva, M. De Castro Silva Filho, and E.C. Ulian. 2011. Sugarcane (*Saccharum X officinarum*): A reference study for the regulation of genetically modified cultivars in Brazil. *Tropical Plant Biology*. 4(1): 62-89.
- Clements, H.F. 1975. Flowering of sugarcane: Mechanisms and control. Hawaii Agriculture Experiment Station Technical Bulletin. 92: 1-56.
- Cordeiro, G.M., G.O. Taylor, and R.J. Henry. 2000. Characterisation of microsatellite markers from sugarcane (*Saccharum* sp.), a highly polyploid species. *Plant Science*. 155(2): 161-168.
- D'hont, A., P.S. Rao, P. Feldmann, L. Grivet, L. Islam-Faridi, P. Taylor, and J.C. Glasznan. (1995). Identification and characterisation of sugarcane intergeneric hybrids, *Saccharum officinarum* • *Erianthus arundinaceus*, with molecular markers and DNA in situ hybridisation. *Theoretical and Applied Genetics*. 91: 320-326.
- Dos Santos, J.M., L.S.C.D. Filho, M.L. Soriano, P.P. Da Silva, V.X. Nascimento, G.V. De Souza Barbosa, A.R. Todaro, C.E.R. Neto, and C. Almeida. 2012. Genetic diversity of the main progenitors of sugarcane from the RIDESA germplasm bank using SSR markers. *Industrial Crops and Products*. 40: 145-150.
- Ellegren, H. 2004. Microsatellites: Simple sequences with complex evolution. *Nature Reviews Genetics*. 5(6): 435-445.
- Gallagher, S.R., and P. Desjardins. 2011. Quantitation of nucleic acids and proteins. *Current Protocols Essential Laboratory Techniques*. 5(1): 1-36.
- Garrido-Cardenas, J.A., C. Mesa-Valle, and F. Manzano-Agugliaro. 2018. Trends in plant research using molecular markers. *Planta*. 247( 3): 543-557.
- Hosseinzadeh-Colagar, A., Haghghatnia, M. J., Amiri, Z., Mohadjerani, M., & Tafrihi, M. (2016). Microsatellite (SSR) amplification by PCR usually led to polymorphic bands: Evidence which shows replication slippage occurs in extend or nascent DNA strands. *Molecular Biology Research Communications*, 5(3), 167–174.
- Jackson, P., and R.J. Henry. 2011. *Erianthus*. In: C. Kole (Ed.). *Wild Crop Relatives: Genomic and Breeding Resources*. Springer Berlin, Heidelberg, p: 97–107.

- Kaewhom, P., and K. Srikijsakemwat. 2021. Efficacy of two primer sets used in sex identification of Rufous-winged Buzzard (*Butastur liventer*). *Open Veterinary Journal*. 11(4): 581-586.
- Lingle, S.E. 1999. Sugar Metabolism during Growth and Development in Sugarcane Internodes. *Crop Science*. 39(2): 480-86.
- Mohanraj, K., and N.V. Nair. 2014. Biomass potential of novel interspecific hybrids involving improved clones of *Saccharum*. *Industrial Crops and Products*. 53: 128-132.
- Moore, P.H., and F.C. Botha. 2014. *Sugarcane: Physiology, Biochemistry, and Functional Biology*. 1<sup>st</sup> ed. John Wiley & Sons, Oxford.
- Moore, P.H., A.H. Paterson, and T. Tew. 2014. Sugarcane: The Crop, the Plant, and Domestication. *In*: P.H. Moore and F.C. Botha (Eds.) *Sugarcane: Physiology, Biochemistry, and Functional Biology*. 1<sup>st</sup> ed. John Wiley & Sons, p: 19-33.
- Murianingrum, M., T. Taryono, and R.A. Wulandari. 2019. Microsatellite genetic markers of *Saccharum* spp., and *Erianthus* sp. on their hybrids. *Ilmu Pertanian (Agricultural Science)*. 3(1): 1-11.
- Nair, N.V., K. Mohanraj, K. Sunadaravelandian, A. Suganya, A. Selvi, and C. Appunu. 2017. Characterization of an intergeneric hybrid of *Erianthus procerus* × *Saccharum officinarum* and its backcross progenies. *Euphytica*. 213(12): 1-1.
- Pan, Y.-B. 2006. Highly polymorphic microsatellite dna markers for sugarcane germplasm evaluation and variety identity testing. *Sugar Tech*. 8(4): 246-256.
- Pan, Y.-B. 2010. Databasing molecular identities of sugarcane (*Saccharum* spp.) clones constructed with microsatellite (SSR) DNA markers. *American Journal of Plant Sciences*. 1(2): 87 - 94.
- Pan, Y.-B., G.M. Cordeiro, and R.J. Henry. 2003. Molecular genotyping of sugarcane clones with microsatellite DNA markers. *Plant Science*. 165: 181-189.
- Pereira, A.R., V. Barbieri, and N.A.V. Nova. 1983. Climatic conditioning of flowering induction in sugarcane. *Agricultural Meteorology*. 29(2): 103-110.
- Piperidis, G., and A. D'Hont. 2001. Chromosome composition analysis of various *Saccharum* interspecific hybrids by genomic in situ hybridisation (GISH). *In*: D.M. Hogarth (Ed.) *Maret Society of Sugar Cane Technologists*. 1<sup>st</sup> ed. Australian Society of Sugar Cane Technologists, p: 565-566.

- Piperidis, G., N. Piperidis, and A. D'Hont. 2010. Molecular cytogenetic investigation of chromosome composition and transmission in sugarcane. *Molecular Genetics and Genomics*. 284(1): 65-73.
- P3GI. 2025. Varietas komersial di Indonesia. <[https://varietasp3gi.com/index.php/Webview/Varietas\\_komersial](https://varietasp3gi.com/index.php/Webview/Varietas_komersial)>. Diakses pada 8 Oktober 2025.
- P3GI. 2025. Ketahanan hama dan penyakit. <[https://varietasp3gi.com/index.php/Webview/Varietas\\_komersial](https://varietasp3gi.com/index.php/Webview/Varietas_komersial)>. Diakses pada 8 Oktober 2025.
- Rae, A.L., Martinelli, A.P., and Dornelas, M.C. 2014. Anatomy and Morphology. *In*: P.H. Moore and F.C. Botha (Eds.). *Sugarcane: Physiology, Biochemistry, and Functional Biology*. 1<sup>st</sup> ed. John Wiley & Sons, Oxford, p: 19-35.
- Rana, S., and T. Marsico. 2024. *Saccharum spontaneum* (wild sugarcane). <<https://www.cabidigitallibrary.org/doi/10.1079/cabicompendum.48162>>. Diakses tanggal 8 Maret 2025.
- Ridhawati, A., W.M. Mahayu, G. Garusti, dan N. Asbani. 2022. Viability of sugarcane and *Erianthus arundinaceus* pollen under marcotting treatment. *IOP Conference Series: Earth and Environmental Science*. 974(1): 1-9.
- Santos, J.M.D., G.V.D.S. Barbosa, C.E.R. Neto, and C. Almeida. 2014. Efficiency of biparental crossing in sugarcane analyzed by SSR markers. *Crop Breeding and Applied Biotechnology*. 14(2): 102-107.
- Sehn, J.K. 2015. Insertions and Deletions (Indels). *In*: S. Kulkarni and J. Pfeifer (Eds.). *Clinical Genomics*. Academic Press, Boston, p: 129-150.
- Serrote, C.M.L., L.R.S. Reiniger, K.B. Silva, S.M.D.S. Rabaiolli, and C.M. Stefanel. 2020. Determining the Polymorphism Information Content of a molecular marker. *Gene*. 726: 144-175.
- Singels, A., and Inman-Bamber, N.G. 2011. Modelling genetic and environmental control of biomass partitioning at plant and phytomer level of sugarcane grown in controlled environments. *Crop and Pasture Science*. 62(1): 66-81.
- Smith, D.M., Inman-Bamber, N.G., and Thorburn, P.J. 2005. Growth and function of the sugarcane root system. *Field Crops Research*. 92: 169–183.
- Sreenivasa V, Mahadeviah C, H.K.M. Swamy, A.K. Raja, M.R. Meena, C. Appun, R. Kumar, Mohanraj K, Govindaraj P, and Hemaprabha G. 2024. Deciphering biomass contributing traits of interspecific and intergeneric hybrids derived from

early generations hybrids of *Saccharum* and *Erianthus* Spp. As potential sources of biomass and bioenergy. *Industrial Crops and Products*. 211: 1-9.

- Tan, H., H. Huang, M. Tie, J. Ma, and H. Li. 2013. Comparative analysis of six DNA extraction methods in cowpea (*Vigna unguiculata* L.Walp). *Journal of Agricultural Science*. 5(7): 1-9.
- Terajima, Y., A. Sugimoto, A. Tippayawat, S. Irei, and H. Hayashi. 2023. Root distribution and fibre composition of intergeneric F1 hybrid between sugarcane and *E. arundinaceus*. *Field Crops Research*. 297: 1-9.
- Tew, T.L., and Y. Pan. 2010. Microsatellite (simple sequence repeat) marker-based paternity analysis of a seven-parent sugarcane polycross. *Crop Science*. 50(4): 1401-1408.
- Tham, K.-C., R. Kanaar, and J.H.G. Lebbink. 2016. Mismatch repair and homeologous recombination. *DNA Repair*. 38: 75-83.
- Vieira, M.L.C., C.B. Almeida, C.A. Oliveira, L.O. Tacuatiá, C.F. Munhoz, L.A. Cauz-Santos, L.R. Pinto, C.B. Monteiro-Vitorello, M.A. Xavier, and E.R. Forni-Martins. 2018. Revisiting meiosis in sugarcane: Chromosomal irregularities and the prevalence of bivalent configurations. *Frontiers in Genetics*. 9(213): 1-12.
- Vieira, M.L.C., L. Santini, A.L. Diniz, and C.D.F. Munhoz. 2016. Microsatellite markers: What they mean and why they are so useful. *Genetics and Molecular Biology*. 39(3): 312-328.
- Viguera, E. 2001. Replication slippage involves DNA polymerase pausing and dissociation. *The European Molecular Biology Organization Journal*. 20(10): 2587-2595.
- Wang, K., H. Zhang, H. Khurshid, A. Esh, C. Wu, Q. Wang, and N. Piperidis. 2023. Past and recent advances in sugarcane cytogenetics. *The Crop Journal*. 11(1): 1-8.