DAFTAR PUSTAKA

Annisa, S. 2023. Komparasi kuliner pada restoran arab di Jakarta (Studi kasus restoran awtar dan restoran al jazeerah). *SIWAYANG Journal: Publikasi Ilmiah Bidang Pariwisata, Kebudayaan, dan Antropologi*, 2(4): 147-154.

BPS. 2023. Luas Panen dan Produksi Padi di Indonesia 2023 (Angka Sementara). https://www.bps.go.id/id/pressrelease/2023/10/16/2037/luas-panen-dan-produksi-padi-di-indonesia-2023--angka-sementara-.html diakses pada 17 Maret 2024.

Biselli, C., Cavalluzzo, D., Perrini, R., Gianinetti, A., Bagnaresi, P., Urso, S., ... & Valè, G. 2014. Improvement of marker-based predictability of Apparent Amylose Content in japonica rice through GBSSI allele mining. *Rice*, 7(1): 1-18.

Caffagni, A., Albertazzi, G., Gavina, G., Ravaglia, S., Gianinetti, A., Pecchioni, N., & Milc, J. 2013. Characterization of an Italian rice germplasm collection with genetic markers useful for breeding to improve eating and cooking quality. *Euphytica*, 194(1): 383-399.

Chen, M. H., Bergman, C. J., Pinson, S. R., & Fjellstrom, R. G. 2008. Waxy gene haplotypes: associations with pasting properties in an international rice germplasm collection. *Journal of Cereal Science*, 48(3): 781-788.

Chitwood, J., Shi, A., Mou, B., Evans, M., Clark, J., Motes, D., ... & Hensley, D. 2016. Population structure and association analysis of bolting, plant height, and leaf erectness in spinach. *HortScience*, 51(5): 481-486.

Fahlevi, M. R., Bakti, D., Sitepu, S. F., & Prasetyo, A. E. 2018. Karakterisasi molekuler *Elaeidobius kamerunicus* Faust. (Coleoptera: Curculionidae) asal Sumatera Utara menggunakan metode amplified fragment length polymorphism (AFLP). *Jurnal Agroteknologi*, 6(2): 259-270.

Ferdous, N., Elias, S. M., Howlader, Z. H., Biswas, S. K., Rahman, M. S., Habiba, K. K., & Seraj, Z. I. 2018. Profiling Bangladeshi rice diversity based on grain size and amylose content using molecular markers. *Current Plant Biology*, 14(1): 56-65.

Grover, A., & Sharma, P. C. 2016. Development and use of molecular markers: past and present. *Critical reviews in biotechnology*, 36(2): 290-302.

Hafizah, R. A., Adawiyah, R., Harahap, R. M., Hannum, S., & Santoso, P. J. 2018. Aplikasi marka SSR pada keanekaragaman genetik durian (*Durio zibethinus* Murr.) di Kabupaten Deli Serdang, Sumatra Utara. *Al-Kauniyah*, 11(1): 49-56.

Hanifa, I., Wulandari, R. A., & Widyawan, M. H. 2021. Analisis penanda tunggal karakter agronomi dengan marka mikrosatelit pada tanaman padi (*Oryza sativa* L.). *Vegetalika*, 10(4): 235-246.

Hanum, L., Windusari, Y., Setiawan, A., Hidayat, M. D. R., Adriansyah, F., Mubarok, A. A., & Pratama, R. 2018. *Morfologi dan Molekuler Padi Lokal Sumatera Selatan*. Palembang: CV Amanah.

Hartati, S., & Saragih, Y. *Botani Tanaman: Kajian Karakter Vegetatif dan Generatif Padi*. Malang: Literasi Nusantara.

Herawati, W. D. *Budidaya Padi*. Jakarta: JAVALITERA.

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.

Hsu, Y. C., Tseng, M. C., Wu, Y. P., Lin, M. Y., Wei, F. J., Hwu, K. K., ... & Lin, Y. R. 2014. Genetic factors responsible for eating and cooking qualities of rice grains in a recombinant inbred population of an inter-subspecific cross. *Molecular Breeding*, 34(1): 655-673.

Huang, L., Tan, H., Zhang, C., Li, Q., & Liu, Q. 2021. Starch biosynthesis in cereal endosperms: An updated review over the last decade. *Plant communications*, 2(5): 1-22.

Huang, K., Lu, F., Chen, P., Jiao, G., Lin, H., Zhang, J., ... & Wei, X. 2025. A large-scale gene regulatory network for rice endosperm starch biosynthesis and its application in genetic improvement of rice quality. *Plant Biotechnology Journal*, 1(1): 1-12.

Inukai, T., A. Sako., H. Y. Hirano., & Y. Sano. 2000. Analysis of intragenic recombination at wx in rice: Correlation between the molecular and genetic maps within the locus. *Genome*, 43(1): 589–596

Ismaun, M., & Hikmah, N. 2021. Molecular detection of *Escherichia coli* bacteria as a cause of diarrhic disease using techniques of PCR. *Bioma,* 6(2): 1-9.

Juliano, B. O. 1992. Structure, chemistry, and function of the rice grain and its fractions. *Cereal foods world*, 37(1): 772-779.

Kristamtini, K., Taryono, T., Basunanda, P., & Murti, R. H. 2014. Keragaman genetik kultivar padi beras hitam lokal berdasarkan penanda mikrosatelit. *Jurnal AgroBiogen*, 10(2): 69-76.

Kumar, I., Khush, G. S., & Juliano, B. O. 1987. Genetic analysis of waxy locus in rice (*Oryza sativa* L.). *Theoretical and Applied Genetics*, 73(1): 481-488.

Liu, L., Ma, X., Liu, S., Zhu, C., Jiang, L., Wang, Y., ... & Wan, J. 2009. Identification and characterization of a novel Waxy allele from a Yunnan rice landrace. *Plant Molecular Biology*, 71(1): 609-626.

Liu, Y., Zhang, A., Wang, F., Wang, J., Bi, J., Kong, D., ... & Yu, X. 2019. Development and validation of a PCR-based functional marker system for identifying the low amylose content-associated gene Wx^{hp} in rice. *Breeding Science*, 69(4): 702-706.

Liu, X., Ding, Q., Wang, W., Pan, Y., Tan, C., Qiu, Y., ... & Ma, C. 2022. Targeted deletion of the first intron of the Wx b allele via CRISPR/Cas9 significantly increases grain amylose content in rice. *Rice*, 15(1): 1-12.

Maharijaya, A. M. 2022. *Marka Molekuler dalam Pemuliaan Tanaman*. Bogor: PT Penerbit IPB Press.

Mahfut, K. P., Susiyanti, E., Ahyar, A. N., & Bangsawan, R. 2024. Molecular characterization of the sugarcane cultivar GMP3 mutants induced through colchicine using PCR-RAPD markers. *Sabrao J. Breed. Genet*, 56(3): 940-950.

Mao Ting, M. T., Li Xu, L. X., Li ZhenYu, L. Z., & Xu ZhengJin, X. Z. 2017. Development of PCR functional markers for multiple alleles of Wx and their application in rice. *Acta Agronomica Sinica*, 43(11): 1715-1723.

Masniawati, A., Asrul, N. A. M., Johannes, E., & Asnady, M. 2018. Characterization of rice physicochemical properties local rice germplasm from Tana Toraja regency of South Sulawesi. *In Journal of Physics: Conference Series*, 979(1): 1-7.

Mikami, I., Aikawa, M., Hirano, H. Y., & Sano, Y. 1999. Altered tissue-specific expression at the Wx gene of the opaque mutants in rice. *Euphytica*, 105(1): 91-97.

Monareh, J., & Ogie, T. B. 2020. Disease control using biopesticide on rice plants (*Oryza sativa* L.). *Jurnal Agroekoteknologi Terapan*, 1(1):11-13.

Mohapatra, P. K., Sarkar, R. K., Panda, D., & Kariali, E. 2025. Staging of Rice Plant Growth and Development. In *Tillering Behavior of Rice Plant* (pp. 105-139). Singapore: Springer Nature Singapore.

Mudaningrat, A., Umaya, F., Syahriza, F. A. A., Anggraito, Y. U., & Setiati, N. 2023. Literature Review: Aplikasi Penanda Molekuler untuk Analisis Keanekaragaman Genetik Hewan. *BIOPENDIX: Jurnal Biologi, Pendidikan dan Terapan*, 10(1): 11-25.

Muhamad, N. 2023. Konsumsi Beras Indonesia Terbanyak Keempat di Dunia pada 2022/2023. https://databoks.katadata.co.id/datapublish/2023/07/13/konsumsi-beras-indonesia-terbanyak-keempat-di-dunia-pada-20222023 diakses pada 8 Agustus 2024.

Mehmood, S., Ud Din, I., Ullah, I., Mohamed, H. I., Basit, A., Khan, M. N., ... & ur Rehman, A. 2021. Agro-morphological and genetic diversity studies in Rice (*Oryza sativa* L.) germplasm using microsatellite markers. *Molecular Biology Reports*, 48(1): 7179-7192.

Nasution, F. A., Indainanto, Y. I., & Pardede, P. D. K. 2023. Beras sebagai komoditas politik dalam pemilihan umum di Indonesia. *Jurnal Kajian Agraria dan Kedaulatan Pangan*, 2(1): 37-43.

Nayak, D. K., Sahoo, S., Barik, S. R., Sanghamitra, P., Sangeeta, S., Pandit, E., ... & Pradhan, S. K. 2022. Association mapping for protein, total soluble sugars, starch, amylose and chlorophyll content in rice. *BMC Plant Biology*, 22(1): 1-20.

Nugroho, K., D. S., Tasma, I. M., & Lestari, P. 2021. Ekstraksi DNA genomik: tahap kritis dalam kegiatan analisis molekuler tanaman. *Jurnal AgroBiogen*, 18(1): 33-44.

Oktaviani, E., Suprayogi, S., & Ulinnuha, Z. 2021. Amylose profile and rice grain morphology of selected F6 lines derived from a crossing of Black Rice and Mentik Wangi for the development of waxy pigmented rice. *Ilmu Pertanian (Agricultural Science)*, 6(2): 117-123.

Pan, L., Chen, F., Yang, Y., Li, Q., Fan, X., Zhao, D., ... & Zhang, C. 2022. The underlying starch structures of rice grains with different digestibilities but similarly high amylose contents. *Food chemistry*, 379(1): 132071.

Pandey, M. K., Rani, N. S., Madhav, M. S., Sundaram, R. M., Varaprasad, G. S., Sivaranjani, A. K. P., ... & Kumar, A. 2012. Different isoforms of starch-synthesizing enzymes controlling amylose and amylopectin content in rice (*Oryza sativa* L.). *Biotechnology advances*, 30(6): 1697-1706.

Patria, D. G., Sukamto, S., & Sumarji. 2021. *Rice Science and Technology*. Malang: Literasi Nusantara.

Phing Lau, W. C., Latif, M. A., Y. Rafii, M., Ismail, M. R., & Puteh, A. 2014. Advances to improve the eating and cooking qualities of rice by marker-assisted breeding. *Critical reviews in biotechnology*, 36(1): 87-98.

Rahmadhan, D. 2019. Pengaruh suhu annealing terhadap amplifikasi gen tem menggunakan primer dengan % GC rendah. *Jurnal Mahasiswa Farmasi Fakultas Kedokteran UNTAN*, 4(1): 1-7.

Risliawati, A., Andarini, Y. N., Terryana, R. T., Nugroho, K., & Lestari, P. Analisis diversitas genetik aksesi padi warna indonesia berdasarkan marka molekuler fungsional. *Jurnal AgroBiogen*, 17(1): 25-34.

Romdon, A. S., Kurniyati, E., Bahri, S., & Pramono, J. 2013. *Kumpulan Deskripsi Varietas Padi*. Ungaran: BPTP (Balai Pengkajian Teknologi Pertanian) Jawa Tengah.

Sano, Y. 1984. Differential regulation of waxy gene expression in rice endosperm. *Theoretical and applied genetics*, 68(1): 467-473.

Sato, H., Suzuki, Y., Sakai, M., & Imbe, T. 2002. Molecular characterization of Wx-mq, a novel mutant gene for low-amylose content in endosperm of rice (*Oryza sativa* L.). *Breeding Science*, 52(2): 131-135.

Sasmitaloka, K. S., Widowati, S., & Sukasih, E. 2020. Karakterisasi sifat fisikokimia, sensori, dan fungsional nasi instan dari beras amilosa rendah. *Jurnal Penelitian Pascapanen Pertanian*, 17(1): 1-14.

Saiallagan, C. S., Syafi'i, M., Samaullah, M. Y., Susanto, U., Pramudyawardani, E. F., & Prastika, D. 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): 32-37.

Sari, M. A. R., Qurrohman, M. T., & Dewangga, V. S. 2024. Detection of mecA gene as a marker for *Staphylococcus aureus* types of *Methicillin* resistant *Staphylococcus aureus* (MRSA) using PCR technique. *Jurnal Biologi Tropis*, 24(4): 204-211.

Setyawati, R., & Zubaidah, S. 2021. Optimasi konsentrasi primer dan suhu annealing dalam mendeteksi gen leptin pada sapi peranakan ongole (PO) menggunakan polymerase chain reaction (PCR). *Indonesian Journal of Laboratory*, 4(1): 36-40.

Setia, Y. K., Puspawati, N., & Rukmana, R. M. 2020. Deteksi *Escherichia coli* dengan metode polimerase chain reaction (PCR). *In Conference on Innovation in Health, Accounting and Management Sciences (CIHAMS),* 1(1): 173-179.

Shamim, F., Raza, M. A., Saher, H., Bibi, A., & Shahzadi, F. (2024). Cooking Quality and Yield Analysis of Extra-ordinary Long Grain Rice of Pakistan. *Pakistan Journal of Scientific & Industrial Research Series B: Biological Sciences*, 67(1): 54-59.

Slamet, W. Y., Wardani, A. R. S., Sari, S., & Carsono, N. 2018. Seleksi karakter kandungan amilosa sedang pada populasi hasil persilangan Sintanur x PTB33 dan Pandanwangi x PTB33 berdasarkan marka fenotipik dan molekuler SSR Selection medium amylose content character of population derived from a cross between Sintanur x PTB33 and Pandanwangi x PTB33. *Jurnal Kultivasi*, 17(3): 732-737.

Suprayogi, S., Oktaviani, E., Riyanto, A., Prakoso, B., Naufal, R., & Shafaa, N. A. 2024. Validation of molecular markers associated with amylose content of F8 and F9 lines resulting from a crossing of Black Rice and Mentik Wangi. In *IOP Conference Series: Earth and Environmental Science*, 1297(1): 12-46.

Suwannaporn, P., Pitiphunpong, S., & Champangern, S. 2007. Classification of rice amylose content by discriminant analysis of physicochemical properties. *Starch*, 59(1) : 171–177.

Syamsiah, M., & Masliah, M. 2019. Identifikasi kadar amilosa beras pandanwangi dari tujuh kecamatan di kabupaten Cianjur. *Agroscience (Agsci),* 9(2): 130-136.

Triani, N. 2020. Isolasi DNA tanaman jeruk dengan menggunakan metode CTAB (cetyl trimethyl ammonium bromide). *G-Tech: Jurnal Teknologi Terapan*, 3(2): 221-226.

Thamrin, M., Suprihaanto, Hasmi, I., Ardhiyanti, S. D., ..., & Norvyani, M. 2023. *Deskripsi Varietas Unggul Baru Padi 2023*. Sukamandi: Kementerian Pertanian.

Utama, M. Z. H. 2015. *Budidaya Padi pada Lahan Marjinal: Kiat Meningkatkan Produksi Padi*. Yogyakarta: CV. ANDI OFFSET.

Varshney, R. K., Graner, A., & Sorrells, M. E. 2005. Genomics-assisted breeding for crop improvement. *Trends in plant science*, 10(12): 621-630.

Wang, Z. Y., Zheng, F. Q., Shen, G. Z., Gao, J. P., Snustad, D. P., Li, M. G., ... & Hong, M. M. 1995. The amylose content in rice endosperm is related to the post-transcriptional regulation of the waxy gene. *The Plant Journal*, *7*(4): 613-622.

Zhao, X., Zhou, L., Ponce, K., & Ye, G. 2015. The usefulness of known genes/QTLs for grain quality traits in an indica population of diverse breeding lines tested using association analysis. *Rice*, 8(1)*:* 1-13.

Zhou, L., Chen, S., Yang, G., Zha, W., Cai, H., Li, S., ... & You, A. 2018. A perfect functional marker for the gene of intermediate amylose content Wx-in in rice (*Oryza sativa* L.). *Crop Breeding and Applied Biotechnology*, 18(1): 103-109.

UNIVERSITAS JENDERAL SOEDIRMAN 1963