

DAFTAR PUSTAKA

- Ahmadzadeh, M., Keshtkar, A.H., Moslemkhany, K., & Ahmadzadeh, M. 2021. Effect of the plant probiotic bacteria on TIA biosynthesis pathway gene expression proling, vinblastine and vincristine content in the root of *Catharanthus roseus*. *Research Square*, 1(1), pp.1-17.
- Aruna, M.S., Prabha, M.S., Priya, N.S., & Nadendla, R. 2015. *Catharanthus roseus*: ornamental plant is now medicinal boutique. *Journal of Drug Delivery & Therapeutics*, 5(3), pp. 1-4.
- Elfianis, R., Warino, J., Rosmaina., Suherman., & Zulfahmi. 2021. Analisis kekerabatan genetik tanaman pada (*Oryza sativa* L.) di Kabupaten Kampar dengan menggunakan penanda *random amplified polymorphic* DNA (RAPD). *Jurnal Agroteknologi*, 11(2), pp. 75-84.
- Ernawati., Puspitaningrum, D., & Pravitasari, A. 2014. Implementasi algoritma smith-waterman p ada *local alignment* dalam pencarian kesamaan pensejajaran barisan DNA (studi kasus: DNA tumor wilms). *Jurnal Pseudocode*, 1(2), pp. 170-177.
- Fraser, V.N., Philmus, B., & Megraw, M. 2020. Metabolomics analysis reveals both plant variety and choice of hormone treatment modulate vinca alkaloid production in *Catharanthus roseus*. *Plant Direct*, 1(1), pp.1-14.
- Hikmatyar, M.F., Royani, J.I., & Dasumiati. 2015. Isolasi dan amplifikasi DNA keladi tikus (*Thyponum flagelliform*) untuk identifikasi keragaman genetik. *Jurnal Bioteknologi dan Biosains Indonesia*, 2(2), pp.42-48.
- Jhang, T., Dwivedi, S., & Sharma, S. 2022. Classical breeding and trait genetics in *Catharanthus*. *Central Institute of Medicinal Plants*, 1(1), pp.35-83.
- Kulkarni, R.N., Baskaran, K., & Jhang, T. 2016. Breeding medicinal plant, periwinkle [*Catharanthus roseus* (L) G. Don]: a review. *Plant Genetic Resources: Characterization and Utilization*, 14(4), pp. 283-302.
- Makki, R.M., Saedia, A.A., Khan, T.K., Ali, H.M., & Ramadana, A.M. 2019. Single Nucleotide Polymorphism analysis in plastomes of eight *Catharanthus roseus* cultivars. *Biotechnology & Biotechnological Equipment*, 33(1), pp. 419-428.
- Maliza, R., Pratiwi, L. S., & Perwitasari, D.A. 2021. Uji kualitas DNA darah pada kertas whatman yang diisolasi dengan CHELEX-100 serta variasi waktu penyimpanan. *The Journal of Muhammadiyah Medical Laboratory Technologis*, 4(2), pp. 113-119.
- Mall, M., Singh, P., Kumar, R., Shanker, K., Gupta, A.K., Kharea, P., Shasany., Khatoon, S., Sundaresan, V., Baskaran, K., Yadav, S., & Shukla, A.K. 2020. Phenotypic, genetic and expression profiling of a vindoline-rich genotype of *Catharanthus roseus*. *South African Journal of Botany*, 139(2021), pp.50-57.
- Nadeem, M. A., Nawaz, M.A., Shahid, M.Q., Doğan, Y., Comertpay, G., Yıldız, M., Hatipoğlu, R., Ahmad, F., Alsaleh, A., Labhane, N., Özkan, H., Chung, G., & Baloch, F.S. 2018. DNA molecular markers in plant breeding: current status and recent advancements in genomic selection and

- genome editing. *Biotechnology & Biotechnological Equipment*, 32(2), pp. 261-285.
- Paarakh, M. P., Swasthi, S., Taj, T., Tejashwini, V., & Tejashwini, B. 2019. *Catharanthus roseus* Linn- A Review. *Acta Scientific Pharmaceutical Sciences*, 3(1), pp.19-24.
- Pond, S. L. K., Poon, A. F. Y., Velazquez, R., Weaver, S., Hepler, N. L., Murrel, B., Shank, S. D., Magalis, B. R., Bouvier, D., Nekrutenko, A., Wisotsky, S., Spielman, S. J., Frost, S. D. W., & Muse, S. V. 2019. HyPhy 2.5—A customizable platform for evolutionary hypothesis testing using phylogenies. 2019. *Molecular Biology and Evolution*, 37(1), pp.295-299.
- Priyastomo, D. A., Hilmia, N., Pramudyaswari, E.F., & Islami, R. Z. 2022. Analisis Konsentrasi serta Kemurnian DNA hasil Ekstraksi rumput raja (*Pennisetum purpureoides*) dan rumput gajah (*Pennisetum purpureum*) menggunakan metode CTAB dan DNazol. *Pastura*, 12(2), pp.89-92.
- Ramaditya, N.A., Besung, I.N.K., & Mahardika, I.G.N.K. 2019. Deteksi dan Sekuensing Gen *iroN*, *iutA*, dan *hlyF* pada Avian Pathogenic *Eschericia coli*. *Veteriner Udayana*, 11(2), pp. 229-238.
- Roslim, D.I., & Fitriani, A. 2021. Barkoding DNA pada tumbuhan durik-durik (*Syzygium* sp.) asal Riau menggunakan daerah gen *ndhF*. *Jurnal Bios Logos*, 11(1), pp.41-46.
- Saif, R., Nadeem, S., Khaliq, A., Zia, S., & Iftexhar, A. 2022. Mathematical understanding of sequence alignment and phylogenetic algorithms: A comprehensive review of computation of different methods. *Advancements in Life Sciences*, 9(4), pp. 401-411.
- Samiyarsih, S., Naipospos, N., & Palupi, D. 2019. Variability of *Catharanthus roseus* based on morphological and anatomical characters, and chlorophyll contents. *Biodiversitas*, 20(10), pp.2986-2993.
- Sari, V.N., Ganefianti, D.W., & Handajaningsih, M. 2021. Karakterisasi, variabilitas genetik dan heritabilitas genotipe tapak dara (*Catharanthus roseus*). *Jurnal Agronomi*, 49(3), pp.308-315.
- Schoch, C.L., Ciuffo, S., Domrachev, M., Hotton, C.L., Kannan, S., Khovanskaya, R., Leipe, D., Mcveigh, R., O'neill, K., Robbertse, B., Shobha, S., Soussov, V., Sullivan, J.P., Sun, L., Turner, S., & Mizrachi, I.K. 2020. NCBI Taxonomy: a comprehensive update on curation, resources and tools. *Database*, 1(1), pp.1-21.
- 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), pp.36-40.
- Sharma, A., Amin, D.A., Sankaranarayanan., Arora, R., & Mathur, A.K. 2019. Present status of *Catharanthus roseus* monoterpenoid indole alkaloids engineering in homo- and hetero-logous system. *Biotechnology Letters*, 1(1), pp.1-13.

- She, J., Yan, H., Yang, J., Xu, W., & Su, Z., 2019. croFGD: *Catharanthus roseus* functional genomics database. *Frontiers in Genetics*, 10(238), pp.1-14.
- Susanto, A.H., Nuryanto, A., & Daryono, B.S. 2018. High connectivity among *Synedrella nodiflora* populations in Java Island based on intergenic spacer *atpB-rbcL*. *Biosaintifika*, 10(1), pp.41-47.
- Susanto, A.H., & Dwiati, M. 2019. Genetic difference between two phenotypically similar members of Asteraceae by the use of intergenic spacer *atpB-rbcL*. *Biosaintifika*, 11(3), pp.393-399.
- Susanto, A.H., & Dwiati, M. 2022. Short Communication: Assessment of cogongrass (*Imperata cylindrica* (L.) P. Beauv) genetic variation in Java, Indonesia using *atpB-rbcL* and *trnL-F* intergenic spacer. *Biodiversitas*, 23(5), pp.2760-2767.
- Susilo, A., Hartatik, T., & Artama, W.T. 2012. Amplifikasi DNA gen meat tenderness pada sapi bali (*Bos sondaicus*). *Jurnal Ilmu dan Teknologi Hasil Ternak*, 7(1), pp.19-23.
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M., & Kumar, S. 2011. MEGA5: Molecular Evolutionary Genetics Analysis using Maximum Likelihood, Evolutionary Distance, and Maximum Parsimony Methods. *Molecular Biology Evolution*, 28(10), pp.2731–2739.
- Tamura, K., Stecher, G., & Kumar, S. 2021. MEGA11: Molecular evolutionary genetics analysis version 11. *Molecular Biology Evolution*, 38(7), pp.3022-3027.
- Thompson, J.D., Higgins, D.G., & Gibson, T.J. 1994. CLUSTALW: Improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice. *Nucleic Acids Research*, 22(22), pp.4673-4680.
- Turrahmi, M., Nurhidayani., Hasyimuddin., & Pabendom, M.B. 2021. Uji kualitas dan kuantitas tanaman jewawut (*Setaria italic*) di Balai Penelitian Tanaman Serealia Kabupaten Maros. *Filogeni Jurnal Mahasiswa Biologi*, 1(2), pp. 57-62.
- Ulpa, M., Sitanggang, K.D., Walida, H., & Sepriani, Y. 2022. Karakteristik morfologi dan analisis kandungan senyawa fitokimia berbagai tapak dara (*Catharanthus roseus*). *Jurnal Mahasiswa Agroteknologi (Jmatek)*, 3(2), pp.49-57.
- Untu, P., Rumengan, I.F.M., & Ginting, E.L. 2015. Identifikasi mikroba yang koeksis dengan ascidia *Lissoclinum patella* menggunakan sekuens gen 16S rRNA. *Jurnal Pesisir dan Laut Tropis*, 2(1), pp. 23-33.
- Yadav, D. R.K., & Ercal, G. 2015. A comparative analysis of progressive multiple sequence alignment approaches using UPGMA and neighbour join based guide trees. *International Journal of Computer Science Engineering and Information Technology*, 5(3), pp. 1-9.
- Yuliani, Y., Yuniaty, A., & Susanto, A.H. 2017. Variasi sekuens DNA yang dimplifikasi menggunakan primer *atpB-rbcL* pada beberapa kultivar kacang tanah. *Scripta Biologica*, 4(1), pp.11-14.