

DAFTAR PUSTAKA

- Abraham, K., Buhrke, T., and Lampen, A. (2016). Bioavailability of cyanide after consumption of a single meal of foods containing high levels of cyanogenic glycosides: a crossover study in humans. *Archives of Toxicology*, 90(3), 559–574. <https://doi.org/10.1007/s00204-015-1479-8>, diakses pada 26 Januari 2024.
- Adebooye, O. C., and Phillips, O. T. (2006). Studies on seed characteristics and chemical composition of three morphotypes of *Mucuna pruriens* (L.) Medikus Fabaceae. *Food Chemistry*, 95(4), 658–663. <https://doi.org/10.1016/j.foodchem.2005.02.005>, diakses pada 26 Januari 2024.
- Akinola, S. A., Mwanza, M., and Ateba, C. N. (2019). Occurrence, genetic diversities and antibiotic resistance profiles of *Salmonella* serovars isolated from chickens. *Infection and Drug Resistance*, 12, 3327–3342. <https://doi.org/10.2147/IDR.S217421>, diakses pada 15 Februari 2024.
- Alamancos, G. P., Agirre, E., and Eyas, E. (2014). Methods to study splicing from high-throughput RNA sequencing data. *Methods in Molecular Biology*, 1126(Table 9), 357–397. https://doi.org/10.1007/978-1-62703-980-2_26, diakses pada 26 Januari 2024.
- Anggraito, Anggraito, Y. U., and Pukan, K. K. (2015). "Perubahan Karakter Kuantitatif *Mucuna pruriens* Generasi M1 Pasca Irradiasi Sinar Gamma Co-60". *Saintekno*, 13(1), 79–86. <https://doi.org/10.15294/saintekno.v13i1.5339>, diakses pada 26 Januari 2024.
- Antiabong, J. F., Ngoepe, M. G., and Abechi, A. S. (2016). Semi-quantitative digital analysis of polymerase chain reaction electrophoresis gel: Potential applications in low-income veterinary laboratories. *Veterinary World*, 9(9), 935–939. <https://doi.org/10.14202/vetworld.2016.935-939>, diakses pada 26 Januari 2024.
- Baby, C et al. (2022). Velvet bean (*Mucuna pruriens*): A sustainable protein source for tomorrow. *Legume Science*, 1–12. <https://doi.org/10.1002/leg3.178>, diakses pada 26 Januari 2024.
- Bhagwat, M., Young, L., and Robison, R. R. (2012). Using BLAT to find sequence similarity in closely related genomes. In *Current Protocols in Bioinformatics*. <https://doi.org/10.1002/0471250953.bi1008s37>, diakses pada 28 Januari 2024.

- Bolger, A. M., Lohse, M., and Usadel, B. (2014). Trimmomatic: A flexible trimmer for Illumina sequence data. *Bioinformatics*, 30(15), 2114–2120. <https://doi.org/10.1093/bioinformatics/btu170>., diakses pada 13 Januari 2024.
- Boter, M., and Diaz, I. (2023). Cyanogenesis, a Plant Defence Strategy against Herbivores. *International Journal of Molecular Sciences*, 24(8). <https://doi.org/10.3390/ijms24086982>., diakses pada 20 Januari 2024.
- Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor 13 Tahun 2016 Tentang Pengawasan Klaim Pada Label dan Iklan Pangan Olahan.
- Bushmanova *et al.* (2019). RnaSPAdes: A de novo transcriptome assembler and its application to RNA-Seq data. *GigaScience*, 8(9), 1–13. <https://doi.org/10.1093/gigascience/giz100>., diakses pada 17 Januari 2024.
- Cahyawati, P. N *et al.* (2017). Keracunan Akut Sianida. *Jurnal Kesehatan Masyarakat*, 1(1), 80–87. <https://doi.org/10.31227/osf.io/7w4za>., diakses pada 17 Januari 2024.
- Chabikwa *et al.* (2020). Transcriptomic analysis reveals new insights into the control of shoot branching in pea (*Pisum sativum*). *NAR Genomics and Bioinformatics*, 2(2), lqaa034. doi:10.1093/nargab/lqaa034., diakses pada 20 Februari 2024.
- Chen, J. S *et al.* (2017). Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. *Nature*, 550(7676), 407–410. <https://doi.org/10.1038/nature24268>., diakses pada 9 Januari 2024.
- Chen, S *et al.* (2018). Fastp: An ultra-fast all-in-one FASTQ preprocessor. *Bioinformatics*, 34(17), i884–i890. <https://doi.org/10.1093/bioinformatics/bty560>., diakses pada 17 Januari 2024.
- Regulation (EC) No 1334/2008 on flavourings and certain food ingredients with flavouring properties for use in and on foods and amending Council Regulation (EEC) No 1601/91, Regulations (EC) No 2232/96 and (EC) No 110/2008 and Directive 2000/13/EC.

- Fahmideh, L. *et al.* (2023). Transcriptome Analysis Methods: From the Serial Analysis of Gene Expression and Microarray to Sequencing new Generation Methods. *Biointerface Research in Applied Chemistry*, 13(6). <https://doi.org/10.33263/BRIAC136.543>., diakses pada 19 Januari 2024.
- FAO. (1996). An Introduction to the Basic Concepts of Food Security. *Food Security Information for Action*, 1–3. Retrieved from: <http://www.fao.org/3/a-al936e.pdf>, diakses pada 26 Juni 2024.
- Francisco, I. A., and Pinotti, M. H. P. (2000). Cyanogenic glycosides in plants. *Brazilian Archives of Biology and Technology*, 43(5), 487–492. <https://doi.org/10.1590/s1516-89132000000500007>., diakses pada 20 Januari 2024.
- Gao, Y *et al.* (2023). ESPRESSO: Robust discovery and quantification of transcript isoforms from error-prone long-read RNAseq data. *Science Advances*, 9(3), 1–12. <https://doi.org/10.1126/sciadv.abq5072>., diakses pada 7 Januari 2024.
- Gleadow, R. M., and Møller, B. L. (2014). Cyanogenic glycosides: Synthesis, physiology, and phenotypic plasticity. *Annual Review of Plant Biology*, 65, 155–185. <https://doi.org/10.1146/annurev-arplant-050213-040027>., diakses pada 23 Januari 2024.
- Grabherr, M. G *et al.* (2013). Trinity: reconstructing a full-length transcriptome without a genome from RNA-Seq data. *Nature Biotechnology*, 29(7), 644–652. <https://doi.org/10.1038/nbt.1883>. Trinity., diakses pada 18 Januari 2024.
- Grabherr, M. G *et al.* (2011). Full-length transcriptome assembly from RNA-Seq data without a reference genome. *Nature Biotechnology*, 29(7), 644–652. <https://doi.org/10.1038/nbt.1883>., diakses pada 20 Januari 2024.
- Gurumoorthi, P., Pugalenth, M., and Janardhanan, K. (2003). Nutritional Potential of Five Accessions of A South Indian Tribal Pulse *Mucuna pruriens var utilis*. *Tropical and Subtropical Agroecosystems*, 1(3), 97–106. Retrieved from <https://www.redalyc.org/pdf/939/93911288016.pdf> diakses pada 20 Januari 2024.

- Haas, B. J *et al.* (2013). De novo transcript sequence reconstruction from RNA-Seq: reference generation and analysis with Trinity. In *Nature protocols* (Vol. 8, Issue 8). <https://doi.org/10.1038/nprot.2013.084>. De., diakses pada 11 Januari 2024.
- Hao, S *et al.* (2022). Chromosomal-level genome of velvet bean (*Mucuna pruriens*) provides resources for L-DOPA synthetic research and development. *DNA Research*, 29(5), 1–8. <https://doi.org/10.1093/dnares/dsac031>., diakses pada 24 Januari 2024.
- Hao, Z *et al.* (2020). Rideogram: Drawing SVG graphics to visualize and map genome-wide data on the idiograms. *PeerJ Computer Science*, 6, 1–11. <https://doi.org/10.7717/peerj-cs.251>., diakses pada 19 Januari 2024.
- Henschel, R. *et al.* (2012). Trinity RNA-Seq assembler performance optimization. *ACM International Conference Proceeding Series*. <https://doi.org/10.1145/2335755.2335842>., diakses pada 21 Januari 2024.
- Holding, D. R *et al.* (2007). The maize Floury1 gene encodes a novel endoplasmic reticulum protein involved in zein protein body formation. *Plant Cell*, 19(8), 2569–2582. <https://doi.org/10.1105/tpc.107.053538>., diakses pada 13 Januari 2024.
- Holm, W. V., and Ghesquière, J. (2021). A Viability Quantitative PCR Dilemma: Are Longer Amplicons. *Journal of Virological Methods*, 87(5). <https://doi.org/10.1016/j.jviromet.2021.113895>., diakses pada 20 Januari 2024.
- Undang - Undang Republik Indonesia Nomor 18 Tahun 2012 Tentang Pangan.
- Karsch-Mizrachi, I., Takagi, T., and Cochrane, G. (2018). The international nucleotide sequence database collaboration. *Nucleic Acids Research*, 46(D1), D48–D51. <https://doi.org/10.1093/nar/gkx1097>., diakses pada 20 Januari 2024.
- Kim, D., Langmead, B., and Salzberg1, S. L. (2015). HISAT: a fast spliced aligner with low memory requirements Daehwan HHS Public Access. *Nature Methods*, 12(4), 357–360. <https://doi.org/10.1038/nmeth.3317>.HISAT., diakses pada 20 Januari 2024.

- Kocira, A. (2020). Legume cover crops as one of the elements of strategic weed management and soil quality improvement. A review. In *Agriculture (Switzerland)* (Vol. 10, Issue 9). <https://doi.org/10.3390/agriculture10090394>., diakses 20 Januari 2024.
- Kristianto, A. (2013). *Karakteristik Fisikokimia dan Sifat Fungsional Tepung Koro Benguk (Mucuna pruriens L.) Berprotein Tinggi*. (Skripsi Sarjana). Program Studi Ilmu dan Teknologi Pangan, Fakultas Teknologi Pertanian, Institut Pertanian Bogor.
- Kumar, A et al. (2016). MP-4 contributes to snake venom neutralization by *Mucuna pruriens* seeds through an indirect antibody-mediated mechanism. *Journal of Biological Chemistry*, 291(21), 11373–11384. <https://doi.org/10.1074/jbc.M115.699173>., diakses pada 20 Januari 2024.
- Kusuma, P.T.W.W et al. (2020). Studi Perbandingan Kebijakan Pangan Fungsional Di Indonesia Dan Beberapa Negara Lainnya. *Inovasi*, 17(1), 55–66. <https://doi.org/10.29244/j.inovasi.2020.17.1.55-66>., diakses pada 20 Januari 2024.
- Lai, D et al. (2020). Biosynthesis of cyanogenic glucosides in *Phaseolus lunatus* and the evolution of oxime-based defenses. *Plant Direct*, 4(8), 1–13. <https://doi.org/10.1002/pld3.244>., diakses pada 20 Januari 2024.
- Lampariello, L et al. (2012). The magic velvet bean of *Mucuna pruriens*. *Journal of Traditional and Complementary Medicine*, 2(4), 331–339. [https://doi.org/10.1016/S2225-4110\(16\)30119-5](https://doi.org/10.1016/S2225-4110(16)30119-5)., diakses pada 20 Januari 2024.
- Leggett, R. M et al. (2013). Sequencing quality assessment tools to enable data-driven informatics for high throughput genomics. *Frontiers in Genetics*, 4(DEC), 1–5. <https://doi.org/10.3389/fgene.2013.00288>., diakses pada 20 Januari 2024.
- Liu, Q., Fang, L., and Wu, C. (2022). Alternative Splicing and Isoforms: From Mechanisms to Diseases. *Genes*, 13(3). <https://doi.org/10.3390/genes13030401>., diakses pada 20 Januari 2024.
- Liu, X et al. (2022). A comparison of transcriptome analysis methods with reference genome. *BMC Genomics*, 23(1), 1–15. <https://doi.org/10.1186/s12864-022-08465-0>., diakses 5 Januari 2024.

- Livak, K. J., and Schmittgen, T. D. (2001). *Analysis of Relative Gene Expression Data Using Real- Time Quantitative PCR and the $2^{-\Delta\Delta Ct}$ Method*. 408(2001), 402–408. <https://doi.org/10.1006/meth.2001.1262>., diakses pada 20 Januari 2024.
- Lowe, R et al. (2017). Transcriptomics technologies. *PLoS Computational Biology*, 13(5), 1–23. <https://doi.org/10.1371/journal.pcbi.1005457>., diakses pada 17 Desember 2023.
- McCarthy, C. G et al. (2012). A dietary supplement containing *Chlorophytum borivilianum* and Velvet bean improves sleep quality in men and women. *Integrative Medicine Insights*, 2012(7), 7–14. <https://doi.org/10.4137/IMI.S9720>., diakses pada 17 Desember 2023.
- Misra, L., and Wagner, H. (2007). Extraction of bioactive principles from *Mucuna pruriens* seeds. *Indian Journal of Biochemistry and Biophysics*, 44(1), 56–60. PMID: 17385342. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/17385342/> diakses pada 27 Desember 2023.
- Modi, B et al. (2021). Current Trends of Food Analysis, Safety, and Packaging. *International Journal of Food Science*, 2021. <https://doi.org/10.1155/2021/9924667>., diakses pada 17 Desember 2023.
- Mulyani, L., Kartadarma, E., dan Fitrianiingsih, S. P. (2016). Manfaat dan kandungan kacang kara benguk (*Mucuna pruriens* L.) sebagai obat. *Prosiding Farmasi*, 351–357. Retrieved from <https://karyailmiah.unisba.ac.id/index.php/farmasi/article/view/4293/0> diakses pada 17 Desember 2023.
- National Center for Biotechnology Information (NCBI). (2016). Bioproject PRJNA319685: De novo assembly on leaf, root, and seed tissues of *Mucuna pruriens*. Texas Tech University. Retrieved from <https://www.ncbi.nlm.nih.gov/bioproject/?term=PRJNA319685>, diakses pada 17 Desember 2023.
- Nyirenda, K. K. (2020). Toxicity Potential of Cyanogenic Glycosides in Edible Plants. *Intech*, 11(tourism), 13. Retrieved from <https://www.intechopen.com/books/advanced-biometric-technologies/liveness-detection-in-biometrics>, diakses pada 17 Desember 2023.

- Patel, J. S., and Sarma, B. K. (2018). Designing and experimental evaluation of gene-specific primers of pea (*Pisum sativum*) defense proteins. 3 *Biotech*, 8(11), 1–4. <https://doi.org/10.1007/s13205-018-1508-4>., diakses pada 23 Desember 2023.
- Piazzzi, M *et al.* (2023). Alternative Splicing, RNA Editing, and the Current Limits of Next Generation Sequencing. *Genes*, 14(7). <https://doi.org/10.3390/genes14071386>., diakses pada 23 Desember 2023.
- Pičmanová, M *et al.* (2015). A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. *Biochemical Journal*, 469(3), 375–389. <https://doi.org/10.1042/BJ20150390>., diakses pada 23 Desember 2023.
- Pratiwi, D *et al.* (2023). Review Artikel : Analisis Senyawa Sianogenik Pada Tanaman. *Journal Farmasetis*, 12(1), 9–14. Retrieved from <https://journal2.stikeskendal.ac.id/index.php/far/article/view/687/531>, diakses pada 23 Desember 2023.
- Purwaningsih, Y. Y. (2008). Ketahanan pangan: situasi, permasalahan, kebijakan, dan pemberdayaan masyarakat. *Jurnal Ekonomi Pembangunan*, 9(1). <https://doi.org/10.23917/jep.v9i1.1028>., diakses pada 29 Desember 2023.
- Raghavan, V., Kraft, L., Mesny, F., and Rigerte, L. (2022). A simple guide to de novo transcriptome assembly and annotation. *Briefings in Bioinformatics*, 23(2), 1–30. <https://doi.org/10.1093/bib/bbab563>., diakses pada 23 Desember 2023.
- Retnaningsih, C., Setiawan, A., dan Sumardi. (2011). "Potensi Antiplatelet Kacang Koro (*Mucuna pruriens* L). Dari Fraksi Heksan Dibandingkan Dengan Aspirin Pada Tikus Hiperkolesterolemia". *Seri Kajian Ilmiah*, Volume 14, Nomor 1, 80–88.
- Reyes, F. C *et al.* (2011). Delivery of prolamins to the protein storage vacuole in maize aleurone cells. *Plant Cell*, 23(2), 769–784. <https://doi.org/10.1105/tpc.110.082156>., diakses pada 23 Desember 2023.
- Sathiyarayanan, L., and Arulmozhi, S. (2019). *Mucuna pruriens* Linn.-a comprehensive review. *Pharmacognosy Reviews*, 1(1), 157–162. Retrieved from <http://www.phcogrev.com>, diakses 23 Desember 2023.

- Sathyanarayana *et al.* (2017). Transcriptomic resources for the medicinal legume *Mucuna pruriens*: De novo transcriptome assembly, annotation, identification and validation of EST-SSR markers. *BMC Genomics*, 18(1), 1–19. <https://doi.org/10.1186/s12864-017-3780-9>., diakses pada 17 Januari 2023.
- Schoch, S *et al.* (2001). SNARE function analyzed in synaptobrevin/VAMP knockout mice. *Science*, 294(5544), 1117–1122. <https://doi.org/10.1126/science.1064335>., diakses pada 23 Desember 2023.
- Schrenk, D *et al.* (2019). Evaluation of the health risks related to the presence of cyanogenic glycosides in foods other than raw apricot kernels. *EFSA Journal*, 17(4). <https://doi.org/10.2903/j.efsa.2019.5662>., diakses pada 29 Desember 2023.
- Shukla, K. K *et al.* (2010). *Mucuna pruriens* Reduces Stress and Improves the Quality of Semen in Infertile Men. 7(December 2007), 137–144. <https://doi.org/10.1093/ecam/nem171>., diakses pada 23 Desember 2023.
- Simão, F. A *et al.* (2015). BUSCO: Assessing genome assembly and annotation completeness with single-copy orthologs. *Bioinformatics*, 31(19), 3210–3212. <https://doi.org/10.1093/bioinformatics/btv351>., diakses pada 23 Desember 2023.
- Su, T *et al.* (2023). Identification of Splice Variants and Isoforms in Transcriptomics and Proteomics. *Annual Review of Biomedical Data Science*, 6, 357–376. <https://doi.org/10.1146/annurev-biodatasci-020722-044021>., diakses pada 29 Desember 2023.
- Suryawanshi, S. S *et al.* (2010). Bioactive Components of Magical Velvet Beans. *Intech*, 34(8), 57–67. <http://dx.doi.org/10.1016/j.compmedimag.2010.07.003>., diakses pada 29 Desember 2023.
- Takos, A. M *et al.* (2011). Genomic clustering of cyanogenic glucoside biosynthetic genes aids their identification in *Lotus japonicus* and suggests the repeated evolution of this chemical defence pathway. *Plant Journal*, 68(2), 273–286. <https://doi.org/10.1111/j.1365-313X.2011.04685.x>., diakses pada 29 Desember 2023.

Tyagi, P *et al.* (2021). Mechanism and function of salicylate in plant toward biotic stress tolerance. In *Emerging Plant Growth Regulators in Agriculture: Roles in Stress Tolerance* (Issue September). <https://doi.org/10.1016/B978-0-323-91005-7.00018-7>., diakses pada 29 Desember 2023.

Untergasser, A *et al.* (2012). Primer3-new capabilities and interfaces. *Nucleic Acids Research*, 40(15), 1–12. <https://doi.org/10.1093/nar/gks596>., diakses pada 29 Desember 2023.

Vaquero-Garcia. *et al.* (2023). RNA splicing analysis using heterogeneous and large RNA-seq datasets. *Nature Communications*, 14(1). <https://doi.org/10.1038/s41467-023-36585-y>., diakses pada 26 Januari 2024.

Wang, Z., Gerstein, M., and Snyder, M. (2010). RNA-Seq: a revolutionary tool for transcriptomics. *Nature Reviews Genetics*, 10(1), 57–63. <https://doi.org/10.1038/nrg2484>.RNA-Seq., diakses pada 26 Januari 2024.

Yulvianti, M., and Zidorn, C. (2021). Chemical diversity of plant cyanogenic glycosides: An overview of reported natural products. *Molecules*, 26(3). <https://doi.org/10.3390/molevaqueroles26030719>., diakses pada 26 Januari 2024.

