

DAFTAR PUSTAKA

- Acevedo-Rodríguez, P. (2005). *Vines and Climbing Plants of Puerto Rico and the Virgin Islands*. Contribution from the United States National Herbarium, 51, 1-483. Washington DC: Department of Botany, National Museum of Natural History, Smithsonian Institution.
- Ajomiwe, N., Boland, M., Phongthai, S., Bagiyal, M., Singh, J., & Kaur, L. (2024). "Protein Nutrition: Understanding Structure, Digestibility, and Bioavailability for Optimal Health". *Journal of Foods*, 13(11), 1-15. <https://doi.org/10.3390/foods13111771>.
- Anicic, N., Patelou, E., Papanikolaou, A., Kanioura, A., Valdesturli, C., Arapitsas, P., Skoric, M., Dragicevic, M., Gasic, U., Koukounaras, A., Kostas, S., Sarrou, E., Martens, S., Misic, D., & Kanellis, A. (2021). "Comparative Metabolite and Gene Expression Analyses in Combination with Gene Characterization Revealed the Patterns of Flavonoid Accumulation During *Cistus creticus* subsp. *creticus* Fruit Development". *Frontiers in Plant Science*, 12(1), 1-29. doi: 10.3389/fpls.2021.619634.
- Annunziata, A., Vecchio, R., & Kraus, A. (2015). "Awareness and Preference for Functional Foods: The Perspective of Older Italian Consumers". *International Journal of Consumer Studies*, 39(4), 352–361. <https://doi.org/10.1111/ijcs.12202>.
- Azzahra, Uzwathul Fathiha. (2024). *Analisis Kandungan Nutrisi dan Anti Nutrisi Biji Koro Benguk (Mucuna spp.) Sebagai Alternatif Pengganti Protein Dalam Rangka Mendukung Ketahanan Pangan Nasional* (Skripsi Sarjana). Program Studi Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam Militer, Universitas Pertahanan Republik Indonesia.
- Bahdanovich, P., Axelrod, K., Khlystov, A.Y., & Samburova, V. (2022). "Optimized Spectrophotometry Method for Starch Quantification". *Journals of Analytica*, 3(4), 394-405. <https://doi.org/10.3390/analytica3040027>.
- Bolarinwa, I. F., Orfila, C., & Morgan, M. R. A. (2015). "Determination of Amygdalin in Apple Seeds, Fresh Processed Apple Juices". *Food Chemistry*, 170(1), 437–442. <https://doi.org/10.1016/j.foodchem.2014.08.083>.
- Bressani, R., Brenes, R. G., Garcia, A., & Elias, L.G. (1987). "Chemical composition, amino acid content and protein quality of *Canavalia* spp. seeds". *Journal of the Science of Food and Agriculture*, 40(1), 17-23.

<https://doi.org/10.1002/jsfa.2740400104>.

- Bustin, S.A., Benes, V., Garson, J.A., Hellems, J., Huggett, J., Kubista, M., Mueller, R., Nolan, T., Pfaffl, M.W., Shipley, G.L., Vandesompele, J. & Wittwer, C.T. (2009). "The MIQE guidelines: Minimum information for publication of quantitative real-time PCR experiments". *Clinical chemistry*, 55(4), 611-622. doi: 10.1373/clinchem.2008.112797.
- Darini, Maria Theresia. (2021). "The Potential of Jack Bean (*Canavalia ensiformis* L.) Developed in Suboptimal Soil to Succeeding Food Sufficiency". *International Journal of Current Science Research and Review*, 4(7), 740-744. doi:10.47191/ijcsrr/V4-i7-17.
- Ding, Q., Liu, H., Lin, R., Wang, Z., Jian, S., & Zhang, M. (2023). "Genome-wide functional characterization of *Canavalia rosea* cysteine-rich trans-membrane module (CrCYSTM) genes to reveal their potential protective roles under extreme abiotic Stress". *Plant Physiology and Biochemistry*, 200(1). <https://doi.org/10.1016/j.plaphy.2023.107786>.
- Ekanayake, S., Jansz, E. R., & Nair, B. M. (2000). "Literature review of an underutilized legume: *Canavalia gladiata* L.". *Plant Foods for Human Nutrition*, 55(4), 305–321. <https://doi.org/10.1023/A:1008119107738>.
- Febles, E.A.V. (2017). "*Canavalia ensiformis* (Jack Bean)". Retrieved from <https://doi.org/10.1079/cabicompendium.14486> diakses pada 20 September 2024.
- GBIF (Global Biodiversity Information Facility). (2024). "*Canavalia ensiformis* (L.) DC". Retrieved from <https://www.gbif.org/species/7799711> diakses pada 30 Agustus 2024.
- Gil, M., Rudy, M., Duma-Kocan, P., Stanislawczyk, R., Krajewska, A., Dziki, D., & Hassoon, W.H. (2024). "Sustainability of Alternatives to Animal Protein Sources, a Comprehensive Review". *Journal of Sustainability*, 16(17), 1-27. <https://doi.org/10.3390/su16177701>.
- HATPI (Himpunan Ahli Teknologi Pangan Indonesia). (2022). "Ketahanan dan Keamanan Pangan Indonesia: Isu, Strategi, dan Arah Kebijakan". Retrieved from https://patpi.or.id/wp-content/uploads/2023/01/PATPI_ketahanan-keamanan-pangan-Indonesia.pdf diakses pada 31 Agustus 2024.
- Jha, U.C., Nayyar, H., Parida, S.K., Deshmukh, R., Wettberg, E.J.B.V., & Siddique, K.H.M. (2022). "Ensuring Global Food Security by Improving Protein Content in Major Grain Legumes Using Breeding and Omics Tools". *International Journal of Molecular Sciences*, 23(14), 1-27.

- Kim, T. K., & Park, J. H. (2019). "More About the Basic Assumptions of T-Test: Normality and Sample Size". *Korean Journal of Anesthesiology*, 72(4), 331-335.
- Kubista, M., Andrade, J.M., Bengtsson, M., Forootan, A., Jonák, J., Lind, K., Sindelka, R., Sjöback, R., Sjögreen, B., Strömbom, L. & Zoric, N. (2006). "The Real-Time Polymerase Chain Reaction". *Molecular aspects of medicine*, 27(2-3), 95-125.
- Kuliah Sari, D.E., Sari, I.N.I., Estiasih, T. (2021). "Cyanide Detoxification Methods in Food: A Review". *IOP Conference Series: Earth and Environmental Science*, 733(1), 1-7.
- Kusumawardhani, N., & Sulistyati, h. (2015). "Penentuan Panjang Gelombang Maksimum dan pH Optimum dalam Pembuatan Tes Kit Sianida Berdasarkan Pembentukan Hidrindantin". *Kimia Student Journal*, 11(1), 711-717. Retrieved from <https://www.neliti.com/publications/249790/penentuan-panjang-gelombang-maksimum-dan-ph-optimum-dalam-pembuatan-tes-kit-sian->, diakses pada 20 September 2024.
- Lachowicz, J. I., Jan, A., & Jan, O.A. (2024). "Cyanide and Cyanogenic Compounds – Toxicity, Molecular Targets, and Therapeutic Agents". *Biomolecules* 2024, 14(11), 1-19. <https://doi.org/10.3390/biom14111420>.
- Lai, D., Maimann, A.B., Macea, E., Ocampo, C.H., Cardona, G., Picmanova, M., Darbani, B., Olsen, C. E., Debouck, D., Raatz, B., Moller, B. L., & Rook, F. (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>.
- Livak, K. J., & Schmittgen, T. D. (2001). "Analysis of Relative Gene Expression Data Using Real-Time Quantitative PCR and the $2^{-\Delta\Delta Ct}$ Method". *Journal of Methods*, 25(4), 402–408. <https://doi.org/10.1006/meth.2001.1262>.
- Mayerhöfer, T. G., & Popp, J. (2019). "Beer's Law – Why Absorbance Depends (almost) Linearly on Concentration". *Journal of Chemphyschem*, 20(4), 511-515.
- Mishra, P., Pandey, C. M., Singh, U., Gupta, A., Sahu, C., & Keshri, A. (2019). "Descriptive Statistics and Normality Tests for Statistical Data". *Annals of Cardiac Anaesthesia*, 22(1), 67–72. https://doi.org/10.4103/aca.ACA_157_18, diakses pada 18 Februari 2025.
- Nisa, A. K. (2018). *Karakterisasi dan Analisis Kekerabatan 16 Aksesi Koro Lokal* (Skripsi Sarjana). Program Studi Agroekoteknologi, Fakultas Pertanian, Universitas Brawijaya.

- Nyirenda, Kumbukani K. (2021). "Toxicity Potential of Cyanogenic Glycosides in Edible Plants". *IntechOpen*, 1-19. <https://doi.org/10.5772/intechopen.91408>.
- Odeku, O. A., Ogunniyi, Q. A., Ogbole, O. O., & Fettke, J. (2024). "Forgotten Gems: Exploring the Untapped Benefits of Underutilized Legumes in Agriculture, Nutrition, and Environmental Sustainability". *Journal of Plants*, 13(9), 1-17. <https://doi.org/10.3390/plants13091208>.
- Orwa, C., Mutua, A., Kindt, R., Jamnadass, R., Anthony, S., (2009). "Agroforestry Database: A Tree Reference and Selection Guide Version 4.0". Retrieved from <https://www.worldagroforestry.org/output/agroforestry-database>, diakses pada 29 Agustus 2024.
- Pramitha, A. R., Harijono, H., & Wulan, S.N. (2021). "Comparison of Cyanide Content in Arbil Beans (*Phaseolus lunatus* L.) of East Nusa Tenggara Using Picrate and Acid Hydrolysis Methods". *IOP Conference Series: Earth and Environmental Science*, 924(1), 1-6. <https://doi.org/10.1088/1755-1315/924/1/012031>.
- Prasetyowati, S.E., & Sunaryo, Y. (2022). "Seed Nutrient and Leaf Mineral Content of Jack Bean (*Canavalia ensiformis* L) Cultivated with Organic and Bio-Fertilizers in Grumusol Soil". *Current Applied Science and Technology*, 23(1), 1-8.
- Pratiwi, D., Diba, M., Elsyah, M., Gita, K. P., Tintia, R.P. (2023). "Review Artikel: Analisis Senyawa Sianogenik pada Tanaman". *Jurnal Farmasetis*, 12(1), 9-14. Retrieved from <https://journal2.stikeskendal.ac.id/index.php/far/article/view/687>, diakses pada 27 Februari 2025.
- Pu, L., Lin, R., Zou, T., Wang, Z., Zhang, M., & Jian, S. (2021). "Genome-Wide Identification, Primary Functional Characterization of the NHX Gene Family in *Canavalia rosea*, and Their Possible Roles for Adaptation to Tropical Coral Reefs". *Genes*, 13(1), 1-23. <https://doi.org/10.3390/genes13010033>.
- Rahayu, T. (2024). *Identifikasi dan Analisis Ekspresi Gen Terkait Biosintesis Glikosida Sianogenik Melalui Pendekatan Transkriptomik pada Mucuna pruriens Guna Mendukung Keamanan Pangan* (Skripsi Sarjana). Program Studi Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam Militer, Universitas Pertahanan Republik Indonesia.
- Ramli, N. A. M., Chen, Y. H., Mohd Zin, Z., Abdullah, M. A. A., Rusli, N. D., & Zainol, M. K. (2021). "Effect of Soaking Time and Fermentation on the Nutrient and Antinutrients Composition of *Canavalia ensiformis* (Kacang Koro)". *IOP Conference Series: Earth and Environmental*

- Science*, 756(1), 1-8. <https://doi.org/10.1088/1755-1315/756/1/012033>.
- Reyes, F. C., Chung, T., Holding, D., Jung, R., Vierstra, R., & Otegui, M. S. (2011). "Delivery of Prolamins to the Protein Storage Vacuole in Maize Aleurone Cells". *The Plant Cell*, 23(2), 769–784. <https://doi.org/10.1105/tpc.110.082156>.
- Saragih, M. P., Suharsi, T. K., & Qadir Abdul. (2018). "Pertumbuhan dan Pembungaan Tanaman Koro Pedang (*canavalia ensiformis*) pada Kondisi Ternaungi dan Kombinasi Pemupukan Berbeda". *Buletin Agrohorti*, 6(3), 382–387. <https://doi.org/10.29244/agrob.v6i3.21106>.
- Sari, E.M., Nurfajriah, S., & Ramadhyan, D. (2022). "Perbandingan Senyawa Sianida pada Daun Singkong dengan Perendaman NaHCO_3 dan Ca(OH)_2 ". *Journal of Research and Education Chemistry*, 4(1), 9-28.
- Schrenk, D., Bignami, M., Bodin, L., Chipman, J. K., del Mazo, J., Grasl-Kraupp, B., Hogstrand, C., Hoogenboom, L. (Ron), Leblanc, J., Nebbia, C. S., Nielsen, E., Ntzani, E., Petersen, A., Sand, S., Vlemminckx, C., Wallace, H., Benford, D., Brimer, L., Mancini, F. R., & Schwerdtle, T. (2019). "Evaluation of the Health Risks Related to the Presence of Cyanogenic Glycosides in Foods Other than Raw Apricot Kernels". *EFSA Journal*, 17(4), 1-78. <https://doi.org/10.2903/j.efsa.2019.5662>.
- Sherasia, P. L., Garg, M. R., & Bhandari, B. M. (2018). "Pulses and Their by-Products as Animal Feed (T. Calles & H. P. S. Makkar, Eds.)". *United Nations*. <https://doi.org/10.18356/9aa0e148-en>.
- Sridhar, K.R., & Sharma, B.B. (2021). "Bioactive Compounds of Jack Beans (*Canavalia* species)". *Springer*. https://doi.org/10.1007/978-3-030-57415-4_26.
- Tahir, F., Ali, E., Hassan, S. A., Bhat, Z. F., Walayat, N., Nawaz, A., Mousavi Khaneghah, A., Phimolsiripol, Y., Khan, M. R., & Aadil, R. M. (2024). "Cyanogenic Glucosides in Plant-Based Foods: Occurrence, Detection Methods, and Detoxification Strategies – A Comprehensive Review". *Microchemical Journal*, 199(1). <https://doi.org/10.1016/j.microc.2024.110065>.
- Topolska, K., Florkiewicz, A., & Filipiak-Florkiewicz, A. (2021). "Functional Food—Consumer Motivations and Expectations". *International Journal of Environmental Research and Public Health*, 18(10), 1-14. <https://doi.org/10.3390/ijerph18105327>.
- Undang-Undang RI Nomor 18 Tahun 2012 tentang Ketahanan Pangan.
- UHSA (UK Health Security Agency). (2022). "Hydrogen cyanide: toxicology overview". Retrieved from <https://www.gov.uk/government/publications/hydrogen-cyanide->

properties-incident-management-and-toxicology/hydrogen-cyanide-toxicological-overview diakses pada 6 Oktober 2024.

USDA (United States Department of Agriculture). (2023). *Food security in the US*. Retrieved from <https://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-us> diakses pada 31 Agustus 2024.

Vetter, J. (2017). "Plant Cyanogenic Glycosides". *Natural Compunds in Plant-Based Foods*, 2(1), 287–317. https://doi.org/10.1007/978-94-007-6464-4_19.

WHO (World Health Organization). (2023). "Natural Toxins in Food". Retrieved from <https://www.who.int/news-room/fact-sheets/detail/natural-toxins-in-food> diakses pada 31 Agustus 2024.

Yulvianti, M., and Zidorn, C. (2021). "Chemical Diversity of Plant Cyanogenic Glycosides: An Overview of Reported Natural Products". *Journal of Molecules*, 26(3), 1-19. <https://doi.org/10.3390/molecules26030719>.

