

DAFTAR PUSTAKA

- Abdel-Aal, E.-S. M., Young, J. C., & Rabalski, I. (2006). Anthocyanin Composition in Black, Blue, Pink, Purple, and Red Cereal Grains. *Journal of Agricultural and Food Chemistry*, 54(13), 4696–4704. <https://doi.org/10.1021/jf0606609>
- Abdullah, R., Lee, P. M., & Lee, K. H. (2010). Multiple color and pH stability of floral anthocyanin extract: *Clitoria ternatea*. *2010 International Conference on Science and Social Research (CSSR 2010)*, 254–258. <https://doi.org/10.1109/CSSR.2010.5773778>
- Aboul-Maaty, N. A. F., & Oraby, H. A. S. (2019). Extraction of high-quality genomic DNA from different plant orders applying a modified CTAB-based method. *Bulletin of the National Research Centre*, 43(1), 1-10.
- Akhter, D., Qin, R., Nath, U. K., Eshag, J., Jin, X., & Shi, C. 2019. A rice gene, OsPL, encoding a MYB family transcription factor confers anthocyanin synthesis, heat stress response and hormonal signaling. *Gene*, 699, 62–72. <https://doi.org/10.1016/j.gene.2019.03.013>
- Alappat, B., & Alappat, J. (2020). Anthocyanin pigments: Beyond aesthetics. *Molecules*, 25(23), 5500.
- Amelia F, Afnani GN, Musfiroh A, Fikriyani AN, Ucche S, Murrukmihadi M. (2013). Extraction And Stability Test of Anthocyanin from Buni Fruits (*Antidesma bunius* L) as an Alternative Natural and Safe Food Colorants. *J.food.Pharm.Sci.* 1:49-53
- Aspden, J. L., Wallace, E. W. J., & Whiffin, N. (2023). Not all exons are protein coding: Addressing a common misconception. *Cell Genomics*, 3(4), 100296. <https://doi.org/10.1016/j.xgen.2023.100296>
- Bae, I. Y., An, J. S., Oh, I. K., & Lee, H. G. (2017). Optimized preparation of anthocyanin-rich extract from black rice and its effects on in vitro digestibility. *Food Science and Biotechnology*, 26(5), 1415–1422. <https://doi.org/10.1007/s10068-017-0188-x>
- Baliyan, S., Mukherjee, R., Priyadarshini, A., Vibhuti, A., Gupta, A., Pandey, R. P., & Chang, C. M. (2022). Determination of Antioxidants by DPPH Radical Scavenging Activity and Quantitative Phytochemical Analysis of *Ficus religiosa*. *Molecules (Basel, Switzerland)*, 27(4), 1326. <https://doi.org/10.3390/molecules27041326>
- Bidyaleima L, Kishor R, Sharma GJ. 2019. Chromosome numbers, RAPD and ISSR profiles of six Zingiber species found in Manipur, India. *BIODIVERSITAS*. 20(5),1389-1397. DOI: 10.13057/biodiv/d200531
- Bontempo, P., De Masi, L., Carafa, V., Rigano, D., Scisciola, L., Iside, C., Grassi, R., Molinari, A. M., Aversano, R., Nebbioso, A., Carpato, D., & Altucci, L. 2015. Anticancer activities of anthocyanin extract from genotyped *Solanum tuberosum* L. “Vitelotte.” *Journal of Functional Foods*, 19, 584–593. <https://doi.org/10.1016/j.jff.2015.09.063>

- Cañizares, L., Meza, S., Peres, B., Rodrigues, L., Jappe, S. N., Coradi, P. C., & Oliveira, M. D. (2024). Functional Foods from Black Rice (*Oryza sativa* L.): An Overview of the Influence of Drying, Storage, and Processing on Bioactive Molecules and Health-Promoting Effects. *Foods*, 13(7), 1088.
- Cao L, Xua X, Chen S, Ma H. 2016. Cloning and expression analysis of *Ficus carica* anthocyanidin synthase 1 gene. *Scientia Horticulturae* 211: 369–375
- Charmongkolpradit, S., Somboon, T., Phatchana, R., Sang-aroon, W., & Tanwanichkul, B. (2021). Influence of drying temperature on anthocyanin and moisture contents in purple waxy corn kernel using a tunnel dryer. *Case Studies in Thermal Engineering*, 25, 100886.
- Chaves, N., Santiago, A., & Alías, J. C. (2020). Quantification of the antioxidant activity of plant extracts: Analysis of sensitivity and hierarchization based on the method used. *Antioxidants*, 9(1), 76
- Chu, Y., Yu, D., Li, Y., Huang, K., Shen, Y., Cong, L., ... & Wang, M. (2024). A 5' UTR language model for decoding untranslated regions of mRNA and function predictions. *Nature Machine Intelligence*, 6(4), 449-460.
- Chuang, L.-Y., Cheng, Y.-H., & Yang, C.-H. (2013). Specific primer design for the polymerase chain reaction. *Biotechnology Letters*, 35(10), 1541–1549. <https://doi.org/10.1007/s10529-013-1249-8>
- Clark DP dan Pazdernik NJ. (2013). *Molecular Biology (Second Edition)*. Academic Press. <https://doi.org/10.1016/B978-0-12-378594-7.00008-1>
- Das, A. B., Goud, V. V., & Das, C. (2020). Degradation kinetics of anthocyanins from purple rice bran and effect of hydrocolloids on its stability. *Journal of Food Process Engineering*, 43(4), e13360.
- Delgado-Vargas, F., Jiménez, A. R., & Paredes-López, O. (2000a). Natural Pigments: Carotenoids, Anthocyanins, and Betalains — Characteristics, Biosynthesis, Processing, and Stability. *Critical Reviews in Food Science and Nutrition*, 40(3), 173–289. <https://doi.org/10.1080/10408690091189257>
- Deng, G.-F., Xu, X.-R., Zhang, Y., Li, D., Gan, R.-Y., & Li, H.-B. (2013a). Phenolic Compounds and Bioactivities of Pigmented Rice. *Critical Reviews in Food Science and Nutrition*, 53(3), 296–306. <https://doi.org/10.1080/10408398.2010.529624>
- Dhar, A & Minin, V.N. (2016). Maximum Likelihood Phylogenetic Inference. Encyclopedia of Evolutionary Biology. 10.1016/B978-0-12-800049-6.00207-9.
- Enaru, B., Drețcanu, G., Pop, T. D., Stănilă, A., & Diaconeasa, Z. (2021). Anthocyanins: Factors affecting their stability and degradation. *Antioxidants*, 10(12), 1967.
- Farooq, S., Shah, M. A., Siddiqui, M. W., Dar, B. N., Mir, S. A., & Ali, A. (2020). Recent trends in extraction techniques of anthocyanins from plant materials. *Journal of Food Measurement and Characterization*, 14, 3508-3519.

- Fernandes, I., Faria, A., de Freitas, V., Calhau, C., & Mateus, N. 2015. Multiple-approach studies to assess anthocyanin bioavailability. *Phytochemistry Reviews*, 14(6), 899–919. <https://doi.org/10.1007/s11101-015-9415-3>
- Gautam, A. (2022). *Applications of DNA Sequencing Technologies for Current Research*. In: *DNA and RNA Isolation Techniques for Non-Experts. Techniques in Life Science and Biomedicine for the Non-Expert*. Springer, Cham. https://doi.org/10.1007/978-3-030-94230-4_23
- Giannetti, L., Gallo, V., Necci, F., Marini, F., Giorgi, A., Sonego, E., ... & Neri, B. (2023). LC-HRMS analysis of 13 classes of pharmaceutical substances in food supplements. *Food Additives & Contaminants: Part B*, 16(3), 253–265.
- Green, M. R., & Sambrook, J. (2018). The basic polymerase chain reaction (PCR). *Cold Spring Harbor Protocols*, 2018(5), pdb-prot095117.
- Grotewold, E. (2006). The genetics and biochemistry of floral pigments. *Annu. Rev. Plant Biol.*, 57(1), 761–780.
- He, F., Mu, L., Yan, G.-L., Liang, N.-N., Pan, Q.-H., Wang, J., Reeves, M. J., & Duan, C.-Q. (2010). Biosynthesis of Anthocyanins and Their Regulation in Colored Grapes. *Molecules*, 15(12), 9057–9091. <https://doi.org/10.3390/molecules15129057>
- He, K., Li, X., Chen, X., Ye, X., Huang, J., Jin, Y., ... & Shu, H. (2011). Evaluation of antidiabetic potential of selected traditional Chinese medicines in STZ-induced diabetic mice. *Journal of ethnopharmacology*, 137(3), 1135–1142.
- Hu, C., Zawistowski, J., Ling, W., & Kitts, D. D. (2003). Black Rice (*Oryza sativa L. indica*) Pigmented Fraction Suppresses both Reactive Oxygen Species and Nitric Oxide in Chemical and Biological Model Systems. *Journal of Agricultural and Food Chemistry*, 51(18), 5271–5277. <https://doi.org/10.1021/jf034466n>
- Huang, D., Ou, B., & Prior, R. L. (2005). The Chemistry behind Antioxidant Capacity Assays. *Journal of Agricultural and Food Chemistry*, 53(6), 1841–1856. <https://doi.org/10.1021/jf030723c>
- ISHAK, I. (2023). Genetic variability of mutant rice (*Oryza sativa*) genotype induced by gamma rays. *Biodiversitas Journal of Biological Diversity*, 24(6). <https://doi.org/10.13057/biodiv/d240624>
- Jaakola, L., Määttä, K., Pirttilä, A. M., Törrönen, R., Kärenlampi, S., & Hohtola, A. (2002). Expression of Genes Involved in Anthocyanin Biosynthesis in Relation to Anthocyanin, Proanthocyanidin, and Flavonol Levels during Bilberry Fruit Development. *Plant Physiology*, 130(2), 729–739. <https://doi.org/10.1104/pp.006957>
- Kadum, H., Hamid, A. A., Abas, F., RamLi, N. S., Mohammed, A. K. S., Muhiadin, B. J., & Jaafar, A. H. (2019). Bioactive Compounds Responsible for Antioxidant Activity of Different Varieties of Date (*Phoenix dactylifera* L.) Elucidated by ¹H- NMR Based Metabolomics. *International*

- Journal of Food Properties*, 22(1), 462–476.
<https://doi.org/10.1080/10942912.2019.1590396>
- Kähkönen, M. P., Heinämäki, J., Ollilainen, V., & Heinonen, M. (2003). Berry anthocyanins: isolation, identification and antioxidant activities. *Journal of the Science of Food and Agriculture*, 83(14), 1403–1411. <https://doi.org/10.1002/jsfa.1511>
- Kasiramar, G. (2019). Significant role of soxhlet extraction process in phytochemical research. *Mintage J. Pharm. & Med. Sci*, 7, 43-47.
- Kementerian Pertanian [KEMENTERAN]. (2011). SK Menteri Pertanian 2257/Kpts/SR.120/5/2011. Dinas Pertanian dan Ketahanan Pangan Daerah Istimewa Yogyakarta.
- Khatun, S., & Mollah, M. M. I. (2024). Analysis of black rice and some other cereal grains for protein, sugar, polyphenols, antioxidant and anti-inflammatory properties. *Journal of Agriculture and Food Research*, 16, 101121.
- Khehra N; Padda IS; Swift CJ. (2023). Polymerase Chain Reaction (PCR). *StatPearls Publishing LLC*. PMID: 36943981
- Khoo, H. E., Azlan, A., Tang, S. T., & Lim, S. M. 2017. Anthocyanidins and anthocyanins: colored pigments as food, pharmaceutical ingredients, and the potential health benefits. *Food & Nutrition Research*, 61(1), 1361779. <https://doi.org/10.1080/16546628.2017.1361779>
- Kryndushkin, D. S., Alexandrov, I. M., Ter-Avanesyan, M. D., & Kushnirov, V. V. (2003). Yeast [PSI⁺] Prion Aggregates Are Formed by Small Sup35 Polymers Fragmented by Hsp104. *Journal of Biological Chemistry*, 278(49), 49636–49643. <https://doi.org/10.1074/jbc.M307996200>
- Kyoto Encyclopedia of Genes and Genomes [KEGG]. (2024). *Oryza sativa japonica (Japanese rice)*: 4325716. Diakses pada 12 Januari 2025, dari https://www.genome.jp/dbget-bin/www_bget?osa:4325716
- Lang, G. H., Lindemann, I. da S., Ferreira, C. D., Hoffmann, J. F., Vanier, N. L., & de Oliveira, M. (2019). Effects of drying temperature and long-term storage conditions on black rice phenolic compounds. *Food Chemistry*, 287, 197–204. <https://doi.org/10.1016/j.foodchem.2019.02.028>
- Leonarski, E., Kuasnei, M., Cesca, K., Oliveira, D. D., & Zielinski, A. A. (2024). Black rice and its by-products: Anthocyanin-rich extracts and their biological potential. *Critical Reviews in Food Science and Nutrition*, 64(25), 9261–9279.
- Lestario, L. N., Lukito, D., & Timotius, K. H. (2009). KANDUNGAN ANTOSIANIN DAN ANTOSIANIDIN DARI JANTUNG PISANG KLUTUK (*Musa brachycarpa* Back) DAN PISANG AMBON (*Musa acuminata* Colla). *Jurnal Teknologi dan Industri Pangan*, 20(2), 143-143.
- Li P, Chen B, Zhang G, Chen L, Dong Q, Wen J, Mysore KS, Zhao J. (2016) Regulation of anthocyanin and proanthocyanidin bio-synthesis by *Medicago truncatula* bHLH transcription factor MtTT8. *New Phytol* 210:905–921

- Li, X.-G., Wang, J., & Yu, Z.-Y. (2015). Cloning of an anthocyanidin synthase gene homolog from blackcurrant (*Ribes nigrum* L.) and its expression at different fruit stages. *Genetics and Molecular Research*, 14(1), 2726–2734. <https://doi.org/10.4238/2015.March.31.2>
- Li, Z., & Ahammed, G. J. (2023). Hormonal regulation of anthocyanin biosynthesis for improved stress tolerance in plants. *Plant Physiology and Biochemistry*, 201, 107835.
- Lim, Y., Arora, S., Schuster, S. L., Corey, L., Fitzgibbon, M., Wladyka, C. L., Wu, X., Coleman, I. M., Delrow, J. J., Corey, E., True, L. D., Nelson, P. S., Ha, G., & Hsieh, A. C. (2021). Multiplexed functional genomic analysis of 5' untranslated region mutations across the spectrum of prostate cancer. *Nature communications*, 12(1), 4217. <https://doi.org/10.1038/s41467-021-24445-6>
- Limbongan, Y., Ramadhan, R., Shimizu, K., & Tangkearung, E. (2021). Agronomic characteristics of 30 promising lines of aromatic, red, and black rice and their antioxidant and cytotoxic effects in some cancer cells. *Biodiversitas Journal of Biological Diversity*, 22(4)
- Lin CY & Liu JC. 2016. Modular protein domains: an engineering approach toward functional biomaterials. *Current Opinion in Biotechnology*. 40:56-63. ISSN 0958-1669. <https://doi.org/10.1016/j.copbio.2016.02.011>.
- Ling, W. H., Wang, L. L., & Ma, J. (2002). Supplementation of the Black Rice Outer Layer Fraction to Rabbits Decreases Atherosclerotic Plaque Formation and Increases Antioxidant Status. *The Journal of Nutrition*, 132(1), 20–26. <https://doi.org/10.1093/jn/132.1.20>
- Liu, H., Liu, Z., Wu, Y., Zheng, L., & Zhang, G. (2021). Regulatory Mechanisms of Anthocyanin Biosynthesis in Apple and Pear. *International journal of molecular sciences*, 22(16), 8441. <https://doi.org/10.3390/ijms22168441>
- Martinez, S., & Hausinger, R. P. (2015). Catalytic Mechanisms of Fe(II)- and 2-Oxoglutarate-dependent Oxygenases. *The Journal of biological chemistry*, 290(34), 20702–20711. <https://doi.org/10.1074/jbc.R115.648691>
- McCombie, W. R., McPherson, J. D., & Mardis, E. R. (2019). Next-generation sequencing technologies. *Cold Spring Harbor perspectives in medicine*, 9(11), a036798.
- McDonough MA, Li V, Flashman E, Chowdhury R, Mohr C, Lienard BM, Zondlo J, Oldham NJ, Clifton IJ, Lewis J, McNeill LA, Kurzeja RJ, Hewitson KS, Yang E, Jordan S, Syed RS, Schofield CJ. (2006). Cellular oxygen sensing: Crystal structure of hypoxia-inducible factor prolyl hydroxylase (PHD2). *Proc. Natl. Acad. Sci. U.S.A.* 103, 9814-9. PMID: 16782814
- Meagher, R. J., Priye, A., Light, Y. K., Huang, C., & Wang, E., (2018). Impact of primer dimers and self-amplifying hairpins on reverse transcription loop-mediated isothermal amplification detection of viral RNA. *The Analyst*, 143(8), 1924–1933. <https://doi.org/10.1039/c7an01897e>
- Miguel, M. (2011). Anthocyanins: Antioxidant and/or anti-inflammatory activities. *J. Appl. Pharm. Sci.*, 1, 7–15.

- Molyneux, Philip. (2003). The use of the stable radical Diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity. 26.
- Munteanu, I. G., & Apetrei, C. (2021). Analytical methods used in determining antioxidant activity: A review. International journal of molecular sciences, 22(7), 3380.
- National Center for Biotechnology Information [NCBI]. (2024). *PREDICTED: Oryza sativa Japonica Group leucoanthocyanidin dioxygenase 1 (LOC4325716), mRNA*. Diakses pada 12 Januari 2025, dari https://www.ncbi.nlm.nih.gov/nuccore/XM_015791790
- Obadi, M., & Xu, B. (2023). Effect of processing methods and storage on the bioactive compounds of black rice (*Oryza sativa* L.): a review. *Food & Function*.
- Oh, J.-H., Lee, Y.-J., Byeon, E.-J., Kang, B.-C., Kyeoung, D.-S., & Kim, C.-K. 2018. Whole-genome resequencing and transcriptomic analysis of genes regulating anthocyanin biosynthesis in black rice plants. *3 Biotech*, 8(2), 115. <https://doi.org/10.1007/s13205-018-1140-3>
- Oktavioni, M., Hidayati, R., Jamsari, & Syukur, S. (2022). *Bioteknologi Praktis Analisis Molekuler, Rekayasa Genetika, dan Analisis Bioinformatika*.
- Rahim, M. A., Umar, M., Habib, A., Imran, M., Khalid, W., Lima, C. M. G., ... & Emran, T. B. (2022). Photochemistry, functional properties, food applications, and health prospective of black rice. *Journal of Chemistry*, 2022(1), 2755084.
- Rahmah, S., Ramdan, K., & Wulandari, R. (2023). *Determination of Anthocyanin Levels in Telang Flower (Clitoria Ternatae) Using the Differential pH Method Based on Three Types of Solvents*. 10(01). <https://ojs.stikesmucis.ac.id/index.php/jurkes>
- Reviana, R., Usman, A. N., Raya, I., Dirpan, A., Arsyad, A., & Fendi, F. (2021). Analysis of antioxidant activity on cocktail honey products as female pre-conception supplements. *Gaceta Sanitaria*, 35, S202-S205.
- Reynolds T, Smith SM, & Thompson PA. (1969). A Chromatographic Survey of Anthocyanin Types in The Genus Rhododendron. *Kew Bulletin*, 23(3), 413–437.
- Safrina, U., Wardiyah, W., & Cartika, H. (2022). Evaluation of total flavonoid, total phenolic, and antioxidant activity of Etlingera elatior (Jack) RM Sm flower, fruit, and leaf. *Majalah Obat Tradisional*, 27(1), 51-59.
- Saint-Cricq de Gaulejac, N., Glories, Y., & Vivas, N. (1999). Free radical scavenging effect of anthocyanins in red wines. *Food Research International*, 32(5), 327–333. [https://doi.org/10.1016/S0963-9969\(99\)00093-9](https://doi.org/10.1016/S0963-9969(99)00093-9)
- Sanger, F., Coulson, A. R., Hong, G. F., Hill, D. F. & Petersen, G. B. (1982). Nucleotide sequence of bacteriophage lambda DNA. *J. Mol. Biol.* 162, 729–73

- Sangma, H. C. R., & Parameshwari, S. (2024). Analysis of Proximate, Functional, and Mineral Composition in Processed Black Rice (*Oryza sativa L. indica*) Flours: A Comparative Exploration. *Journal of Natural Remedies*, 851-860.
- Sari P, Agustina F, & Komar M. (2005). Extraction and Stability of Anthocyanins from Jambolan (*Syzygium cumini*) Skin. *Jurnal Teknologi Dan Industri Pangan*, 6(2).
- Sofianandi T, Asem D, Konthoujam N, Laishram A, Keithellakpam O, Laishram R, Sharma N and Mukherjee PK. (2024). Evaluation of cyanidin-3-o-glucoside from different black rice varieties of Manipur utilizing FTIR spectroscopy and HPTLC method. *Int J Pharm Sci & Res*, 15(12): 3497-10. doi: 10.13040/IJPSR.0975-8232.15(12).3497-10.
- Shi, L., Li, X., Fu, Y., & Li, C. (2023). Environmental Stimuli and Phytohormones in Anthocyanin Biosynthesis: A Comprehensive Review. *International journal of molecular sciences*, 24(22), 16415. <https://doi.org/10.3390/ijms242216415>
- Sholikhah, U., Handoyo, T., & Yunus, A. (2021). Anthocyanin Content in Some Black Rice Cultivars. In *IOP Conference Series: Earth and Environmental Science* (Vol. 709, No. 1, p. 012076). IOP Publishing.
- Stoica, P., & Selen, Y. (2004). Model-order selection: a review of information criterion rules. *IEEE Signal Processing Magazine* (July): 36–47, doi:10.1109/MSP.2004.1311138
- Strano-Rossi, S., Odoardi, S., Castrignanò, E., Serpelloni, G., & Chiarotti, M. (2015). Liquid chromatography–high resolution mass spectrometry (LC–HRMS) determination of stimulants, anorectic drugs and phosphodiesterase 5 inhibitors (PDE5I) in food supplements. *Journal of Pharmaceutical and Biomedical Analysis*, 106, 144–152. <https://doi.org/10.1016/j.jpba.2014.06.011>
- Sun, C., Huang, H., Xu, C., Li, X., & Chen, K. (2013). Biological Activities of Extracts from Chinese Bayberry (*Myrica rubra Sieb. et Zucc.*): A Review. *Plant Foods for Human Nutrition*, 68(2), 97–106. <https://doi.org/10.1007/s11130-013-0349-x>
- Sun L, Hu X, Li S, Jiang Z, Li K. (2016). Prediction of complex super-secondary structure $\beta\alpha\beta$ motifs based on combined features. *Saudi Journal of Biological Sciences*, 23(1). <https://doi.org/10.1016/j.sjbs.2015.10.005>. (<https://www.sciencedirect.com/science/article/pii/S1319562X15002466>)
- Tacx P, de Rozario R, Oomen T. 2021. Model Order Selection in Robust-Control-Relevant System Identification. *IFAC-PapersOnLine*. 54(7),1-6. <https://doi.org/10.1016/j.ifacol.2021.08.325>
- Taghavi, T., Patel, H., & Rafie, R. (2022). Comparing pH differential and methanol-based methods for anthocyanin assessments of strawberries. *Food science & nutrition*, 10(7), 2123-2131.

- Tanaka, Y., Sasaki, N., & Ohmiya, A. (2008). Biosynthesis of plant pigments: anthocyanins, betalains and carotenoids. *The Plant Journal*, 54(4), 733–749. <https://doi.org/10.1111/j.1365-313X.2008.03447.x>
- Tena, N., & Asuero, A. G. (2022). Up-To-Date Analysis of the Extraction Methods for Anthocyanins: Principles of the Techniques, Optimization, Technical Progress, and Industrial Application. *Antioxidants*, 11(2), 286. <https://doi.org/10.3390/antiox11020286>
- Trinovani E, Kusmiyati M, Sudaryat Y, & Rhamadianto MI. (2022). Determination of Anthocyanin and Antioxidant Activities of Water, Methanol, Ethanol 70%, Extract Black Glutinous Rice. *Medical Sains: Jurnal Ilmiah Kefarmasian*, 7(4), 983–992.
- Tsirogiannis, C., Sandel, B. Computing the skewness of the phylogenetic mean pairwise distance in linear time. *Algorithms Mol Biol* 9, 15 (2014). <https://doi.org/10.1186/1748-7188-9-15>
- Universal Protein Resource [UniProt]. (2024). Q93VC3 · ANS1_ORYSJ. Diakese pada 12 Januari 2025, dari <https://www.uniprot.org/uniprotkb/Q93VC3/entry>
- U.S. Department of agriculture. (2020). *FoodData Central*. <https://fdc.nal.usda.gov/>
- Van Holm, W., Ghesquière, J., Boon, N., Verspecht, T., Bernaerts, K., Zayed, N., Chatzigiannidou, I., & Teughels, W. (2021). A Viability Quantitative PCR Dilemma: Are Longer Amplicons Better?. *Applied and environmental microbiology*, 87(5), e0265320. <https://doi.org/10.1128/AEM.02653-20>
- Wang, Q., Han, P., Zhang, M., Xia, M., Zhu, H., Ma, J., Hou, M., Tang, Z., & Ling, W. (2007). Supplementation of black rice pigment fraction improves antioxidant and anti-inflammatory status in patients with coronary heart disease. *Asia Pacific Journal of Clinical Nutrition*, 16 Suppl 1, 295–301.
- Wang H, Xu X, Vieira FG, Xiao Y, Li Z, Wang J, Nielsen R, Chu C. (2016). The Power of Inbreeding: NGS-Based GWAS of rice reveals convergent evolution during rice domestication, *Mol. Plant* 9 975–985.
- Wang, Y., Zhang, H., Zhong, H., & Xue, Z. (2021). Protein domain identification methods and online resources. *Computational and Structural Biotechnology Journal*, 19, 1145–1153. <https://doi.org/10.1016/j.csbj.2021.01.041>
- Wilfinger, W. W., Mackey, K., & Chomczynski, P. (1997a). Effect of pH and Ionic Strength on the Spectrophotometric Assessment of Nucleic Acid Purity. *BioTechniques*, 22(3), 474–481. <https://doi.org/10.2144/97223st01>
- Xia, D., Zhou, H., Wang, Y., Li, P., Fu, P., Wu, B., & He, Y. (2021). How rice organs are colored: The genetic basis of anthocyanin biosynthesis in rice. *The Crop Journal*, 9(3), 598–608. <https://doi.org/10.1016/j.cj.2021.03.013>
- Xu, F., Cheng, H., Cai, R., Li, L. L., Chang, J., Zhu, J., Zhang, F. X., Chen, L. J., Wang, Y., Cheng, S. H., & Cheng, S. Y. (2008). Molecular cloning and function analysis of an anthocyanidin synthase gene from *Ginkgo biloba*, and its expression in abiotic stress responses. *Molecules and Cells*, 26(6), 536–547.

- Yang X, Xia X, Zhang Z, Nong B, Zeng Y, Wu Y, Xiong F, Zhang Y, Liang H, Pan Y, Dai G, Deng G, Li D. (2019). Identification of anthocyanin biosynthesis genes in rice pericarp using PCAMP, *Plant Biotechnol. J.* 17 1700–1702
- Yao, S.-L., Xu, Y., Zhang, Y.-Y., & Lu, Y.-H. (2013). Black rice and anthocyanins induce inhibition of cholesterol absorption in vitro. *Food & Function*, 4(11), 1602. <https://doi.org/10.1039/c3fo60196j>
- Yu, K., Song, Y., Lin, J., & Dixon, R. A. (2023). The complexities of proanthocyanidin biosynthesis and its regulation in plants. *Plant Communications*, 4(2), 100498. <https://doi.org/10.1016/j.xplc.2022.100498>
- Zhang, Y., Butelli, E., & Martin, C. (2014). Engineering anthocyanin biosynthesis in plants. *Current Opinion in Plant Biology*, 19, 81–90. <https://doi.org/10.1016/j.pbi.2014.05.011>
- Zhang Y, Hu W, Peng X, Sun B, Wang X, Tang H. (2018) Characterization of anthocyanin and proanthocyanidin biosynthesis in two strawberry genotypes during fruit development in response to different light qualities. *J Photochem Photobiol B* 186:225–231
- Zhao, M., Huang, C., Mao, Q., Zhou, Z., Xiang, Y., Zhang, Q., ... & Chen, H. (2021). How anthocyanin biosynthesis affects nutritional value and anti-inflammatory effect of black rice. *Journal of Cereal Science*, 101, 103295.

