

DAFTAR PUSTAKA

- Aprodu, I., Milea, S. A., Anghel, R. M., Enachi, E., Barbu, V., Crăciunescu, O., Râpeanu, G., Bahrim, G. E., Oancea, A., & Stănciuc, N. (2019). New Functional Ingredients Based on Microencapsulation of Aqueous Anthocyanin-Rich Extracts Derived from Black Rice (*Oryza sativa L.*). *Molecules*, 24(18), 1–14. <https://doi.org/10.3390/molecules24183389>
- Arifin, A. S., Yuliana, N. D., & Rafi, M. (2019). Aktivitas Antioksidan Pada Beras Berpigmen dan Dampaknya terhadap Kesehatan. *Pangan*, 28(1), 11–22.
- Aryani, D. (2018). Rice Supply and Demand in Indonesia. *Prosiding Seminar Nasional Lahan Suboptimal 2018*, 287–297. <http://www.conference.unsri.ac.id/index.php/lahansuboptimal/article/view/1228>
- Azis, A., Izzati, M., & Haryanti, S. (2015). Aktivitas Antioksidan Dan Nilai Gizi Dari Beberapa Jenis Beras Dan Millet Sebagai Bahan Pangan Fungsional Indonesia. *Jurnal Akademika Biologi*, 4(1), 45–61.
- Azka, A., & Abdullah, A. (2012). Aktivitas Antioksidan Dan Komponen Bioaktif Semanggi Air (Marsilea Crenata). *Jurnal Inovasi Dan Kewirausahaan*, 1(3), 152–158.
- Batubara, I., Maharni, M., & Sadiah, S. (2016). The Potency of White Rice (*Oryza sativa*), Black Rice (*Oryza sativa L. indica*), and Red Rice (*Oryza nivara*) as Antioxidant and Tyrosinase Inhibitor. *Journal of Physics: Conference Series*, 755(1), 2–8. <https://doi.org/10.1088/1742-6596/755/1/011001>
- Bergman, C., Goffman, F., & Chen, M. H. (2011). Evaluation of antioxidant, lipid, and protein fractions of accessions of oryza species. *Cereal Chemistry*, 88(3), 283–290. <https://doi.org/10.1094/CCHEM-04-10-0057>
- Biswas, S. K., Kim, D. E., Keum, Y. S., & Saini, R. K. (2018). Metabolite profiling and antioxidant activities of white, red, and black rice (*Oryza sativa L.*) grains.

- Journal of Food Measurement and Characterization*, 12(4), 2484–2492.
<https://doi.org/10.1007/s11694-018-9865-6>
- Budaraga, I. K., & Salihat, R. A. (2020). Antioxidant Activity of ‘Broken Skin’ Purple Rice, ‘Skinned’ Purple Rice, and Purple Rice Stem Organically Cultivated in Indonesia. *International Journal on Advanced Science, Engineering and Information Technology*, 10(5), 2132–2137.
<https://doi.org/10.18517/ijaseit.10.5.9634>
- Choi, S., Seo, H. S., Lee, K. R., Lee, S., & Lee, J. (2018). Effect of cultivars and milling degrees on free and bound phenolic profiles and antioxidant activity of black rice. *Applied Biological Chemistry*, 61(1), 49–60.
<https://doi.org/10.1007/s13765-017-0335-3>
- Dungir, S. G., Katja, D. G., & Kamu, V. S. (2012). Aktivitas Antioksidan Ekstrak Fenolik dari Kulit Buah Manggis (*Garcinia mangostana L.*). *Jurnal MIPA*, 1(1), 11. <https://doi.org/10.35799/jm.1.1.2012.424>
- Dzaky, A. F. Al. (2018). Uji Aktivitas Antioksidan Ekstrak Daun Zaitun (*Olea europaea L.*) Menggunakan Pelarut Etanol Dengan Metode DPPH. *Skripsi*.
- Faizah, Kusnandar, F., & Nurjanah, S. (2020). Senyawa Fenolik, Oryzanol, Dan Aktivitas Antioksidan Bekatul Yang Difermentasi Dengan Rhizopus oryzae. *Jurnal Teknologi Dan Industri Pangan*, 31(1), 86–94.
<https://doi.org/10.6066/jtip.2020.31.1.86>
- Faramayuda, F., Alatas, F., & Rayani, T. T. (2013). formulasi sediaan losion antioksidan ekstrak etanol kulit buah coklat (*theobroma cacao L.*). *Kartika Jurnal Ilmiah Farmasi*, 1 (1). 24-30 ISSN 2354-6565.
- Fibriyanti, Y. W. (2012). Kajian Kualitas Kimia Dan Biologi Beras Merah (*Oryza nivara*) Dalam Beberapa Pewadahan Selama Penyimpanan. *Skripsi*.
- Ghasemzadeh, A., Karbalaii, M. T., Jaafar, H. Z. E., & Rahmat, A. (2018). Phytochemical constituents, antioxidant activity, and antiproliferative properties of black, red, and brown rice bran. *Chemistry Central Journal*,

- 12(1), 1–13. <https://doi.org/10.1186/s13065-018-0382-9>
- Haerani, A., Chaerunisa, A., Yohana, & Subarnas, A. (2018). Artikel Tinjauan: Antioksidan Untuk Kulit. *Farmaka, Universitas Padjadjaran, Bandung*, 16(2), 135–151.
- Hanuma, T. I. (2018). Formulasi dan Uji Aktivitas Krim Ekstrak Beras Merah (Oryza TALENTA Conference Series Formulasi dan Uji Aktivitas Krim Ekstrak Beras Merah (Oryza Nivara L.) Sebagai Antiaging. *TM Conference Series, I*(1), 237–244.
- Hartati, F. K. (2016). Evaluasi Fitokimia, Aktivitas Antioksidan dan Imunomodulator Beras Hitam (*Oryza sativa L.indica*). *Skripsi*.
- Karim, K., Jura, M., & Sabang, S. (2015). Uji Aktivitas Antioksidan Ekstrak Daun Patikan Kebo (*Euphorbia Hirta L.*). *Jurnal Akademika Kimia*, 4(2), 56–63.
- Karimi, E., Mehrabanjoubani, P., Keshavarzian, M., Oskoueian, E., Jaafar, H. Z., & Abdolzadeh, A. (2014). Identification and quantification of phenolic and flavonoid components in straw and seed husk of some rice varieties (*Oryza sativa L.*) and their antioxidant properties. *Journal of the Science of Food and Agriculture*, 94(11), 2324–2330. <https://doi.org/10.1002/jsfa.6567>
- Kesuma, Y. (2015). *Antioksidan Alami dan Sintetik*.
- Khairunnissa, N. (2017). Uji Aktivitas Antioksidan Pada Ekstrak Daun Zaitun (Olea europaea L.) Menggunakan Pelarut Air Dengan Metode. *Skripsi*.
- Klunklin, W., & Savage, G. (2018). Physicochemical, antioxidant properties and in vitro digestibility of wheat–purple rice flour mixtures. *International Journal of Food Science and Technology*, 53(8), 1962–1971. <https://doi.org/10.1111/ijfs.13785>
- Krishnanunni, K., Senthilvel, P., Ramaiah, S., & Anbarasu, A. (2015). Study of chemical composition and volatile compounds along with in-vitro assay of antioxidant activity of two medicinal rice varieties: Karungkuravai and

- Mappilai samba. *Journal of Food Science and Technology*, 52(5), 2572–2584.
<https://doi.org/10.1007/s13197-014-1292-z>
- Langlangdewi, P. (2017). Pemanfaatan Teknik Rapd Dalam Deteksi Keragaman Genetik Padi (*Oryza sativa L.*) Varietas Bahbutong Tahan Cekaman Kekeringan Hasil Iradiasi. *Skripsi*.
- Li, D., Zhang, C., Zhang, A. wu, Qian, L. li, & Zhang, D. jie. (2020). Changes of liposome and antioxidant activity in immature rice during seed development. *Journal of Food Science*, 85(1), 86–95. <https://doi.org/10.1111/1750-3841.14967>
- LTD, O. O. & F. C. C. (2017). Purple rice extract. *ORYZA*, 5, 0–28.
[www.oryza.co.jp/html/english/pdf/Purple Rice Extract Ver.5.0.pdf](http://www.oryza.co.jp/html/english/pdf/Purple%20Rice%20Extract%20Ver.5.0.pdf)
- Luna, P., Herawati, H., Widowati, S., & Prianto, A. B. (2015). Pengaruh Kandungan Amilosa Terhadap Karakteristik Fisik Dan Organoleptik Nasi Instan. *Jurnal Penelitian Pascapanen Pertanian*, 12(1), 1–10.
- Malangngi, L., Sangi, M., & Paendong, J. (2012). Penentuan Kandungan Tanin dan Uji Aktivitas Antioksidan Ekstrak Biji Buah Alpukat (*Persea americana Mill.*). *Jurnal MIPA*, 1(1), 5. <https://doi.org/10.35799/jm.1.1.2012.423>
- Maulani, R. R., Sumardi, D., & Pancoro, A. (2019). Total flavonoids and anthocyanins content of pigmented rice. *Drug Invention Today* |, 12(January).
- Mohanlal, S., Parvathy, R., Shalini, V., Mohanan, R., Helen, A., & Jayalekshmy, A. (2013). Chemical indices, antioxidant activity and anti-inflammatory effect of extracts of the medicinal rice njavara and staple varieties: A comparative study. *Journal of Food Biochemistry*, 37(3), 369–380. <https://doi.org/10.1111/j.1745-4514.2011.00646.x>
- Moko, E. M., Purnomo, H., Kusnadi, J., & F.G., I. G. (2014). Phytochemical content and antioxidant properties of colored and non colored varieties of rice bran from Minahasa, North Sulawesi, Indonesia. *International Food Research Journal*, 21(3), 1053–1059.

- Monika, P., Widyawati, P. S., & Sutedja, A. M. (2017). Perubahan Kadar Senyawa Bioaktif Dan Aktivitas Antioksidan Beras Organik Merah Varietas Lokal Dalam Kemasan Polipropilen Dengan Variasi Lama Penyimpanan. *Jurnal Teknologi Pangan Dan Gizi*, 13(1), 1–5. <http://jurnal.wima.ac.id/index.php/JTPG/article/view/1493>
- Mu'nisa, A., Wresdiyati, T., Kusumorini, N., & Manalu, W. (2013). Aktivitas Antioksidan Ekstrak Daun Cengkeh. *Jurnal Veteriner*, 13(3), 272–277–277.
- Muktisari, R. D., & Hartati, F. K. (2018). Analisis Aktivitas Antioksidan Pada Beras Hitam dan Tepung Beras Hitam (*Oryza sativa L.indica*). *Foodscitech*, 1(1), 20–27. <https://doi.org/10.25139/fst.v1i1.1002>
- Navaratilofa, W. (2013). Perbedaan aktivitas penangkapan radikal dpph ekstrak maserasi dan soxhlet dari gambir yang diuji pada pelarut yang berbeda naskah publikasi. *Skripsi*.
- Ngamdee, P., Wichai, U., & Jiamyangyuen, S. (2016). Correlation between phytochemical and mineral contents and antioxidant activity of black glutinous rice bran, and its potential chemopreventive property. *Food Technology and Biotechnology*, 54(3), 282–289. <https://doi.org/10.17113/ftb.54.03.16.4346>
- Nurdiyanti. (2019). Uji Aktivitas Antioksidan Ekstrak Beras Merah (*Oryza nivara L.*), Ekstrak Bekatul Beras Merah Dan Ekstrak Hasil Olahan Beras Merah Dengan Metode DPPH (2,2-difenil,-1-pikrilhidrazil). *Skripsi*.
- Nurmalasari, T., Zahara, S., Arisanti, N., Mentari, P., Nurbaeti, Y., Lestari, T., & Rahmiyani, I. (2016). Uji Aktivitas Antioksidan Ekstrak Buah Kupa (*Syzygium polyccephalum*) Terhadap Radikal Bebas Dengan Metode DPPH. *Jurnal Kesehatan Bakti Tunas Husada*, 16(1), 61–68.
- Oktaviani, N., Lukmayani, Y., & Sadiyah, E. R. (2019). Uji Aktivitas Antioksidan dan Tabir Surya Pada Beras Putih (*Oryza Sativa L.*) Beras Merah (*Oryza Nivara* S.D.Sharma & Shastry) Beras Hitam (*Oryza Sativa L*) dengan Metode Spektrofotometri Uv- Sinar Tampak. *Prosiding Farmasi*, 5(2), 1–7.

- Pedro, A. C., Granato, D., & Rosso, N. D. (2016). Extraction of anthocyanins and polyphenols from black rice (*Oryza sativa L.*) by modeling and assessing their reversibility and stability. *Food Chemistry*, 191, 12–20. <https://doi.org/10.1016/j.foodchem.2015.02.045>
- Prabowo, R. (2019). Fakultas pertanian universitas muhammadiyah sumatera utara medan 2019. *Skripsi*, 1–60.
- Pramitasari, R., & Angelica, N. (2020). Ekstraksi, Pengeringan Semprot, dan Analisis Sifat Fisikokimia Antosianin Beras Hitam (*Oryza sativa L.*). *Jurnal Aplikasi Teknologi Pangan*, 9(2), 83–94. <https://doi.org/10.17728/jatp.5889>
- Prasmita, H. S., Muchlisiyah, J., Widyaningsih, T. D., & Purbasari, S. (2017). Identifikasi Kandungan Asam Fenolat Dan Aktivitas Antioksidan Beras Ketan Merah (*Oryza Sativa Var. Glutinosa*). *Jurnal Teknologi Pertanian*, 18(1), 45–52. <https://doi.org/10.21776/ub.jtp.2017.018.01.5>
- Pratiwi, V. N. (2018). Efek Proses Pra-Pemasakan Terhadap Kandungan Pati Resisten , Kadar Amilosa , Indeks Glikemik , Fenolik ,. *Jurnal Gizi KH*, 1(1), 14–20.
- Pusadee, T., Wongtamee, A., Rerkasem, B., Olsen, K. M., & Jamjod, S. (2019). Farmers Drive Genetic Diversity of Thai Purple Rice (*Oryza sativa L.*) Landraces. *Economic Botany*, 73(1), 76–85. <https://doi.org/10.1007/s12231-018-9436-0>
- R, R., & V, N. P. (2018). Antioxidant Activity of Indian Medicinal Rice (*Oryza Sativa L.*) cv. Njavara. *International Journal of Advanced Engineering, Management and Science*, 4(3), 141–148. <https://doi.org/10.22161/ijaems.4.3.2>
- Rahayu, T., Syafril, S., Islam, U., Raden, N., Lampung, I., & Wekke, I. S. (2019). *Teknik Menulis Review Literatur Dalam Sebuah Artikel Ilmiah*. September. <https://doi.org/10.31227/osf.io/z6m2y>
- Rahmawati, Mufluhunna, A., & Sarif, L. M. (2016). Analisis Aktivitas Antioksidan

- Produk Sirup Buah Mengkudu (*Morinda citrifolia L.*) DENGAN METODE DPPH. *Jurnal Fitofarmaka Indonesia*, 2(2), 97–101. <https://doi.org/10.33096/jffi.v2i2.177>
- Rantika, N., Sriarumtias, F. F., Amalia, N., & Nurhabibah. (2019). Formulation and physical stability test of peel-off gel mask from sticky rice (*Oryza sativa L. glutinosa*) as antioxidant. *Jurnal Ilmiah Farmako Bahari*, 10(1), 65–75.
- Rejeki, S., Sukmajati, F., & Ningsih, S. (2021). Ekstraksi dan Penetapan Nilai SPF Ekstrak Etanol Beras Hitam (*Oryza sativa L indica*) Secara In Vitro dengan Metode Spektrofotometri Extraction and SPF Value Determination of Black Rice Extract by in Vitro Assay Using Spectrofotometric Method. *Indonesian Journal On Medical Science*, 8(1).
- Saenjum, C., Chaiyasut, C., Chansakaow, S., Suttajit, M., & Sirithunyalug, B. (2012). Antioxidant and anti-inflammatory activities of gamma-oryzanol rich extracts from Thai purple rice bran. *Journal of Medicinal Plants Research*, 6(6), 1070–1077. <https://doi.org/10.5897/jmpr11.1247>
- Safitri, D. R., & Sihaloho, E. D. (2020). Lumbung Padi Indonesia dan Kemiskinan : Studi Kasus Kabupaten Kota di Jawa Timur. *Journal of Economics and Business*, 4(1), 56–61. <https://doi.org/10.33087/ekonomis.v4i1.109>
- Samaranayake, M. D. W., Yathursan, S., Abeysekera, W. K. S. M., & Herath, H. M. T. (2017). Nutritional and antioxidant properties of selected traditional rice (*Oryza sativa L.*) varieties of Sri Lanka. *Sri Lankan Journal of Biology*, 2(2), 25. <https://doi.org/10.4038/sljb.v2i2.10>
- Siswanti, Anandito, R. B. K., Nurhartadi, E., & Iskandar, B. D. (2019). Effect of various heat treatment on physical and chemical characteristics of red rice bran (*Oryza nivara L.*) Rojolele. *IOP Conference Series: Materials Science and Engineering*, 633(1). <https://doi.org/10.1088/1757-899X/633/1/012046>
- So, V., Pocasap, P., Sutthanut, K., Sethabouppha, B., Thukhammee, W., Wattanathorn, J., & Weerapreeyakul, N. (2020). Effect of harvest age on total

- phenolic, total anthocyanin content, bioactive antioxidant capacity and antiproliferation of black and white glutinous rice sprouts. *Applied Sciences (Switzerland)*, 10(20), 1–17. <https://doi.org/10.3390/app10207051>
- Sohail, M., Rakha, A., Butt, M. S., Iqbal, M. J., & Rashid, S. (2017). Rice bran nutraceuticals: A comprehensive review. *Critical Reviews in Food Science and Nutrition*, 57(17), 3771–3780. <https://doi.org/10.1080/10408398.2016.1164120>
- Suasana, D., Ayu, W. D., & Ibrahim, A. (2016). Aktivitas Ekstrak Etanol Beras Ketan Hitam (*Oryza Sativa L. Var Glutinosa*) terhadap Penurunan Kadar Glukosa Darah Mencit (*Mus musculus*). *Prosiding Seminar Nasional Tumbuhan Obat Indonesia Ke-50*, 53(9), 147–155.
- Suhartatik, N., Karyantina, M., Akhmad Mustofa, M. N. C., Raharjo, S., & Rahayu, E. S. (2014). Stabilitas Ekstrak Antosianin Beras Ketan (*Oryza sativa var. glutinosa*) Hitam selama Proses Pemanasan dan Penyimpanan. *Agritech*, 33(04), 384–390. <https://doi.org/10.22146/agritech.9533>
- Suhartatik, N., Nur Cahyanto, M., Raharjo, S., & S. Rahayu, E. (2013). Aktivitas Antioksidan Antosianin Beras Ketan Hitam Selama Fermentasi. *Jurnal Teknologi Dan Industri Pangan*, 24(1), 115–119. <https://doi.org/10.6066/jtip.2013.24.1.115>
- Suhartini, T. (2017). Spesies Padi Liar (*Oryza sp.*) sebagai Sumber Gen Ketahanan Cekaman Abiotik dan Biotik pada Padi Budidaya. *Jurnal Penelitian Dan Pengembangan Pertanian*, 35(4), 197. <https://doi.org/10.21082/jp3.v35n4.2016.p197-207>
- Suhery, W. N., Fernando, A., & Has, N. (2016). Uji Aktivitas Dari Ekstrak Bekatul Padi Ketan Merah dan Hitam (*Oryza sativa L. var. glutinosa*) Dan Formulasinya Dalam Sediaan Krim. *Pharmacy*, 13(1), 101–115.
- Suryanti, V., Riyatun, Suharyana, Sutarno, & Saputra, O. A. (2020). Antioxidant activity and compound constituents of gamma-irradiated black rice (*Oryza*

- sativa l.) var. cempo ireng indigenous of Indonesia. *Biodiversitas*, 21(9), 4205–4212. <https://doi.org/10.13057/biodiv/d210935>
- Swasti, E., Sayuti, K., Kusumawati, A., & Putri, nurmawanita ekasari. (2017). Kandungan protein dan antosianin generasi F4 turunan persilangan padi merah lokal Sumatera Barat dengan varietas unggul Fatmawati. *Jurnal Floratek*, 12(1), 49–56.
- Syahrawati, M., Rusli, R., & Hamid, H. (2018). Preferensi Dan Biologi Wereng Batang Coklat (Nilaparvata lugens Stal 1854 , Hemiptera : Delphacidae) Terhadap Beberapa Varietas Padi Sawah Di Sumatera Barat. *Skripsi*, 1–34.
- Talapessy, S., Suryanto, E., & Yudistira, A. (2013). Uji Aktivitas Antioksidan Dari Ampas Hasil Pengolahan Sagu (Metroxylon sagu Rottb). *Pharmacon Jurnal Ilmiah Farmasi*, 2(03), 40–44.
- Tan, P., Mayulu, N., & Kawengian, S. (2016). Gambaran aktivitas dan stabilitas antioksidan ekstrak beras hitam (*Oryza sativa L.*) kultivar Enrekang Sulawesi Selatan. *Jurnal E-Biomedik*, 4(1), 184–187. <https://doi.org/10.35790/ebm.4.1.2016.10863>
- Tristantini, D., Ismawati, A., Pradana, B. T., & Gabriel, J. (2016). Pengujian Aktivitas Antioksidan Menggunakan Metode DPPH pada Daun Tanjung (*Mimusops elengi L*). *Universitas Indonesia*, 2.
- Ulhaq, Zulvikar S, & Rahmayanti, M. (2019). Panduan Penulisan Skripsi Literatur Review. *Journal of Chemical Information and Modeling*, 53(9), 1689–1699.
- Ulhaq, Zulviqar Syambani, & Rahmayanti, M. (2019). Panduan Literature review. *Fakultas Kedokteran Dan Ilmu Kesehatan UIN Malang*, 53(9), 1689–1699.
- Vichit, W., Saewan, N., & Thitipromote, N. (2012). Stability of freeze dried encapsulated anthocyanins from black glutinous rice extract. *Pure and Applied Chemistry International Conference 2012, January 2012*, 5–8.
- Wanti, S., Andriani, M. A. ., & Herriyadi, N. (2015). Pengaruh Berbagai Jenis Beras

- Terhadap Aktivitas Antimikrobia Pada Angkak Oleh Monascus purpureus. *Biofarmasi*, 13(1), 1–5. <https://doi.org/10.13057/biofar/f130101>
- Werdhasari, A. (2014). Peran Antioksidan Bagi Kesehatan. *Jurnal Biomedik Medisiana Indonesia*, 3(2), 59–68.
- Zaddana, C., Miranti, M., Almasyhuri, & Tanzila, S. (2018). Aktivitas Antioksidan Dan Kandungan Serat Pangan Biskuit Campuran Bekatul Beras Merah (Oriza glaberrima) Dan Ubi Jalar Ungu (Ipomoea batatas). *Fitofarmaka*, 8(2), 1–26.
- Zakaria, N. N. A., Desa, N. N. M., Mohamad, A. Z., Jamal, K., Haris, N. W., & Feizal, N. N. J. and M. (2020). Antioxidant and phytochemical content of commercial brown rice (Ecobrown) and white rice (Jasmine , Jati Super Special and Manggo Thai) for potential cosmetic rice powder raw materials. *J. Trop. Resour. Sustain*, 8, 46–50.
- Zhu, D., Sánchez-Ferrer, A., & Nyström, L. (2016). Antioxidant Activity of Individual Steryl Ferulates from Various Cereal Grain Sources. *Journal of Natural Products*, 79(2), 308–316. <https://doi.org/10.1021/acs.jnatprod.5b00880>