

## DAFTAR PUSTAKA

- Aak. 1995. *Berbudidaya tanaman padi*. Kanisius. Yogyakarta.
- Ahuja, U., Ahuja, S. C., Chaudhary, N. & Thakrar, R., 2007. Red rices – past, present and future. *Asian Agricultural History*, Volume 11, pp. 291-304.
- Amarowicz, R., Estrella, I., Hernandez, T., Roberdo, S., Troszynska, A., Kosinska, A., Pegg, R.B. 2010. Free radical scavenging Capacity, Antioxidant Activity, and Phenolic Composition of Green Lentil (*Lens culinaris*). *Food Chem.* 121:705-711.
- Andayani, R. 2008. Penentuan aktivitas antioksidan, kadar fenolat, total likopen pada buah tomat (*Solanum Lycopersicum* L.). *Jurnal Sains dan Teknologi Farmasi* 13(1).
- Apriandi, Azwin. 2011. *Aktivitas Antioksidan Dan Komponen Bioaktif Keong Ipong-Ipong*. ITB. Bogor.
- Avila, M., Hidalgo, M., Moreno, CS., Pelaez, C., Requena, T, de-Pascuel Teresa, S. 2009. Bioconversion of anthocyanin glycosides by *Bifidobacteria* an *Lactobacillus*. *Food Rest Int* 42: 1453-1461.
- Badan Standardisasi Nasional. 2008. *SNI 6128 : 2008*. Dewan Standardisasi Nasional. Jakarta.
- Cai, Y., Luo, Q., Sun, M., Corke, H. 2003. Antioxidant activity and phenolic compound of 112 traditional chinese medicinal plant associated with anticancer. *Life Sci.* 74:2157-2184.
- Campbell, B. 2010. Glycemic load vs glycemic index. *Paper of National Strength & Conditioning Association* 1-5.
- Chakuton, K., Puangpropintag, D. and Nakornriab, M. 2012. Phytochemical content and antioxidant activity of colored and non-colored Thai rice cultivars. *Journal Asian Journal of Plant Sciences* 11: 285-293.
- Chanphrom, P. 2007. Antioxidants and antioxidant activities of pigmented rice varieties and rice bran. *Thesis*. Faculty of Graduated Studies, Mahidol University. Thailand.
- Chen, MH and Bergman, CJ. 2005. A rapid procedure for analysing rice bran tocopherol, tokotrienol and g-oryzanol contents. *J. Of Food Composition and Anal* 18 : 139–151.
- Chotimarkorn C, Benjakul S, and Silalai N. 2008. Antioxidant components and properties of five long-grained rice bran extracts from commercial available cultivars in Thailand. *Food Chem*, 111(3): 636-641.

- Escribano-Bail On, M.T., Santos-Buelga, C. dan Rivas- Gonzalo, C. 2004. Anthocyanins in cereals. *Journal of Chromatography* 1054(1-2): 129-141.
- Foster-Powel, K., Holt, S.H.A. & Brand-Miller, J.C. 2002. International tables of glycemic index and glycemic load value. *Am. J. Clin. Nutr.* 76: 5-56.
- Frei, M., P. Siddhuraju, and K. Becker. 2003. Studies on the *in vitro* starch digestibility and the glycemic index of six different indigenous rice cultivars from the Philippines. *Food Chem.* 83(2003): 395–402.
- Garcia, CA., Gavino, G, Mosqueda MB, Hevia P, Gavino VC. 2007. Correlation of tocopherol, tokotrienol,  $\gamma$ -oryzanol and total polyphenol content in rice bran with different antioxidant capacity assays. *J. Food Chem.* 102:1228–1232.
- Ghasiemi, K., Ghasemi, Y., Ebrahimzadeh, M.A. 2009. Antioxidant activity, phenol and flavonoids contents of 13 Citrus species peels and tissues. *Park. J. Pharm. Sci.* 22 (3):277-281.
- Giusti, MM., Wrostdald, RE. 2001. Characterization and measurement and anthocyanin by uv-visible spectroscopy unit fl.2 in current protocols. *Food Analytical Chemistry*. John Wiley and Sons, Inc. New York.
- Harborne, J.B. 1987. Metode Fitokimia. Penerbit ITB. Bandung.
- Hart, H., L.E. Craine., dan Hart, D.J. 2003. *Kimia organik*. Erlangga. Jakarta.
- Haughton, JD., Henry GAF. 1995. *Natural food colorants*. Chapman & Hall. Glasgow.
- Hernani, dan Raharjo, M. 2005. *Tanaman berkhasiat antioksidan*. Penebar Swadya. Jakarta.
- Hoerudin. 2012. Indeks glikemik buah dan implikasinya dalam pengendalian kadar glukosa darah. *Buletin Teknologi Pascapanen Pertanian* 8(2): 80-98.
- Hsu, Chin-Yuan., Chan, Yu-Pei., Chang, J. 2007. Antioxidant activity of extract from *Polygonum cuspidatum*. *Biol Res.* 40:13-21.
- Hu, C., Zawistowski, J., Ling, WH., Kitts, DD. 2003. Black rice (*Oryza sativa* L. Indica) pigmented fraction suppresses both reactive oxygen species and nitric oxide in chemical and biological model system. *J Agr Food Chem* 51: 5271-5277.
- Hu, P., H. Zhao, Z. Duan, Z. Linlin, and D. Wu. 2004. Starch digestibility and the estimated glycemic score of different types of rice differing of amylase content. *J. Cereal Sci.* 40: 231-237.
- Jauhari, A.. 2013. *Dasar-dasar ilmu gizi*. Jaya Ilmu, Jakarta.
- Jenkis, D.J.A., Wolever, T.M.S. & Jenkins, A.L. 1984. The glycemic response to carbohydrate foods. *Lancet.* 2: 388-391.
- Khush, G.S., C.M. Paule, and N.M. de la Cruz. 1986. Rice grain quality evaluation and improvement at IRRI. *17th GEU Training*. IRRI, Los Banos, Philippines.

- Kristamtini. 2009. Mengenal beras hitam dari Bantul. *Tabloid Sinar Tani* 13 Mei 2009.
- Kusmiadi, R. 2008. Varietas beras dengan komposisi kimiawi zat penyusunnya. *Artikel Pertanian, Perikanan dan Biologi*. FPPB UBB. Bangka Belitung.
- Macleane, J., B. Hardy., G. Hettel. 2013. *Rice Almanac 4th edition*. International Rice Research Institute. Los Banos. p : 4
- Marinova, D., et al. 2005. Total phenolic and total flavonoids in bulgarian fruits and vegetables. *Journal of the University of Chemical Technology and Metallurgy* 40(3): 255-260.
- Marsono, Y., P. Wiyono, dan Z. Noor. 2002. Indeks glikemik kacang-kacangan. *Jurnal Teknologi dan Industri Pangan* 13(3):13-20.
- Maulida, R., dan Guntarti, A. 2015. Pengaruh ukuran partikel beras hitam (*Oryza sativa* L.) terhadap rendemen ekstrak dan kandungan total antosianin. *Pharmaciana* 5(1): 9-16.
- Molyneux, P. (2004). The use of the stable free radical diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity. *Songklanakarinn Journal of Science and Technology* 26: 211-219.
- Mun'im A, Negishi O, and Ozawa T. 2003. Antioxidative compounds from *Crotalaria sessiliflora*. *Biosci Biotechnol Biochem*, 67(2): 410-414.
- Nikhil, S.B., Dambe, P.A., Ghongade, D.B., and Goupale, D.C. 2010. Hydroalcoholic extraction of *Magnifera indica* (leaves) by Soxhletion. *International Journal of Pharmaceutical Sciences*. 2(1):30-32.
- Nishizawa M, M Kohno, M Nishimura, A Kitagawa, Y Niwano. 2005. Nonreductive scavenging of 1,1-diphenyl-2-picrylhydrazyl (DPPH) by peroxyradical: a useful method for quantitative analysis of peroxyradical. *Chem Pharm Bull* 53(6) 714-716
- Oki, T., et al. 2002. Polymeric proanthocyanidin as radical- scavenging component in red hulled rice. *J.Agric.Food Chem*. 50 (26) :861-1192.
- Othman, A., Ismail, A., Ghani, A., and Adenan, I. 2007. Antioxidant capacity and phenolic content of cocoa bean. *Food Chemistry*. 1523-1530.
- Perera, AS., Jansz, ER. 2000. Preliminary investigation on the red pigment in rice and its effect on glucose release from rice starch. *J Natn Sci Foundation* . Sri Lanka 28:185-192.
- Pervical, M. 1998. *Antioxidants*. Clinical Nutrition Insights, Advanced Nutrition Publications, Inc.
- Purnamaningsih, R. 2006. Induksi kalus dan optimasi regenerasi empat varietas padi melalui kultur in vitro. *J Agro Biogen* 2(2):74-80.

- Rice-Evans, CN., Miler, J. Panganga, G. 1996. Structure antioxidant activity relationship of flavonoid and phenolic acid. *J Free Radical Biology and Medecine*. 20(7): 933-956.
- Robinson, T. 1995. *Kandungan organik tumbuhan tinggi edisi ke-6*. Penerbit ITB. Bandung.
- Sahreen, S., Khan, M.R. dan Khan, R.A. (2010). Evaluation of antioxidant activities of various solvent extracts of *Carissa opaca* fruits. *Food Chemistry* 122: 1205-1211.
- Saleh, M.A., Clark, S., Woodard, B. 2010. *Antioxidant and free radical scavenging activities of essential oils*. Ethnicity & Disease, Volume 20, Spring.
- Schramm, R. 2007. Fractionation of the rice bran layer and quantification of vitamin E, oryzanol, protein, and rice brand saccharide. *J Biol Eng*, 1-9.
- Sharma, O.P. dan Bhat, T.K. (2009). Analytical methods DPPH antioxidant assay revisited. *Food Chemistry* 113: 1202-1205.
- Sompong, R., Siebenhandl-Ehn, S., Linsberger-Martin, G., Berghofer, E. 2011. Physicochemical and antioxidative properties of red and black rice varieties from Thailand, China, and Sri Lanka. *Food Chem* 124: 132-140.
- Suardi, D. 2008. *Potensi beras merah untuk peningkatan mutu pangan*. Balai Besar Penelitian dan Pengembangan Bioteknologi Sumberdaya Genetik Pertanian.
- Suardi, D. dan I. Ridwan. 2009. Beras hitam, pangan berkhasiat yang belum populer. *Warta Penelitian dan Pengembangan Pertanian* 31(2): 9-10.
- Sutharut, J. & Sudarat, J. 2012. Total anthocyanin content and antioxidant activity of germinated colored rice. *International Food Research Journal*, 19(1), pp. 215-221.
- Tjitrosoepomo, G. 2010. *Taksonomi tumbuhan (Spermatophyta)*. Gadjah Mada University Press. Yogyakarta.
- Toekidjo. 1992. *Kajian keragaan beberapa varietas lokal padi gogo dan kemungkinan pemanfaatannya dalam pemuliaan tanaman*. Fakultas Pertanian, Universitas Gadjah Mada. Yogyakarta.
- Vermerris, W. and Nicholson, R. 2006. *Phenolic compound biochemistry*. Springer. New York.
- Vichapong, J., Sookserm, M., Srijesaruk, V., Swatsitang, P. dan Srijaranai, S. 2010. High performance liquid chromatographic analysis of phenolic compounds and their antioxidant activities in rice varieties. *LWT-Food Science Technology* 43: 1325-1330.
- Wang, L.S. dan Stoner, G.D. 2008. Anthocyanins and their roles in cancer prevention. *Cancer Letters* 269: 281-290.

- Wang, Q. 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), pp. 295- 301.
- Westphal, S.A., Cannon, M.C. & Nuttall, F.Q. 1990. Metabolic response to glucose ingested with various amounts of protein. *Am. J. Clin. Nutr.* 52: 267-272.
- Winarsi, FG. 2007. *Antioksidan alami dan radikal bebas*. Kanisius. Yogyakarta.
- Winarti, S. 2010. *Makanan fungsional*. Yogyakarta.
- Windono, T., et al. 2001. Uji peredam radikal bebas terhadap 1,1-diphenil-2-picryllhydrazil (DPPH) dari ekstrak kulit buah dan biji anggur probolinggo biru dan bali. *Artocarpus* 1(1): 38-39.
- Yang, Y.X., Wang, H.W., Cui, H.M., Wang, Y., Yu, L.D., Xiang, S.X. 2006. Glycemix index of cereals and tubers produced in China. *World Journal Gastroenterol*, 12(21): 3430-3433.
- Yawadio, R, Tanimori, S, Morita, N. 2007. Identification of phenolic compounds isolated from pigmented rices and their aldose reductase inhibitory activities. *Of Food Chem.* 101: 1616–1625.
- Zuhra, C.F., Tarigan, J.Br., Sihotang, A. 2008. Aktivitas senyawa antioksidan senyawa flavonoid dari daun katuk (*Sauropus androgunus* (L) Merr). *J Biologi Sumatera*. 3(1):7-10.