

## BAB VI

### DAFTAR PUSTAKA

- Abassi, F., Brown, B.W., Lamendola, C., McLaughlin, T., dan Reaven, G.M. 2002. *Relationship between Obesity, Insulin Resistance, and Coronary Heart Disease Risk. J Am Coll Cardiol* 40 (5): 937-943.
- Aboonabi, A., Rahmat, A., dan Othman, F. 2014. *Antioxidant Effect of Pomegranate Against Streptozotocin-Nicotinamide Generated Oxidative Stress Induced Diabetic Rats. Toxicology Reports* 1: 915-922.
- Aguilar, F., Crebelli, R., Dusemund, B., Galtier, P., Gott, D., Gundert-Remy, U., König, J., Lambré, C., Leblanc, J-C., Mortensen, A., Mosesso, P., Oskarsson, A., Parent-Massin, D., Rose, M., Stankovic, I., Tobback, P., Waalkens-Berendsen, I., Woutersen, R.A., dan Wright, M. 2013. *Scientific Opinion on the Re-evaluation of Anthocyanins (E 163) as a Food Additive. EFSA J* 11 (4): 3145.
- Aluko, R.E. 2012. *Functional Foods and Nutraceutical*. New York: Springer Science+Business Media. ISBN 978-1-4614-3480-1.
- Anderson, M.E. 1998. *Glutathione: An Overview of Biosynthesis and Modulation. Chem Biol Interact* 111-112: 1-14.
- Anonim<sup>1</sup>. 2004. *Diagnosis and Classification of Diabetes Mellitus. Diabetes Care* 27: S5-S10. *American Diabetes Association*.
- Anonim<sup>2</sup>. 2004. *Pearson's Correlation*. <[www.statstutor.ac.uk/resources/uploaded/pearsons.pdf](http://www.statstutor.ac.uk/resources/uploaded/pearsons.pdf)> (diakses 26 Maret 2016). Statstutor.
- Anonim. 2008. *Pedoman Pengendalian Diabetes Melitus dan Penyakit Metabolik*. Jakarta: Direktorat Pengendalian Penyakit Tidak Menular.
- Anonim. 2009. *Dictionary of Food Science and Technology*. Edisi 2. Inggris: IFIS Publishing e-Book.
- Anonim. 2011. *Parts of Rice Seed*. <<http://www.rkmp.co.in/content/parts-of-a-rice-seed>> (diakses 5 April 2016). *Rice Knowledge Management Portal*.
- Anonim<sup>1</sup>. 2014. *Homeostatic Model Assessment (HOMA). Innersense* 154: 1-5. *SRL Diagnostics*.
- Anonim<sup>2</sup>. 2014. *Infodatin: Situasi dan Analisis Diabetes*. <<http://www.depkes.go.id/download.php?file=download/pusdatin/infodatin/>>

infodatin-diabetes.pdf> (diakses 20 April 2016). Pusat Data dan Informasi Kementerian Kesehatan Republik Indonesia.

Anonim<sup>3</sup>. 2014. *Kidney Disease of Diabetes*. <<http://www.niddk.nih.gov/health-information/health-topics/kidney-disease/kidney-disease-of-diabetes/Pages/facts.aspx>> (diakses 6 April 2016). *National Institute of Diabetes and Digestive and Kidney Disease*.

Anonim<sup>1</sup>. 2015. *Classification and Diagnosis of Diabetes*. *Diabetes Care* 38: S8-S17. *American Diabetes Association*.

Anonim<sup>2</sup>. 2015. *HOMA Calculator*. *University of Oxford*. <<http://www.dtu.ox.ac.uk/>> (diakses 18 Maret 2016). *Diabetes Trials Unit*.

Anonim<sup>3</sup>. 2015. *XL: Formula to Calculate the Standard Error of the Mean*, Revisi 4.0. <<https://support.microsoft.com/en-us/kb/214076>> (diakses 22 April 2016). Microsoft.

Anonim<sup>1</sup>. 2016. *Hematoxylin and Eosin Stain (H&E)*. <[www.urmc.rochester.edu/MediaLibraries/URMCMedia/musculoskeletal-research/core-services/histology/documents/HandEProtocol.pdf](http://www.urmc.rochester.edu/MediaLibraries/URMCMedia/musculoskeletal-research/core-services/histology/documents/HandEProtocol.pdf)> (diakses 14 Maret 2016). *University of Rochester Medical Center*.

Anonim<sup>2</sup>. 2016. *Official Methods of Analysis of AOAC International*, Edisi ke-18, Volume 1-2, Revisi 1. Maryland, USA: AOAC International. *Association of Analytical Communities*.

Anonim<sup>3</sup>. 2016. *Medication*. <<http://www.diabetes.org/living-with-diabetes/treatment-and-care/medication/>> (diakses 20 April 2016). *American Diabetes Association*.

Anonim<sup>4</sup>. 2016. *Stroke, Cerebrovascular Accident*. <[http://www.who.int/topics/cerebrovascular\\_accident/en/](http://www.who.int/topics/cerebrovascular_accident/en/)> (diakses 21 April 2016). *World Health Organization*.

Anwer, T. 2014. *Melatonin Ameliorates Hyperinsulinemia, Glucose Intolerance and Insulin Resistance in STZ-Nicotinamide Induced Type 2 Diabetic Rats*. *IJPPS* 6 : 133-136.

Araya, Q.AV., Valera, M.JM., Contreras, B.J., Csendes, J.A., Diaz, J.JC., Burdiles, P.P., Rojas, C.J., Maluenda, G.F., Smok, S.G., dan Poniachik, T.J. 2006. *Glucose Tolerance Alterations and frequency of Metabolic Syndrome Among Patients with Non Alcoholic Fatty Liver Disease*. *Rev Med Chil* 134 (9): 1092-1098.

Aronolf, S.L., Berkowitz, K., Shreiner, B., dan Want, L. 2004. *Glucose Metabolism and Regulation: Beyond Insulin and Glucagon*. *Diabetes Spectr* 17 (3): 183-190.

- Asgary, S., Rafieian-Kopaei, M., Shamsi, F., Najafi, S., dan Sahebkar, A. 2014. *Biochemical and Histopathological Study of the Anti-hyperglycaemic and Anti-hyperlipidemic Effects of Cornelian Cherry (Cornus mas L.) in Alloxan-induced Diabetic Rats. J Complement Integr Med* 11 (2): 63-69.
- Astuti, M. dan Marsono, Y. 2015. *Pengembangan Formula Pangan Fungsional Beras Hitam dan Evaluasi Komponen Bioaktifnya secara In Vivo*. Laporan Akhir Kegiatan Penelitian Unggulan Perguruan Tinggi. Yogyakarta: Lembaga Penelitian dan Pengabdian kepada Masyarakat, Universitas Gadjah Mada.
- Ayala, A., Muñoz, M.F., dan Argüelles, S. 2014. *Lipid Peroxidation: Production, Metabolism, and Signaling Mechanism of Malondialdehyde and 4-Hydroxy-2-Nonenal. Oxid Med Cell Longev* 2014: 1-31. ID 360438.
- Badshah, H., Ullah, I., Kim, S.E., Lee, H.Y., dan Kim, M.O. 2013. *Anthocyanins Attenuate Body Weight Gain Via Modulating Neuropeptide Y and GABAB1 Receptor in Rats Hypothalamus. Neuropeptides* 47 (5): 347-353.
- Bagchi, D., Garg, A., Krohn, L.R., Bagchi, M., Bagchi, D.J., Balmoori, J., dan Stohs, S.J. 1998. *Protective Effects of Grape Seed Proanthocyanidins and Selected Antioxidants against TPA-Induced Hepatic and Brain Lipid Peroxidation and DNA Fragmentation, and Peritoneal Macrophage Activation in Mice*. Abstrak. *General Pharmacology: The Vascular System* 30 (5): 771-776.
- Barham, D. dan Trinder, P. 1972. *An Improved Colour Reagent for the Determination of Blood Glucose by the Oxidase System. Analyst* 97: 142-145.
- Bell, G.I., Kayano, T., Buse, J.B., Burant, C.F., Takeda, J., Lin, D., Fukumoto, H., dan Seino, S. 1990. *Molecular Biology of Mammalian Glucose Transporters. Diabetes Care* 13 (3): 198-208.
- Bender, D.A. 2006. *Benders' Dictionary of Nutrition and Food Technology*. Edisi 8. Cambridge, England: Woodhead Publishing Limited dan CRC Press LLC.
- Benson, E.E. 1990. *Free Radical Damage in Stored Plant Germplasm*. Rome: International Board for Plant Genetic Resources. ISBN 92-9043-196-2.
- Benzie, I.F.F. dan Strain, J.J. 1996. The Ferric Reducing Ability of Plasma (FRAP) as a Measure of "Antioxidant Power": The FRAP Assay. *Anal Biochem* 239: 70-76.
- Biswas, S.K., Megson, I.L., Shaw, C.A., dan Rahman, I. 2013. "Cigarette Smoking, Inflammation, and Obesity" dalam *Obesity: Epidemiology, Pathophysiology, and Prevention* : 85-112. Diedit oleh: Bagchi, D. dan Preuss, H.G. Boca Raton: CRC Press. ISBN: 978-1-4398-5425-9.

- Blaton, V. 2002. *Oxidative Stress in Diabetes*. *eJIFCC* 13 (5). <<http://www.ifcc.org/ifcc-communications-publications-division-%28cpd%29/ifcc-publications/ejifcc-%28journal%29/e-journal-volumes/ejifcc-2002-vol-13/vol-13-n%C2%B0-5/oxidative-stress-in-diabetics-by-prof-victor-blaton/>> (Diakses 6 April 2016).
- Bouayed, J. dan Bohn, T. 2010. *Exogenous Antioxidants – Double-Edged Swords in Cellular Redox State*. *Oxid Med Cell Longev* 3 (4): 228-237.
- Boyd, K. 2013. *Diabetic Retinopathy Causes*. <<http://www.aao.org/eye-health/diseases/diabetic-retinopathy-causes>> (diakses 22 April 2016).
- Brewer, M.S. 2011. *Natural Antioxidants: Sources, Compounds, Mechanism of Action, and Potential Applications*. *Compr Rev Food Sci F* 10 (4): 221-247.
- Brody, T. 1999. *Nutritional Biochemistry*, Edisi II. California: Academic Press. ISBN 0-12-134836-9.
- Brookes, M.J. dan Cooper, B.T. 2007. *Hypertension and Fatty Liver: Guilty by Association?* *J Hum Hypertens* 21 (4): 264-270.
- Brouillard, R. 1982. “*Chemical Structure of Anthocyanins*” dalam *Anthocyanins as Food Colors*: 1-40. Diedit oleh Markakis, P. New York: Academic Press, Inc.
- Budke, B. dan Kuzminov, A. 2006. *Hypoxanthine Incorporation is Nonmutagenic in Eschericia coli*. *J Bacteriol* 188 (18): 6553-6560.
- Castañeda-Ovando, A., Pacheco-Hernández, M.L., Páes-Hernández, M.E., Rodríguez, J.A., dan Galán-Vidal, C.A. 2009. *Chemical Studies of Anthocyanins: A Review*. *Food Chem* 113 (4): 859-871.
- Chakuton, K., Puangpronpitag, D., dan Nakornriab, M. 2012. *Phytochemical Content and Antioxidant Activity of Colored and Non-colored Thai Rice Cultivar*. *Asian J Plant Sci* : 1-9.
- Charan, J. dan Kantharia, N.D. 2013. *How to Calculate Sample Size in Animal Studies?* *J Pharmacol Pharmacother* 4 (4): 303-306.
- Chaudhary, R.C. 2003. *Specialty Rices of the World: Effect of WTO and IPR on Its Production Trend and Marketing*. *JFAE* 1 (2): 34-41.
- Choi, S.W., Kang, W.W., dan Osawa, T. 1994. *Isolation and Identification of Anthocyanin Pigments in Black Rice*. *Foods and Biotechnology* 3 (3): 131-136.
- Chu, P.C., Hsiao, M.C., Yang, Y.H., Chen, J.H., dan Liu, H.L. 2009. *Investigation of the Effect of Acoustic Pressure and Sonication Duration on Focused-Ultrasound Induced Blood-Brain Barrier Disruption*. *IFMBE Proceedings* 23: 1094-1097.

- Corkey, B.E. 2011. *Hyperinsulinemia: Cause or Consequence? Diabetes* 61: 4-13.
- Cowart, S.L. dan Stachura, M.E. 1990. "Glucosuria" dalam *Clinical Methods: The History, Physical, and Laboratory Examinations*, Edisi III. Boston: Butterworths.
- Darmawan, S. dan Hermawan, S. 1998. *Patologi*. Jakarta: UI-Press.
- Darmono. 1995. *Logam dalam Sistem Biologi Makhluk Hidup*. Jakarta: UI-Press.
- Dayem, S.M.A., El Sheikh, E.A.B., Abdou, S.S., Agaiby, M.H., dan Mahmoud, M. 2012. *Malondialdehyde and Pentosidine in Young Type 1 Diabetic Patients. MJMS* 5 (4): 428-433.
- De Cock, H.E.V., Forman, M.A., Farver, T.B., dan Marks, S.L. 2007. *Prevalence and Histopathologic Characteristics of Pancreatitis in Cats. Vet Pathol* 44 (1): 39-49.
- De Mattia, G., Bravi, M.C., Laurenti, O., Cassone-Faldetta, M., Armiento, A., Ferri, C., dan Balsano, F. 1998. *Influence of Reduced Glutathione Infusion on Glucose Metabolism in Patients with Non-Insulin-Dependent Diabetes Mellitus. Metabolism* 47 (8): 993-997.
- De Zwart, L.L., Meerman, J.H.N., Commandeur, J.N.M., dan Vermeulen, N.P.E. 1999. *Biomarkers of Free Radical Damage Applications in Experimental Animals and In Humans. Free Radic Biol Med* 26 (1/2): 202-226.
- Deeds, M.C., Anderson, J.M., Armstrong, A.S., Gastineau, D.A., Hiddinga, H.J., Jahangir, A., Eberhardt, N.L., dan Kudva, Y.C. 2011. *Single Dose Streptozotocin Induced Diabetes: Considerations for Study Design in Islet Transplantation Models. Lab Anim* 45 (3): 131-140.
- Dröge, W. 2002. *Free Radicals in the Physiological Control of Cell Function. Physiol Rev* 82: 47-95.
- EhJJ. 2009. File:Atherosclerosis diagram.png. <[https://commons.wikimedia.org/wiki/File:Atherosclerosis\\_diagram.png](https://commons.wikimedia.org/wiki/File:Atherosclerosis_diagram.png)> (diakses 21 April 2016).
- El-Beltagi, H.S. dan Mohamed, H.I. 2013. *Reactive Oxygen Species, Lipid Peroxidation and Antioxidative Defense Mechanism. Not Bot Horti Agrobo Cluj Napoca* 41 (1): 44-57.
- El-Serag, H.B., Tran, T., dan Everhart, J.E. 2004. *Diabetes Increases the Risk of Chronic Liver Disease and Hepatocellular Carcinoma. Gastroenterology* 126: 460-468.
- Evans, St.B.T. dan Over, D.E. 1996. *Rationality and Reasoning*. UK: Psychology Press. ISBN: 0-86377-437-7.

- Fang, Y.Z., Yang, S., dan Wu, G. 2002. *Free Radicals, Antioxidants, and Nutrition*. *Nutrition* 18 (10): 872-879.
- Federer, W.T, 1991. *Statistics and Society: Data Collection and Interpretation*, Edisi II. New York: Marcel Dekker, Inc. ISBN 0-8247-8249-6.
- Fithriyati, M.N.C. 2015. *Perbandingan Efek Anti Inflamasi Antara Ekstrak Antosianin Beras Hitam (Oryza sativa L.) dan Ubi Jalar Ungu (Ipomea batatas poiret) pada Tikus Diabetes Mellitus Tipe 2*. Tesis: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Fleshchhut, J., Kratzer, F., Rechkemmer, G., dan Kulling, S.E. 2006. *Stability and Biotransformation of Various Dietary Anthocyanins In Vitro*. *Eur J Nutr* 45: 7-18.
- Francis, F.J. 1982. "Analysis of Anthocyanins" dalam *Anthocyanins as Food Colors*: 181-207. Diedit oleh Markakis, P. New York: Academic Press, Inc.
- Fu, Z., Gilbert, E.R., dan Liu, D. 2013. *Regulation of Insulin Synthesis and Secretion and Pancreatic Beta-Cell Dysfunction in Diabetes*. *Curr Diabetes Rev* 9 (1): 25-53.
- Gan, C-Y. dan Latiff, A.A. 2011. *Optimisation of the Solvent Extraction of Bioactive Compounds from Parkia speciosa Pod Using Response Surface Methodology*. *Food Chem* 124: 1277-1283.
- Garza-Rodea, A.S., Knaän-Shanzer, S., Hartigh, J.D., Verhaegen, A.P.L., dan Bekkum, D.W. 2010. *Anomer-Equilibrated Streptozotocin Solution for the Induction of Experimental Diabetes in Mice (Mus musculus)*. *JAALAS* 49 (1): 40-44.
- Ghosh, D. dan Konishi, T. 2007. *Anthocyanins and Anthocyanins-rich Extract: Role in Diabetes and Eye Function*. *Asia Pac J Clin Nutr* 16 (2): 200-208.
- Giusti, M.M. dan Wrolstad, R.E. 2001. "Characterization and Measurement of Anthocyanins by UV-Visible Spectroscopy" dalam *Current Protocols in Food Analytical Chemistry* 102: F1.2.1-F1.2.13. John Wiley & Sons.
- Grotto, D., Maria, L.S., Valentini, J., Paniz, C., Schmitt, G., Garcia, S.C., Pomblum, V.J., Rocha, J.B.T., dan Farina, M. 2009. *Importance of the Lipid Peroxidation Biomarkers and Methodological Aspects for Malondialdehyde Quantification*. *Quím Nova* 32 (1): 169-174.
- Guo, H., Ling, W., Wang, Q., Liu, C., Hu, Y., Xia, M., Feng, X., dan Xia, X. 2007. *Effect of Anthocyanin-Rich Extract from Black Rice (Oryza sativa L. Indica) on Hyperlipidemia and Insulin Resistance in Fructose-Fed Rats*. *Plant Foods for Human Nutrition* 62: 1-6.

- Guyton, A.C. 1995. Penerjemah: Andrianto, P. *Fisiologi Manusia dan Mekanisme Penyakit*, Edisi III, Cetakan IV. Jakarta: Penerbit Buku Kedokteran EGC. ISBN 979-448-024-X.
- Guyton, A.C. 2006. *Textbook of Medical Physiology*. Philadelphia: Elsevier Inc. ISBN: 0-8089.2317-X.
- Halliwell, B. dan Gutteridge, J.M.C. 1999. dalam Stocker, R. dan Keaney, Jr., J.F. 2004. *Role of Oxidative Modifications in Atherosclerosis*. *Physiol Rev* 84: 1381-1478.
- Hanhineva, K., Törrönen, R., Bondia-Pons, I., Pekkinen, J., Kolehmainen, M., Mykkänen, H., dan Poutanen, K. 2010. *Impact of Dietary Polyphenols on Carbohydrate Metabolism*. *Int J Mol Sci* 11: 1365-1402.
- Hardie, D.G. 2008. *Role of AMP-activated Protein Kinase in the Metabolic Syndrome and in Heart Disease*. *FEBS Letters* 582: 81-89.
- Hartati, S. 2012. *Potensi Beras Wulung sebagai Makanan Diet Penderita Diabetes Mellitus: Pengaruh Pengolahan terhadap Kandungan Antosianin*. *Seminar Hasil Penelitian dan Pengabdian Kepada Masyarakat, Universitas Veteran Bangun Nusantara* : 12-17.
- Hatwalne, M.S. 2012. *Free Radical Scavengers in Anaesthesiology and Critical Care*. *Indian J Anaesth* 56 (3): 227-233.
- Havel, P.J., Uriu-Hare, J.Y., Liu, T., Stanhope, K.L., Stern, J.S., Keen, C.L., dan Ahren, B. 1998. *Marked and Rapid Decrease of Circulating Leptin in Streptozotocin Diabetic Rats: Reversal by Insulin*. *Am. J. Physiol.* 274(5 Pt 2): 1482-1491.
- Hendromartono. 2003. “Resistensi Insulin pada Diabetes Tipe 2” dalam *Pertemuan Ilmiah Nasional I (PB PAPDI)* : 83-90. Diedit oleh Prodjosudjadi, W., Setiati, S., dan Alwi, I. Jakarta: Bagian Penyakit Dalam Fakultas Kedokteran Universitas Indonesia.
- Herawati, E.R.N. 2013. *Pengaruh Konsumsi Ekstrak Antosianin Ubi Jalar ungu (Ipomoea batatas L.) terhadap Glukosa Darah, Status Antioksidan Darah, dan Gambaran Histopatologis Pankreas tikus Hiperglikemia Induksi Aloksan*. Tesis: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Hiemori, M., Koh, E., dan Mitchell, A.E. 2009. *Influence of Cooking on Anthocyanins in Black Rice (Oryza sativa L. Japonica var. SBR)*. *J Agric Food Chem* 57: 1908-1914.
- Hou, Z., Qin, P., Zhang, Y., Cui, S., dan Ren, G. 2013. *Identification of Anthocyanins Isolated from Black Rice (Oryza sativa L.) and Their Degradation Kinetics*. *Food Res Int* 50 (2): 691-697.

- Huang, S. dan Czech, M.P. 2007. *The GLUT4 Glucose Transporter. Cell Metabolism* 5 (4): 237-252.
- Hwang, I-S., Ho, H., Hoffman, B.B., dan Reaven, G.M. 1987. *Fructose-induced Insulin Resistance and Hypertension in Rats. Hypertension* 10 (5): 512-516.
- Ichikawa, H., Ichiyanagi, T., Xu, B., Yoshii, Y., Nakajima, M., dan Konishi, T. 2001. *Antioxidant Activity of Anthocyanin Extract from Purple Black Rice. J Med Food* 4 (4): 211-218.
- Indradewa, D. 2012. “Kesiapan Varietas Padi dalam Mendukung Ketahanan Pangan di Indonesia” dalam *Pertanian Terpadu untuk Mendukung Kedaulatan Pangan Nasional* : 131-157. Diedit oleh Sunarminto, B.H. Yogyakarta: BPFE.
- Jankowski, A., Jankowska, B., dan Niedworok, J. 2000. *The Effect of Anthocyanin Dye from Grapes on Experimental Diabetes. Folia Med Cracov* 41 (3-4): 5-15.
- Janke, J., Engeli, S., Boschmann, M., Adams, F., Böhnke, J., Luft, F.C., Sharma, A.M., dan Jordan, J. 2006. *Retinol-Binding Protein 4 in Human Obesity. Diabetes* 55 (10): 2805-2810.
- Jang, H.H., Park, M.Y., Kim, H.W., Lee, Y.M., Hwang, K.A, Park, J.H., Park, D.S., dan Kwon, O. 2012. *Black Rice (Oryza sativa L.) Extract Attenuates Hepatic Steatosis in C57BL/6 J Mice Fed A High-Fat Diet Via Fatty Acid Oxidation. Nutr Metab* 9: 27.
- Jayaprakasam, B., Vareed, S.K., Olson, L.K., dan Nair, M.G. 2005. *Insulin Secretion by Bioactive Anthocyanins and Anthocyanidins Present in Fruits. J Agric Food Chem* 53: 28-31.
- Jaykaran. 2010. “Mean  $\pm$  SEM” or “Mean (SD)”? *Indian J Pharmacol* 42(5):329.
- Jensen, T. dan Deckert, T. 1992. *Diabetic Retinopathy, Nephropathy and Neuropathy. Generalized Vascular Damage in Insulin-Dependent Diabetic Patients. Horm Metab Res Suppl* 26: 68-70.
- Jing, P. dan Giusti, M.M. 2007. *Effects of Extraction Conditions on Improving the Yield and Quality of an Anthocyanin-Rich Purple Corn (Zea mays L.) Color Extract. J Food Sci* 72 (7): 363-368.
- Julian, A. 25 Maret 2009. *HOMA: Often Mentioned, Rarely Defined.* <<http://www.diabetesincontrol.com/homa-often-mentioned-rarely-defined/>> (diakses 19 Maret 2016).
- Kaneto, H., Kajimoto, Y., Miyagawa, J., Matsuoka, T., Fujitani, Y., Umayahara, Y., Hanafusa, T., Matsuzawa, Y., Yamasaki, Y., dan Hori, M. 1999.

*Beneficial Effects of Antioxidants in Diabetes: Possible Protection of Pancreatic  $\beta$ -Cells against Glucose Toxicity. Diabetes 48: 2398-2406.*

- Kent, N.L. dan Evers, A.D. 1994. *Technology of Cereals*, Edisi 4. Oxford: Elsevier Science Ltd.
- Kim, T.K. 2016. *Edible Medicinal and Non-Medicinal Plants*, Jilid 10. Netherlands: Springer. ISBN 978-94-017-7276-1.
- Klarisa, C. dan Hasan, I. 2014. "Perlemakan Hati" dalam *Kapita Selekta Kedokteran*, Edisi IV, Jilid II: 675-681.
- Kristamtini. 2009. *Mengenal Beras Hitam dari Bantul*. Tabloid Sinar Tani: 13 Mei 2009.
- Kristamtini. 2014. *Kajian Genetik Warna Beras Padi*. Disertasi: Fakultas Pertanian, Universitas Gadjah Mada.
- Kristamtini, Taryono, Basunanda, P., dan Murti, R.H. 2014. *Keragaman Genetik dan Korelasi Parameter Warna Beras dan Kandungan Antosianin Total Sebelas Kultivar Padi Beras Hitam Lokal*. Ilmu Pertanian 17 (1): 57-70.
- Kristiana, H.D., Ariviani, S., dan Khasanah L.U. 2012. *Ekstraksi Antosianin Buah Senggani (Melastoma malabathricum Auct. non Linn) dengan Variasi Jenis Pelarut*. J Teknosains Pangan 1 (1): 105-109.
- Konczak, I. dan Zhang, W. 2004. *Anthocyanins—More than Nature's Colours*. J Biomed Biotechnol 2004 (5): 239-240.
- Kong, J.M., Chia, L.S., Goh, N.K., Chia, T.F., dan Brouillard, R. 2003. *Analysis and Biological Activities of Anthocyanins*. Phytochemistry 64: 923-933.
- Kumar, V., Abbas, A.K., dan Aster, J.C. 2013. *Buku Ajar Patologi Robbins*, Edisi 9. Singapura: Elsevier. ISBN: 978-981-1781-5.
- Kurilich, A.C., Clevidence, B.A., Britz, S.J., Simon, P.W., dan Novotny, J.A. 2005. *Plasma and Urine Responses Are Lower for Acylated vs Nonacylated Anthocyanins from Raw and Cooked Purple Carrots*. J Agric Food Chem 53 (16): 6537-6542.
- Kusumawardhani, A. 2014. *Pengaruh Campuran Ekstrak Antosianin Beras Hitam (Oryza sativa L.) dan Ekstrak Protein Kedelai Hitam (Glycine max (L) Merr.) terhadap Profil Lipid dan Status Antioksidan Plasma Tikus Dislipidemia*. Tesis: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Lacombe, A., Wu, V.C.H., White, J., Tadepalli, S., dan Andre, E.E. 2012. *The Antimicrobial Properties of the Lowbush Blueberry (Vaccinium angustifolium) Fractional Components Against Foodborne Pathogens and*

*the Conservation of Probiotic Lactobacillus rhamnosus. Food Microbiology* 30: 124-131.

Levinthal, G.N. dan Tavill, A.S. 1999. *Liver Disease and Diabetes Mellitus. Clin Diabetes* 17 (2): 478-535.

Levy, J.C., Matthews, D.R., dan Hermans, M.P. 1998. *Correct Homeostatis Model Assessment (HOMA) Evaluation Uses the Computer Program. Diabetes Care* 21 (12): 2191-2192.

Lodovici, M., Giovannelli, L., Pitozzi, V., Bigagli, E., Bardini, G., dan Rotella, C.M. 2008. *Oxidative DNA Damage and Plasma Antioxidant Capacity in Type 2 Diabetic Patients with Good and Poor Glycaemic Control. Mutation Research* 638 (1-2): 98-102.

Longnecker, D. 2014. *Anatomy and Histology of the Pancreas. Pancreapedia*. <<http://www.pancreapedia.org/reviews/anatomy-and-histology-of-pancreas>> (diakses 6 April 2014).

Loreto, V.E.D. dan Rigalli, A. 2009. "Experimental Models for the Study of Diabetes" dalam *Experimental Surgical Models in the Laboratory Rat* :109-114. Boca Raton: CRC Press. ISBN: 978-1-4200-9326.

Lu, C.F. 1995. *Toksikologi Dasar*. Jakarta: UI-Press.

Masiello, P., Broca, C., Gross, R., Roye, M., Manteghetti, M., Hillaire-Buys, D., Novelli, M., dan Ribes, G. 1998. *Development of a New Model in Adult Rats Administrated Streptozotocin and Nicotinamide. Diabetes* 47 (2): 224-229.

Matthews, D.R., Hosker, J.R., Rudenski, A.S., Naylor, B.A., Treacher, D.F., dan Turner, R.C. 1985. *Homeostasis Model Assessment: Insulin Resistance and  $\beta$ -cell Function from Fasting Plasma Glucose and Insulin Concentrations in Man. Diabetologia* 28: 412-419.

Matsui, T., Ebuchi, S., Kobayashi, M., Fukui, K., Sugita, K., Terahara, N., dan Matsumoto, K. 2002. *Anti-hyperglycemic Effect of Diacylated Anthocyanin Derived from Ipomoea batatas Cultivar Ayamurasaki Can Be Achieved through the  $\alpha$ -Glucosidase Inhibitory Action. J Agric Food Chem* 50 (25): 7244-7248.

Matsui, T., Ueda, T., Oki, T., Sugita, K., Terahara, N., dan Matsumoto, K. 2001.  *$\alpha$ -Glucosidase Inhibitory Action of Natural Acylated Anthocyanins. 2.  $\alpha$ -Glucosidase Inhibitor by Isolated Acylated Anthocyanins. J Agric Food Chem* 49: 1952-1956.

Mazza G. dan Miniati, E. 1993. dalam Jing, P. dan Giusti, M.M. 2007. *Effects of Extraction Conditions on Improving the Yield and Quality of an Anthocyanin-Rich Purple Corn (Zea mays L.) Color Extract. J Food Sci* 72 (7): 363-368.

- McConnell, E.L., Basit, A.W., dan Murdan, S. 2008. *Measurements of Rat and Mouse Gastrointestinal pH, Fluid and Lymphoid Tissue, and Implications for In-vivo Experiments*. *JPP* 60: 63-70.
- Meister, A. dan Anderson, M.E. 1983. *Glutathione*. *Ann Rev Biochem* 52: 711-750.
- Mescher, A.L. 2011. *Histologi Dasar Junqueira: Teks dan Atlas*, Edisi XII. Jakarta: EGC. ISBN: 978-979-044-189-7.
- Mess., E.J.D. 1959. *Role of Osmotic Diuresis in Impairment of Concentrating Ability in Renal Disease*. *Br Med J* 1 (5130): 1156-1158.
- Meydani, M. 2001. *Vitamin E and Atherosclerosis: Beyond Prevention of LDL Oxidation*. *J Nutr* 131: 366S-368S.
- Miguel, M.G. 2011. *Anthocyanins: Antioxidant and/or Anti-inflammatory Activities*. *JAPS* 1 (6): 7-15.
- Minnaar, P. 2010. *Colour Loss of Red Wine Due To Metal-Polyphenol Complexation – A Brief Literature Review*. *WineLand Magazine*.
- Molyneux, P. 2004. *The Use of the Stabel Free Radical Diphenylpicryl-hydrazyl (DPPH) for Estimating Antioxidant Activity*. *Songklanakarinn J Sci Technol* 26 (2): 211-219.
- Monika, P., Saputrajaya, W., Liguori, C., Widyawati, P.S., Suteja, A.M., dan Suseno, T.I.P. 2013. *Aktivitas Antioksidan Beras Organik Varietas Lokal (Putih Varietas Cianjur, Merah Varietas Saodah, Hitam Varietas Jawa)*. Seminar Nasional: Menggagas Kebangkitan Komoditas Unggulan Lokal Pertanian dan Kelautan, Fakultas Pertanian Universitas Trunojoyo Madura.
- Muntiha, M. 2001. *Teknik Pembuatan Preparat Histopatologi dari Jaringan Hewan dengan Pewarnaan Hematoksilin dan Eosin (H&E)*. *Temu Teknis Fungsional Non Peneliti 2001* : 156-163.
- Murphy, M.P. 2009. *How Mitochondria Produce Reactive Oxygen Species*. *Biochem J* 417 (Pt1): 1-13.
- Naczki, M. dan Shahidi, F. 2004. *Extraction and Analysis of Phenolics in Food*. *J Chroma* 1054: 95-111.
- Nazir, M. 1988. *Metode Penelitian*, Cetakan ke-3. Jakarta: Ghalia Indonesia.
- Niedowicz, D.M. dan Daleke, D.L. 2005. *The Role of Oxidative Stress in Diabetic Complications*. *Cell Biochem Biophys* 43 (2): 289-330.
- Nurhidajah, Astuti, M., Sardjono, dan Murdiati, A. 2016. *Potential of Pigmented Rice Enriched with Kappa-Carrageenan and Anthocyanin Extract for Glycaemic Property Improvements in Diabetic Rats*. *PJN* 15 (4): 374-378.

- Nurlaili, E.P. 2016. *Potensi Ekstrak Bekatul Beras Hitam dalam Pencegahan Anemia dan Hipertrigliseredemia*. Disertasi: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Nurrahman. 2015. *Evaluasi Komposisi Zat Gizi dan Senyawa Antioksidan Kedelai Hitam dan Kedelai Kuning*. *JATP* 4 (3): 89-93.
- Pandey, S. 2010. *Liver Injury Induced by Renal Ischemia Reperfusion in Diabetes Type-II*. *Arch Appl Sci Res* 2 (1): 95-103.
- Park, Y.S., Kim, S.J., dan Chang, H.I. 2008. *Isolation of Anthocyanin from Black Rice (Heugjinjubyeo) and Screening of Its Antioxidant Activities*. *Kor J Microbiol Biotechnol* 36 (1): 55-60.
- Passamonti, S., Vrhovsek, U., dan Mattivi, F. 2002. *The Interaction of Anthocyanins with Bilitranslocase*. *BBRC* 296: 631-636.
- Passamonti, S., Vrhovsek, U., Vanzo, A., dan Mattivi, F. 2003. *The Stomach as a Site for Anthocyanins Absorption from Food*. *FEBS Letters* : 210-213.
- Paxton, J.D. 1981. dalam Glazebrook, J. dan Ausubel, F.M. 1994. *Isolation of Phytoalexin-Deficient Mutants of Arabidopsis thaliana and Characterization of Their Interactions with Bacterial Pathogens*. *Proc Nati Acad Sci USA* 91: 8955-8959.
- Pettineli, P., Obregón, A.M., dan Videla, L.A. 2011. *Molecular Mechanism of Steatosis in Nonalcoholic Fatty Liver Disease*. *Nutr Hosp* 26 (3): 441-450.
- Peyroux, J. dan Sternberg, M. 2006. *Advanced Glycation Endproducts (AGEs): Pharmacological Inhibitor in Diabetes*. *Pathol Biol* 54 (7): 405-419.
- Pramitasari, R. 2014. *Potensi Antioksidan Minuman Fungsional Berbasis Beras Hitam (Oryza sativa L. Indica) dan Kedelai Hitam (Glycine max L. Merr) untuk Lansia Penyandang Diabetes Mellitus Tipe 2*. Tesis: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Pramitasari, R. 2012. *Evaluasi Sensoris, Nilai Gizi, dan Sifat Fisik Minuman Berbasis Beras (Oryza sativa L.) untuk Orang Lanjut Usia*. Skripsi: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Prior, R.L. 2013. "Alterations in the Adiposity and Dyslipidemia of Obesity by Berries and Berry Phytochemicals" dalam *Phytochemicals: Health Promotion and Therapeutic Potential* : 153-164. Diedit oleh: Carkeet, C., Grann, K., Randolph, R.K., Venzon, D.S., dan Izzy, S.M. Boca Raton: CRC Press. ISBN: 978-1-4665-5163-3.
- Putri, D.P. 2015. *Ekstraksi Antosianin Beras Hitam (Oryza sativa L.) dengan Berbagai Pelarut dan Evaluasi Stabilitasnya pada Suhu Tinggi*. Tesis: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.

- Reed, A. dan Gorelick, F. 2014. *Animal Models of Chronic Pancreatitis. Pancreapedia*. <<http://www.pancreapedia.org/reviews/animal-models-of-chronic-pancreatitis>> (diakses 26 Maret 2016). DOI: 10.3998/panc.2014.1.
- Reeves, P.G., Nielsen, F.H., dan Fahey, G.C. 1993. *AIN-93 Purified Diets for Laboratory Rodents: Final Report of the American Institute of Nutrition Ad Hoc Writing Committee on the Reformulation of the AIN-76A Rodent Diet. J Nutr* 123: 1939-1951.
- Remuzzi, G. dan Bertani, T. 1990. *Is Glomerulosclerosis a Consequence of Altered Glomerular Permeability to Macromolecules?. Kidney Int* 38 (3): 384-394.
- Riaz, M., Zia-Ul-Haq, M., dan Saad, B. 2016. *Anthocyanins and Human Health: Biomolecular and Therapeutic Aspects*. Switzerland: Springer International Publishing. ISBN 978-3-319-26456-1.
- Root, H.F., Pote, W.H.Jr., dan Frehner, H. 1954. *Triopathy of Diabetes; Sequence of Neuropathy, Retinopathy, and Nephropathy in One Hundred Fifty-Five Patients. AMA Arch Intern Med* 94 (6): 931-941.
- Roussel, A.M., Hininger, I., Benabara, R., Ziegenfuss, T.N., Anderson, R.A. 2009. *Antioxidant Effects of a Cinnamon Extract in People with Impaired Fasting Glucose that are Overweight or Obese. J Am Coll Nutr* 28 (1): 16-21.
- Rüegg, M.A. dan Meinen, S. 2014. *Histopathology in Hematoxylin & Eosin Stained Muscle Sections. Treat-NMD*. Nomor SOP: MDC1A\_M.1.2.004.
- Sa'adah, I.R. 2013. *Konservasi Varietas Lokal Padi Beras Hitam (Oryza sativa L.) oleh Petani di Kabupaten Sleman, Bantul, dan Magelang*. Skripsi: Fakultas Pertanian, Universitas Gadjah mada.
- Saadeh, S. 2007. *Nonalcoholic Fatty Liver Disease and Obesity. Nutr Clin Pract* 22 (1): 1-10.
- Sarikaputhi, A., Nararatwanchai, T., Hashiguchi, T., Ito, T., Thaworanunta, S., Kikuchi, K., Oyama, Y., Matuyama, I., dan Tancharoen, S. 2013. *Preventive Effects of Morus alba L. Anthocyanins on Diabetes in Zucker Diabetic Fatty Rats. Exp Ther Med* 6: 689-695.
- Sasaki, R., Nishimura, N., Hoshino, H., Isa, Y., Kadowaki, M., Ichi, T., Tanaka, A., Nishiumi, S., Fukuda, I., Ashida, H., Horio, F., dan Tsuda, T. 2007. *Cyanidin 3-glucoside Ameliorates Hyperglycemia and Insulin Sensitivity Due to Downregulation of Retinol Binding Protein 4 Expression in Diabetic Mice. Biochem Pharmacol* 74 (11): 1619-1627.

- Segal, A.W. 2008. *The Function of the NADPH Oxidase of Phagocytes and Its Relationship to Other NOXs in Plants, Invertebrates, and Mammals. Int J Biochem Cell Biol* 40 (4-3): 604-618.
- Sesti, G., Sciacqua, A., Cardellini, M., Marini, M.A., Maio, R., Vatrano, M., Succurro, E., Lauro, R., Federici, M., dan Perticone, F. 2005. *Plasma Concentration of IGF-I is Independently Associated with Insulin Sensitivity in Subjects with Different Degrees of Glucose Tolerance. Diabetes Care* 28 (1): 120-125.
- Shah, H. 2011. *How to Calculate Sample Size in Animal Studies? Natl J Physiol Pharm Pharmacol* 1 (1): 35-39.
- Shanik, M.H., Xu, Y., Škrha, J., Dankner, R., Zick, Y., dan Roth, J. 2008. *Insulin Resistance and Hyperinsulinemia. Diabetes Care* 31 (2): S262-S268.
- Shui, G. dan Leong, L.P. 2006. *Residue from Star Fruit as Valuable Source for Functional Food Ingredients and Antioxidant Nutraceutical. Food Chem* 97 (2): 277-284.
- Sies, H. 1997. *Oxidative stress: Oxidants and Antioxidants. Exp Physiol* 82: 291-295.
- Sinclair, C. 2005. *Dictionary of Food*. Edisi 2. Italia: A & C Black Publishers Ltd.
- Sjoberg, R.J. dan Kidd, G.S. 1989. *Pancreatic Diabetes Mellitus. Diabetes Care* 12 (10): 715-724.
- Skibted, L.H., Risbo, J., dan Andersen, M.L. 2010. *Chemical Deterioration and Physical Instability of Food and Beverages*. New Delhi: Woodhead Publishing Limited. ISBN 978-1-84569-926-0.
- Sompong, R., Siebenhandl-Ehn, S., Linsberger-Martin, G., dan Berghofer, E. 2011. *Physicochemical and Antioxidative Properties of Red and Black Rice Varieties from Thailand, China and Sri Lanka. Food Chem* 124 (1):132-140.
- Stintzing, F.C. dan Carle, R. 2004. *Functional Properties of Anthocyanins and Betalains in Plants, Food, and in Human Nutrition. Trends in Food Sci & Tech* 15: 19-38.
- Stintzing, F.C., Stintzing, A.S., Carle, R., Frei, B., dan Wrolstad, R.E. 2002. *Color and Antioxidant Properties of Cyanidin-Based Anthocyanin Pigments. J Agric Food Chem* 50: 6172-6181.
- Stocker, R. dan Keaney, Jr., J.F. 2004. *Role of Oxidative Modifications in Atherosclerosis. Physiol Rev* 84: 1381-1478.
- Suardi, D. dan Ridwan, I. 2009. *Beras Hitam, Pangan Berkhasiat yang Belum Populer. Warta Penelitian dan Pengembangan Pertanian* 31 (2): 9-10.

- Subagyo, P. 2012. *Statistika Terapan*, Edisi II, Cetakan ke-3. Yogyakarta: BPFE. ISBN: 979-503-446-4.
- Sudarmadji, S., Haryono, B., dan Suhardi. 2010. *Analisa Bahan Makanan dan Pertanian*, Edisi kedua, Cetakan keempat. Yogyakarta: Penerbit Liberty.
- Sugiat, D., Hanani, E., dan Mun'im, A. 2010. *Aktivitas Antioksidan dan Penetapan Kadar Fenol Total Ekstrak Methanol Dedak Beberapa Varietas Padi (Oryza sativa L.)*. *Majalah Ilmu Kefarmasian* 7 (1): 24-33.
- Suryohudoyo, P. 1993. "Oksidan, Antioksidan dan Radikal Bebas" dalam *Simposium Oksidan dan Antioksidan* : 37-50. Diedit oleh Tjokroprawiro. Surabaya: Persatuan Ahli Penyakit Dalam Cabang Surabaya.
- Swarayana, I M.I., Sudira, I W., dan Berata, I K. 2012. *Perubahan Histopatologi Hati Mencit (Mus musculus) yang Diberikan Ekstrak Daun Ashitaba (Angelica keiskei)*. *Buletin Veteriner Udayana* 4 (2): 119-125. ISSN: 2085-2495.
- Swasti, Y.R. 2007. *Aktivitas Antioksidan Antosianin Beras Hitam dalam Low-Density Lipoprotein (LDL) Plasma Darah Manusia secara In Vitro*. Tesis: Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Szkudelski, T. 2012. *Streptozotocin – nicotinamide-induced diabetes in the rat. Characteristics of the experimental model*. *Experimental Biology and Medicine* 237: 481-490.
- Takikawa, M., Inoue, S., Horio, F., dan Tsuda, T. 2010. *Dietary Anthocyanin-Rich Bilberry Extract Ameliorates Hiperglikemia and Insuline Sensitivity via Activation of AMP-Activated Protein Kinase in Diabetic Mice*. *J Nutr* : 527-533.
- Tandon, V.R., Verma, S., Singh, J.B., dan Mahajan, A. 2005. *Antioxidants and Cardiovascular Health*. *JK Science* 7 (2): 61-64.
- Tang, W.H., Martin, K.A., dan Hwa, J. 2012. *Aldose Reductase, Oxidative Stress, and Diabetic Mellitus*. *Front Pharmacol* 3 (87): 1-8.
- Toft, D.J. 2014. *Diabetic Neuropathy Causes*. <<http://www.endocrineweb.com/guides/diabetic-neuropathy/diabetic-neuropathy-causes>> (diakses 22 April 2016).
- Tortora, G.J. dan Derrickson, B. 2009. *Principles of Anatomy and Physiology*, Edisi 12. USA: John Wiley & Sons, Inc. ISBN 978-0-470-08471-7.
- Tsuda, T., Horio, F., Uchida, K., Aoki, H., dan Osawa, T. 2003. *Dietary Cyanidin 3-O-β-D-Glucoside-Rich Purple Corn Color Prevents Obesity and Ameliorates Hyperglycemia in Mice*. *J Nutr* 133 (7): 2125-2130.

- Turrens, J.F. 2003. *Mitochondrial Formation of Reactive Oxygen Species. J Physiol* 552 (2): 335-344.
- Tyagi, S., Gupta, P., Saini, A.S., Kaushal, C., dan Sharma, S. 2011. *The Peroxisome Proliferator-activated Receptor: A Family of Nuclear Receptors Role in Various Diseases. J Adv Pharm Technol Res* 2 (4): 236-240.
- Umegaki, H. 2015. *Sarcopenia and Diabetes: Hyperglycemia is A Risk Factor for Age-Associated Muscle Mass and Functional Reduction. J Diabetes Investig* 6 (6): 623-624.
- Van der Poll, T., Keogh, C.V., Guirao, X., Buurman, W.A., Kopf, M., dan Lowry, S.F. 1997. *Interleukin-6 Gene-deficient Mice Show Impaired Defense Against Pneumococcal Pneumonia. J Infect Dis* 176 (2): 439-444.
- Vendrame, S., Daugherty, A., Kristo, A.S., Riso, P., dan Klimis-Zacas, D. 2013. *Wild Blueberry (Vaccinium angustifolium) Consumption Improves Inflammatory Status in the Obese Zucker Rat Model of the Metabolic Syndrome. J Nutr Biochem* 24 (8): 1508-1512.
- Vladimirov, I.A. 1998. *Free Radicals and Antioxidants. Vestn Ross Akad Med Nauk* (7): 43-51.
- Wallace, T.M., Levy, J.C., Matthews, D.R. 2004. *Use and Abuse of HOMA Modeling. Diabetes Care* 27 (6): 1487-1495.
- Wang, H., Cao, G., dan Prior, R.L. 1997. *Oxygen Radical Absorbing Capacity of Anthocyanins. J Agric Food Chem* 45: 304-309.
- Wang, Z., dan Gleichmann, H. 1998. *GLUT2 in Pancreatic Islets: Crucial Target Molecule in Diabetes Induced with Multiple Low Doses of Streptozotocin in Mice. Diabetes* 47 (1): 50-56.
- Wang, Z., Yang, Y., Xiang, X., Zhu, Y., Men, J., dan He, M. 2010. *Estimation of the Normal Range of Blood Glucose in Rats. Wei Sheng Yan Jiu* 39 (2): 133-137.
- Welirang, F. 2004. "Melalui Budaya makan Tepung Merajut Pembangunan dalam Era Otonomi Daerah" dalam *Politik Pangan* : 20-40. Dedit oleh Usman, S. Yogyakarta: CIRED.
- Widarta, I W.R., Nocianitri, K.A., dan Sari., L.P.I.P. 2013. *Ekstraksi Komponen Bioaktif Bekatul Beras Lokal dengan Beberapa Jenis Pelarut. JATP* 2 (2): 75-79.
- Wilcox, J.K., Ash, S.L., dan Catignani, G.L. 2004. *Antioxidants and Prevention of Chronic Disease. Crit Rev Food Sci Nutr* 44 (4): 275-295.
- Winarsi, H. 2011. *Antioksidan Alami dan Radikal Bebas*, Cetakan V. Yogyakarta: Penerbit Kanisius. ISBN: 978-979-21-1612-0.

- Winder, W.W. dan Hardie, D.G. 1999. *AMP-activated Protein Kinase, a Metabolic Master Switch: Possible Roles in Type 2 Diabetes*. *Am J Physiol* 277: E1-E10.
- Wirda, Z., Halim, H., Millati, T., dan Zuhidiani, R. 2011. *Pengaruh Berbagai Jenis Pelarut dan Asam terhadap Rendemen Antosianin dari Kubis Merah (Brassica oleraceae capitata)*. *Agrosientia* 18 (2): 57-63.
- Wright, M. dan Knott, L. 2013. *Acute Nephritis and Nephrosis*. <<http://patient.info/doctor/acute-nephritis-and-nephrosis>> (diakses 15 Mei 2016)
- Wuryastuti, H., Raharjo, S., dan Warsito, R. 1996. *Peroxidation Index: Methods of Analysis and Diagnostic Value*. *Research report*. Directorate Generale of Higher Education.
- Yan, S.D., Schmidt, A.M., Anderson, G.M., Zhang, J., Brett, J., Zou, Y.S., Pinsky, D., dan Stern, D. 1994. *Enhanced Cellular Oxidant Stress by the Interaction of Advanced Glycation End Products with Their Receptors/Binding Proteins*. *J Bio Chem* 269 (13): 9889-9897.
- Zavada, S.R., Battsengel, T., dan Scott, T.F. 2016. *Radical-Mediated Enzymatic Polymerizations*. *Int J Mol Sci* 17 (2): 195.
- Zhang, M.W., Guo, B.J., Zhang, R.F., Chi, J.W., Wei, Z.C., Xu, Z.H., Zhang, Y., dan Tang, X.J. 2006. *Separation, Purification and Identification of Antioxidant Compositions in Black Rice*. *Agric Sci in China* 5 (6): 431-440.