

DAFTAR PUSTAKA

- Adapa, D. dan Sarangi, T.K., 2015. A Review on Diabetes Mellitus: Complications, Management and Treatment Modalities. *Journal of Medical and Health Sciences*, 4(3).
- Alam, S., Siddiq, A. dan Hasan, M.M. 2016. Hypolipidemic Effect of Phaseolus Vulgaris L. at Various Doses and Its Impact on Cardiovascular Disease. *World Journal of Pharmacy and Pharmaceutical Sciences* Vol. 5 pp. 163-174.
- Ali Asgar, M.D., 2013. Anti-diabetic potential of phenolic compounds: A review. *International Journal of Food Properties*, 16(1), pp.91-103.
- Amarowicz, R., 2016. Natural phenolic compounds protect LDL against oxidation. *European Journal of Lipid Science and Technology*, 118(5), pp.677-679.
- Ambriz-Pérez, D.L., Leyva-López, N., Gutierrez-Grijalva, E.P. dan Heredia, J.B., 2016. Phenolic compounds: Natural alternative in inflammation treatment. A Review. *Cogent Food & Agriculture*, 2(1), p.1131412.
- Anandito, R.B.K., Siswanti, S., Nurhartadi, E. dan Hapsari, R. 2016 Formulasi Pangan Darurat Berbentuk Food Bars Berbasis Tepung Millet Putih (*Panicum milliaceum L.*) dan Tepung Kacang Merah (*Phaseolus vulgaris L.*). *Agritech*, 36(1), pp.23-29.
- Andarwulan, N. dan Faradilla, R.F., 2012. Senyawa fenolik pada beberapa sayuran indigenous dari Indonesia. *South East Asian Food and Agricultural Science and Technology (SEAFST) Center, Institut Pertanian Bogor*.
- Arif, A., Budiyanto, A. dan Hoerudin. 2013. Nilai Indeks Glikemik Produk Pangan dan Faktor-faktor yang Memengaruhinya. *Jurnal Penelitian dan Pengembangan Pertanian*, 32(3), pp.91-99.
- Ashwell, G., 1957. *Methods In Enzymology*. New York: SP Colowick and NO Kaplan, Academic Press Inc, p. 87.
- Astawan, M., 2009. *Sehat Dengan Hidangan Kacang dan Biji-Bijian*. Jakarta: Penebar Swadaya, pp.4-130.
- Astuti, P., Falah, S. dan Faridah, D.N., 2015. Bacillus subtilis natto fermentation to improve aglycone isoflavones content of black soybean varieties detam 2. *International Food Research Journal*, 22(6).
- Azhar, M., 2009. Inulin sebagai prebiotik. *Sainstek*, 12(1), pp.1-8.
- Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI. 2018. *Hasil Utama Riskesdas 2018*. Diperoleh dari: http://www.depkes.go.id/resources/download/info-terkini/materi_rakorpop_2018/Hasil%20Riskesdas%202018.pdf. [Diakses pada 21 Oktober 2018].
- Barclay, A., Gilbertson, H., Marsh, K. dan Smart, C., 2010. Dietary management in diabetes. *Australian family physician*, 39(8), p.579.
- Benson, L., 1957. *Plant classification*. Boston: DC Heath 8c Co.
- Besten den, G., Eunen van, K., Groen, A.K., Venema, K., Reijngoud, D.J. dan Bakker, B.M., 2013. The role of short-chain fatty acids in the interplay between diet, gut microbiota, and host energy metabolism. *Journal of lipid research*, 54(9), pp.2325-2340.
- Björck, I., Liljeberg, H. dan Östman, E., 2000. Low glycaemic-index foods. *British Journal of Nutrition*, 83(S1), pp.S149-S155.

- Botham, K.M. dan Mayes, P.A., 2014. Lipid transport and storage. *Harper's Illustrated Biochemistry*, pp.217-229.
- Chang, S., Tan, C., Frankel, E.N. dan Barrett, D.M., 2000. Low-density lipoprotein antioxidant activity of phenolic compounds and polyphenol oxidase activity in selected clingstone peach cultivars. *Journal of Agricultural and Food Chemistry*, 48(2), pp.147-151.
- Chaudhury, D. dan Aggarwal, A., 2018. Diabetic Dyslipidemia: Current Concepts in Pathophysiology and Management. *Journal of Clinical & Diagnostic Research*, 12(1).
- Chen, C., Zeng, Y., Xu, J., Zheng, H., Liu, J., Fan, R., Zhu, W., Yuan, L., Qin, Y., Chen, S. dan Zhou, Y., 2016. Therapeutic effects of soluble dietary fiber consumption on type 2 diabetes mellitus. *Experimental and therapeutic medicine*, 12(2), pp.1232-1242.
- Cheyrier, V., 2012. Phenolic compounds: from plants to foods. *Phytochemistry Reviews*, 11(2-3), pp.153-177.
- Chikezie, P.C., Ojiako, O.A. dan Ogbuji, A.C., 2015. Oxidative stress in diabetes mellitus. *International Journal of Biological Chemistry*, 9(3), pp.92-109.
- Colpo, A., 2005. LDL Cholesterol: "Bad" Cholesterol or Bad Science?. *Journal of American Physicians and Surgeons*, 10(3), p.83.
- Davis, S.N., 2008. Diabetic dyslipidemia and atherosclerosis. *Clinical cornerstone*, 9, pp.S17-S27.
- Dehghan, P., Gargari, B.P. dan Asgharijafarabadi, M., 2013. Effects of high performance inulin supplementation on glycemic status and lipid profile in women with type 2 diabetes: a randomized, placebo-controlled clinical trial. *Health promotion perspectives*, 3(1), p.55.
- Denova-Gutiérrez, E., Huitrón-Bravo, G., Talavera, J.O., Castañón, S., Gallegos-Carrillo, K., Flores, Y. and Salmerón, J., 2010. Dietary glycemic index, dietary glycemic load, blood lipids, and coronary heart disease. *Journal of nutrition and metabolism*, 2010.
- Departemen Kesehatan, R.I., 2008. *Pedoman Pengendalian Diabetes Melitus dan Penyakit Metabolik*. Jakarta: Depertemen Kesehatan RI.
- Desfitri, E.R., Sundari, E. dan Martynis, M., 2015. Optimasi Ekstraksi Inulin Dari Umbi Dahlia dengan Menggunakan Pelarut Etanol. *Abstract Of Undergraduate Research, Faculty Of Industrial Technology, Bung Hatta University*, 5(4).
- Dewi, S., Trsinawati, C.Y. dan Sutedja, A.M., 2015. Pengaruh Substitusi Terigu dengan Tepung Kacang Merah Pregelatinisasi terhadap Sifat Fisikokimia dan Organoleptik Cookies. *Jurnal Teknologi Pangan dan Gizi*, 14(2), pp.67-71.
- Downing, L.E., Edgar, D., Ellison, P.A. dan Ricketts, M.L., 2017. Mechanistic insight into nuclear receptor-mediated regulation of bile acid metabolism and lipid homeostasis by grape seed procyanidin extract (GSPE). *Cell biochemistry and function*, 35(1), pp.12-32.
- Eshraq, B., Mona, A., Sayed, A. dan Emam, A., 2016. Effect of soaking, cooking and germination on chemical constituents and bioactive compounds as well as their cytotoxic activities of black bean extracts. *Natural Products Chemistry & Research*, 4(06).
- Evert, A.B., Boucher, J.L., Cypress, M., Dunbar, S.A., Franz, M.J., Mayer-Davis, E.J., Neumiller, J.J., Nwankwo, R., Verdi, C.L., Urbanski, P. dan Yancy,

- W.S., 2014. Nutrition therapy recommendations for the management of adults with diabetes. *Diabetes care*, 37(Supplement 1), pp.S120-S143.
- Farbstein, D. dan Levy, A.P., 2012. HDL dysfunction in diabetes: causes and possible treatments. *Expert review of cardiovascular therapy*, 10(3), pp.353-361.
- Federer, W.T. 1977. *Experimental Design Theory and Application*, 3rd Ed.. New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd.
- Fletcher, B., Gulanick, M. dan Lamendola, C., 2002. Risk Factors For Type 2 Diabetes Mellitus. *Journal of Cardiovascular Nursing*, 16(2), pp.17-23.
- Forbes, J.M. dan Cooper, M.E., 2013. Mechanisms of diabetic complications. *Physiological reviews*, 93(1), pp.137-188.
- Fujii, H., Iwase, M., Ohkuma, T., Ogata-Kaizu, S., Ide, H., Kikuchi, Y., Idewaki, Y., Joudai, T., Hirakawa, Y., Uchida, K. dan Sasaki, S., 2013. Impact of dietary fiber intake on glycemic control, cardiovascular risk factors and chronic kidney disease in Japanese patients with type 2 diabetes mellitus: the Fukuoka Diabetes Registry. *Nutrition journal*, 12(1), p.159.
- Ganesan, K. dan Xu, B., 2017. Polyphenol-rich dry common beans (*Phaseolus vulgaris L.*) and their health benefits. *International journal of molecular sciences*, 18(11), p.2331.
- Gao, R. dan Chilibeck, P.D., 2019. Glycemic Index Meal Feeding and Lipid Profiling. In *The Molecular Nutrition of Fats*(pp. 135-149). Academic Press.
- Ghasemi, A., Khalifi, S. and Jedi, S., 2014. Streptozotocin-nicotinamide-induced rat model of type 2 diabetes. *Acta Physiologica Hungarica*, 101(4), pp.408-420.
- Ginsberg, H.N., 2000. Insulin resistance and cardiovascular disease. *The Journal of clinical investigation*, 106(4), pp.453-458.
- Guo, Z., Liu, X.M., Zhang, Q.X., Tian, F.W., Zhang, H., He-Ping, Z. dan Chen, W., 2012. Effects of inulin on the plasma lipid profile of normolipidemic and hyperlipidemic subjects: a meta-analysis of randomized controlled trials. *Clinical Lipidology*, 7(2), pp.215-222.
- Han, S., Jiao, J., Zhang, W., Xu, J., Wan, Z., Zhang, W., Gao, X. dan Qin, L., 2015. Dietary fiber prevents obesity-related liver lipotoxicity by modulating sterol-regulatory element binding protein pathway in C57BL/6J mice fed a high-fat/cholesterol diet. *Scientific reports*, 5, p.15256.
- Handayani, D., Soeadmadji, D.W. dan Widodo, M.A., 2013. Enzim Lipoprotein Lipase Suatu Alternatif Pemeriksaan Gangguan Metabolisme Lemak pada Penderita DM Tipe 2 In Vitro. *Jurnal Kedokteran Brawijaya*, 19(2).
- Harborne, J.B., 1987. *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan*. Bandung: Penerbit ITB, 78.
- Hayat, I., Ahmad, A., Masud, T., Ahmed, A. dan Bashir, S., 2014. Nutritional and health perspectives of beans (*Phaseolus vulgaris L.*): an overview. *Critical reviews in food science and nutrition*, 54(5), pp.580-592.
- He, B.M., Zhao, S.P. dan Peng, Z.Y., 2013. Effects of cigarette smoking on HDL quantity and function: implications for atherosclerosis. *Journal of cellular biochemistry*, 114(11), pp.2431-2436.
- Heluq, D.Z. dan Mundiastuti, L., 2018. Daya Terima dan Zat Gizi Pancake Substitusi Kacang Merah (*Phaseolus vulgaris L*) dan Daun Kelor (*Moringa Oleifera*) Sebagai Alternatif Jajanan Anak Sekolah. *Media Gizi Indonesia*, 13(2), pp.133-140.

- Herlina, E. dan Nuraeni, F., 2014. Pengembangan Produk Pangan Fungsional Berbasis Ubi Kayu (*Manihot esculenta*) dalam Menunjang Ketahanan Pangan. *Jurnal Sains Dasar*, 3(2), pp.142-148.
- Higashimura, Y., Naito, Y., Takagi, T., Uchiyama, K., Mizushima, K. dan Yoshikawa, T., 2015. Propionate promotes fatty acid oxidation through the up-regulation of peroxisome proliferator-activated receptor α in intestinal epithelial cells. *Journal of nutritional science and vitaminology*, 61(6), pp.511-515.
- Ihedioha, J.I., Noel-Uneke, O.A. and Ihedioha, T.E., 2013. Reference values for the serum lipid profile of albino rats (*Rattus norvegicus*) of varied ages and sexes. *Comparative Clinical Pathology*, 22(1), pp.93-99.
- International Diabetes Federation (IDF). 2017. *IDF Diabetes Atlas. 8th Edition*. Brussels: International Diabetes Federation
- Iqbal, A., Pintor, K.T. dan Lisiswanti, R., 2015. Manfaat Tanaman Kacang Merah dalam Menurunkan Kadar Glukosa Darah. *Jurnal Majority*, 4(9), pp.149-152.
- Iskandar, Y.M., Pudjiraharti, S. dan Ratnaningrum, D., 2014. Kandungan Inulin Dari Umbi Dahlias Yang Ditanam Pada Jenis Tanah Vertisol, Inceptisol Dan Andisol. *Jurnal Kimia Terapan Indonesia*, 16(1), pp.25-31.
- Kementerian Kesehatan, R.I., 2014. *Situasi dan Analisis Diabetes*. Jakarta: Pusat Data dan Informasi Kementerian Kesehatan RI.
- Kietsiriroje, N., Kwankaew, J., Kitpakornsanti, S. dan Leelawattana, R., 2015. Effect of phytosterols and inulin-enriched soymilk on LDL-cholesterol in Thai subjects: a double-blinded randomized controlled trial. *Lipids in health and disease*, 14(1), p.146.
- Kim, Y., Faqih, M.N. dan Wang, S.S., 2001. Factors affecting gel formation of inulin. *Carbohydrate Polymers*, 46(2), pp.135-145.
- Klop, B., Elte, J.W.F. dan Cabezas, M.C., 2013. Dyslipidemia in obesity: mechanisms and potential targets. *Nutrients*, 5(4), pp.1218-1240.
- Kosasih, W., Pudjiraharti, S., Ratnaningrum, D. dan Priatni, S., 2015. Preparation of inulin from dahlia tubers. *Procedia Chemistry*, 16, pp.190-194.
- Kotani, K., Tsuzaki, K., Sakane, N. dan Taniguchi, N., 2012. The correlation between small dense LDL and reactive oxygen metabolites in a physical activity intervention in hyperlipidemic subjects. *Journal of clinical medicine research*, 4(3), p.161.
- Kristo, A., Matthan, N. dan Lichtenstein, A., 2013. Effect of diets differing in glycemic index and glycemic load on cardiovascular risk factors: review of randomized controlled-feeding trials. *Nutrients*, 5(4), pp.1071-1080.
- Li, A.C. dan Glass, C.K., 2004. PPAR-and LXR-dependent pathways controlling lipid metabolism and the development of atherosclerosis. *Journal of lipid research*, 45(12), pp.2161-2173.
- Limón, R.I., Peñas, E., Torino, M.I., Martínez-Villaluenga, C., Dueñas, M. dan Frias, J., 2015. Fermentation enhances the content of bioactive compounds in kidney bean extracts. *Food chemistry*, 172, pp.343-352.
- Lin, L.Z., Harnly, J.M., Pastor-Corrales, M.S. dan Luthria, D.L., 2008. The polyphenolic profiles of common bean (*Phaseolus vulgaris L.*). *Food chemistry*, 107(1), pp.399-410.
- Lin, N.N., Lee, Y.F., Chi, Y.J., Wang, M.F., Chan, Y.C., Chan, K.C., Chen, Y.J. dan Chiu, Y.T., 2016. *Bacillus Subtilis*-Fermented Red Bean (Red Bean Natto) Reduces Hyperlipidemia Levels in Hamsters Fed an Atherogenic Diet. *Journal of food biochemistry*, 41(1), p.e12264.

- Liu, F., Prabhakar, M., Ju, J., Long, H. and Zhou, H.W., 2016. Effect of inulin-type fructans on blood lipid profile and glucose level: a systematic review and meta-analysis of randomized controlled trials. *European journal of clinical nutrition*, 71(1), p.9.
- Mamat dan Sudikno., 2010. Faktor-faktor yang berhubungan dengan kadar kolesterol HDL. *Gizi Indonesia*, 33(2), pp.143-9.
- Mangiapane, H., 2012. *Cardiovascular disease and diabetes*. In *Diabetes* (pp. 219-228). New York: Springer.
- Mangunwidjaja, D., Rahayuningsih, M. dan Suparwati, R., 2014. Pengaruh konsentrasi enzim dan waktu hidrolisis enzimatis terhadap mutu frukto-oligosakarida dari inulin umbi Dahlia (*Dahlia pinnata*). *E-jurnal Agro-Industri Indonesia*, 3(2).
- Marks, Dawn B., Marks, Allan D., Smith, Colleen M. 2000. *Biokimia Kedokteran Dasar*. Jakarta: EGC.
- Marsilio, R., Naturale, M., Manghi, P., Montini, G., Murer, L., Ros, M., Bisogno, G., Andretta, B., Dussini, N., Giordano, G. dan Zacchello, G., 2000. Rapid and simple determination of inulin in biological fluids by high-performance liquid chromatography with light-scattering detection. *Journal of Chromatography B: Biomedical Sciences and Applications*, 744(2), pp.241-247.
- Marsono, Y., Wiyono, P. dan Noor, Z., 2012. Indeks Glisemik Kacang-kacangan [Glycemic Index of Selected Legumes]. *Jurnal Teknologi dan Industri Pangan*, 13(3), p.211.
- Marques, L.R., Diniz, T.A., Antunes, B.M., Rossi, F.E., Caperuto, E.C., Lira, F.S. dan Gonçalves, D.C., 2018. Reverse cholesterol transport: molecular mechanisms and the non-medical approach to enhance HDL cholesterol. *Frontiers in physiology*, 9.
- Melanie, H., Susilowati, A., Iskandar, Y.M., Lotulung, P.D. dan Andayani, D.G., 2015. Characterization of inulin from local red dahlia (*Dahlia sp. L*) tubers by infrared spectroscopy. *Procedia Chemistry*, 16, pp.78-84.
- Millar, C.L., Duclos, Q. dan Blesso, C.N., 2017. Effects of dietary flavonoids on reverse cholesterol transport, HDL metabolism, and HDL function. *Advances in Nutrition*, 8(2), pp.226-239.
- Mooradian, A.D., 2009. Dyslipidemia in type 2 diabetes mellitus. *Nature Reviews Endocrinology*, 5(3), p.150.
- Nair, A.B. dan Jacob, S., 2016. A simple practice guide for dose conversion between animals and human. *Journal of basic and clinical pharmacy*, 7(2), p.27.
- Nakaya, K., Tohyama, J., Naik, S.U., Tanigawa, H., MacPhee, C., Billheimer, J.T. dan Rader, D.J., 2011. Peroxisome proliferator-activated receptor- α activation promotes macrophage reverse cholesterol transport through a liver x receptor-dependent pathway. *Arteriosclerosis, thrombosis, and vascular biology*, 31(6), pp.1276-1282.
- National Heart, Lung, and Blood Institute. 2015. High Blood Cholesterol. Diperoleh dari: <https://www.nhlbi.nih.gov/health-topics/high-blood-cholesterol>. [Diakses pada 26 Desember 2018].
- Nicola, W.G., El-Arab, A.M.E., Girgiss, M.W., Habib, D.F. dan Mohamed, N.A., 2015. Is there a role of Inulin in the management of Type 2 Diabetes mellitus?!. *International Journal of PharmTech Research*, 8(10), pp.01-09.

- Noviyanti, F., Decroli, E. dan Sastri, S., 2015. Perbedaan Kadar LDL-kolesterol pada Pasien Diabetes Melitus Tipe 2 dengan dan tanpa Hipertensi di RS Dr. M. Djamil Padang Tahun 2011. *Jurnal Kesehatan Andalas*, 4(2).
- Olanipekun, O.T., Balogun, E.A., Akinloye, O.A. dan Omotainse, S.O., 2016. Effect of kidney bean consumption on some lipid and haematological parameters of albino rats. *African Journal of Biochemistry Research*, 10(1), pp.1-6.
- Ombra, M.N., d'Acierno, A., Nazzaro, F., Riccardi, R., Spigno, P., Zaccardelli, M., Pane, C., Maione, M. and Fratianni, F., 2016. Phenolic composition and antioxidant and antiproliferative activities of the extracts of twelve common bean (*Phaseolus vulgaris L.*) endemic ecotypes of southern Italy before and after cooking. *Oxidative medicine and cellular longevity*, 2016.
- Orak, H.H., Karamac, M. and Amarowicz, R., 2015. Antioxidant activity of phenolic compounds of red bean (*Phaseolus vulgaris L.*). *Oxidation Communications*, 38(1), pp.67-76.
- Ozcan, T., Akpınar-Bayizit, A., Yilmaz-Ersan, L. and Delikanli, B., 2014. Phenolics in human health. *International Journal of chemical engineering and applications*, 5(5), p.393.
- Papatheodorou, K., Papanas, N., Banach, M., Papazoglou, D. dan Edmonds, M., 2016. Complications of diabetes 2016. *Journal of diabetes research*, 2016.
- Pérez-Ramírez, I.F., Becerril-Ocampo, L.J., Reynoso-Camacho, R., Herrera, M.D., Guzmán-Maldonado, S.H. and Cruz-Bravo, R.K., 2017. Cookies elaborated with oat and common bean flours improved serum markers in diabetic rats. *Journal of the science of food and agriculture*, 98(3), pp.998-1007.
- Perkumpulan Endrokinologi Indonesia (PERKENI), 2015. *Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia*. Jakarta: PB. PERKENI.
- Phelps, C.F., 1965. The physical properties of inulin solutions. *Biochemical Journal*, 95(1), p.41.
- Post, R.E., Mainous, A.G., King, D.E. dan Simpson, K.N., 2012. Dietary fiber for the treatment of type 2 diabetes mellitus: a meta-analysis. *The Journal of the American Board of Family Medicine*, 25(1), pp.16-23.
- Pratiwi, H. dan Panunggal, B., 2016. Analisis Total Fenol dan Aktivitas Antioksidan pada Yogurt Ganyong (*Canna edulis*) Sinbiotik dengan Substitusi Kacang Merah (*Phaseolus vulgaris L.*). *Journal of Nutrition College*, 1(5), pp. 44-50.
- Prihatman, K., 2000. *Tentang Budidaya Pertanian: Dahlia (*Dahlia spp L.*)*. Jakarta: Kantor Deputi Menegristek Bidang Pendayagunaan dan Pemasyarakatan Ilmu Pengetahuan dan Teknologi.
- Puddu, A., Sanguineti, R., Montecucco, F. dan Viviani, G.L., 2014. Evidence for the gut microbiota short-chain fatty acids as key pathophysiological molecules improving diabetes. *Mediators of inflammation*, 2014.
- Qin, Y., Xia, M., Ma, J., Hao, Y., Liu, J., Mou, H., Cao, L. dan Ling, W., 2009. Anthocyanin supplementation improves serum LDL-and HDL-cholesterol concentrations associated with the inhibition of cholesteryl ester transfer protein in dyslipidemic subjects. *The American journal of clinical nutrition*, 90(3), pp.485-492.
- Ramawat, K.G. and Mérillon, J.M. eds., 2013. *Natural products: phytochemistry, botany and metabolism of alkaloids, phenolics and terpenes* (pp. 1541-2662). New York, NY: Springer.
- Riset Kesehatan Dasar. 2013. *Laporan Riskesdas 2013*. Jakarta: Badan Penelitian dan Pengembangan Kesehatan.

- Rivellese, A.A., Giacco, R. dan Costabile, G., 2012. Dietary carbohydrates for diabetics. *Current atherosclerosis reports*, 14(6), pp.563-569.
- Rukmana, R., 2009. *Seri Budi Daya Buncis*. Yogyakarta: Kanisius.
- Russo, G.T., Giandalia, A., Romeo, E.L. dan Cucinotta, D., 2015. Gender differences in lipoprotein metabolism. *Italian Journal of Gender-Specific Medicine*, 1(2), pp.58-65.
- Sa'adah, N.N., Purwani, K.I., Nurhayati, A.P.D. and Ashuri, N.M., 2017, June. Analysis of lipid profile and atherogenic index in hyperlipidemic rat (*Rattus norvegicus* Berkenhout, 1769) that given the methanolic extract of Parijoto (*Medinilla speciosa*). In *AIP Conference Proceedings* (Vol. 1854, No. 1, p. 020031).
- Satija, A. dan Hu, F.B., 2012. Cardiovascular benefits of dietary fiber. *Current atherosclerosis reports*, 14(6), pp.505-514.
- Setiati, S., Alwi, I., Sudoyo, A.W., Simadibrata, M., Setiyohadi, B. dan Syam, A.F., 2014. *Buku Ajar Ilmu Penyakit Dalam*. Jakarta: Interna Publishing.
- Shashkin, P., Dragulev, B. dan Ley, K., 2005. Macrophage differentiation to foam cells. *Current pharmaceutical design*, 11(23), pp.3061-3072.
- Shoab, M., Shehzad, A., Omar, M., Rakha, A., Raza, H., Sharif, H.R., Shakeel, A., Ansari, A. dan Niazi, S., 2016. Inulin: Properties, health benefits and food applications. *Carbohydrate Polymers*, 147, pp.444-454.
- Sikumbang, S. dan Hindersah, R. 2009. *Tanaman Dahlia: Potensi Bahan Alam Sumber Karbohidrat dan Senyawa Bioaktif*. Riau: Unri Press.
- Silva, R.C.D., Diniz, M.D.F.H.S., Alvim, S., Vidigal, P.G., Fedeli, L.M.G. dan Barreto, S.M., 2016. Physical activity and lipid profile in the ELSA-Brasil study. *Arquivos brasileiros de cardiologia*, 107(1), pp.10-19.
- Sugiharto, S., Isroli, I., Yudiarti, T., Widiastuti, E., Wahyuni, H.I. dan Sartono, T.A., 2018. Effect of two-step fermentation by *Chrysonilia crassa* and *Bacillus subtilis* on nutritional values and antioxidative properties of agro-industrial by-products as poultry feed ingredients. *Journal of Advanced Veterinary and Animal Research*, 5(4), pp.472-480.
- Sundari, E., Desfitri, E.R., Martynis, M., Praputri, E. dan Hata, U.B., 2014. Identifikasi dan kondisi ekstraksi inulin dari umbi dahlia di Sumatera Barat. In *Prosiding: Seminar Nasional Sains dan Teknologi Lingkungan (SNSTL)* (Vol. 1).
- Suryanto, E., 2007. Aktivitas Antioksidan Ekstrak Flavanoid dari Buah Andaliman (*Zanthoxylum acanthopodium* DC) pada Ikan Mas (*Cyprinus carpio* L). *Jurnal Sains UNSRAT Manado*
- Tangvarasittichai, S., 2015. Oxidative stress, insulin resistance, dyslipidemia and type 2 diabetes mellitus. *World journal of diabetes*, 6(3), p.456.
- Thompson, S.V., Winham, D.M. dan Hutchins, A.M., 2012. Bean and rice meals reduce postprandial glycemic response in adults with type 2 diabetes: a cross-over study. *Nutrition journal*, 11(1), p.23.
- USDA. 2018. *National Nutrient Database for Standard Reference Release Basic Report: 16032, Beans, kidney, red, mature seeds, raw*. Diperoleh dari: <https://ndb.nal.usda.gov/ndb/foods/show/16032?>. [Diakses pada 21 Oktober 2018]
- Wahjuningsih, S.B., Haslina, H. dan Marsono, M., 2018. Hypolipidaemic Effects of High Resistant Starch Sago and Red Bean Flour-based Analog Rice on Diabetic Rats. *Mater Sociomed* 30(4), pp 232-239.

- Waji, R.A. dan Sugrani, A. 2009. *Makalah Kimia Organik Bahan Alam Flavonoid (Quercetin)*. Makassar: FMIPA, Universitas Hassanuddin.
- Wei, Q., Wolf-Hall, C. dan Chang, K.C., 2001. Natto characteristics as affected by steaming time, Bacillus strain, and fermentation time. *Journal of food science*, 66(1), pp.167-173.
- Widowati, S., Sunarti, T.C. dan Zaharani, A. 2005. Ekstraksi, karakterisasi, dan kajian potensi prebiotik inulin dari umbi dahlia (*Dahlia pinnata L.*). In *Seminar Rutin Puslitbang Tanaman Pangan, Bogor* (Vol. 16).
- Widowati, S., 2007. Potensi Inulin Sebagai Komponen Pangan Fungsional Dari Umbi Dahlia (*Dahlia pinnata L.*). *Jurnal Pangan*, 16(1), pp.76-80.
- Worku, A. dan Sahu, O., 2017. Significance of fermentation process on biochemical properties of *Phaseolus vulgaris* (red beans). *Biotechnology Reports*, 16, pp.5-11.
- World Health Organization, 2016. *Global report on diabetes*. France: World Health Organization
- Wostmann, B.S., 1975. Nutrition and metabolism of the germfree mammal. In *World review of nutrition and dietetics* (Vol. 22, pp. 40-92). Karger Publishers.
- Wu, L. dan Parhofer, K.G., 2014. Diabetic dyslipidemia. *Metabolism*, 63(12), pp.1469-1479.
- Yan, G.C. and Chen, H.Y., 1995. Antioxidant activity of various tea extracts in relation to their antimutagenicity. *J Agric Food Chem*, 43, pp.27-37.
- Yoon, H.J., Lee, K.A., Lee, J.H., Jin, H.J., Kim, H.J., Kim, K.T. dan Paik, H.D., 2015. Effect of fermentation by *Bacillus subtilis* on antioxidant and cytotoxic activities of black rice bran. *International Journal of Food Science & Technology*, 50(3), pp.612-618.
- Yu, Q., Zhao, J., Xu, Z., Chen, Y., Shao, T., Long, X., Liu, Z., Gao, X., Rengel, Z., Shi, J. dan Zhou, J., 2018. Inulin from Jerusalem artichoke tubers alleviates hyperlipidemia and increases abundance of bifidobacteria in the intestines of hyperlipidemic mice. *Journal of Functional Foods*, 40, pp.187-196.
- Zeinali, F., Samani, H.A., Toupchian, O., Abdollahi, S. and Samadi, M., 2016. A Review of the Relationship between Dietary Glycemic Index and Glycemic Load and Type 2 Diabetes. *Journal of Nutrition and Food Security*, 1(1), pp.73-79.
- Zhou, P., Wang, Y., Li, S., Zhao, Y., Deng, K., Chao, D., Jin, C., Zhuo, Y., Che, L., Li, J. dan Lin, Y., 2018. Effects of prebiotic inulin addition to low-or high-fat diet on maternal metabolic status and neonatal traits of offspring in a pregnant sow model. *Journal of Functional Foods*, 48, pp.125-133.
- Zhou, Q., Wu, J., Tang, J., Wang, J.J., Lu, C.H. and Wang, P.X., 2015. Beneficial effect of higher dietary fiber intake on plasma HDL-C and TC/HDL-C ratio among Chinese rural-to-urban migrant workers. *International journal of environmental research and public health*, 12(5), pp.4726-4738.
- Zubaidah, E. dan Akhadiana, W., 2013. Comparative study of inulin extracts from dahlia, yam, and gembili tubers as prebiotic. *Food and Nutrition Sciences*, 4(11), p.8.
- Zubaidah, E., Ichromasari, D.Y. dan Mandasari, O.K., 2014. Effect of salacca vinegar var. Suwaru on lipid profile diabetic rats. *Food and Nutrition Sciences*, 5(09), p.734.