

DAFTAR PUSTAKA

- Adawiah, Sukandar, D., Muawanah, A. 2015. Aktivitas Antioksidan dan Kandungan Komponen Bioaktif Sari Buah Namnam. *Jurnal Kimia Valensi*. 1(2): 130-136.
- Akondi, R. B., Kumar, P., Annapurna, A., Pujari, M. 2011. Protective Effect of Rutin and Naringin on Sperm Quality in Streptozotocin (STZ) Induced Type 1 Diabetic Rats. *Irania Journal of Pharmaceutical Research*. 10(3): 585-596
- Alessio, H., Hagerman, A., Fulkerson, B. K., Ambrose, J., Rice, R., Wiley, R. 2000. Generation of Reactive Oxygen Species After Exhaustive Aerobic and Isometric Exercise. *Medicine & Science in Sports & Exercise*. 32(9): 1576-1581.
- American Diabetes Association. 2018. Classification and Diagnosis of Diabetes: Standards of Medical Care in Diabetes. *Diabetes Care*. 41(1): 513-527.
- American Veterinary Medical Association. 2013. *AVMA Guidelines for the Euthanasia of Animals: 2013 Edition*. American Veterinary Medical Association: Schaumburg. Hal 53.
- Aouacheri, O., Saka, S., Krim, M., Messadia, A., Maldi, I. 2014. The Investigation of the Oxidative Stress-Related Parameters in Type 2 Diabetes Mellitus. *Canadian Journal of Diabetes*. 39(1): 1-6
- Artanti, P., Masdar, H., Rosdiana, D. 2015. Angka Kejadian Diabetes Melitus Tidak Terdiagnosis pada Masyarakat Kota Pekanbaru. *Jurnal Online Mahasiswa Fakultas Kedokteran Universitas Riau*. 2(2): 1-6.
- Bajaj, S. & Khan, A. 2012. Antioxidants and diabetes. *Indian Journal of Endocrinology and Metabolism*. 16 (2): 267-271.
- Basha, B., Samuel, S. M., Triggle, C. R., Ding, H., 2012. Endothelial Dysfunction in Diabetes Mellitus : Possible Involvement of Endoplasmic Reticulum Stress?. *Experimental Diabetes Research*. 2012(1): 1-14.
- Bemkaireima, K., Angami, T., Singh, S. 2012. Response of Different Size and Growth Regulator on Cuttings of Passion Fruit Var. Purple (*Passiflora Edulis* Var. *Edulis* Sims). *The Asian Journal of Horticulture*. 7(2): 1515-1520.
- Brealey, D. & Singer, M. 2009. Hyperglycemia in Critical Illness: A Review. *Journal of Diabetes Science and Technology*. 3(6): 1250–1260.
- Chikezie, P.C., Ojiako, O.A. & Ogbuji, A.C., 2015. Oxidative Stress in Diabetes

Mellitus. *Integrative Obesity and Diabete*. 1(3): 71-79.

- Correea. E. M., Medina, L., Monteiro, B. J., Valle, N. O., Sales, R., Magalae, A. *et al*. 2014. The Intake of Fiber Mesocarp Passionfruit (*Passiflora Edulis*) Lowers Levels of Triglyceride And Cholesterol Decreasing Principally Insulin and Leptin. *The Journal of Aging Research and Clinical Practice*. 3(1): 31-35.
- Cristiana, F., Elena, A., Nina, Z., 2014. Superoxide Dismutase: Therapeutic Targets in SOD Related Pathology. *Health*. 6(1): 975–988.
- Csepanyi, E., Czompa, A., Furjezi, P., Lekli, I., Balla, J., Balla, G., *et al*. 2018. The Effects of Long-Term, Low- and High-Dose Beta-Carotene Treatment in Zucker Diabetic Fatty Rats: The Role of HO-1. *International Journal of Molecular Sciences*. 19(1132): 1-13.
- Dakhale, G. N., Chaudhari, H. V., Shrivastava, M. 2011. Supplementation of Vitamin C Reduces Blood Glucose and Improves Glycosylated Hemoglobin in Type 2 Diabetes Mellitus: A Randomized, Double-Blind Study. *Advances in Pharmacological Sciences*. 2011(1): 1-5.
- Das, J., Ramani, R., Suraju, M. O. 2016. Polyphenol Compounds and PKC Signalling. *Biochimica et Biophysica Acta*. 1860(10): 2107-2121.
- Das, J., Vasan, V., Sil, P, C. 2012. Taurine Exerts Hypoglycemic Effect in Alloxan-Induced Diabetic Rats, Improves Insulin-Mediated Glucose Transport Signaling Pathway In Heart And Ameliorates Cardiac Oxidative Stress and Apoptosis. *Toxicology ad Applied Pharmacology*. 258(1): 296-308.
- Desai, S. D., Saheb, S. H., Das, K. K., S., Hassena. 2015. Effect of Thymoquinone on MDA and SOD levels in Sterptozotocine Induced Diabetic Albino Rats. *Journal of Pharmaceutical Sciences and Research*. 7(8): 523-526.
- Devaki, K., Beulah, U., Akila, G., Sunitha, M., Gopalakrishnan, V. K. 2011. Hypoglycemic Activity of *Passiflora Edulis* Sims Leaf Extract in Wistar Albino Rats. *International Research Journal of Pharmacy*. 2(9):170-172.
- Dharmarajan, S. K., Arumugam, K. M. 2012. Comparative Evaluation of Flavone from *Mucuna Pruriens* and Coumarin from *Ionidium Suffruticosum* for Hypolipidemic Activity in Rats Fed with High Fat Diet. *Lipids and Health Disease*. 11(1): 1-6.
- Dharmayudha, G.O. & Anthara,S. 2013. Identifikasi Golongan Senyawa Kimia Dan Pengaruh Ekstrak Etanol Buah Naga Daging Putih (*Hylocereus undatus*) Terhadap penurunan Kadar Gukosa Darah Serta Bobot Berat Badan Tikus Putih Jantan (*Rattus norvegicus*) Yang Diinduksi Aloksan. *Buletin Veteriner*. 5(1): 31-40.

- Erejuwa, O. O., Sulaiman, S. A., Wahab, M. S., Salam, S. K., Salleh, M. S., Gurtu, S. 2010. Antioxidant Protective Effect of Glibenclamide and Metformin in Combination with Honey in Pancreas of Streptozotocin Induced Diabetic Rats. *International Journal of Molecular Sciences*. 11(1): 2056-2066.
- Fathurohman, I., Fadhilah, M., Kunci, K. 2016. Gambaran Tingkat Risiko dan Faktor-faktor yang Berhubungan dengan Risiko Diabetes Mellitus Tipe 2 di Buaran, Serpong. *Jurnal Kedokteran Yarsi*. 24(3): 186–202.
- Fowler, M. J. 2008. Microvascular and Macrovascular Complications of Diabetes. *Clinical Diabetes*. 26(2): 77–82.
- Ghorbani, A. 2017. Mechanisms of Antidiabetic Effects of Flavonoid Rutin. *Biomedicine & Pharmacotherapy*. 96(1): 305-312.
- Gopal, R.K. & Elumalai, S., 2017. Industrial Production of Superoxide Dismutase (SOD): A Mini Review. *Journal of Probiotics & Health*. 5(3): 1-5.
- Hamada, Y., Fujii, H., Fukagawa, M. 2009. Role of Oxidative Stress in Diabetic Bone Disorder. *Elsevier*. 45(1):35–38.
- Integrated Taxonomic Information System. 2011. *Taxonomic Hierarchy: Passiflora edulis Sims*. Diakses: 10 Mei 2018 dari <https://www.itis.gov/itisdownload/itisdownload4.do>.
- International Diabetes Federation. 2017. *IDF Diabetes Atlas: 8th Edition*. Dilihat 5 Juni 2018. www.diabetesatlas.org.
- Ismail, M. Y. 2009. Clinical Evaluation of Antidiabetic Activity of *Trigonella* Seeds and *Aegle marmelos* Leaves. *World Applied Sciences Journal*. 7(10): 1231-1234.
- Jain, H. 2015. The Medicinal Value and The Numerous Sources of Vitamin C: a Review. *Journal of Nutritional Health and Food Engineering*. 2(4): 124-134.
- Kandandapani, S., Balaraman, A. K., Ahamed, H. N. 2015. Extracts of Passion Fruit Peel and Seed of *Passiflora Edulis* (Passifloraceae) Attenuate Oxidative Stress in Diabetic Rats. *Chinese Journal of Natural Medicines*. 13(9): 680-686.
- Kefer, J. C., Agarwal, A., Sabanegh, E., 2009. Role of Antioxidants in The Treatment of Male Infertility. *International Journal of Urology*. 16(1): 449–457.

- Kumar, S. 2014. The Importance of Antioxidant and Their Role in Pharmaceutical Science: a Review. *Asian Journal of Research in Chemistry and Pharmaceutical Sciences*. 1(1): 27-44.
- Kusumastuty, I. 2014. Sari Buah Markisa Ungu Mencegah Peningkatan MDA Serum dengan Diet Aterogenik. *Indonesian Journal of Human Nutrition*. 1(1): 50-56.
- Lansang, M. C. & Umpierrez, G. E., 2016. Inpatient Hyperglycemia Management: a Practical Review for Primary Medical and Surgical Teams. *Cleveland Clinic Journal of Medicine*. 83(1): 34-43.
- Lenzen, S. 2008. The Mechanisms of Alloxan- and Streptozotocin-Induced Diabetes. *Diabetologia*. 51(1): 216-226.
- Luba, S. & Spencer, S. J. 2014. Eating Behavior and Stres: a Pathway to Obesity. *Frontiers in Psychology*. 5(434): 1-8.
- Makker, K., Agarwal, A., Sharma, R. 2009. Oxidative Stress and Male Infertility. *Indian Journal of Medical Research*. 129(4): 357-367.
- Malik, M. I., Nasrul, E., Asterina. 2015. Hubungan Hiperglikemia dengan *Prothrombin Time* pada Mencit (*Mus musculus*) yang Diinduksi Aloksan. *Jurnal Kesehatan Andalas*. 4(1): 182-188.
- Manaf, A. 2014. Insulin Resistance as a Predictor of Worsening of Glucose Tolerance in Type 2 Diabetes Mellitus. *Medicinus*. 27(2): 3-8.
- Marpaung, A. E., Karsinah, Karo, B. Karakterisasi dan Evaluasi Markisa Asam Hibrid Hasil Persilangan Markisa Asam Ungu dan Merah (*Passiflora* sp.) (*Characterization and Evaluation of Passion Fruit Acid Hybrid from Purple and Red Passion Fruit Acid Crossing*). *Jurnal Holtikultura*. 26(2): 163-170.
- Mesquita, L. S., Mesquita, J. W., Dutra, R. P., Batista, M. C., Amaral., F. M., Ribeiro, M. N. 2016. Extraction Parameters Affect Flavonoids Content and Antioxidant Activities in *Passiflora edulis*. *Journal of Chemical and Pharmaceutical Research*. 8(10): 99-107.
- Misra, M. & Aiman, U. 2012. Alloxan: an Unpredictable Drug for Daibetes Induction?. *Indian Journal of Pharmacology*. 44(4): 538-539.
- Mohammedi, K., Bellili-Mun, N., Driss, F., Roussel, R., Seta, N., Velho, G. *et al.* 2014. Manganese Superoxide Dismutase (SOD2) Polymorphisms, Plasma Advanced Oxidation Protein Products (AOPP) Concentration and Risk of Kidney Complications in Subjects with Type 1 Diabetes. *PLoS ONE*. 9(5): 1-11.

- Muhith, A. Setyowati, I. 2014. Pemberian Buah Apel *Romebeauty* terhadap Penurunan Kadar Gula Darah pada Penderita Diabetes Melitus. *Medica Majapahit*. 6(2): 12-23.
- Muntafiah, A., Ernawati, D., Pratiwi, R., Marie, I. 2017. Pengaruh Sari Markisa Ungu (*Passiflora edulis var edulis*) Berbagai Dosis terhadap Profil Lipid Tikus Wistar Model Hiperkolesterolemia. *Penelitian Gizi dan Makanan*. 40(1):1-8.
- Mut-salud, N., Alvarez, P. J., Garrido, J. M., Carraso, E., Aranega, A., Rodriguez-Serrano, F. 2016. Antioxidant Intake and Antitumor Therapy: Toward Nutritional Recommendations for Optimal Results. *Oxidative Medicine and Cellular Longevity*. 2016(1): 1-19
- Ndraha, S. 2014. Diabetes Melitus Tipe 2 dan Tatalaksana Terkini. *Medicinus*. 27(2): 9-16.
- Ningsih, Y. I. 2015. Peran Studi Etnofarmasi dalam Pencarian Tumbuhan Obat yang Berpotensi Dikembangkan sebagai Antidiabetes. *Pharmacy*. 12(1): 38-49
- Niture, N., Ansari, A, Naik, S. 2014. Anti-hyperglycemic Activity of Rutin in Streptozotocin-Induced Diabetic Rats: An Effect Mediated Through Cytokines, Antioxidants and Lipid Biomarkers. *Indian Journal of Experimental Biology*. 52(7): 720-727.
- Obi, B. C., Okoye, T. C., Okpashi, V. E., I. C. N., Alumanah, E. O. 2016. Comparative Study of the Antioxidant Effects of Metformin, Glibenclamide, and Repaglinide in Alloxan-Induced Diabetic Rats. *Journal of Diabetes Research*. 1(1): 1-5.
- Ozougwu, J. C., Obimba, K. C., Belonwu, C. D., Unakalamba, C. B. 2013. The Pathogenesis and Pathophysiology of Type 1 and type 2 Diabetes Mellitus. *Journal of Physiology and Pathophysiology*. 4(4): 46-57.
- Pacheco, C., Schutzer, K., Verruma-Bernadi, M., Montero, D. A., Meletti, L. M. 2014. Physicochemical and Sensory Analyses of Purple and Yellow Passion Fruit. *International Research Journal of Horticulture*. 2(1): 1-5
- Persson, T., Popescu, B.O., Cedazo-minguez, A. 2014. Oxidative Stress in Alzheimer ' s Disease : Why Did Antioxidant Therapy Fail?. *Oxidative Medicine and Cellular Longevity*. 2014(1): 1-11
- Pieme, C.A., Tatangmo, J. A., Simo, G., Nya, P. C. B., Moor, V. J. A., Moukette, B.M., Nzufu, F. T. *et al.* 2017. Relationship Between Hyperglycemia, Antioxidant Capacity and Some Enzymatic And Non Enzymatic Antioxidants in African Patients with Type 2 Diabetes. *BMC Research Notes*. 10(141): 1-7.

- Pisoschi, A. M. & Pop, A. 2015. The Role of Antioxidants In The Chemistry of Oxidative Stress: A Review. *European Journal of Medicinal Chemistry*. 5(97): 55-74.
- Prakash, M., Shetty, S., Tilak, P., Anwar N. 2009. Total Thiols: Biomedical Importance And Their Alteration in Various Disorders. *Online Journal of Health and Allied Sciences*. 8(2): 1-9.
- Purwanti, L.E. & Maghfirah, S. 2016. Faktor Risiko Komplikasi Kronis (Kaki Diabetik) dalam Diabetes Mellitus Tipe 2. *The Indonesian Journal of Health Science*. 7(1): 26–39.
- Rahmawati, G., Rachmawati, F. N., Winarsi, H. 2014. Aktivitas Superoksida Dismutase Tikus Diabetes yang Diberi Ekstrak Batang Kapulaga dan Glibenklamid. *Scripta Biologica*. 1(3): 197-201.
- Reddy, G. B., Muthenna, P., Akileshwari, Saraswati M., Petrash, M. 2011. Inhibition of Aldose Reductase and Sorbitol Accumulation by Dietary Rutin. *Current Science*. 101(9): 1191-1197.
- Rezaeizadeh, A., Zuki, A., Abdollahi, Goh, Y. M., Noordin, M., Hamid, M., Azmi, T. 2011. Determination of Antioxidant Activity in Methanolic and Chloroformic Extract of *Momordica Charantia*. *African Journal of Biotechnology*. 10(24): 4932-4940
- Ripa, F. A., Haque, M., Nahar, L., Islam, M. M. 2009. Antibacterial, Cytotoxic, and Antioxidant Activity of *Passiflora Edulis* Sims. *European Journal of Scientific Research*. 31(4): 592-598.
- Riset Kesehatan Dasar (Riskesdas). 2013. *Badan Penelitian dan Pengembangan Kesehatan Kementerian RI tahun 2013*. Diakses: 30 April 2018 dari <http://www.depkes.go.id/resources/download/general/Hasil%20Riskesdas%202013.pdf>.
- Rohilla, A. & Ali, S. 2012. Alloxan Induced Diabetes: Mechanisms and Effects. *International Journal of Research in Pharmaceutical and Biomedical Sciences*. 3(2): 819-823.
- Sabuluntika, N., Ayustaningrum, F. 2013. Kadar β -Karoten, Antosianin, Isoflavon, dan Aktivitas Antioksidan pada *Snack Bar* Ubi Jalar Kedelai Hitam Sebagai Alternatif Makanan Selingan Penderita Diabetes Melitus Tipe 2. *Journal of Nutrition College*. 2(4): 689-695.
- Salgado, J.M., Bombarde, T. A. D., Mansi, D. N., Piedade, S. M. S., Meletti, L. M. M. 2010. Effect of Different Concentration of Passion Fruit Peel (*Passiflora Edulis*) on The Glicemic Control in Diabetic Rat. *Ciencias Tecnologia de Alimentos*. 30(3): 784-789.

- Sari, P. E., Simanjuntak, S. B., Winarsi, H. 2014. Aktivitas Enzim Superoksida Dismutase Tikus Diabetes yang Diberi Ekstrak Daun Kapulaga *Amomum Cardamomum*. *Scripta Biologica*. 1(3): 193-196
- Schieber, M. & Chandel, N.S. 2014. ROS Function in Redox Signaling and Oxidative Stress. *Current Biology*. 24(10): 453–462.
- Setiawan, B. & Suhartono, E. 2005. Stres Oksidatif dan Peran Antioksidan pada Diabetes Melitus. *Majalah Kedokteran Indonesia*. 55(2): 86-91.
- Shukla, A., Priyadarshi, S., Qamar, I. 2012. Involvement of Calcium and Vitamin C in Type 2 Diabetes. *Journal of Pharmacy*. 2(1): 9-20.
- Silbernagl, S., Lang, F. 2014. *Teks dan Atlas Berwarna Patofisiologi*. Jakarta: EGC
- Singh, K. & Singh, G., 2017. Alterations in some Oxidative Stress Markers in Diabetic Nephropathy. *Journal Cardiovascular Disease*. 8(1): 24–27.
- Sousa, R. V., Guedes, M. I., Marquez, M. M., Viana, D. A., Silva, I. N., Rodriguez, P. A., *et al.* 2015. Hypoglycemic Effect of New Pectin Isolated From *Passiflora Glandulosa* Cav in Alloxan-Induced Diabetic Mice. *World Journal of Pharmacy and Pharmaceutical Sciences*. 4(1): 1571-1586.
- Soviana, E., Rachmawati, B., Suci, N. 2014. Pengaruh Suplementasi *B-Carotene* terhadap Kadar Glukosa Darah dan Kadar Malondialdehida pada Tikus *Sprague dawley* yang Diinduksi *Streptozotocin*. *Jurnal Gizi Indonesia*. 2(2): 41-46.
- Sridulyakul, P., Wongeak-in, N., Patumraj, S. 2012. Correlations between Endothelial Functions and ROS Detection in Diabetic Microvascular Wall: Early and Late Ascorbic Acid Supplementation. *International Journal of Vascular Medicine*. 2012(1): 1-9.
- Suarsana, I. N., Utama, I. H., Agung, I. G., Suartini, A. 2011. Pengaruh Hiperglikemia dan Vitamin E pada Kadar Malonaldehida dan Enzim Antioksidan Intrasel Jaringan Pankreas Tikus. *Majalah Kedokteran Bandung*. 43(2): 72-76.
- Sulistyoningrum, E. 2014. Perubahan Seluler dan Molekuler pada Nefropati Diabetik. *Mandala of Health*. 7(1): 514-520.
- Susantiningih, T., 2015. Obesitas dan Stres Oksidatif Obesity and Oxidative Stress. *Jurnal Kesehatan Unila*. 5(9): 89-93
- Tang, W. H., Martin, K. A., Hwa, J. 2012. Aldose Reductase, Oxidative Stress, and Diabetic Mellitus. *Frontiers in Pharmacology*. 3(87): 1–8.
- Tiwari, A. K., Kumar, A., Sweeya, P. S., Chauhan, H. A., Lavanya, V., Sireesha, K. *et al.* 2013. Vegetables Juice Influences Polyol Pathway by Multiple Mechanisms in Favour of Reducing Development of Oxidative Stress and

- Resultant Diabetic Complications. *Pharmacognosy Magazine*. 10(38): 383-391.
- Ullah, A., Khan, A., Khan, M. I., 2015. Diabetes Mellitus and Oxidative Stress: A Concise Review. *Saudi Pharmaceutical Journal*. 24(5): 547-553
- Ung, L., Pattamatta, U., Carnt, N., Wilkinson-Berka, J., Liew, G., White, A. 2017. Oxidative Stress and Reactive Oxygen Species : A Review of Their Role in Ocular Disease. *Clinical Science*. 131(24): 2865–2883.
- Vinagayam, R. & Xu, B. 2015. Antidiabetic Properties of Dietary Flavonoids: a Cellular Mechanism Review. *Nutrition % Metabolism*. 12(60): 1-20.
- Wang, Y., Ge, Z., Kang, W., Lian, Z., Yao, J., Zhou, C. 2015. Rutin Alleviates Diabetic Cardiomyopathy in a Rat Model of Type 2 Diabetes. *Experimental and Therapeutic Medicine*. 9(2): 451-455.
- WHO. 2015. *Diabetes*. Diakses: 25 April 2018 dari <http://www.who.int/news-room/fact-sheets/detail/diabetes>
- Winarsi, H., Sasongko, N. D., Nuraeni, I. 2013. Ekstrak Daun Kapulaga Menurunkan Indeks Atherogenik dan Kadar Glukosa Darah Tikus Diabetes Induksi *Alloxan*. *Argitech*. 33(3): 273-280.
- Winarsih, H., 2007. *Antioksidan Alami dan Radikal Bebas*. Kasinius: Yogyakarta.
- World Health Organization (WHO). 2008. *Traditional medicine*. Diakses: 25 April 2018 dari <http://www.who.int/mediacentre/factsheets/fs134/en/>.
- Yadav, A., Kumari, Yadav, A., Mishra, J., Srivatva, S., Prabha, S. 2016. Antioxidants and Its Functions in Human Body: A Review. *Research in Environment and Life Sciences*. 9(11): 1328-1331.
- Yulianti, S. R., Mukaddas, A., Faustine, I. 2014. Profil Pengobatan Pasien Diabetes Mellitus Tipe 2 di Instalasi Rawat Inap RSUD Undata Palu Tahun 2012. *Online Jurnal of Natural Science*. 3(1): 40-46
- Yusuf, K., Obe, O., Joseph, B. 2008. Adherence to Anti-Diabetic Drug Therapy and Self Management Practices Among Type-2 Diabetics in Nigeria. *Pharmacy World & Science*. 30(1): 876–883.
- Zhang, M., Picard-deland, E., Marette, A., 2013. Fish and Marine Omega-3 Polyunsaturated Fatty Acid Consumption and Incidence of Type 2 Diabetes: A Systematic Review and Meta-Analysis. *International Journal of Endocrinology*. 2013(1):20–22.