

DAFTAR PUSTAKA

- Abdollahi, M., *et al.*, 2010, The effects of *Momordica charantia* on the liver in streptozotocin-induced diabetes in neonatal rats, *African Journal of Biotechnology*, **9(31)**, 5004-5012.
- Achmad, N., & Jenie, I.M., 2012, Efek hipoglikemik jus buah *Morinda citrifolia* pada tikus diabetik, *Mutiara medika*, **12(2)**, 88-92.
- Adnan, L., Osman, A., & Hamid, A.A., 2011, Antioxidant Activity of Different Extracts of Red Pitaya (*Hylocereus polyrhizus*) Seed, *International Journal of Food Properties*, **14(6)**, 1171-1181.
- Agada, R., Usman, W.A., Shehu, S., & Thagariki, D., 2020, In vitro and in vivo inhibitroy effects of *Carica papaya* seed on α -amilase and α -glukosidase enzymes, *Heliyon*, **6(3)**.
- Akhtar, N., Akram, M., Daniyal, M., & Ahmad, S., 2018, Evaluation of antidiabetic activity of Ipomoea batatas L. extract in alloxan-induced diabetic rats, *International Journal of Immunopathology and Pharmacology*, **32**, 1-6.
- Al-Asmari, A.K., Athar, M.T., & Kadasah, S.G., 2017, An updated Phytopharmacological Review on Medical Plant of Arab region: *Apium graveolens* Linn., *Pharmacognosy Reviews*, **11(21)**, 13-18.
- Al-Dhubiab, B.E., 2012, Pharmaceutical Applications and Phytochemical Profile of *Cinnamomum burmannii*, *Pharmacognosy Reviews*, **6(12)**, 125-131.
- Algenstaedt, P., Stumpenhagen, A., & Westendorf, J., 2018, The effect of *Morinda citrifolia* L. Fruit juice on the blood sugar level and other serum parameters in patiends with diabetes type 2, *Evidence-Based Complementary and Alternative Medicine*, 1-9.
- Ali, M., & Ibrahim, I.S., 2019, Phytochemical Screening and Proimate Analysis of Garlic (*Allium sativum*), *An Archive of Organic and Inorganic Chemical Sciences*, **4(1)**, 478-482.
- Ali, M., Kenganora, M., Manjula, S.N., 2016, Health Benefits of *Morinda citrifolia* (Noni) : A review, *Pharmacognosy Journal*, **8(4)**, 321-334.
- Alkatiry, A.R., 2014, Perbandingan efek pemberian minyak buah merah (*Pandanus conoideus* L) dengan obat anti hiperglikemik oral terhadap penurunan kadar gula darah tikus putih jantan galur wistar (*Rattus*

norvegicus) diabetik yang diinduksi oleh aloksan, Skripsi, Universitas Muhammadiyah Surakarta, Surakarta.

American Diabetes Association, 2006, Diagnosis and Classification of Diabetes Mellitus. *Diabetes care*, **29(1)**, 38-39.

Anjum, *et al.*, 2018, *Solanum tuberosum* L: Botanical, Phytochemical, Pharmacological and Nutritional Significance, *International Journal of Phytomedicine*, **10(3)**, 115-124.

Ansari, P., *et al.*, 2016, Anti-hyperglycemic of *Aegle marmelos* (L.) cor is partly mediated by increased insulin secretion, α -amylase inhibition, and retardation of glucose absorption, *Journal of Pediatric Endocrinology and Metabolism*, **30(1)**.

Astuti, Y., & Dewi, L.L.R., 2007, Pengaruh ekstrak buah merah (*Pandanus conoideus* L.) terhadap kadar glukosa darah, *Universitas Muhammadiyah Yogyakarta*, **7(1)**, 1-6.

Atikah, N., Ikawati, Z., & Cahyanto, M.E., 2016, Efektivitas jamu tetes soman 1 terhadap HbA1C dan evaluasi *adverse events* pada pasien diabetes mellitus tipe 2 di rumah sakit, *Journal Manajemen dan Pelayanan Farmasi*, **6(2)**, 133-140.

Badole, S.L., Patil, K.Y., & Rangari, V.D., 2015, Antihyperglycemic Activity of Bioactive Compounds from Soybeans, *Glucose Intake and Utilization in Pre-Diabetes and Diabetes*, 225-227.

Baliga, *et al.*, 2013, *Ocimum Sanctum* L (Holy Basil or Tulsi) and Its Phytochemicals in the Prevention and Treatment of Cancer, *Nutrition and Cancer*, **65(1)**, 26-35.

Barrion, A.S.A., Hurtada, W.A., Papa, I.A., Zulayvar, T.O., & Yee, M.G., 2014, Phytochemical Composition, Antioxidant and Antibacterial Properties of Pummelo (*Citrus maxima* (Bum.)) Merr. Against *Escherichia coli* and *Salmonella typhimurium*, *Food and Nutrition Sciences*, **5**, 749-758.

Bascon, *et al.*, 2017, Hypoglycemic effect of *Musa acuminata* aqueous leaf extract on alloxan-induced diabetic ICR mice (*Mus musculus*), *Der Pharms Chemica*, **9(8)**, 51-54.

Bhowmik, A., Khan, L.A., Akhter, M., & Rokeya, B., 2009, Studies on the antidiabetic effects of *Mangifera indica* stem-barks and leaves on non-diabetic, type 1 and type 2 diabetic model rats, *Bangladesh Journal Pharmacol*, **4**, 110-114.

- Boas, *et al.*, 2019, Aqueous extract from *Mongifera indica* Linn. (Anacardiaceae) leaves exerts long-term hypoglycemic effect, increases insulin sensitivity and plasma insulin levels on diabetic wistar rats, *Plus One*, **15(1)**, 1-19.
- Boyer, J., & Liu, R.H., 2004, Apple Phytochemicals and Their Health Benefits, *Nutrition Journal*, **3**, 1-15.
- Budianto, N.E.W., & Hairullah, 2017, Perbedaan efektivitas Acarbose dengan ekstrak etanol kulit terong ungu (*Solanum melongena* L) terhadap penurunan kadar gula darah tikus putih (*Rattus norvegicus*) yang diinduksi sukrosa, *Jurnal Ilmiah Kedokteran Wijaya Kusuma*, **6(2)**, 14-20.
- Bursal, E., & Gulcin, I., 2011, Polyphenol Contents and In Vitro Antioxidant Activity of Lyophilised Aqueous Extract of Kiwifruit (*Actinidia deliciosa*), *Food Research International*, **44**, 1482-1489.
- Cade, W. T., 2008, Diabetes-Related Microvascular and Macrovascular Diseases in the Physical Therapy Setting, *Journal of the American Physical Therapy Association*, **8(11)**, 1322-1335.
- Carson, J.F., 1987, Chemistry and biological properties of onion and garlic, *Food Rev. Internat*, **3**, 71-103.
- Chakraborty, K., Saha, J., Raychaudhuri, U., & Chakraborty, R., 2014, Tropical Fruit Wines : A Mini Review, *Natural Product An Indian Journal*, **10(7)**, 219-228.
- Chawla, A., Chawla, R., & Jaggi, S., 2016, Microvascular and macrovascular complications in diabetes mellitus: distinct or continuum, *Indian J Endocrinol Metab*, **20(4)**, 546-551.
- Clemente, A.C.C., dan Desai, P.V., 2011, Evaluation of the Hematological, Hypoglycemic, Hypolipidemic and Antioxidant Properties of *Amaranthus tricolor* Leaf Extract in Rat, *Tropical Journal of Pharmaceutical Research*, **10(5)**, 595-602.
- Cortez-Navarrete, M., Abundis, E.M., Perez-Rubio, K.G., Gonzales-Ortiz, M., & Villar, M.M., 2018, *Momordica charantia* administration improves insulin secretion in type 2 Diabetes Mellitus, *Journal of Medicinal Food*, **00(0)**, 1-6.
- Craig, M.E., Hattersley, A., & Donaghue, K.C., 2009, Definition, epidemiology and classification of diabetes in children and adolescents, *Pediatric Diabetes*, **10(12)**, 3-12.
- Das, M., & Barua, N., 2013, Pharmacological Activities of *Solanum melongena*

Linn. (Brinjal plant), *International Journal of Green Pharmacy*, 274-277.

Desai, S.D., Shaik, H.S., Kusal, K.D., & Haseena, S., 2015, Effect of *Nigella sativa* Seed Powder on MDA and SOD levels in Streptozotocin Induced Diabetic Albino Rats, *Journal of Pharmaceutical Sciences and Research*, **7(4)**, 206-209.

Desai, S.D., Shaik, H.S., Kusal, K.D., & Haseena, S., 2015, Phytochemical Analysis of *Nigella sativa* and its Antidiabetic Effect, *Journal of Pharmaceutical Sciences and Research*, **7(8)**, 527-532.

Dewi, K.I.G.A.S.P, Manuaba, I.B.P., Yasa, I.W.P.S., & Satriyasa, B.K., 2018, Methanol Extract of Mangosteen Peel (*Garcinia mangostana* L.) Increase Activity Acetylcholinesterase and Glutathione Peroxidase and Reduce MDA in Diazinon Exposed Rat, *Bali Medical Journal*, **7(3)**, 741-743.

Ding, *et al.*, 2012, *Citrus ichangensis* Peel Extract Exhibits Anti-metabolic Disorder Effects by the Inhibition of PPAR γ and LXR Signaling in High-Fat Diet-Induced C57BL/6 Mouse, *Evidence-Based Complementary and Alternative Medicine*, 1-10.

Dreher, M.L., & Davenport, A.J., 2013, Has Avocado Composition and Potential Health Effects, *Critical Reviews in Food Science and Nutrition*, **53**, 738-750.

Duh, P., & Yen, G.C., 1997, Antioxidative Activity of Three Herbal Water extracts, *Food Chemistry*, **60(4)**, 639-645.

Duke, J.A., & Ayensu, E.S., 1985, *Medical Plants of China*, 63, Algonac, Mich. : Reference Publications, Amerika Serikat.

Edeoga, H.O., & Gomina, A., 2000, Nutritional Values of Some Non-conventional Leafy Vegetables of Nigeria, *J. Econ. Taxon. Bot.*, **Vol.24**, 7-13 cit Vijayameena, C., Subhashini, G., Loganayagi, M., & Ramesh, B., Phytochemical Screening and Assessment of Antibacterial Activity for the Bioactive Compound in *Annona muricata*, *International Journal of Current Microbiology and Applied Sciences*, **2(1)**, 1-8.

Eidi, A., Eidi, M., & Esmaeili, 2006, Antidiabetic effect of garlic (*Allium sativum*) in normal and streptozotocin-induced diabetic rats, *Phytomedicine*, **13**, 624-629.

Eliakim-Ikechukwu, F., Okori, S.O., & Asukwo, E.A., 2013, Blood sugar and histological changes following administration of ethanolic leaf extract of *Cassia alata* on Streptozotocin-Induced Diabetic Albino Rats, *The Pacific Journal of Science and Technology*, **14(1)**, 349-356.

- Ezejiyor, A.N., Okorie, A., & Orisakwe, O. E., 2013, Hypoglycaemic and tissue-protective effects of the aqueous extract of *Persea americana* seeds on Alloxan-induced albino rats, *Malays J. Med Sci.*, **20(5)**, 31-39.
- Fatmawaty, Anggreni, N.G.M., Fadhil, N., & Prasaty, V.D., 2019, Potential In Vitro and In Vivo Antioxidant Activities From *Piper crocatum* and *Persea americana* Leaf Extracts, *Biomedical & Pharmacology Journal*, **12(2)**, 661-667.
- Ferreira, E.A., Siqueria, H.E., Boas, E.V.V., Hermes, V.S., & Rios, A.D.O., 2016, Bioactive Compounds and Antioxidant Activity of Pineapple Fruit of Different Cultivars, *Rev. Bras. Fruitic*, **38(3)**, 146.
- Florence, *et al.*, 2014, Antidiabetic and antioxidant effects of *Annona muricata* (Annonaceae), aqueous extract on streptozotocin-induced diabetic rats, *Journal of Ethnopharmacology*, **151**, 784-790.
- Foti, P., Erba, D., Riso, P., Spadafranca, A., Criscuoli, F., & Testolin, G., 2005, Comparison between Daidzein and Genistein Antioxidant Activity in Primary and Cancer Lymphocytes, *Biochemistry and Biophysics*, **433(2)**, 421-427.
- Fransisca, Kalangi, G.E., Saptasari, D.C., & Hendra, P., 2018, Efek pemberian akar pasak bumi terhadap kadar glukosa darah pada mencit terbebani glukosa, *Journal Farmasi Sains dan Komunitas*, **15(1)**, 1-6.
- Gao, H., Wen, J.J., Hu, J.L., Nie, Q.X., Chen, H.H., Xiong, T., Nie, S.P., & Xie, M.Y., 2018, Polysaccharide from fermented *Momordica charantia* L. With *Lactobacillus plantarum* NCU116 ameliorates type 2 diabetes in rats, *Carbohydrate Polymers*, 1-35.
- Genatrika, E., Laksari, V.N.H., & Thiptasurasa, T., 2018, Antidiabetic activity of *Musa acuminata* colla fruit peel (MACFP) ethanol extract in glucosa-induced diabetic rats, *MATEC Web of Conferences*, **197**, 07007.
- Giribabu, N., *et al.*, 2017, Anti-inflammatory, anti-apoptotic and pro-proliferative effects of *Vitis vinifera* seed ethanolic extract in the liver of streptozotocin-nicotinamide-induced diabetes in male rats, *Canadian Journal of Diabetes*, 1-12.
- Gondi, M., *et al.*, 2014, Anti-diabetic effect of dietary mango (*Mangifera indica* L.) peel in streptocotocin-induced diabetic rats, *Journal of Science Food and Agriculture*, **95(1)**, 991-999.
- Halenova, *et al.*, 2019, Hypoglycemic activity of *Phaseolus vulgaris* (L.) aqueous

extract in type 1 diabetic rats, *Current Issues in Pharmacy and Medical Sciences*, **32(4)**, xxx-xxx.

Handajani, J., & Narissi, D.H., 2015, The effects of *Curcuma zedoaria* oil on high blood sugar level and gingivitis, *Dental Journal*, **48(2)**, 69-73.

Himaja, M., Ranjitha, A., M.V., Ramana, M., Anand, & Asif, K., 2010, Phytochemical Screening and Antioxidant Activity of Rhizome Part of *Curcuma Zedoaria*, *International Journal of Research in Ayurveda & Pharmacy*, **1(2)**, 414-417.

Husen, S.A., *et al.*, 2017, Antioxidant and antidiabetic activity of *Garcinia mangostana* L. Pericarp extract in streptozotocin-induced diabetic mice, *Bioscience Research*, **14(4)**, 1238-1245.

Husin, *et al.*, 2017, Aqueous calyxes extract of rosella or *Hibiscus sabdariffa* Linn supplemetation imporves liver morphology in streptozotocin induced diabetic rats, *Arab Journal of Gastroenterology*, 1-8.

Hussain, M.T., Ahmed, G., Janan, N., & Adiba, M., 2013, Unani description of Tukhme Karafs (Seeds of *Apium graveolens* Linn.) and Its Scientific Report, *International Research Journal of Biological Sciences*, **2(11)**, 88-93.

Ilahy, R., Hdider, C., Lnucci, M.S., Tlili, I., & Dalessandro, G., 2011, Phytochemical Composition and Antioxidant Activity of High-lycopene Tomato (*Solanum lycopersicum* L.) cultivars grown in Southern Italy, *Scientia Horticulturae*, **127(3)**, 255-261.

Imaga, N.A., *et al.*, 2010, Phytochemical and Antioxidant Nutrient Constituents of *Carica papaya* and *Parquentina nigrescens* Extracts, *Scientific Research and Essays*, **5(16)**, 2201-2205.

International Diabetes Federation, 2019, International Diabetes Federation Atlas, 9th Edition.

Ismail, M.Y.M., 2009, Clinical evaluation of antidiabetic activity of *Trigonella* seeds and *Aegle marmelos* leaves, *World Applied Sciences Journal*, **7(10)**, 1231-1234.

Juarez-Rojop, *et al.*, 2012, Hypoglycemic effect of *Carica papaya* leaves in streptozotocin-induced diabetic rats.

Justino, A.B., Miranda, N.C., Franco, R.R., Martins, M.M., Sliva, N.M., & Espindola, F.S., 2018, *Annona muricata* Linn. Leaf as source of antioxidant compounds with *in vitro* antidiabetic and inhibitory potential against α -

amilase, α -glukosidase, lipase, non-enzymatic glycation and lipid peroxidation, *Biomedicine & Pharmacotherapy*, **100**, 83-92.

Kakarla, L., *et al.*, 2016, Free radical scabenging, α -glucosidase inhibitory and anti-inflammatory constituents from Indian sedges, *Cyperus scariosus* R.Br and *Cyperus rotundus* L., *Pharmacognosy Magazine*, **12(4)**, 488-496.

Kalita, D., Holm., D.G., LaBarbera, D.V., Petrash, J.M., & Jayanty, S.S., 2018, Inhibition of α -amilase, α -glukosidase, and aldose reductase by potato polyphenolic compounds, *Plos One*, **13(1)**, 1-21.

Kalpana, M.B., Prasath, G.S., dan Subramanian, S., 2014, Studies on the antidiabetic activity of *Ananas comosus* leaves induced diabetic rats, *Scholars Research Library*, **6(2)**, 22-30.

Kamalakkannan, N., & Prince, P. S. M, 2005, The Effect of Aegle marmelos Fruit Extract in Streptozotocin Diabetes, *Journal of Herbal Pharmacotherapy*, **5(3)**, 87-96.

Kemenkes RI, 2014, Profil Kesehatan Indonesia 2014, Jakarta: Kemenkes RI.

Kesari, A.N., Gupta, R.K., Singh, S.K., Diwakar, S., dan Watal, G., 2006, Hypoglycemic and antihyperglycemic activity of *Aegle marmelos* seed extract in normal and diabetic rats, *Journal of Ethnopharmacology*, **107**, 374-379.

Kooti, W., & Daraei, N., 2017, A review of the Antioxidant Activity of Celery (*Apium graveolens* L), *Journal of Evidence-Based Complemetary & Alternative Medicine*, **22(4)**, 1029-1034.

Kroyer, G., 1986. The Antioxidant activity of Citrus Fruit Peels, *Z. Ernahrungswiss*, **25**, 63-69 cit. Choi, M.S, *et al.*, 2001, Effect of Naringin Supplementation on Cholesterol Metabolism and Antioxidant Status in Rats Fed High Cholesterol with Different Levels of Vitamin E, *Annals of Nutrition and Metabolism*, **45(5)**, 193-201.

KunduSen, S., *et al.*, 2011, Evaluation of antihyperglykemi activity of *Citrus limetta* fruit peel in Streptozotocin-Induced Diabetic Rats, *International Scholarly Research Network Endocrinology*, 1-6.

Kurup, S.B., & Mini, S., 2016, *Averrhoa bilimbi* fruits attenuate hyperglycemia-mediated oxidative stress in streptozotocin-induced diabetic rats, *Journal of Food and Drug Analysis*, 1-9.

Kustarini, *et al.*, 2012, Efek ekstrak etanol *Morinda citrifolia* L. (mengkudu)

terhadap kadar glukosa darah, jumlah neutrofil dan fibronektin glomerulus tikus diabetes mellitus, *Media Medika Indonesia*, **46(3)**, 178-183.

Kusumaningtyas, I.D & Utami, E.V., 2014, Pengaruh seduhan kayu manis (*Cinnamomum burmanii*) terhadap struktur pankreas mencit (*Mus musculus*) strain balp-C diabetik, *Journal Ilmu Dasar*, **15(2)**, 69-73.

Lee, S.Y., Park, S.L., Hwang, J.T., Yi, W.H., Nam, Y.D., & Lim, S.L., 2012, Antidiabetic effect of *Morinda citrifolia* (Noni) fermented by *cheonggukjang* in KK-A^y diabetic mice, *Evidence-based Complementary and Alternative Medicine*, **2012**, 1-8.

Letviany, Z., Murtiningrum, Santoso, B., Roreng, M., & Latumahina, R.M.M., 2016, Nutrient Content of Three Clones of Red Fruit (*Pandanus conoideus*) During The Maturity Development, *International Food Research Journal*, **23(3)**, 1212-1225.

Liantari, D.S., 2014, Effect of Wuluh Starfruit Leaf Extract for Streptococcus Mutans Growth, *J Majority*, **3(7)**, 27-33.

Lim, *et al.*, 2012, Assessment of antidiabetogenic potential of fermented soybean extracts in streptozotocin-induced diabetic rat, *Food and Chemical Toxicology*, **50**, 3941-3948.

Lima, C.R., *et al.*, 2012, Anti-diabetic activity of extract *Persea americana* Mill. Leaf via the activation of protein kinase B (PKB/Akt) in streptozotocin-induced diabetic rats, *Journal of Ethnopharmacology*, **141**, 517-525.

Lima, *et al.*, 2015, *Cocos nucifera* (L.) (Areaceae): A phytochemical and Pharmacological Review, *Brazilian Journal of Medical and Biological Research*, **48(11)**, 953-964.

Ludvik, B., Neuffer, B., & Pacini, G., 2004, Efficacy of *Ipomoea batatas* (Caiapo) on diabetics control in type 2 diabetic subjects treated with diet, *Emerging Treatments and Technologies*, **27(2)**, 436-440.

Mans, K., dan Aburjai, T., 2019, Accessing the hypoglycemic effects of seed extract from celery (*Apium graveolens*) in alloxan-induced diabetic rats, *Journal of Pharmaceutical Research International*, **26(6)**, 1-10.

Maniyar, Y., & Bhixavatimath, P., 2012, Antihyperglycemic and hypolipidemic activities of aqueous extract of *Carica papaya* Linn. Leaves in alloxan-induced diabetic rats, *Journal of Ayurveda and Integrative Medicine*, **3(2)**, 70.

Mathew, P.T., & Augusti, K.T., 1973, Studies on the effect of allicin (diallyl

disulphide-oxide) on alloxan diabetes: part I hypoglycaemic action and enhancement of serum insulin effect and glycogen synthesis, *Indian J. Biochem. Biophys*, **10**, 209–212.

McFeeters, R.F., 1988, Effect of fermentation on the nutritional properties of food, New York: Van Nostrand Reinhold, 423-446.

Meila, O., dan Nuraini, 2017, Uji aktivitas antidiabetes dari ekstrak metanol buah kiwi (*Actinidia deliciosa*) melalui penghambatan aktivitas α -Glukosidase, *Journal Farmasi Galenika*, **3(2)**, 132-137.

Miranda-osorio, P.H., *et al.*, 2016, Protective action of *Carica papaya* on β -cells in streptozotocin-induced diabetic rats, *International Journal of Environmental Research and Public Health*, **13(5)**, 446.

Mudi, *et al.*, 2017, Effect of aqueous extract of *Aegle marmelos* fruit and leaf on glycemic, insulinemic and lipidemic status of type 2 diabetic model rats, *Journal of Complementary and Integrative Medicine*, **14(2)**.

Muneer, A.MT., Shenoy, A., Hegde, K., Aamer, S., & Shabaraya, A.R., 2014, Evaluation of the anti-diabetic activity of ethanolic extract of *Citrus maxima* stem bark, *International Journal of Pharmaceutical and Chemical Sciences*, **3(3)**, 2277-5005.

Mohammady, I., *et al.*, 2012, An Evaluation of anti-diabetic and anti-lipidemic properties of *Momordica charantia* (bitter melon) fruit extract in experimentally induced diabetes, *Life Science Journal*, **9(2)**, 363-374.

Narendhirakannan, R.T., *et al.*, 2006, Biochemical evaluation of antidiabetogenic properties of some commonly used Indian plants on streptozotocin-induced diabetes in experimental rats, *Clinical and Experimental Pharmacology and Physiology*, **33**, 1150-1157.

Narendhirakannan, R.T., & Subramanian, S., 2010, Biochemical evaluation of the protective effect of *Aegle marmelos* (L.), Corr. Leaf extract on tissue antioxidant defense system and histological changes of pancreatic β -cells in streptozotocin-induced diabetic rats, *Drug and Chemical Toxicology*, **33(2)**, 120-130.

Nawaz, H., Shad, M.A., & Muzaffar, S., 2018, Phytochemical Composition and Antioxidant Potential of Brassica, *Intech Open*, 7-26.

Nayak, B.S., Marchall, J.R., Isitor, G., & Adogwa, A., 2011, Hypoglycemic and hepatoprotective activity of fermented fruit juice of *Morinda citrifolia* (Noni) in diabetic rats, *Evidence-based Complementary and Alternative Medicine*, 1-5.

- Niwa, A., Tajiri, T., & Higashino, H., 2011, *Ipomoea batatas* and *Agaricus blazei* ameliorate diabetic disorders with therapeutic antioxidant potential in streptozotocin-induced rats, *Journal Clinial Biochemical Nutrition*, **48(3)**, 194-202.
- Manandhar, B., Paudel, K. R., Sharma, B., & Karki, R., 2018, Phytochemical Profile and Pharmacological Activity of *Aegle marmelos* Linn., *Journal of Integrative Medicine*, **16(3)**, 153–163.
- Ojo, O.A., Afon, A.A., Ojo, A.B., Ajiboye, B.O., Oyinloye, B.E., & Kappo, A.P., 2018, Inhibitory effects of Solvent-Partitioned Fractions of Two Nigerian Herbs (*Spondias mombin* Linn. And *Mangifera indica* L.) on α -amilase and α -glukosidase, *Antioxidants*, **7(73)**.
- Okpuzor, J., Ogbunugafor, H., Kareem, G.K., & Igwo-Ezikpe, M.N., 2009, In vitro Investigation of Antioxidant Phenolic Compounds in Extracts of *Senna alata*, *Research Journal of Phytochemistry*, **3(4)**, 68-76.
- Olubobokun, T.H., *et al.*, 2013, Efficacy of *Solanum tuberosum* in reducing food intake and fasting blood glucose level in the management of body weight, *American Journal of Medicine and Medical Science*, **3(6)**, 140-146.
- Omidizadeh, A., *et al.*, 2014, Anti-diabetic activity of red pitaya (*Hylocereus polyrhizus*) fruit, *RSC Advances*, 2-28.
- Oresanya, I.O., *et al.*, 2020, Isolation of flavonoids from *Musa acuminata* Colla (Simili radjah, ABB) and the inhibitory effects of its leaf and fruit fractions on free radicals, acetylcholinesterase, 15-lipoxygenase, and carbohydrate hydrolyzing enzymes, *Journal of Food Biochemistry*.
- Orhan, N., Aslan, M., Orhan, D.D., Ergun, F., dan Yesilada, E., 2006, In-vivo assessment of antidiabetic and antioxidant activities of grapevine leaves (*Vitis vinifera*) in diabetic rats, *Journal of Ethnopharmacology*, **108**, 280-286.
- Ozougwu, J.C., & Eyo, J.E, 2010, Studies on the anti-diabetic activity of *Allium sativum* (Garlic) aqueous extracts on alloxan-induced diabetic albino rat, *Pharmacologyonline*, **2**, 1079-1088.
- Pamar, H.S., & Kar, A., 2007, Antidiabetic potential of *Citrus sinensis* and *Punica granatum* peel extract in alloxan treated male mice, *BioFactors*, **31**, 17-24.
- PERKENI, 2015, Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia, PERKENI, Jakarta

- Pham, H.T.T., *et al.*, 2017, Effects of *Averrhoa carambola* L. (Oxalidaceae) juice mediated on hyperglycemia, hyperlipidemia, and its influence on regulatory protein expression in the injured kidneys of streptozotocin-induced diabetic mice, *American Journal of Translational Research*, **9(1)**, 36-49.
- Phuwapraisirisan, P., Puksasook, T., Jong-aramruang, J., & Kokpol, U., 2008, Phenylethyl cinnamides: A new series of α -glucosidase inhibitors from the leaves of *Aegle marmelos*, *Bioorganic & Medicinal Chemistry Letters*, **18**, 4956-4958.
- PT. Sido Muncul, 2015, Delivering The Vision – Laporan Tahunan PT. Sido Muncul, Jakarta: PT. Sido Muncul.
- Pushparaj, P., Tan, C.H., & Tan, B.K.H., 2000, Effect of *Averrhoa bilimbi* leaf extract on blood glucose and lipids in streptozotocin-diabetic rats, *Journal of Ethnopharmacology*, **72(1-2)**, 69-76.
- Rajan, S., Gokila, M., Jency, P., Brindha, P., & Sujatha, R.K., 2011, Antioxidant and Phytochemical Properties of *Aegle marmelos* Fruit Pulp, *International Journal of Current Pharmaceutical Research*, **3(2)**, 65-70.
- Rahmatullah, M., *et al.*, 2013, Antihyperglycaemic and antinociceptive activity evaluation of methanolic extract of whole plant of *Amaranthus tricolor* L. (Amaranthaceae), *Afr Journal Tradit Complement Altern Medicine*, **10(5)**, 408-411.
- Raman, A., & Lau, C., 1996, Anti-diabetic properties and phytochemistry of *Momordica carantia* L. (Cucurbitaceae), *Phytomedicine*, **2(4)**, 349-362.
- Raut, N.A., & Gaikwad, N.J., 2006, Antidiabetic activity of hydro-ethanolic extract of *Cyperus rotundus* in alloxan induced diabetes in rats, *Fitoterapia*, **77**, 585-588.
- Rehman, S.U., Choe, K., & Yoo, H.Y., 2016, Review on a Traditional Herbal Medicine, *Eurycoma longifolia* Jack (Tongkat Ali): Its Traditional Uses, Chemistry, Evidence-Based Pharmacology and Toxicology, *Molecules*, **21(331)**, 1-36.
- Rukmini, J.N., Manasa S., Rohini, C., Sireesha, L.P., Ritu, S., & Umashankar, G.K., 2017, Antibacterial Efficacy of Tender Coconut Water (*Cocos nucifera* L.) on *Streptococcus mutans*: An In-vitro Study, *Journal of International Society of Preventive & Community Density*, **7(2)**, 130-134.
- Safriani, N., Erfiza, N.M., & Arpi, N., 2016, Antioxidant Activities of *Cyperus rotundus* L. Rhizome and *Areca catechu* L. Seed, *International Journal on Advanced Science Engineering Information Technology*, **6(3)**, 285-288.

- Seflek, H.N., Cuce, S.K.G., Kilinc, I., & Sozen, E., 2019, Effects of *Nigella sativa* oil on ovarium volume, oxidant systems, XIAP and Nf-kB expression in an experimental model of diabetes, *Biotechnic & Histochemistry*, 1473-7750.
- Samariya, K., & Sarin, R., 2013, Isolation and Identification of flavonoids from *Cyperus rotundus* Linn in vivo and in vitro, *Journal of Drug Delivery and Therapeutics*, **3**(2).
- Saranya, S., Pradeepa, S., Subramanlan, S., 2014, Biochemical evaluation of antidiabetic activity of *Cocos nucifera* flowers in STX Induced Diabetic Rats, *Int. J. Pharm. Sci. Rev. Res*, **26**(1), 67-75.
- Shah, K.A., Patel, M.B., & Parmar, P.K., 2010, *Mangifera Indica* (Mango), *Pharmacognosy Reviews*, **4**(7), 42-48.
- Shan, T., Ma, Q., & Wu, E., 2011, Xanthones From Mangosteen Extracts as Natural Chemopreventive Agents: Potential Anticancer Drugs, *Current Molecular Medicine*, **11**(8), 666-677.
- Shastri, K.V., Bhatia, V., Parikh, P.R., & Chaphekar, V.N., 2012, *Actinida deliciosa* : A review, *International Journal of Pharmaceutical Sciences and Research*, **3**(10), 3543-3549.
- Singh, P., Khosa, R.L., dan Jha, K.K., 2015, Antidiabetic activity of ethanolic extract of *Cyperus rotundus* rhizomes in streptozotocin-induced diabetic mice, *Journal of Pharmacy & Bioallied Science*, **7**(4), 289-292.
- Soman, 2015, *Kandungan Soman® I*, <http://www.Soman@indonesia.co.id/home/>, diakses pada 14 Maret 2019.
- Somasundaram, G., Manimekalai, K., Salwe, K.J., & Pandiamunian, J., 2012, Evaluation of the antidiabetic effect of *Ocimum sanctum* in type 2 diabetic patients, *International Journal of Life Science & Pharma Research*, **2**(3), 75-81.
- Sonwa, M. M., & Konig, W.A., 2001, Chemical study of the essential oil of *Cyperus rotundus*. *Phytochemistry*, **58**(5), 799-810.
- Suanarunsawat, T., Anantasomboon, G., & Piewbang, C., 2016, Anti-diabetic and anti-oxidative activity of fixed oil extraced from *Oscimum sanctum* L. Leaves in diabetic rats, *Experimental and Therapeutic Medicine*, **11**, 832-840.
- Sujatha, J., & Asokan, S., 2017, Studies on the Antioxidant Activity of Ethanol

Extract of *Cassia alata* using FT-IR, HPLC, and GC-MS analysis, *International Journal of Advanced Research in Biological Sciences*, **4(12)**, 112-119.

Sumardi, D., Pancoro, A., Yulia, E., Musfiroh, I., Prasetyono, J., Karuniawan, A., & Syamsudin, T.S., 2017, Potential of Local Black Soybean as a Source of The Isoflavones Daidzein and Genistein, *International Food Research Journal*, **24(5)**, 2140-2145.

Suryanto, E., Momuat, L.I., Tarroreh, M., & Wehantouw, F., 2011, Potensi Senyawa Fenolik Antioksidan dari Pisang Goroho (*Musa sapient* sp.), *Agritech*, **31(4)**, 289-296.

Tan, B.K.H., Tan, C.H., & Pushparaj, P.N., 2005, Anti-diabetic activity of the semi-purified fractions of *Averrhoa bilimbi* in high fat diet fed-streptozotocin-induced diabetic rats, *Life sciences*, **76(24)**, 2827-2839.

Taher, M., Zakaria, T.M.F.S.T., Susanti, D., & Zakaria, Z.A., 2016, Hypoglycaemic activity of ethanol extract of *Garcinia mangostana* Linn. In normoglycaemic and streptozotocin-induced diabetic rats, *Biomed Central Complementary and Alternative Medicine*, **16(135)**, 1- 12.

Tashakori-Sabzevar, F., *et al.*, 2016, Protective and hypoglucemic effects of celery seed on streptozotocin-induced diabetic rats: experimental and histopathological evaluation, *Acta Diabetol*, **53**, 609-619.

Thomas, S., Patil, D.A., Patil, A.G., & Chandra, N., 2011, Pharmacognotic Evaluation and Physicochemical Analysis of *Averrhoa carambola* L. Fruit, *Journal of Herbal Medicine and Toxicology*, **2(2)**, 51-54.

Tsai, P., McIntosh, J., Pearce, P., Camden, B., & Jordan, B.R., 2002, Anthocyanin and Antioxidant Capacity in Roselle (*Hibiscus Sabdariffa* L.) extract, *Food Research International*, **35**, 351-356.

Usta, *et al.*, 2016, Effect of crabapple (*Malus sylvestris*) on Blood Glucose and Lipid Levels in Diabetic Rats, *Journal of Food and Nutrition Research*, **4(3)**, 148-151.

Varghese, C.P., Ambrose, C., Jin, S.C., Lim, Y.J., & Keisaban, T., 2012, Antioxidant and Anti-Inflammatory Activity of *Eurycoma longifolia* Jack, A Traditional Medicinal Plant in Malaysia, *International Journal of Pharmaceutical Sciences and Nanotechnology*, **5(4)**, 1875-1878.

Venkateshwarlu, E., *et al.*, 2013, Evaluation of anti-diabetic activity of *Carica papaya* seeds on streptozotocin-induced type-II diabetic rats, *Journal of Advanced Scientific Research*, **4(2)**, 38-41.

- Xie, W., Xing, D., Wang, W., Ding, Y., & Du, L., 2005, The effects of *Ananas comosus* L. Leaves on diabetic-dyslipidemic rats induced by alloxan and a high-fat/high-cholesterol diet, *The American Journal of Chinese Medicine*, **33(1)**, 95-105.
- Xu, X., *et al.*, 2014, Protective effects of total extracts of *Averrhoa carambola* L. (Oxalidaceae) Roots on Streptozotocin-Induced Diabetic Mice, *Cellular Physiology and Biochemistry*, **33(5)**, 1272-1282.
- Yamakawa, O., 1998. Development of New Cultivation and Utilization System for Sweet Potato Towards the 21st Century. In: *Proceedings of International Workshop on Sweet Potato Production System Towards the 21st Century*, pp. 1–8 cit. Garg, N., 2017, Technology for the Production of Agricultural Wines, *Science and Technology of Fruit Wine Production*, 463-486.
- Yang, J., Martinson, T.E., & Liu, R.H., 2009, Phytochemical Profiles and Antioxidant Activities of Wine Grapes, *Food Chemistry*, **116**, 332-339.
- Yeo, S.K., & Ewe, J.A., 2015, Effect of fermentation on the phytochemical contents and antioxidant properties of plant food, *Advances in Fermented Foods and Beverages*, 107-122.
- Yusni, Y., Zufry, H., Meutia, F., & Sucipto, K.W., 2018, The effect of celery leaf (*Apium graveolens* L.) treatment on blood glucose and insulin levels in elderly pre-diabetics, *Saudi Medical Journal*, **39(2)**, 154-160.