

DAFTAR PUSTAKA

- ADA. (2021). Classification and diagnosis of diabetes: Standards of medical care in diabetes-2021. *Diabetes Care*, 44(January), S15–S33. <https://doi.org/10.2337/dc21-S002>
- Ahmed, S. (2019). *Why is insulin injected, instead of taken by mouth?* 8, 7689.
- Alamri, Z. Z. (2018). The role of liver in metabolism: an updated review with physiological emphasis. *International Journal of Basic & Clinical Pharmacology*, 7(11), 2271. <https://doi.org/10.18203/2319-2003.ijbcp20184211>
- Anas, Y., Oktaviani, K. A., & Suharjono, S. (2010). Potensi Hipoglikemik Ekstrak Etanolik Daun Srikaya. *E-Publikasi Ilmiah Fakultas Farmasi Unwahas Semarang*, 7(2), 22–28.
- Arsham, H., & Lovric, M. (2011). Bartlett's Test. In: Lovric M. (eds) International Encyclopedia of Statistical Science. In *International Encyclopedia of Statistical Science*. Springer Dordrecht Heidelberg. https://doi.org/10.1007/978-3-642-04898-2_140
- Ayuni, N. M. I. (2020). Efek Buah Naga Merah (*Hylocereus Polyrhizus*) Terhadap Penurunan Kadar Glukosa Darah Pada Diabetes Tipe 2. *Jurnal Ilmiah Kesehatan Sandi Husada*, 11(1), 554–560. <https://doi.org/10.35816/jiskh.v10i2.350>
- Aziz, Z., Al Qisthi, F. H., Djamil, R., Abdillah, S., Yuliana, N. D., & Simanjuntak, P. (2019). Identification of α -glucosidase Enzyme Inhibitor Compound from Ethanol 96% Extract of Yakon Leaves (*Smallanthus sonchifolius* [Poepp.& Endl.] H. Robinson). *Jurnal Ilmu Kefarmasian Indonesia*, 17(1), 21. <https://doi.org/10.35814/jifi.v17i1.652>
- Badan Litbang Kesehatan, K. K. R. (2018). Laporan Nasional RISKESDAS 2018. In *Badan Penelitian dan Pengembangan Kesehatan* (p. 198).
- Chougale, A. D., Panaskar, S. N., Gurao, P. M., & Arvindek, A. U. (2007). Optimization of Alloxan Dose is Essential to Induce Stable Diabetes for Prolonged Period. *Asian Journal of Biochemistry*, 2(6), 402–408. <https://doi.org/10.3923/ajb.2007.402.408>
- Contreras, M., Guerra-alcala, E., Lima-martinez, M. M., Noble, J. A., Polychronakos, C., & Nastasi, J. (2014). *One year remission of type 1 diabetes mellitus in a patient treated with sitagliptin.* 1, 1–4. <https://doi.org/10.1530/EDM-14-0072>
- Dwitiyanti, Hikmawanti, N. P. E., Putri, A. P., & Chulsum, N. (2020). Aktivitas Ekstrak Etanol Daun Yakon Terhadap Kadar Glikogen Dan Glukosa Darah Hamster Hiperglikemia Dengan Diet Tinggi Lemak. *Jurnal Tumbuhan Obat Indonesia*, 13(2), 78–85.
- Fajar Fahrobi, A., & Yuanita, L. (2017). Pengaruh Variasi Lama Perebusan Dan Kadar Asam Klorogenat Daun Yakon Terhadap Penurunan Kadar Glukosa Darah *rattus Norvegicus*. *UNESA Journal of Chemistry*, 6(1), 20–24.
- Fata, U. H., & Maisari, K. (2021). Pengaruh Pemberian Daun Tanaman Yakon Terhadap Kadar Glukosa Darah Pada Tikus Putih. *Jurnal Keperawatan*, 13(1), 167–174. <https://doi.org/https://doi.org/10.32583/keperawatan.v13i1.1182>
- Febrinda, A. E., Astawan, M., Wresdiyati, T., & Yuliana, N. D. (2013). Kapasitas

- Antioksidan Dan Inhibitor Alfa Glukosidase Ekstrak Umbi Bawang Dayak. *Jurnal Teknologi Dan Industri Pangan*, 24(2), 161–167. <https://doi.org/10.6066/jtip.2013.24.2.161>
- Federiuk, I. F., Casey, H. M., Quinn, M. J., Wood, M. D., & Ward, W. K. (2004). Induction of type-1 diabetes mellitus in laboratory rats by use of alloxan: Route of administration, pitfalls, and insulin treatment. *Comparative Medicine*, 54(3), 252–257.
- Fitriyanto, R. E., Sugiarto, S., & Ardiyanto, D. T. (2020). Effects of methanol extracts of insulin leaves (*Tithonia diversifolia* (hemsl.) A. Gray) on insulin resistance and secretion of alloxan induced-obese diabetic rats. *Jurnal Kedokteran Dan Kesehatan Indonesia*, 11(2), 180–190. <https://doi.org/10.20885/jkki.vol11.iss2.art11>
- GBIF, S. (2021). *Smallanthus sonchifolius* (Poepp. & Endl.) H.Rob. GBIF Backbone Taxonomy. <https://www.gbif.org/species/3145311>
- Halimu, R. B., S.Sulistijowati, R., & Mile, L. (2017). Identifikasi Kandungan Tanin pada Sonneratia alba. *Jurnal Ilmiah Perikanan Dan Kelautan*, 5(4), 93–97.
- Hall, J. E. (2016). *Guyton and Hall Textbook of Medical Physiology* (Thirteenth). Elsevier.
- Hammer, G. D., & McPhee, S. J. (2019). Pathophysiology of Disease. In *Mc Graw Hill Wducation*.
- Harborne, J. B. (1987). *Metode Fitokimia. Penuntun Cara Modern Menganalisis Tumbuhan*. Institut Teknologi Bandung.
- Hariyadi, P. (2013). *Freeze Drying Technology : For Better Quality and Flavor of Dried Products*. VIII(2), 52–57.
- Honore, S. M., Genta, S. B., & Sanchez, S. S. (2015). Smallanthus sonchifolius (Yacon) leaves: an emerging source of compounds for diabetes management. *Journal of Research in Biolog*, 5, 001–022. https://doi.org/10.1007/978-94-017-9511-1_22
- IDAI. (2017). Panduan Praktik Klinis Diagnosis dan Tata Laksana Diabetes Melitus Tipe-1 pada Anak dan Remaja. In N. P. Yati & B. T. A. A. P (Eds.), *Ikatan Dokter Anak Indonesia*. UKK Endokrinologi IDAI.
- Ighodaro, O. M., Adeosun, A. M., & Akinloye, O. A. (2017). Alloxan-induced diabetes, a common model for evaluating the glycemic-control potential of therapeutic compounds and plants extracts in experimental studies. *Medicina (Lithuania)*, 53(6), 365–374. <https://doi.org/10.1016/j.medici.2018.02.001>
- Janzen, K. M., Steuber, T. D., & Nisly, S. A. (2016). GLP-1 Agonists in Type 1 Diabetes Mellitus. *Annals of Pharmacotherapy*, 50(8), 656–665. <https://doi.org/10.1177/1060028016651279>
- Kumar, V., Abbas, A. K., & Aster, J. C. (2015). *Robbins and Cotran Pathologic Basis of Disease* (Ninth). Elsevier.
- Larantukan, S. V. M., Setiasih, N. L. E., & Widayastuti, S. K. (2014). Pemberian Ekstrak Etanol Kulit Batang Kelor Glukosa Darah Tikus Hiperglikemia. *Indonesia Medicus Veterinus*, 3(4), 292–299.
- Laurence, D. R., & Bacharach, A. L. (1964). *Evaluation of Drug Activities : Pharmacometrics* (Vol. 1). Academic Press.
- Lenzen, S. (2008). The mechanisms of alloxan- and streptozotocin-induced

- diabetes. *Diabetologia*, 51(2), 216–226. <https://doi.org/10.1007/s00125-007-0886-7>
- Lim, T. K. (2016). Edible Medicinal and Non-Medicinal Plants. In *Edible Medicinal and Non-Medicinal Plants* (Volume 9, Vol. 10). Springer Dordrecht Heidelberg. <https://doi.org/10.1007/978-94-017-7276-1>
- Marieb, E. N., & Hoehn, K. (2019). *Human Anatomy & Physiology* (Eleventh, Vol. 1, Issue 69). Pearson.
- Medichago, A. B. (2011). *Smartbuffers Phosphate Buffered Saline (PBS) pH 7.4*.
- Mishra, P., Pandey, C. M., Singh, U., Gupta, A., Sahu, C., & Keshri, A. (2019). Descriptive statistics and normality tests for statistical data. *Annals of Cardiac Anaesthesia*, 22(1), 67–72. https://doi.org/10.4103/aca.ACA_157_18
- Mustakin, F., & Tahir, M. M. (2019). Analysis Of Glicogen Content On Heart, Muscle, And Animal Brain. *Canrea Journal: Food Technology, Nutritions, and Culinary Journal*, 2(2), 75–80. <https://doi.org/10.20956/canrea.v2i2.174>
- Mutiarahmi, C. N., Hartady, T., & Lesmana, R. (2021). Use of Mice As Experimental Animals in Laboratories That Refer To the Principles of Animal Welfare: a Literature Review. *Indonesia Medicus Veterinus*, 10(1), 134–145. <https://doi.org/10.19087/imv.2020.10.1.134>
- Novalinda, Priastomo, M., & Rijai, L. (2021). *Natural Ingredients that have Potential as Antidiabetic*. 389–397.
- Nugroho. (2015). Pencegahan Dan Pengendalian Diabetes Melitus Melalui Olahraga. *Medikora*, IX(1). <https://doi.org/10.21831/medikora.v0i1.4640>
- Nugroho, Ginting, R. M. S., & Nurdiana. (2015). Kadar NF- K β Pankreas Tikus Model Type 2 Diabetes Mellitus dengan Pemberian Tepung Susu Sapi. *Indonesian Journal of Human Nutrition*, 2(2), 91–100. <https://doi.org/10.21776/ub.ijhn.2015.002.02.4>
- Nugroho, R. A. (2018). *Mengenal Mencit Sebagai Hewan Laboratorium* (A. H. Khanz (ed.)). Mulawarman University Press.
- Nurzaman, F., Djajadisastra, J., & Elya, B. (2018). Identifikasi Kandungan Saponin dalam Ekstrak Kamboja Merah (*Plumeria rubra L.*) dan Daya Surfaktan dalam Sediaan Kosmetik. *Jurnal Kefarmasian Indonesia*, 8(2), 85–93. <https://doi.org/10.22435/jki.v8i2.325>
- Paula, H. A. de A., Abrantes, M. V., & Ferreira, C. L. de L. F. (2015). Yacon (*Smallanthus Sonchifolius*): A Food with Multiple Functions. *Critical Reviews in Food Science and Nutrition*, 55(1), 32–40. <https://doi.org/10.1080/10408398.2011.645259>
- Paulsen, F., & Waschke, J. (2010). *Sobotta Atlas Anatomi Manusia* (23rd ed.). EGC.
- Pemayun, I., Sindhu, I., & Wardhita, A. (2018). Waktu induksi , durasi dan pemulihan anestesi ketamin dengan berbagai dosis premedikasi xilazin secara subkutan pada anjing lokal dog). *Indonesia Medicus Veterinus*, 7(November), 652–663. <https://doi.org/10.19087/imv.2018.7.6.652>
- Puspitasari, A. D., & Prayogo, L. S. (2013). Perbandingan Metode Ekstraksi Maserasi Dan Sokletasi Terhadap Kadar Fenolik Total Ekstrak Etanol Daun Kersen (*Muntingia calabura*). *Jurnal Ilmiah Cendekia Eksakta*, 1–8.
- Putri, H. D., Sumpono, S., & Nurhamidah, N. (2019). Uji Aktivitas Asap Cair

- Cangkang Buah Karet (*Hevea brassiliensis*) dan Aplikasinya Dalam Penghambatan Ketengikan Daging Sapi. *Alotrop*, 2(2), 97–105. <https://doi.org/10.33369/atp.v2i2.7474>
- Rahmasari, I., & Wahyuni, E. S. (2019). *Efektivitas memordoca carantia (pare) terhadap penurunan kadar glukosa darah 1,2*. 9(1), 57–64.
- Ratna, N., Manikam, M., & Sayogo, S. (2011). Fruktooligosakarida dan Pengaruhnya terhadap Hormon Glucagon-like Peptide-1 pada Penyandang Diabetes Melitus Tipe 2. *Maj Kedokt Indon*, 2, 61.
- Ratya, A. (2014). Antidiabetic Potential Of Soursop Leaf Extract (*Annona muricata L.*) as a Treatment For Type 2 Diabetes Mellitus. *Agromed Unila*, 1(1).
- Rias, Y. A., & Sutikno, E. (2017). Hubungan Antara Berat Badan Dengan Kadar Gula Darah Acak Pada Tikus Diabetes Mellitus. *Jurnal Wiyata*, 4(1), 72–77.
- Roach, P. J., Depaoli-roach, A. A., Hurley, T. D., & Tagliabracci, V. S. (2016). Glycogen and its metabolism: some new developments and old themes. *HHS Public Access*, 441(3), 763–787. <https://doi.org/10.1042/BJ20111416.Glycogen>
- Russo, D., Valentão, P., Andrade, P. B., Fernandez, E. C., & Milella, L. (2015). Evaluation of antioxidant, antidiabetic and anticholinesterase activities of smallanthus sonchifolius landraces and correlation with their phytochemical profiles. *International Journal of Molecular Sciences*, 16(8), 17696–17718. <https://doi.org/10.3390/ijms160817696>
- Sari, F. R., Hendarto, H., Muqorrobin, A., Candra Ahmad, H. R., Amelia, E., Hermansyah, Respati, L., & Maulida, N. (2015). Insulin leaves (Smallanthus sonchifolius) dry extract improves blood glucose and lipid profile in aloxan-induced rat. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*, 17(2), 405–408.
- Sari, Safitri, F., Fithri, A., Amirsyah, M., Matematika, F., Alam, P., & Kuala, U. S. (2018). Potensi Antidiabetik Ekstrak Etanol Kulit Buah Rambai (*Baccaurea motleyana* Muell . Arg) terhadap Kandungan Glikogen Hati Mencit Diabetik Aloksan The Antidiabetic Potency From Ethanol Extract of Rambai Peel (*Baccaurea motleyana* Muell . Arg) Againts Mic. *Jurnal Bioleuser*, 2(3), 78–85.
- Schaubroeck, K. J., Leitner, B. P., & Perry, R. J. (2022). An optimized method for tissue glycogen quantification. *Physiological Reports*, 10(4), 1–14. <https://doi.org/10.14814/phy2.15195>
- Sherwood, L. (2014). *Fisiologi Manusia dari Sel ke Sistem* (H. O. Ong, A. A. Mohede, & D. Ramadhan (eds.); 8th ed.). EGC.
- Simatupang, A. (2019). Monografi Farmakologi Klinik Obat-Obat Diabetes Mellitus Tipe 2. In Kurniyanto (Ed.), *Angewandte Chemie International Edition*, 6(11), 951–952. Fakultas Kedokteran Universitas Kristen Indonesia.
- Soelistijo, S. A., Novida, H., Rudijanto, A., Soewondo, P., Suastika, K., Manaf, A., Sanusi, H., Lindarto, D., Shahab, A., Pramono, B., Langi, Y. A., Purnamasari, D., Soetedjo, N. N., Saraswati, M. R., Dwipayana, M. P., Yuwono, A., Sasiarini, L., Sugiarto, Sucipto, K. W., & Zufry, H. (2015). Konsensus Pengendalian dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia 2015. In

- Perkeni.* <https://doi.org/10.1017/CBO9781107415324.004>
- Suarsana, I. N., Priosoeryanto, B. P., Bintang, M., & Wresdiyati, T. (2010). Profil Glukosa Darah dan Ultrastruktur Sel Beta Pankreas Tikus yang Diinduksi Senyawa Aloksan. *JITV*, 15(2), 118–123.
- Suarsana, I. N., Priosoeryanto, B. P., Wresdiyati, T., & Bintang, M. (2010). Sintesis Glikogen Hati dan Otot pada Tikus Diabetes yang Diberi Ekstrak Tempe. *Jurnal Veteriner*, 11(3), 190–195.
- Suharyanto, & Prima, D. A. N. (2020). Penetapan Kadar Flavonoid Total Pada Juice Daun Ubi Jalar Ungu (*Ipomoea batatas* L.) Yang Berpotensi Sebagai Hepatoprotektor Dengan Metode Spektrofotometri Uv-Vis. *Cendekia Journal of Pharmacy*, 4(2), 110–119.
- Suiraka, I. (2012). Penyakit Degeneratif: Mengenal, Mencegah dan Mengurangi faktor resiko 9 Penyakit Degenaratif. *Nuha Medica*, 1–123.
- Sulastri, L., Hidayat, R., Citroreksoko, P., Abdillah, S., & Simanjuntak, P. (2021). *Kombinasi Ekstrak Etanol 96% Daun Teh (Camellia sinensis (L.) Kuntze) dan Daun Yakon (Smallanthus sonchifolius) sebagai Penghambat Enzim α-glukosidase*. 145–152. <https://doi.org/https://doi.org/10.25026/mpc.v14i1.563>
- Sulistyarini, I., Sari, D. A., & Wicaksono, T. A. (2019). Skrining Fitokimia Senyawa Metabolit Sekunder Batang Buah Naga (*Hylocereus polyrhizus*). *Jurnal Ilmiah Cendekia Eksaka*, 56–62.
- Susilowati, R. (2006). *Habbatus Saudah Sebagai Amelioran Fungsi Pankreas Pada Mencit Diabetes*. 1–11.
- Syarif, A., Gayatri, A., Estuningtyas, A., Setiawati, A., Muchtar, A., Arif, A., Rosdiana, D. S., Suyatna, F. D., Dewoto, H. R., Utama, H., Instianty, Louisa, M., Wiria, M. S. S., Nafrialdi, Wilmana, P. F., Ascobat, P., Setiabudy, R., Suherman, S. K., Gunawan, S. G., ... Sadikin, Z. D. (2016). *Farmakologi dan Terapi* (S. G. Gunawan, R. Setiabudy, Instiaty, & Nafrialdi (eds.); 6th ed.). Fakultas Kedokteran Universitas Indonesia.
- Theodora, T. C., Gunawan, I. W., & Swantara, I. M. (2019). Isolasi dan identifikasi golongan flavonoid pada ekstrak etil asetat daun gedi (*Abelmoschus manihot* L.). *Jurnal Kimia*, 13(2), 131–138. <https://doi.org/https://doi.org/10.24843/JCHEM.2019.v13.i02.p02>
- Valentova, K., Cvak, L., Muck, A., Ulrichova, J., & Simanek, V. (2003). Antioxidant activity of extracts from the leaves of *Smallanthus sonchifolius*. *European Journal of Nutrition*, 42(1), 61–66. <https://doi.org/10.1007/s00394-003-0402-x>
- Valentová, K., Moncion, A., De Waziers, I., & Ulrichová, J. (2004). The effect of *Smallanthus sonchifolius* leaf extracts on rat hepatic metabolism. *Cell Biology and Toxicology*, 20(2), 109–120. <https://doi.org/10.1023/B:CBTO.0000027931.88957.80>
- Vasudevan, D., S, S., & Vaidyanathan, K. (2013). *Textbook of Biochemistry for Medical Students* (Seventh). Jaypee Brothers Medical Publishers (P) Ltd.
- Wahyuni, S. (2017). *Biokimia Enzim dan Karbohidrat*. Unimal Press.
- Wahyuningsih, H. P., & Kusmiyati, Y. (2017). *Bahan Ajar Kebidanan Anatomi Fisiologi*. Kementrian Kesehatan Republik Indonesia.
- Yamin, M., Ayu, D. F., & Hamzah, F. (2017). Lama Pengeringan Terhadap

- Aktivitas Antioksidan Dan Mutu Teh Herbal Daun Ketepeng Cina (Cassia alata L.). *Jom FAPERTA*, 4(2), 1–15.
- Yuda, A. A. G. P., Rusli, R., & Ibrahim, A. (2015). Kandungan Metabolit Sekunder Dan Efek Penurunan Glukosa Darah Ekstrak Biji Rambutan (Nephelium lappaceum L) Pada Mencit (Mus Musculus). *Jurnal Sains Dan Kesehatan*, 1(3), 120–125.