

DAFTAR PUSTAKA

- Abriyani, E., Fikayuniar, L., Fauziah, S., & Melinda, L. (2022). Skrining Fitokimia Dan Profil Klt Dari Fraksi N-Heksana Dan Etil Asetat Pada Kulit Pithecellobium jiringa (Jack) Prain. *Jurnal Buana Farma*, 2(3), 8–13. <https://doi.org/10.36805/jbf.v2i3.545>
- Aditya, Y. S. (2021). Analisis kadar air dan kadar abu pada tepung buah sirsak gunung (*Annona montana* Macf.). *Jurnal Akademi Analis Farmasi Dan Makanan*, 1–10.
- Afroz R, Tanvir EM, Zheng W, Little PJ (2016) Molecular Pharmacology of Honey. *Clin Exp Pharmacol* 6: 212. <https://doi:10.4172/2161-1459.1000212>
- Agung, N. (2017). Buku Ajar: Teknologi Bahan Alam. In *Lambung Mangkurat University Press* (Issue January 2017).
- Agustina, K. (2017). Kesejahteraan Hewan Laboratorium. *Kesejahteraan Hewan "Animal Welfare,"* 1–49.
- Ajiboye, B. O., Ojo, O. A., Aganzi, I. Y., Chikezie, G. S., Fadaka, O. A., Jayesimi, K., & Olaoye, O. (2017). Antihyperanaemic and antihyperlipidemic activities of *Artocarpus altilis* fruit based-diet on alloxan-induced diabetic rats. *International Food Research Journal*, 24(5), 2133–2139.
- Alen, Y., Agresa, F. L., & Yuliandra, Y. (2017). Analisis Kromatografi Lapis Tipis (KLT) dan Aktivitas Antihiperurisemia Ekstrak Rebung *Schizostachyum brachycladum* Kurz (Kurz) pada Mencit Putih Jantan. 3(May), 146–152.
- Alexandra, F. D., Frethernety, A., Amiani, W., & Aprelea, R. N. (2023). Uji Aktivitas Antihiperqlikemia Ekstrak Batang Bajakah Tampala (*Uncaria gambir* (W.Hunter) Roxb) Pada Tikus Diabetes. *Jurnal Kedokteran Universitas Palangka Raya*, 11(1), 19–24. <https://doi.org/10.37304/jkupr.v11i1.8577>
- Al-Lawati, J. A. (2017). Diabetes mellitus: A local and global public health emergency! *Oman Medical Journal*, 32(3), 177–179. <https://doi.org/10.5001/omj.2017.34>
- Anggara, M., Imam Munandar, Utami, S. F., Ikram, F. D., & Faisal, M. (2020). Manajemen Pemeliharaan Dan Pemberian Pakan Ternak Sapi Potong Di Desa Sebewe Kecamatan Moyo Utara, Kabupaten Sumbawa. *Jurnal Aplikasi Sains Teknologi Nasional*, 1(1), 7–13.
- Antari, N. K. N., & Esmond, H. A. (2017). Diabetes Melitus Tipe 2. In *Fakultas Kedokteran, Universitas Lampung* (Vol. 4, Issue 13).

https://simdos.unud.ac.id/uploads/file_penelitian_1_dir/653f627b3ce1272d209353541c305cee.pdf

- Anwar, K., Ngindra, A. P. L., Hariadi, R. E. P., Kamalia, N., & Santoso, H. B. (2016). Perbandingan Efek Ekstrak Etanol, Fraksi N- Butanol, dan Fraksi Petroleum Eter Daun Kembang Bulan (*Tithonia diversifolia* (Hemsley) A. Gray) Terhadap Penurunan Kadar Glukosa Darah Mencit Jantan yang Diinduksi Aloksan. *Jurnal Pharmascience*, 03(02), 80–88.
- Anwari, R. H. (2021). Dampak Konsumsi Kopi pada Penurunan Kadar Glukosa Darah Penderita Diabetes Mellitus Tipe 2. *Jurnal Penelitian Perawat Profesional*, 3(3), 531–540. <https://doi.org/10.37287/jppp.v3i3.543>
- Ariani, N., Musiam, S., Niah, R., & Febrianti, D. R. (2022). Pengaruh Metode Pengeringan Terhadap Kadar Flavonoid Ekstrak Etanolik Kulit Buah Alpukat (*Persea americana* Mill.) dengan Spektrofotometri UV-VIS. *Jurnal Pharmascience*, 9(1), 40. <https://doi.org/10.20527/jps.v9i1.10864>
- Arief Noena, R. N., Thahir, Z., Hidayah Base, N., & Farmasi Yamas Makassar, A. (2020). Aktivitas Anti Hiperglikemia Minyak Kluwak Pada Hewan Uji Mencit (*Mus Musculus*). *Journal.Yamasi.Ac.Id*, 4(1), 40–46. <http://>
- Ariyanti, R., Wahyuningtyas, N., & Wahyuni, A. S. (2007). Pengaruh Pemeberian Infusa Daun Salam Terhadap Penurunan Kadar Asam Urat Darah Mencit Putih Jantan Yang Di Induksi Dengan Potassium Oksanat. *Jurnal, pharmacon*, Vol. 8 (20).
- Banu KS, Cathrine L. (2015). General techniques involved in phytochemical analysis. *Int J Adv Res Chem Sci* 2015; 2 : 25-32.
- Bare, Y., Kuki, A. D., Rophi, A. H., Krisnamurti, G. C., Lorenza, M. R. W. G., & Sari, D. R. T. (2019). Prediksi Asam Kuinat Sebagai Anti-Inflamasi Terhadap COX-2 Secara Virtual. *Biota : Jurnal Ilmiah Ilmu-Ilmu Hayati*, 4(September), 124–129. <https://doi.org/10.24002/biota.v4i3.2516>
- Basukala, P., Jha, B., Yadav, B. K., & Shrestha, P. K. (2018). Determination of Insulin Resistance and Beta-Cell Function Using Homeostatic Model Assessment in Type 2 Diabetic Patients at Diagnosis. *Journal of Diabetes & Metabolism*, 09(03). <https://doi.org/10.4172/2155-6156.1000790>
- Baynest, H. W. (2015). Classification, Pathophysiology, Diagnosis and Management of Diabetes Mellitus. *Journal of Diabetes & Metabolism*, 06(05). <https://doi.org/10.4172/2155-6156.1000541>

- Bolla KN, Sri SKV, Varalakshmi KN. (2015). Diabetes mellitus and its prevention. *Int J Sci Technol Res* 4: 119-125
- Buddhisuharto, A. K., Pramastya, H., Insanu, M., & Fidrianny, I. (2021). An updated review of phytochemical compounds and pharmacology activities of artocarpus genus. *Biointerface Research in Applied Chemistry*, 11(6), 14898–14905. <https://doi.org/10.33263/BRIAC116.1489814905>
- Carine M.M., Maurice M., Marie-Laure L. and Harry A. In vitro evaluation of the nematocidal value of *Artocarpus altilis* (Parkinson) var. *seminifera* and non *seminifera* and *Terminalia cattapa* L. against *Haemonchus contortus*. *Advances in Animal Biosciences*. 2010; 1(02): 440-441. [Online] Available from: <http://dx.doi.org/10.1017/S2040470010000646>
- Chatterjee, S., & Davies, M. J. (2015). Current management of diabetes mellitus and future directions in care. *Postgraduate Medical Journal*, 91(1081), 612–621. <https://doi.org/10.1136/postgradmedj-2014-133200>
- Chaudhury, A., Duvoor, C., Reddy Dendi, V. S., Kraleti, S., Chada, A., Ravilla, R., Marco, A., Shekhawat, N. S., Montales, M. T., Kuriakose, K., Sasapu, A., Beebe, A., Patil, N., Musham, C. K., Lohani, G. P., & Mirza, W. (2017). Clinical Review of Antidiabetic Drugs: Implications for Type 2 Diabetes Mellitus Management. *Frontiers in Endocrinology*, 8(January). <https://doi.org/10.3389/fendo.2017.00006>
- Chinmay P., Monalisa M., Abhijeeta R., Anath B. D., Kunja B. S. and Hemanta K. P. (2013). Phytoconstituent Screening and Comparative Assessment Of Antimicrobial Potentiality Of *Artocarpus Altilis* Fruit Extracts. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2013; 5(3): 1.
- Cushnie, T.P.T., Lamb, A.J. (2005). Antimicrobial activity of flavonoids. *Int. J. Antimicrob. Agents* 26, 343–356.
- Daud, A., Suriati, S., & Nuzulyanti, N. (2020). Kajian Penerapan Faktor yang Mempengaruhi Akurasi Penentuan Kadar Air Metode Thermogravimetri. *Lutjanus*, 24(2), 11–16. <https://doi.org/10.51978/jlpp.v24i2.79>
- Das K, Tiwari RK, Shrivastava DK. (2010) Techniques for evaluation of medicinal plant products as antimicrobial agents: Current methods and future trends. *J Med Plants Res* 2010; 4 : 104-11.
- Dayanti, R., & Suyatno. (2012). Aktivitas Antioksidan Ekstrak Metanol Bagian Batang Tumbuhan Paku *Nephrolepis radicans* (BURM.) KUHN. *Journal of Chemistry*, 1(1), 86–92.

- Delazar A, Nahar L, Hamedeyazdan S, Sarker SD. (2012). Microwave- assisted extraction in natural products isolation. *US National Library of Medicine National Institutes of Health*. 2012; 2(1): 27-30.
- Depkes RI. (1995). Farmakope Indonesia. Edisi IV. Jakarta: Departemen Kesehatan RI; 1995.
- Depkes RI. (2017). Farmakope Herbal Indonesia Ed. II. Jakarta: Departemen Kesehatan Republik Indonesia.
- Depkes. (2000). Parameter Standart Umum Ekstrak Tanaman Obat. Direktorat Jendral Pengawas Obat dan Makanan: Jakarta.
- Dewatisari, W. F., Rumiyaniti, L., & Rakhmawati, I. (2018). Rendemen dan Skrining Fitokimia pada Ekstrak Daun Sansevieria sp. *Jurnal Penelitian Pertanian Terapan*, 17(3), 197. <https://doi.org/10.25181/jppt.v17i3.336>
- Diabetes, D. O. F. (2010). Diagnosis and classification of diabetes mellitus. *Diabetes Care*, 33(SUPPL. 1). <https://doi.org/10.2337/dc10-S062>
- Diana Febriani, Dina Mulyati, & Endah Rismawati. (2015). Karakterisasi Simplisia dan Ekstrak Etanol Daun Sirsak (*Annona muricata* Linn). *Prosiding Penelitian SPeSIA Unisba*, 475–480.
- Diana Novita, O., Atifah, Y., & Helendra. (2023). Effect of Different Feeding on Uric Acid Levels in Mice (*Mus musculus* L.) Asam Urat Mencit (*Mus musculus* L.). *Serambi Biologi*, 8(2), 152–156.
- Djuwarno, E. N., & Abdulkadir, W. (2019). Penurunan Kadar Glukosa Mencit Akibat Pemberian Kombinasi Metformin Dan Ekstrak Bawang Merah. *Journal Syifa Sciences & Clinical Research*, 1(1).
- Doughari JH. (2014). Phytochemicals: Extraction methods, basic structures, and mode of action as potential chemotherapeutic agents, phytochemicals-a global perspective of their role in nutrition and health. In: *A Global Perspective of Their Role in Nutrition and Health*. Venketeshwer R. Editor. InTech; 2012. Available from: www.intechopen.com
- Duppa, M. T., Hafid, M., & Asrayani. (2022). Uji Efektivitas Ekstrak Etanol Daun Kopi Robusta (*Coffea canephora*) Terhadap Penurunan Kadar Gula Darah Pada Hewan Uji Mencit (*Mus musculus*). *Jurnal Fito Medicine* , 14(1), 43–47. <http://journal.unpacti.ac.id/index.php/fito>

- Edgren, A.R. (2004). Diabetes Mellitus, Health Sites, Inc.653 West 23rd Street; Panama City. 3(2) 41-53.
- Fajriaty, I., I H, H., Andres, & Setyaningrum, R. (2018). Skrining Fitokimia Lapis Titpis Dari Ekstrak Etanol Daun Bintangur (*Calophyllum soulattri* Burm . F .). *Jurnal Pendidikan Informatika Dan Sains*, 7(1), 54–67.
- Fernandez-Gomez, B., Ramos, S., Goya, L., Mesa, M. D., del Castillo, M. D., & Martín, M. Á. (2016). Coffee silverskin extract improves glucose-stimulated insulin secretion and protects against streptozotocin-induced damage in pancreatic INS-1E beta cells. *Food Research International*, 89, 1015–1022. <https://doi.org/10.1016/j.foodres.2016.03.006>
- Forbes, J. M., & Cooper, M. E. (2013). Mechanisms of diabetic complications. *Physiological Reviews*, 93(1), 137–188. <https://doi.org/10.1152/physrev.00045.2011>
- Forouhi, N. G., & Wareham, N. J. (2014). Epidemiology of diabetes. *Medicine (United Kingdom)*, 42(12), 698–702. <https://doi.org/10.1016/j.mpmed.2014.09.007>
- Gardner, E.M. & Zerega, N.J.C. (2021). Taxonomic updates to *Artocarpus* subgenus *Pseudojaca* (Moraceae), with a particular focus on the taxa in Singapore. *Gardens' Bulletin Singapore* 73: 309-374. [Cited as *Artocarpus altilis*.]
- Gururaj Setty, S., Crasto, W., Jarvis, J., Khunti, K., & Davies, M. J. (2016). New insulins and newer insulin regimens: A review of their role in improving glycaemic control in patients with diabetes. *Postgraduate Medical Journal*, 92(1085), 152–164. <https://doi.org/10.1136/postgradmedj-2015-133716>
- H. Al Mamari, H. (2022). *Phenolic Compounds: Classification, Chemistry, and Updated Techniques of Analysis and Synthesis*. 1–21. <https://doi.org/10.5772/intechopen.98958>
- Hakyan, V. (2023). Polyphagia's impact on health and quality of life: Management of excessive hunger and its implications. *Open Access Journal of Contraception*, 13(4), 508–509. [https://doi.org/10.37532/1758-1907.2023.13\(4\).508-509](https://doi.org/10.37532/1758-1907.2023.13(4).508-509).
- Hamsah. (2013). Karakterisasi Sifat Fisikokimia Tepung Buah Pedada (*Sonneratia caseolaris*). Program Studi Ilmu Dan Teknologi Pertanian: Makassar.
- Hanani, M. S. E. (2015). Analisis Fitokimia. Jakarta: Penerbit Buku Kedokteran EGC.

- Handa S.S., Khanuja S.P.S., Gennaro Longo. (2008). Extraction technologies for medicinal and aromatic plants. *International centre for science and high technology*.
- Harborne, J., B. (1987). Metode Fitokimia Edisi ke 2. Padmawinata K, Soediro I, penerjemah, J., B. Bandung (ID): ITB. Terjemahan dari: Phytochemical Methods.
- Harikumar K, Kumar BK, Hemalatha GJ, Kumar MB, Lado SFS. (2015). A review on diabetes mellitus. *Int J Novel Trends Pharm Sci* 5: 201-217
- Heftmann, F. (1992). Chromatography: Fundamentals and application of chromatographic and electrophoretic techniques. 5th ed. Amsterdam, *The Netherlands: Elsevier*; 1992. p. 281-5.
- Hidayah, N., Hisan, A. K., Solikin, A., Irawati, I., & Mustikaningtyas, D. (2016). Uji Efektivitas Ekstrak Sargassum muticum Sebagai Alternatif Obat Bisul Akibat Aktivitas Staphylococcus aureus. *Journal of Creativity Student*, 1(2). <https://doi.org/10.15294/jcs.v1i2.7794>
- Hidayah, L. A., & Anggarani, M. A. (2022). Determination of Total Phenolic, Total Flavonoid, and Antioxidant Activity of India Onion Extract. *Indonesian Journal of Chemical Science*, 11(2), 123–135. <https://doi.org/10.15294/ijcs.v11i2.54610>
- Hikmawanti, Hanani, E., & Mardiyanti, D. R. (2024). Analysis of Flavonoids on Fraction from Hydrolysate of Cordia Sebestena L. Leaves Extract. *Indonesian Journal of Pharmaceutical Science and Technology Journal Homepage*, 1(1), 35–44. <http://jurnal.unpad.ac.id/ijpst/>
- Horng-Huey K., Wen-Chun L., Cheng-Wei T., Chun-Ching L., Feng-Lin Y. Prenylated flavonoids from Artocarpus altilis: Antioxidant activities and inhibitory effects on melanin production. *Phytochemistry: The International Journal of Plant Chemistry, Plant Biochemistry and Molecular Biology*. 2013; 89: 78–88: [Online] Available from: <http://dx.doi.org/10.1016/j.phytochem.2013.01.011>
- Huie C W. (2002). *A review of modern sample-preparation techniques for the extraction and analysis of medicinal plants*. Anal Bioanal Chem. 2002; 373:23–30.
- Husna F, Suyatna FD, Arozal W, Purwaningsih EH. (2019). Model Hewan Coba pada Penelitian Diabetes. *Pharm Sci Res*. 2019;6(3):131–41.
- I Made Oka Adi Parwata. (2014). *Bahan Ajar Kimia Organik Bahan Alam*. 1–39.

- IDF. (2019). IDF Diabetes Atlas: International Diabetes Federation 9th ed. Belgium: International Diabetes Federation.
- 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>
- Ingle KP, Deshmukh AG, Padole DA, Dudhare MS, Moharil MP, Khelurkar VC. (2017). Phytochemicals: Extraction methods, identification, and detection of bioactive compounds from plant extracts. *J Pharmacogn Phytochem* 2017;6: 32-6.
- I Putu, A. (2018). Uji Two Way Anova. *Two Way Anova Analysis Anova, December*. <https://doi.org/10.13140/RG.2.2.13577.08807>
- Iyos, R. N., & Astuti, P. D. (2017). Pengaruh Ekstrak Daun Sirsak (*Annona muricata* L.) terhadap Penurunan Kadar Glukosa Darah. *Majority*, 6(2), 144–148.
- Jafar, W., Masriany, & Sukmawaty, E. (2020). Uji Fitokimia Ekstrak etanol Bunga Pohon Hujan (*Spathodea campanulata*) secara In Vitro. *Prosiding Seminar Nasional Biotik, 2019*, 328–334.
- Jagtap, U. B., & Bapat, V. A. (2010). Artocarpus: A review of its traditional uses, phytochemistry and pharmacology. *Journal of Ethnopharmacology*, 129(2), 142–166. <https://doi.org/10.1016/j.jep.2010.03.031>
- Janež, A., Guja, C., Mitrakou, A., Lalic, N., Tankova, T., Czupryniak, L., Tabák, A. G., Prazny, M., Martinka, E., & Smircic-Duvnjak, L. (2020). Insulin Therapy in Adults with Type 1 Diabetes Mellitus: a Narrative Review. *Diabetes Therapy*, 11(2), 387–409. <https://doi.org/10.1007/s13300-019-00743-7>
- Jannatul, & Purnama, E. R. (2024). Pengaruh Ekstrak Daun Bruguiera gymnorrhiza terhadap Kadar Malondialdehid (MDA) dan Gambaran Histopatologi Pankreas pada Mencit Diabetes Effect of Bruguiera gymnorrhiza Leaf Extract on malondialdehyde (MDA) Levels and Pancreatic Histopathology in Diab. *Lentera Bio*, 13(2), 244–252.
- Jones, AMP; Ragone, D; Tavana, NG; Bernotas, DW; Murch, S J. (2011). Beyond the Bounty: Sukun (*Artocarpus altilis*) untuk Ketahanan Pangan dan Makanan Baru di Abad ke-21. *Jurnal Etnobotani*. 2011; 9: 131-132.
- Julianto, T. S. (2019). Fitokimia Tinjauan Metabolit Sekunder dan Skrining fitokimia. In *Jakarta penerbit buku kedokteran EGC* (Vol. 53, Issue 9).

- Kabel AM, Altowirqi R, Al Thobiti H, Althumali A, Alharthi E. (2017). Pharmacological therapy of type 2 diabetes mellitus: New perspectives. *EC Pharmacol Toxicol* 4: 12-19
- Kamal, S., Margono, Hidayah, N., Rohmayanti, & Luthfiyati, H. (2017). Dosis Streptozotocyn Mempengaruhi Mortalitas Mencit Balb-C Dalam Proses induksi Hewan Model Diabetes Mellitus. University Research Colloquium, 1–6. <https://journal.unimma.ac.id/index.php/urecol/index>
- Karau, G., Njagi, E., Machoco, A., Wangai, L., & Kamau, P. (2012). Hypoglycemic Activity Of Aqueous And Ethilacetate Leaf And Steam Bark Extracts Of *Pappea Capensis* In Alloxan-Induced Diabetic BALB/c Mice. *British Journal of Pharmacology And Toxicology*, 251-258.
- Kemenkes RI. (2018). Hasil Riset Kesehatan Dasar Tahun 2018. Kementerian Kesehatan RI, 53(9), 1689–1699.
- Kemenkes RI. (2020). Pedoman Nasional Pelayanan Kedokteran Tata Laksana Diabetes Melitus Tipe 2 Dewasa. Jakarta: Departemen Kesehatan Republik Indonesia.
- Khaerati, K., Amini, D., & Ihwan. (2020). Aktivitas Antidiabetes Ekstrak Air-Etanol, n-Heksan, dan Etil Asetat Uwi Banggai (*Dioscorea alata* L.) Dengan Metode Induksi Aloksan Pada Mencit Jantan (*Mus musculus*). *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 6(2), 243–252. <https://doi.org/10.22487/j24428744.2020.v6.i2.15154>
- Khoirunnisa, I., & Sumiwi, S. A. (2019). Review Artikel: Peran Flavonoid Pada Berbagai Aktifitas Farmakologi. *Farmaka*, 17(2), 131–142. <https://jurnal.unpad.ac.id/farmaka/article/view/21922>
- Kinam, B. O. I., Prabowo, W. C., Supriatno, S., & Rusli, R. (2021). Skrining Fitokimia dan Profil KLT Ekstrak dan Fraksi dari Daun Berenuk (*Crescentia cujete* L.) serta Uji DPPH. *Proceeding of Mulawarman Pharmaceuticals Conferences*, 14, 339–347. <https://doi.org/10.25026/mpc.v14i1.600>
- Kumar A, Mittal R, Naidu PS (2017) Insulin resistance: Recent advances in pathogenesis, molecular mechanisms and clinical relevance. *EC Pharmacol Toxicol* 4: 244-262
- Langi, J. H., Wonggo, D., Damongilala, L. J., Montolalu, L. A. D. Y., Harikedua, S. D., & Makapedua, D. M. (2022). Flavonoid dan tanin ekstrak air subkritis benang sari dan kepala putik bunga mangrove *Sonneratia alba*. *Media Teknologi Hasil Perikanan*, 10(3), 157–164. <https://doi.org/10.35800/mthp.10.3.2022.40658>

- Lee, M. S., & Thuong, P. T. (2010). Stimulation of Glucose Uptake by Triterpenoids From *Weigela Subsessilis*. *Phytotherapy research*.
- Lestari, A. (2024). Uji Aktivitas Antidiabetes Kombinasi Ekstrak Daun Sungkai (*Peronema canescens* Jack.) dan Kayu Manis (*Cinnamomum burmanii* (Nees & T.Nees) Blume) Pada Mencit yang Diinduksi Aloksan (Issue 2). [Skripsi] Fakultas Sains dan Teknologi: Universitas Jambi.
- Lewis W.K. (1961). The principle of counter-current extraction. *The Journal of Industrial and Engineering Chemistry*. 1961; 8 (9): 825–33.
- Ludden, T. M. (2023). Nonlinear Pharmacokinetics. *Basic Pharmacokinetics*, 20(6), 236–257. <https://doi.org/10.4324/9781003161523-13>
- Maharadingga, M., Pahriyani, A., & Arista, D. (2021). Uji Aktivitas Ekstrak Etanol 70% Daun Ketapang (*Terminalia catappa* L.) Pada Hamster Syrian Jantan Hiperqlikemia Dan Hiperkolesterolemia Dengan Parameter Pengukuran Kolesterol Total Dan LDL. *Lambung Farmasi: Jurnal Ilmu Kefarmasian*, 2(2), 80. <https://doi.org/10.31764/lf.v2i2.5488>
- Mahardani, O. T., & Yuanita, L. (2021). Efek Metode Pengolahan Dan Penyimpanan Terhadap Kadar Senyawa Fenolik Dan Aktivitas Antioksidan. *Unesa Journal of Chemistry*, 10(1), 64–78. <https://doi.org/10.26740/ujc.v10n1.p64-78>
- Mai, N.T.T., N.X. Hai, D.D. Phu, P.N.H. Trong and N.T. Nhan. 2012. Three new geranyl aurones from the leaves of *Artocarpus altilis*. *Phytochemistry Letters* 5: 647–650
- Mardiati, S.M. & Agung, J.S. (2016). Pertambahan Berat Badan Mencit (*Mus musculus* L.) Setelah Perlakuan Ekstrak Air Biji Pepaya (*Carica papaya* Linn.) Secara Oral Selama 21 Hari. *Buletin Anatomi dan Fisiologi*. 1(1) : 75-80.
- Martino, J. V., Van Limbergen, J., & Cahill, L. E. (2017). The role of carrageenan and carboxymethylcellulose in the development of intestinal inflammation. *Frontiers in Pediatrics*, 5(May), 1–7. <https://doi.org/10.3389/fped.2017.00096>
- Mulia, A. S., Sitinjak, B. D. P., Amirah, S. R., Dina, T. R., Al-, Z. S., & Suci, T. A. (2023). In Silico Study of Binahong (*Anredera cordifolia*) Herb Compounds as Aldose Reductase Inhibitor. *Indonesian Journal of Biological Pharmacy*, 3(2), 74–82.
- Munjiati, N. E. (2021). Pengaruh Pemberian Streptozotocin Dosis Tunggal terhadap Kadar Glukosa Tikus Wistar (*Rattus norvegicus*). *Meditory : The Journal of Medical Laboratory*, 9(1), 62–67. <https://doi.org/10.33992/m.v9i1.1330>

- 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>
- Na'ilah Rahmatika, N., Hafan Sutawardana, J., & Hakam, M. (2022). Hubungan Manajemen Energi Dengan Kelelahan Pada Pasien Diabetes Melitus Tipe 2. *Jurnal Keperawatan Priority*, 5(1), 118–123. <https://doi.org/10.34012/jukep.v5i1.2103>
- Nayeem, N., & Sushmita, S. (2013). Artocarpus altilis: Over view of a plant which is referred to as bread fruit. *International Journal of Pharmaceutical Sciences Letters*, 3(5), 1-3.
- Nerdy, N. (2017). Determination of Vitamin C in Several Varieties of Melon Fruits By Titration Method. *Jurnal Natural*, 17(2), 118–121. <https://doi.org/10.24815/jn.v17i2.8255>
- Nikmah, U. A., & Dany, F. (2017). Kadar Leptin sebagai Petanda Diabetes pada Individu dengan Diabetes dan Toleransi Glukosa Terganggu. *Buletin Penelitian Kesehatan*, 45(3), 1–6. <https://doi.org/10.22435/bpk.v45i3.6508.145-152>
- Ni Kadek Yunia Pratiwi, & I Wayan Martadi Santika. (2023). Mekanisme Aktivitas Anti-Diabetes Dari Kandungan Senyawa Tanaman Kersen (Muntingia calabura L.): Systematic Review. *Prosiding Workshop Dan Seminar Nasional Farmasi*, 2, 100–112. <https://doi.org/10.24843/wsnf.2022.v02.p08>
- Novitasari, A.E. dan D.Z. Putri. 2016. Isolasi dan identifikasi saponin pada ekstrak daun mahkota dewa dengan ekstraksi maserasi. *Jurnal Sains*. 6(12):10-14
- Nugroho, Rudy Agung. (2018). Mengenal Mencit Sebagai Hewan Laboratorium. *Mulawarman University Press*. Samarinda
- Nugroho, D. A. (2021). *Aktivitas Antioksidan Dari Ekstrak Metanol Batang Gandaria (Bouea macrophylla Griff.)*. Skripsi. Jakarta: Universitas Islam Negeri Syarif Hidayatullah.
- Nurzahra, A., Mulqie, L., & Hazar, S. (2022). Penetapan Kadar Abu Total dan Bobot Jenis Buah Tin (Ficus carica L.). *Bandung Conference Series: Pharmacy*, 2(2), 1–9. <https://doi.org/10.29313/bcsp.v2i2.4677>
- Oktiansyah, R. (2015). Aktivitas Harian Mencit Jantan (*Mus musculus*) di Laboratorium Ngatidjan dan Hakim, L. 2006. Metode Laboratorium

Dalam Toksikologi. Yogyakarta: Bag. Farmakologi dan Toksikologi Fak. Kedokteran UGM

- Okur, M. E., Karantas, I. D., & Siafaka, P. I. (2017). Diabetes mellitus: A review on pathophysiology, current status of oral medications and future perspectives. *Acta Pharmaceutica Scientia*, 55(1), 61–82. <https://doi.org/10.23893/1307-2080.APS.0555>
- Olokoba, A. B., Obateru, O. A., & Olokoba, L. B. (2012). Type 2 diabetes mellitus: A review of current trends. *Oman Medical Journal*, 27(4), 269–273. <https://doi.org/10.5001/omj.2012.68>
- Osasenaga, M.I., Abiola, M.A. and Oluseyi, A.A. (2017) Alloxan Induced Diabetes a Common Model for Evaluating the Glycemic Control Potential of Therapeutic Compounds and Plant Extracts in Experimental Studies. *Medicina*, 63, 365-374.
- Pandey A, Tripathi S. (2014). Concept of standardization, extraction, and pre-phytochemical screening strategies for herbal drug. *JPharmacogn Phytochem* 2014; 2: 115-9.
- Panjuantiningrum, F. (2010). Pengaruh Pemberian Buah Naga Merah (*H. polyrhizus*) terhadap Kadar Glukosa Darah Tikus Putih yang Diinduksi Aloksan [skripsi]. Surakarta: Fakultas Kedokteran Universitas Sebelas
- Paschou, S. A., Papadopoulou-Marketou, N., Chrousos, G. P., & Kanaka-Gantenbein, C. (2018). On type 1 diabetes mellitus pathogenesis. *Endocrine Connections*, 7(1), R38–R46. <https://doi.org/10.1530/EC-17-0347>
- Pathak, V., Pathak, N. M., O'Neill, C. L., Guduric-Fuchs, J., & Medina, R. J. (2019). Therapies for Type 1 Diabetes: Current Scenario and Future Perspectives. *Clinical Medicine Insights: Endocrinology and Diabetes*, 12. <https://doi.org/10.1177/1179551419844521>
- Petersmann, A., Nauck, M., Müller-Wieland, D., Kerner, W., Müller, U. A., Landgraf, R., Freckmann, G., & Heinemann, L. (2018). Definition, classification and diagnostics of diabetes mellitus. *Journal of Laboratory Medicine*, 42(3), 73–79. <https://doi.org/10.1515/labmed-2018-0016>
- Pitoyo, S. (1992). *Budidaya Sukun*. Kanisius. Yogyakarta.
- Pratama, R. Y., Pranitasari, N., & Purwaningsari, D. (2020). Pengaruh Ekstrak Daun Sirsak Terhadap Gambaran Histopatologi Pankreas *Rattus Norvegicus* Jantan yang Diinduksi Aloksan. *Hang Tuah Medical Journal*, 17(2), 116. <https://doi.org/10.30649/htmj.v17i2.159>

- Prawitasari, D. S. (2019). Diabetes Melitus dan Antioksidan. *KELUWIH: Jurnal Kesehatan Dan Kedokteran*, 1(1), 48–52. <https://doi.org/10.24123/kesdok.v1i1.2496>
- Priyanto, B. A., & Wibowo, P. (2021). Efek Quercetin Dari Buah Delima (*Punica Granatum L.*) Terhadap Penurunan Glukosa Darah. *Surabaya Biomedical Journal*, 1(1), 59–73. <https://doi.org/10.30649/sbj.v1i1.9>
- Pujiastuti, E., & El'Zeba, D. (2021). Perbandingan Kadar Flavonoid Total Ekstrak Etanol 70% Dan 96% Kulit Buah Naga Merah (*Hylocereus polyrhizus*) Dengan Spektrofotometri. *Cendekia Journal of Pharmacy*, 5(1), 28–43. <https://doi.org/10.31596/cjp.v5i1.131>
- R, A., & EM, T. (2016). Molecular Pharmacology of Honey. *Clinical and Experimental Pharmacology*, 06(03). <https://doi.org/10.4172/2161-1459.1000212>
- Rahmawati, I. (2016). Skrining Aktivitas Antibakteri Ekstrak Etanol 70% Dari Beberapa Daun Tanaman Di Indonesia Terhadap Bakteri *Staphylococcus aureus* Serta Bioautografinya. *Universitas Muhammadiyah Surakarta*, 1–9. <http://eprints.ums.ac.id/48774/>
- Ramadani, A., & Mildawati. (2020). Aktivitas Anti Hiperglikemia Madu Lebah Hutan (*Apis dorsata*) Pada Hewan Uji Mencit (*Mus musculus*). *Jurnal Kesehatan Yamasi Makassar*, 4(1), 33–39.
- Raymond P. W. (2003). Scott. Principles and practice of chromatography. *Chrom-Ed Book Series*. 2003; 5967.
- Resti, H. Y., Cahyati, W. H., & Artikel, I. (2022). Kejadian Diabetes Melitus pada Usia Produktif di Puskesmas Kecamatan Pasar Rebo. *Higeia Journal Of Public Health Research And Development*, 6(3), 350–361. <http://journal.unnes.ac.id/sju/index.php/higeia>
- Riwanti, P., Izazih, F., & Amaliyah. (2020). Pengaruh Perbedaan Konsentrasi Etanol pada Kadar Flavonoid Total Ekstrak Etanol 50,70 dan 96%. *Journal of Pharmaceutical Care Anwar Medika*, 2(2), 82–95.
- Riyanto, & Haryanto, Y. (2023). Pengaruh Lama Penyimpanan Ekstrak Terhadap Kadar Pinostrobin Dalam Ekstrak Etanol Temukunci (*Kaemferia pandurata*, Roxb). *Prosiding Seminar Nasional Hasil Penelitian Dan Pengabdian Masyarakat*, 2, 174–184.
- Runtuwene, M. R. J., Kamu, V. S., & Rotty, M. (2021). Aktivitas Antioksidan Fraksi Etil Asetat Dan Fraksi Heksana Daun Soyogik (*Saurauia bracteosa* DC) Terhadap

- Oksidasi Asam Linoleat. *Chemistry Progress*, 14(2), 138.
<https://doi.org/10.35799/cp.14.2.2021.37559>
- Sani, R.N., Fithri C.N., Ria D.A., dan Jaya M.M. 2014. Analisis Rendemen dan Skrining Fitokimia Ekstrak Etanol Mikroalga Laut Tetraselmis chuii. *Jurnal Pangan dan Agroindustri*. 2(2):121-126.
- Santosa, D., & Haresmita, P. P. (2015). Antioxidant Activity Determination *Garcinia dulcis* (Roxb.) Kurz, *Blumeamollis* (D.Don) Merr., *Siegesbeckia orientalis* L., dan *Salvia riparia* H.B.K which Collected from Taman Nasional Gunung Merapi using DPPH (2,2-diphenyl-1-pikr. *Traditional Medicine Journal*, 20(1), 28–36.
- Saputra NT, Suartha IN, Dharmayudha AAGO. (2018). Agen Diabetagonik Streptozotocin untuk Membuat Tikus Putih Jantan Diabetes Mellitus. *Bul Vet Udayana*. 2018;10(2):116.
- Sasidharan S, Chen Y, Saravanan D, Sundram KM, Yoga Latha L. (2011). Extraction, isolation and characterization of bioactive compounds from plants' extracts. *Afr J Tradit Complement Altern Med* 2011; 8 : 1-10.
- Setiadi, E., Peniati, E., & Susanti, R. (2020). Pengaruh ekstrak kulit lidah buaya terhadap kadar gula darah dan gambaran histopatologi pankreas tikus yang diinduksi aloksan. *Life Science*, 9(2), 171–185.
- Shargel L., Wu-Pong S., Yu Andrew B.C. 2016. Biofarmasetika dan Farmakokinetika Terapan Edisi Ketujuh. MC-Graw Hill
- Sholihah, D., & Qomariyah, N. (2021). Pengaruh Ekstrak Daun Jambu Mete Terhadap Kadar Asam Urat dan Histopatologi Ginjal Mencit Diabetes. *LenteraBio : Berkala Ilmiah Biologi*, 10(3), 356–365. <https://doi.org/10.26740/lenterabio.v10n3.p356-365>
- Sievenpiper, J. L., Chan, C. B., Dworatzek, P. D., Freeze, C., & Williams, S. L. (2018). Nutrition Therapy. *Canadian Journal of Diabetes*, 42, S64–S79. <https://doi.org/10.1016/j.jcjd.2017.10.009>
- Sikarwar, M. S., Hui, B. J., Subramaniam, K., Valeisamy, B. D., Yean, L. K., & Balaji, K. (2014). A review on *Artocarpus altilis* (Parkinson) Fosberg (breadfruit). *Journal of Applied Pharmaceutical Science*, 4(8), 91–97. <https://doi.org/10.7324/JAPS.2014.40818>
- Siki, K., Obenu, N. M., & Edi, E. (2023). Analisis Fitokimia Ekstrak Polar Daun Tumbuhan “At Anonse” (*Annona reticulata* L.). *Journal of Chemical Science and Application*, 1(September 2022), 3–7. <https://doi.org/10.32938/jcsa.v1i2.4233>

Silalahi, M. (2021). Pemanfaatan Sukun (*Artocarpus altilis*) Sebagai Obat Tradisional dan Bahan Pangan Alternatif Pemanfaatan Sukun (*Artocarpus altilis*) Sebagai Obat Tradisional dan Bahan Pangan Alternatif.

Silver, B., Ramaiya, K., Andrew, S. B., Fredrick, O., Bajaj, S., Kalra, S., Charlotte, B. M., Claudine, K., & Makhoba, A. (2018). *EADSG Guidelines: Insulin Therapy in Diabetes. Diabetes Therapy*, 9(2), 449–492. <https://doi.org/10.1007/s13300-018-0384-6>

Sindhu. S. Nair, Vaibhavi Kavrekar, Anshu Mishra.(2013). In vitro studies on alpha amylase and alpha glucosidase inhibitory activities of selected plant extracts. *European Journal of Experimental Biology*. 2013;3(1):128-132.

Siregar, N., Annastasya, A., Mutia, M. S, Y. E. P. L. (2021). Model Hewan Coba Diabetes Mellitus Yang Diinduksi Streptozotocin. *Majalah Kedokteran Andalas*, 44(4), 242–252.

Siswarni MZ, Yusrina Ika Putri, & Rizka Rinda P. (2017). Ekstraksi Kuersetin Dari Kulit Terong Belanda (*Solanum betaceum* Cav.) Menggunakan Pelarut Etanol Dengan Metode Maserasi Dan Sokletasi. *Jurnal Teknik Kimia USU*, 6(1), 36–42. <https://doi.org/10.32734/jtk.v6i1.1563>

Suhardinata, F., & Murbawani, E. A. (2015). Pengaruh Bubuk Daun Kenikir (*Cosmos caudatus*) Terhadap Kadar Malondialdehyde Plasma Tikus Wistar Diabetes Diinduksi Streptozotocin. *Journal of Nutrition College*, 4(4), 570–577. <https://doi.org/10.14710/jnc.v4i4.10164>

Soelistijo, S. (2021). Pedoman Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 Dewasa di Indonesia 2021. *Global Initiative for Asthma*, 46.

Soifoini, T., Donno, D., Jeannoda, V., Rakoto, D. D., Msahazi, A., Farhat, S. M. M., Oulam, M. Z., & Beccaro, G. L. (2021). Phytochemical composition, antibacterial activity, and antioxidant properties of the *artocarpus altilis* fruits to promote their consumption in the comoros islands as potential health-promoting food or a source of bioactive molecules for the food industry. *Foods*, 10(9). <https://doi.org/10.3390/foods10092136>

Solanki Renu and Nagori B.P. (2012). New method for extracting phytoconstituents from plants. *International Journal of Biomedical and Advance Research*.

Somashekhar M, Naira Nayeem, Basavraj Sonnad. (2013). A Review on Family Moraceae (Mulberry) With a Focus on *Artocarpus* Species. *World Journal Of Pharmacy And Pharmaceutical Sciences*. 2013; 2(5): 2614-2621.

- Song, J., Kwon, O., Chen, S., Daruwala, R., Eck, P., Park, JB. (2002) Flavonoid Inhibition of SVCT1 and GLUT2, Intestinal Transporters for Vitamin C and Glucose. *Biol Chem.* 2002;277(18): 15252–60. <https://doi.org/10.1074/jbc.M110496200>
- Suprapti, B., Widyasari, N., Rahmadi, M., & Wibisono, C. (2017). Review of insulin therapy in type 2 diabetes mellitus ambulatory patients. *Indonesian Journal of Pharmacy*, 28(4), 221–231. <https://doi.org/10.14499/indonesianjpharm28iss4pp221>
- Tandi, J., Rizky, M., Mariani, R., & Alan, F. (2017). Uji Efek Ekstrak Etanol Daun Sukun (*Artocarpus Altilis* (Parkinson Ex F.A.Zorn) Terhadap Penurunan Kadar Glukosa Darah, Kolesterol Total Dan Gambaran Histopatologi Pankreas Tikus Putihjantan (*Rattus Norvegicus*) Hiperkolesterolemia-Diabetes. Vol. 1, 384-396.
- Tjitda, P. J. P., & Nitbani, F. O. (2019). Skrining Fitokimia Ekstrak Metanol, Kloroform Dan N-Heksan Daun Flamboyan. *Jurnal Sains Dan Terapan Kimia*, 13(2), 70. <https://doi.org/10.20527/jstk.v13i2.5949>
- Toha, M., Sujarwadi, M., Zuhroidah, I., Keberawatan, F., Jember, U., & Putrianti, S. W. (2023). Penerapan Manajemen Pola Makan (Sedikit Tapi Sering) Pada Stabilitas Normal Gula Darah Penderita Diabetes Mellitus. *Indonesia Proceeding International Agronursing Conference*, 1(1), 2023.
- Uusitupa, M., Khan, T., Viguioliouk, E., & Kahleova, H. (2019). Prevention of Type 2 Diabetes by Lifestyle Changes. *Nutrients*, 11(2611), 1–22.
- Voight, R. (1994). Buku Pelajaran Teknologi Farmasi. Yogyakarta : UGM Press.
- Wahyuni, R., Guswandi, & Rivai, H. (2014). Pengaruh Cara Pengeringan Dengan Oven, Kering Angin dan Cahaya Matahari Langsung Terhadap Mutu Simplisia Herba Sambiloto. *Fakultas Farmasi Universitas Andalas (UNAND) Sekolah Tinggi Ilmu Farmasi (STIFARM) Padang*, 6(2), 126–133.
- Wahyuni, Yusuf, M. I., Malik, F., Lubis, A. F., Indalifiany, A., & Sahidin, I. (2019). Efek Imunomodulator Ekstrak Etanol Spons *Melophlus sarasinorum* Terhadap Aktivitas Fagositosis Sel Makrofag Pada Mencit Jantan Balb/C. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 5(2), 147–157. <https://doi.org/10.22487/j24428744.2019.v5.i2.13611>
- Wardani, E., & Rachmania, R. A. (2017). Uji Aktivitas Ekstrak Etanol Dan Ekstrak Etil Asetat Daun Sirih Merah (*Piper cf. fragile*. Benth) Terhadap Penyembuhan Luka Terbuka Pada Tikus. *Media Farmasi: Jurnal Ilmu Farmasi*, 14(1), 43. <https://doi.org/10.12928/mf.v14i1.9825>

- WHO. (2019). Classification of diabetes mellitus 2019. World Health Organization, Geneva.
- Yasi, R. M., Harsanti, R. S., & Larasati, T. T. (2022). The The Effect of Simplicia Drying Method on the Acquisition of Active Compound Levels of Grinting Grass Simplicia Extract (*Cynodon dactylon* (L.) Pers.). *Berkala Sainstek*, 10(3), 147. <https://doi.org/10.19184/bst.v10i3.32309>
- Yeni. (2010). *Evaluasi Interaksi Obat di Ruang Intensive Care Unit (ICU) RSUP Fatmawati Periode Bulan Maret-April 2010*. April, 1–40.
- Yuda, P. E. S. K., Cahyaningsih, E., & Winariyanthi, N. L. P. Y. (2017). Skrining Fitokimia Dan Analisis Kromatografi Lapis Tipis Ekstrak Tanaman Patikan Kebo (*Euphorbia Hirta* L.) (Phytochemical Screening And Thin Layer Chromatographic Studies Of *Euphorbia Hirta* L. Extract. *Jurnal Ilmiah Medicamento*, 3(2), 61–70.
- Yumni, G. G., Widyarini, S., & Fakhrudin, N. (2021). Kajian Etnobotani, Fitokimia, Farmakologi dan Toksikologi Sukun (*Artocarpus altilis* (Park.) Fosberg). *Jurnal Tumbuhan Obat Indonesia*, 14(1), 55–70. <https://doi.org/10.22435/jtoi.v14i1.3944>
- Yusuf, M., Muhammad, R.A., Yadhil, Y.A., Rorrong, Deny, R.B., Hajar, A., Siti, M.A., Nurazizah, Aulia, D., Mutmainnah, A., Wirda, W., Mentari, J.P., & Widya, F.A. (2022). Teknik Manajemen dan Pengolahan Hewan Percobaan (Memahami Perawatan dan Kesejahteraan Hewan Percobaan). Program Studi Biologi. Jurusan FMIPA UNM. Makassar.
- Zahrattunnisa N, Elya B, and Noviani A. (2017). Inhibition of alpha-glucosidase and antioxidant test of stem bark extracts of *Garcinia fruticosa* lauterb. *Pharmacognosy Journal* 2017;9(2):273–5. [doi: 10.5530/pj.2017.2](https://doi.org/10.5530/pj.2017.2)