

DAFTAR PUSTAKA

- Adha, S. A., Febriyanti, R. M., & Milanda, T. (2019). Review : Potensi Sambiloto Sebagai Obat Antidiabetes Berbasis Herbal a Review : Potential of Sambiloto As Herbal Based Antidiabetic Medicine. *Medical Sains*, 4(1), 7–12.
- Ahdyani, R., Rahayu, S., Zamzani, I., Farmasi, F., Banjarmasin, U. M., Farmasi, F., & Banjarmasin, U. M. (2020). Review : Pengembangan Sistem Penghantaran Berbasis Nanopartikel Dalam Sediaan Kosmetika HerbalL (Review : Development Of Nanoparticel-Based Delivery System In Herbal Cosmesetics). *Journal of Current Pharmaceutical Science*, 4(1), 289–299.
- Ahmed, K. A., Korany, R. M. S., El Halawany, H. A., & Ahmed, K. S. (2019). Spirulina platensis alleviates arsenic-induced toxicity in male rats: Biochemical, histopathological and immunohistochemical studies. *Advances in Animal and Veterinary Sciences*, 7(8), 701–710. <https://doi.org/10.17582/journal.aavs/2019/7.8.701.710>
- APHA. (2018). Fixation , Tissue Processing , Histology and Immunohistochemistry Procedures for Diagnosis of Animal TSE (BSE , Scrapie , Atypical Scrapie , CWD). In *Animal and Plant Health Agency*.
- Arsad, S. S., Esa, N. M., & Hamzah, H. (2014). Histopathologic Changes in Liver and Kidney Tissues from Male Sprague Dawley Rats Treated with Rhaphidophora Decursiva (Roxb.) Schott Extract. *Journal of Cytology & Histology*, s4(01), 1–6. <https://doi.org/10.4172/2157-7099.s4-001>
- Asmirajanti, M. (2018). *Modul anatomi fisiologi*. Universitas Esa Unggul.
- Bailey, J. (2017). Does the stress of laboratory life and experimentation on animals adversely affect research data? A critical review. *ATLA Alternatives to Laboratory Animals*, 46(5), 291–305. <https://doi.org/10.1177/026119291804600501>
- Bajaj, S., Singla, D., & Sakhuja, N. (2012). Stability Testing of Pharmaceutical Products. *Journal of Applied Pharmaceutical Science*, 02(03), 129–138.
- Banerjee, A., Qi, J., Gogoi, R., Wong, J., Mitragotri, S., & Barbara, S. (2017). *HHS Public Access*. 805, 176–185. <https://doi.org/10.1016/j.jconrel.2016.07.051.Role>
- Bardi, D. A., Halabi, M. F., Hassandarvish, P., Rouhollahi, E., Paydar, M., Moghadamtousi, S. Z., Al-Wajeih, N. S., Ablat, A., Abdullah, N. A., & Abdulla, M. A. (2014). Andrographis paniculata Leaf Extract Prevents Thioacetamide-Induced Liver Cirrhosis in Rats. *PLoS ONE*, 9(10), 1–13. <https://doi.org/10.1371/journal.pone.0109424>
- Casamonti, M., Risaliti, L., Vanti, G., Piazzini, V., Bergonzi, M. C., & Bilia, A. R. (2019). Andrographolide Loaded in Micro- and Nano-Formulations: Improved Bioavailability, Target-Tissue Distribution, and Efficacy of the

- “King of Bitters.” *Engineering*, 5(1), 69–75.
<https://doi.org/10.1016/j.eng.2018.12.004>
- Chalik, R. (2016). *Anatomi Fisiologi Manusia* (Vol. 148). Kementerian Kesehatan Republik Indonesia.
- Furman, B. L. (2021). Streptozotocin-Induced Diabetic Models in Mice and Rats. *Current Protocols*, 1(4), 1–21. <https://doi.org/10.1002/cpz1.78>
- Hardianto, D. (2020). Telaah Komprehensif Diabetes Melitus: Klasifikasi, Gejala, Diagnosis, Pencegahan, Dan Pengobatan. *Jurnal Bioteknologi & Biosains Indonesia (JBBi)*, 7(2), 304–317. <https://doi.org/10.29122/jbbi.v7i2.4209>
- Hohsyar, N., Gray, S., Han, H., & Bao, G. (2016). *The effect of nanoparticle size on in vivo pharmacokinetics and cellular interaction*. 11, 673–692.
- Holidah, D., Dewi, I. P., Siregar, I. P. A., & Aftiningsih, D. (2022). Hepatoprotective Effect of *Caesalpinia sappan* L. Ethanolic Extract on Alloxan Induced Diabetic Rats. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 8(1), 1–9. <https://doi.org/10.22487/j24428744.2022.v8.i1.15601>
- Hossain, S., Urbi, Z., Karuniawati, H., Mohiuddin, R. B., Qrimida, A. M., Allzrag, A. M. M., Ming, L. C., Pagano, E., & Capasso, R. (2021). *Andrographis paniculata* (Burm. f.) wall. ex nees: An updated review of phytochemistry, antimicrobial pharmacology, and clinical safety and efficacy. *Life*, 11(4), 1–39. <https://doi.org/10.3390/life11040348>
- Hossain, S., Urbi, Z., Sule, A., & Rahman, K. M. H. (2014). A Review of Ethnobotany, Phytochemistry, and Pharmacology. *The Scientific World Journal*, 2014, 1–28.
- Husna, F., Suyatna, F. D., Arozal, W., & Purwaningsih, E. H. (2019). Model Hewan Coba pada Penelitian Diabetes. *Pharmaceutical Sciences and Research*, 6(3), 131–141. <https://doi.org/10.7454/psr.v6i3.4531>
- Hussain, A., Ali, I., Khan, A. U., & Khan, T. M. (2016). Glibenclamide-induced profound hypoglycaemic crisis: a case report. *Therapeutic Advances in Endocrinology and Metabolism*, 7(2), 84–87. <https://doi.org/10.1177/2042018816632440>
- IDF. (2021). *International Diabetes Federation : Diabetes Atlas 10th Edition*. International Diabetes Federation. <https://diabetesatlas.org/data/en/country/94/id.html>
- Islam, M. T. (2017). Andrographolide , a New Hope in the Prevention and Treatment of Metabolic Syndrome. *Frontiers in Pharmacology*, 8(August), 1–9. <https://doi.org/10.3389/fphar.2017.00571>
- Kemenkes. (2020). Tetap Produktif, Cegah Dan Atasi Diabetes Mellitus. In *pusat data dan informasi kementerian kesehatan RI* (pp. 1–6).

- Khristian, E., & Inderiati, D. (2017). *Teknik Laboratorium Medis (TLM) : Sitohistoteknologi*. Kementerian Kesehatan Republik Indonesia.
- Letsoin, B., Srianoto, P., & Kurnijasanti, R. (2017). Pengaruh pemberian ekstrak bunga rosella (*Hibiscus sabdariffa* Linn .) terhadap gambaran histopatologi hepar mencit (*Mus musculus*) jantan yang dipapar pb asetat (Skripsi). *Veterina Medika*, 10(1), 93–99. <http://repository.unair.ac.id/id/eprint/54421>
- Li, Y., He, S., Tang, J., Ding, N., Chu, X., Cheng, L., Ding, X., Liang, T., Feng, S., Rahman, S. U., Wang, X., & Wu, J. (2017). Andrographolide Inhibits Inflammatory Cytokines Secretion in LPS-Stimulated RAW264.7 Cells through Suppression of NF- κ B/MAPK Signaling Pathway. *Evidence-Based Complementary and Alternative Medicine*, 2017. <https://doi.org/10.1155/2017/8248142>
- Mahardika, G. G., Dewi, N. W. S., & Aman, I. (2020). Ekstrak Etanol Daun Sambiloto (*Andrographis paniculata*) Menurunkan HAI (Histology Activity Indeks)-Knodell Score Pada Hepar Mencit (*Mus Musculus*) Jantan Yang Diinduksi CCl4. *Jurnal Medika Udayana*, 9(4), 75–80.
- Maulina, M. (2018). Zat-Zat yang Mempengaruhi Histopatologi Hepar. In *Unimal Press* (Vol. 49).
- McHugh, M. L. (2012). Lessons in biostatistics interrater reliability : the kappa statistic. *Biochemica Medica*, 22(3), 276–282. <https://hrcak.srce.hr/89395>
- 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>
- Ogunlana, O. O., Adetuyi, B. O., Esalomi, E. F., Rotimi, M. I., Popoola, J. O., Ogunlana, O. E., & Adetuyi, O. A. (2021). Antidiabetic and Antioxidant Activities of the Twigs of *Andrographis paniculata* on Streptozotocin-Induced Diabetic Male Rats. *BioChem*, 1, 238–249.
- Pandey, G., & Rao, C. H. (2018). *Andrographolide : its pharmacology , natural bioavailability and current approaches to increase its content in andrographispaniculata*. 11(6), 355–360. <https://doi.org/10.15406/ijcam.2018.11.00425>
- Pongoh, A. F., Queljoe, E. De, & Rotinsulu, H. (2020). Uji ANTIDIABETIK EKSTRAK ETANOL BUNGA PEPAYA (*Carica papaya* L.) TERHADAP TIKUS PUTIH JANTAN (*Rattus norvegicus*) YANG DIINDUKSI ALOKSAN. *Pharmacon*, 9(1), 160. <https://doi.org/10.35799/pha.9.2020.27423>
- Prihatini, R., Syarif, A., & Bakhtiar, A. (2020). Morphology Character and Andrographolide Quantifications on Sambiloto (*Andrographis paniculata* (Burm.F.) Nees) Karakter Morfologi dan Kuantifikasi Andrografolid Pada Sambiloto (*Andrographis paniculata* (Burm.F.) Nees). *Bioscience*, 4(1),

109. <https://doi.org/10.24036/0202041107669-0-00>

- Putri, D. S. D., Suwanti, L. T., & Meles, D. K. (2016). Efek Hepatoprotektif Ekstrak Daun Sambiloto (*Andrographis paniculata* Ness.) terhadap Gambaran Histopatologi Hepar Mencit (*Mus musculus* L.) yang Dipapar Timbal Asetat Per Oral. *Veterina Medika*, 9(3), 45–51.
- Ramachandran, A. (2014). Know the signs and symptoms of diabetes. *Indian J Med Res*, 140(5), 579–581.
- Rejeki, P. S., Putri, E. A. C., & Prasetya, R. E. (2018). Ovariektomi pada tikus dan mencit. In *Airlangga University Press*.
- Roy, P., Das, S., Bera, T., Mondol, S., & Mukherjee, A. (2010). Andrographolide nanoparticles in leishmaniasis: characterization and in vitro evaluations. *International Journal of Nanomedicine*, 5, 1113–1121. <https://doi.org/10.2147/IJN.S14787>
- Said, O. H., Okafor, C. J., Haji, H. T., Babu, P. B., Nayak, V. S., Obianagha, N. F., & Galano, E. S. (2021). Effect of Short and Long Term Restraint Stress on the Histology of Liver, Kidney and Suprarenal Gland in Albino Mice during Postweaning Period. *Journal of Pharmaceutical Research International*, January, 6–19. <https://doi.org/10.9734/jpri/2020/v32i4031029>
- Sari, K. R. P., Pratama, N. P., & Husna, N. (2020). Acute toxicity study of *Andrographis paniculata* (Burm. f.) Ness herbs and *Gynura procumbens* (Merr.) leaves extracts combination Studi toksisitas akut kombinasi ekstrak daun *Andrographis paniculata* (Burm. f.) dan *Gynura procumbens* (Merr.) Banyak tana. *Jurnal Imiah Farmasi*, 16(1), 39–51.
- Smith, M. J. De. (2021). *Statistical Analysis Handbook Concepts, Techniques and Software Tools* (2018th–2021st ed.). The Winchelsea Press, Drumlin Publications, Drumlin Security Ltd, UK.
- Sola, D., Rossi, L., Schianca, G. P. C., Maffioli, P., Bigliocca, M., Mella, R., Corliano, F., Paolo Fra, G., Bartoli, E., & Derosa, G. (2015). Sulfonylureas and their use in clinical practice. *Archives of Medical Science*, 11(4), 840–848. <https://doi.org/10.5114/aoms.2015.53304>
- Su, H., Mo, J., Ni, J., Ke, H., Bao, T., Xie, J., Xu, Y., Xie, L., & Chen, W. (2020). *Andrographolide Exerts Antihyperglycemic Effect through Strengthening Intestinal Barrier Function and Increasing Microbial Composition of Akkermansia muciniphila*. 2020.
- Sulistyo, H., Kurniawan, D. W., & Rujito, L. (2017). Biochemical and histopathological effects of green tea nanoparticles in ironized mouse model. *Research in Pharmaceutical Sciences*, 12(2), 99–106. <https://doi.org/10.4103/1735-5362.202448>
- Wan, Y., Garner, J., Wu, N., Phillip, L., & Han, Y. (2015). Review Article Guest Editor: Role of stem cells during diabetic liver injury Pathological features

of diabetic liver injury Mechanisms involved in the development of diabetic liver injury. *Journal of Cellular and Molecular Medicine*, XX(X), 1–9. <https://doi.org/10.1111/jcmm.12723>

Wang, J., Kang, Y., Pan, W., Lei, W., Feng, B., & Wang, X. (2016). Enhancement of Anti-Inflammatory Activity of Curcumin Using Phosphatidylserine-Containing Nanoparticles in Cultured Macrophages. *International Journal of Molecular Sciences*, 6, 1–19. <https://doi.org/10.3390/ijms17060969>

WHO. (2016). Global Report on Diabetes. *Isbn*, 978, 6–86. <http://www.who.int/about/licensing/>

Yaribeygi, H., Sathyapalan, T., Atkin, S. L., & Sahebkar, A. (2020). Molecular Mechanisms Linking Oxidative Stress and Diabetes Mellitus. *Oxidative Medicine and Cellular Longevity*, 2020. <https://doi.org/10.1155/2020/8609213>

