DAFTAR PUSTAKA

Agarwal, R. (2021). *CHRONIC KIDNEY DISEASE AND TYPE 2 DIABETES Pathogenesis of Diabetic Nephropathy*. http://diabetesjournals.org/compendia/article-pdf/2021/1/2/673350/db202112.pdf

Ahmad, A. A., Draves, S. O., & Rosca, M. (2021). Mitochondria in diabetic kidney disease. In *Cells* (Vol. 10, Issue 11). MDPI. https://doi.org/10.3390/cells10112945

Al-Hajj, N. Q., Algabr, M., Sharif, H. R., Aboshora, W., & Wang, H. (2016). In Vitro and in Vivo Evaluation of Antidiabetic Activity of Leaf Essential Oil of Pulicaria inuloides-Asteraceae. Journal of Food and Nutrition Research, 4(7):461-470. doi: 10.12691/jfnr-4-7-8

Alpers, C. E., & Hudkins, K. L. (2018). Pathology identifies glomerular treatment targets in diabetic nephropathy. Kidney research and clinical practice, 37(2), 106–111. https://doi.org/10.23876/j.krcp.2018.37.2.106

Alquier, T., Poitout, V. (2018). Considerations and guidelines for mouse metabolic phenotyping in diabetes research. Diabetologia 61, 526–538. https://doi.org/10.1007/s00125-017-4495-9

Banjarnahor, S. D., & Artanti, N. (2015). Antioxidant properties of flavonoids. *Medical Journal of Indonesia*, *23*(4), 239–44. https://doi.org/10.13181/mji.v23i4.1015

Barky, A.R., Hussein, S.A., Alm-Eldeen, A., & Mohamed, Y.A. (2017). Saponins and their potential role in diabetes mellitus. Diabetes management, 7, 148.

Canyilmaz, E., Uslu, G. H., Bahat, Z., Kandaz, M., Mungan, S., Haciislamoglu, E., Mentese, A., & Yoney, A. (2016). Comparison of the effects of melatonin and genistein on radiation-induced nephrotoxicity: Results of an experimental study. Biomedical reports, 4(1), 45–50. https://doi.org/10.3892/br.2015.547

Cao, X., Guo, X., Fang, X., Ru, S., & Li, E. (2022). Effects of Poncirin, a Citrus Flavonoid and Its Aglycone, Isosakuranetin, on the Gut Microbial Diversity and Metabolomics in Mice. Molecules (Basel, Switzerland), 27(11), 3641. https://doi.org/10.3390/molecules27113641

Chaudhuri, P. (2023). Basic Histological Techniques (MicroTechniques) for Staining of Animal Tissue. *UTTAR PRADESH JOURNAL OF ZOOLOGY*, *44*(24), 225–230. https://doi.org/10.56557/upjoz/2023/v44i243830

Cui, X., Li, Y., Yuan, S., Huang, Y., Chen, X., Han, Y., Liu, Z., Li, Z., Xiao, Y., Wang, Y., Sun, L., Liu, H., & Zhu, X. (2023). Alpha-kinase1 promotes tubular injury and *Interstitial inflammation* in diabetic nephropathy by canonical pyroptosis pathway. *Biological Research*, *56*(1). https://doi.org/10.1186/s40659-023-00416-7

Dini, M. I., & Susanti, E. (2022). Effect of Purple Sweet Potato Extract Administration on Total Cholesterol Level of Diabetic and High Fat Diet Wistar Rats. *PHARMADEMICA : Jurnal Kefarmasian Dan Gizi*, *2*(1), 9–20. https://doi.org/10.54445/pharmademica.v2i1.20

Djala, F. L., Lyrawati, D & Soeharto, S. (2016). Watermelon (Citrulus vulgaris) White Pulp Extract Decreases Total Cholesterol and Hydroxy-Methylglutaryl-CoA Reductase Activity in Hypercholesterolemic Rats. Jurnal Kedokteran Brawijaya. 29. 104-109. 10.21776/ub.jkb.2016.029.02.2.

Forst, T., Mathieu, C., Giorgino, F., Wheeler, D. C., Papanas, N., Schmieder, R. E., Halabi, A., Schnell, O., Streckbein, M., & Tuttle, K. R. (2022). New strategies to improve clinical

outcomes for diabetic kidney disease. BMC medicine, 20(1), 337. https://doi.org/10.1186/s12916-022-02539-2

Gheith, O., Farouk, N., Nampoory, N., Halim, M. A., & Al-Otaibi, T. (2015). Diabetic kidney disease: world wide difference of prevalence and risk factors. Journal of nephropharmacology, 5(1), 49–56.

Ginley, B., Jen, K. Y., Han, S. S., Rodrigues, L., Jain, S., Fogo, A. B., Zuckerman, J., Walavalkar, V., Miecznikowski, J. C., Wen, Y., Yen, F., Yun, D., Moon, K. C., Rosenberg, A., Parikh, C., & Sarder, P. (2021). Automated Computational Detection of Interstitial Fibrosis, Tubular Atrophy, and Glomerulosclerosis. Journal of the American Society of Nephrology : JASN, 32(4), 837–850. https://doi.org/10.1681/ASN.2020050652

Hall, J. E & Hall, M. E. (2021). Guyton and Hall Textbook of Medical Physiology 14th Edition

Handajani, F. (2021). *REVISI LAYOUT BUKU METODE MEMILIHAN DAN PEMBUATAN HEWAN* (S. Prabowo, Ed.). Zifatama Jawara.

Haryoto, H., & Devi, E. S. (2018). Efek Pemberian Ekstrak Etanol Daun Dan Batang Ubi Jalar Ungu (*Ipomoea batatas L*) Terhadap Penurunan Kadar Glukosa Darah Pada Tikus Jantan Galur Wistar Yang Diinduksi Aloksan. *Talenta Conference Series: Tropical Medicine (TM)*, *1*(3), 139–143. https://doi.org/10.32734/tm.v1i3.279

Hasan, I. H., Shaheen, S. Y., Alhusaini, A. M., & Mahmoud, A. M. (2024). Simvastatin mitigates diabetic nephropathy by upregulating farnesoid X receptor and Nrf2/HO-1 signaling and attenuating oxidative stress and inflammation in rats. Life sciences, 340, 122445. https://doi.org/10.1016/j.lfs.2024.122445

Herrmann, K., Pistollato, F., & Stephens, M. L. (2019). Food for thought … beyond the 3Rs: Expanding the use of human-relevant replacement methods in biomedical research. *Altex*, *36*(3), 343–352. https://doi.org/10.14573/altex.1907031

Hisamuddin, A. S. d. din Bin, Naomi, R., Manan, K. A. Bin, Bahari, H., Othman, F., Embong, H., Ismail, A., Ahmed, Q. U., Jumidil, S. H., Hussain, M. K., & Zakaria, Z. A. (2023). The role of lutein-rich purple sweet potato leaf extract on the amelioration of diabetic retinopathy in streptozotocin-induced Sprague–Dawley rats. *Frontiers in Pharmacology*, *14*. https://doi.org/10.3389/fphar.2023.1175907

Hisamuddin, A. S. din Bin, Naomi, R., Bin Manan, K. A., Bahari, H., Yazid, M. D., Othman, F., Embong, H., Hadizah Jumidil, S., Hussain, M. K., & Zakaria, Z. A. (2023). Phytochemical component and toxicological evaluation of purple sweet potato leaf extract in male Sprague–Dawley rats. *Frontiers in Pharmacology*, *14*. https://doi.org/10.3389/fphar.2023.1132087

Hoshino, J., Furuichi, K., Yamanouchi, M., Mise, K., Sekine, A., Kawada, M., Sumida, K., Hiramatsu, R., Hasegawa, E., Hayami, N., Suwabe, T., Sawa, N., Hara, S., Fujii, T., Ohashi, K., Kitagawa, K., Toyama, T., Shimizu, M., Takaichi, K., Ubara, Y., Wada, T. (2018). A new pathological scoring system by the Japanese classification to predict renal outcome in diabetic nephropathy. PloS one, 13(2), e0190923. https://doi.org/10.1371/journal.pone.0190923

International Diabetes Federation. (2021). *IDF Diabetes Atlas* (10th ed.). International Diabetes Federation. https://diabetesatlas.org

Ighodaro, O. M., Adeosun, A. M., & Akinloye, O. A. (2018). Alloxan-induced diabetes, a common model for evaluating the glycemic-control potential of therapeutic compounds and plants extracts in experimental studies. Medicina (Kaunas, Lithuania), 53(6), 365–374. https://doi.org/10.1016/j.medici.2018.02.001

Jameson, L. (2017). Harrison's endocrinology 4th Edition

Jia, R., Tang, C., Chen, J., Zhang, X., & Wang, Z. (2022). Total Phenolics and Anthocyanins Contents and Antioxidant Activity in Four Different Aerial Parts of Leafy Sweet Potato (*Ipomoea batatas L*). *Molecules*, *27*(10). https://doi.org/10.3390/molecules27103117

Kawanami, D., Matoba, K. & Utsunomiya, K. (2016). Dyslipidemia in diabetic nephropathy. Ren Replace Ther 2, 16. https://doi.org/10.1186/s41100-016-0028-0

Khairani, D., Ilyas, S., & Midoen, Y. H. (2024). *Prinsip dan Praktik Hewan Percobaan Mencit (Mus musculus) 01302024*. USU Press. https://www.researchgate.net/publication/378012780

Khristian, E., & Inderiati, D. (2017). *Bahan Ajar Teknologi Laboratorium Medis (TLM) SITOHISTOTEKNOLOGI*.

Klessens, C. Q. F., Zandbergen, M., Wolterbeek, R., Bruijn, J. A., Rabelink, T. J., Bajema, I. M., & Ijpelaar, D. H. T. (2017). Macrophages in diabetic nephropathy in patients with type 2 diabetes. *Nephrology Dialysis Transplantation*, *32*(8), 1322–1329. https://doi.org/10.1093/ndt/gfw260

Kolb, H., Kempf, K., Röhling, M. et al. Ketone bodies: from enemy to friend and guardian angel. BMC Med 19, 313 (2021). https://doi.org/10.1186/s12916-021-02185-0

Kurnia, D., Sagita, D., Hamidatul Aliyah, S., Studi Farmasi, P., & Tinggi Ilmu Kesehatan Harapan Ibu, S. (2021). PENGARUH EKSTRAK ETANOL DAUN UBI JALAR UNGU (*Ipomoea batatas L*) TERHADAP LEUKOSIT DAN LIMFOSIT MENCIT JANTAN BALB/C YANG DI INDUKSI VAKSIN HEPATITIS B. In *BIOSENSE* (Vol. 04, Issue 1).

Li, J., Wu, H., Liu, Y., & Yang, L. (2020). High fat diet induced obesity model using four strainsof mice: Kunming, C57BL/6, BALB/c and ICR. Experimental animals, 69(3), 326–335. https://doi.org/10.1538/expanim.19-0148

Liang, X., Ye, M., Tao, M., Zheng, D., Cai, R., Zhu, Y., Jin, J., & He, Q. (2020). The association between dyslipidemia and the incidence of chronic kidney disease in the general Zhejiang population: A retrospective study. *BMC Nephrology*, *21*(1). https://doi.org/10.1186/s12882-020-01907-5

Liu, N., Yan, X., Lv, B. *et al.* (2024). A study on the association between gut microbiota, inflammation, and type 2 diabetes. *Appl Microbiol Biotechnol* **108**, 213. https://doi.org/10.1007/s00253-024-13041-5

Liu, T., Xie, Q., Zhang, M., Gu, J., Huang, D., & Cao, Q. (2024). Reclaiming Agriceuticals from Sweetpotato (Ipomoea batatas [L.] Lam.) By-Products. In *Foods* (Vol. 13, Issue 8). Multidisciplinary Digital Publishing Institute (MDPI). https://doi.org/10.3390/foods13081180

Mahfudh, N., Mantali, M. F., & Sulistyani, N. (2022). Antioxidant and Antihyperlipidemic Effect of Purple Sweet Potato Leaf Extract (*Ipomoea batatas L*.) and Red Yeast Rice Combination In Hypercholesterol Rats. Indonesian Journal of Pharmacy, 33(1), 93-99. https://doi.org/10.22146/ijp.2115

Mahfudh, N., Sulistyani, N., Syakbani, M., & Dewi, A. C. (2021). The antihyperlipidaemic and hepatoprotective effect of *Ipomoea batatas L* Leaves extract in high-fat diet rats. *International Journal of Public Health Science*, *10*(3), 558–564. https://doi.org/10.11591/ijphs.v10i3.20777

Mazumder, A., Sanjana, Pentela, B., & Gupta, V. (2023). Phytotherapy for Diabetes: An Overview of Indian Traditional Plants with Saponins as a Phytoconstituent. Plant Science Today, 10(3), 48–57. https://doi.org/10.14719/pst.2021 (Original work published June 13, 2023)

Mescher, A. L. (2018). Junqueira's Basic Histology : Text and Atlas 15th edition

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

Namekawa, J., Takagi, Y., Wakabayashi, K., Nakamura, Y., Watanabe, A., Nagakubo, D., Shirai, M., & Asai, F. (2017). Effects of high-fat diet and fructose-rich diet on obesity, dyslipidemia and hyperglycemia in the WBN/Kob-Leprfa rat, a new model of type 2 diabetes mellitus. The Journal of Veterinary Medical Science, 79, 988 - 991.

Nisaa Nurzak, A., & Rizki Aulia, K. (2022). *UJI EFEKTIVITAS KADAR GLUKOSA EKSTRAK ETANOL DAUN UBI JALAR UNGU (IPOMOEA BATATAS L) TERHADAP MENCIT (MUS MUSCULUS)*.

Patala, R., Mandang, M. A., & Tandi, J. (2022). UJI EFEK EKSTRAK ETANOL DAUN PANDAN WANGI TERHADAP HISTOPATOLOGI GINJAL TIKUS PUTIH DIINDUKSI STREPTOZOTOCIN. *Farmakologika Jurnal Farmasi*, *1*.

Qi, C., Mao, X., Zhang, Z., & Wu, H. (2017). Classification and Differential Diagnosis of Diabetic Nephropathy. Journal of diabetes research, 2017, 8637138. https://doi.org/10.1155/2017/8637138

Raveendran, A. V., Chacko, E. C., & Pappachan, J. M. (2018). Non-pharmacological Treatment Options in the Management of Diabetes Mellitus. European endocrinology, 14(2), 31–39. https://doi.org/10.17925/EE.2018.14.2.31

Reverentia Yurista, S., Ferdian, R. A., & Sargowo, D. (2016). Jurnal Kardiologi Indonesia Principles of the 3Rs and ARRIVE Guidelines in Animal Research. *Jurnal Kardiologi Indonesia* •, *37*(3), 156–163.

Riaz, MA, Nisa, ZU, Anjum, MS dkk. Penilaian perubahan histopatologi dan ekspresi gen yang disebabkan oleh logam pada berbagai organ tikus non-diabetes dan diabetes. Sci Rep 10 , 5897 (2020). https://doi.org/10.1038/s41598-020-62807-0

Saeedi, P., Petersohn, I., Salpea, P., Malanda, B., Karuranga, S., Unwin, N., Colagiuri, S., Guariguata, L., Motala, A. A., Ogurtsova, K., Shaw, J. E., Bright, D., Williams, R., & IDF Diabetes Atlas Committee (2019). Global and regional diabetes prevalence estimates for 2019 and projections for 2030 and 2045: Results from the International Diabetes Federation Diabetes Atlas, 9th edition. Diabetes research and clinical practice, 157, 107843. https://doi.org/10.1016/j.diabres.2019.107843

Sahakyan, G., Vejux, A., & Sahakyan, N. (2022). The Role of Oxidative Stress-Mediated Inflammation in the Development of T2DM-Induced Diabetic Nephropathy: Possible Preventive Action of Tannins and Other Oligomeric Polyphenols. Molecules (Basel, Switzerland), 27(24), 9035. https://doi.org/10.3390/molecules27249035

Saing, M., Harahap, U., & Sitorus, P. (2024). Combination of purple sweet potato (Ipomoea batatas L.) leaf extract with metformin on blood glucose and total cholesterol levels of albino rats induced by high-fat diet and streptozotocin. International Journal of Basic & Clinical Pharmacology, 13(2), 203–207. https://doi.org/10.18203/2319-2003.ijbcp20240001

Saladin, K. S., Sullivan, S. J & Gan, C. A. (2017). Human Anatomy 5th edition

Shetty, S. S., & Kumari, S. (2021). Fatty acids and their role in type-2 diabetes (Review). Experimental and therapeutic medicine, 22(1), 706. https://doi.org/10.3892/etm.2021.10138

Shi, Q., Chen, J., Zou, X., & Tang, X. (2022). Intracellular Cholesterol Synthesis and Transport. Frontiers in cell and developmental biology, 10, 819281. https://doi.org/10.3389/fcell.2022.819281

Silintowe Kenta, Y., Tandi, J., & Lomo, B. T. (2018). UJI EKSTRAK DAUN UBI JALAR UNGU (Ipomoea batatas) TERHADAP PENURUNAN KADAR KOLESTEROL TIKUS PUTIH. *Farmakologika Farmasi Jurnal*, *1*.

Siregar, F. A., & Makmur, T. (2020). Metabolisme lipid dalam tubuh. Jurnal Inovasi Kesehatan Masyarakat, 1(2). https://doi.org/10.36656/jikm.v5i1

Su, X., Griffin, J., Xu, J., Ouyang, P., Zhao, Z., & Wang, W. (2019). Identification and quantification of anthocyanins in purple-fleshed sweet potato leaves. Heliyon, 5(6), e01964. https://doi.org/10.1016/j.heliyon.2019.e01964

Thipsawat, S. (2021). Early detection of diabetic nephropathy in patient with type 2 diabetes mellitus: A review of the literature. In *Diabetes and Vascular Disease Research* (Vol. 18, Issue 6). SAGE Publications Ltd. https://doi.org/10.1177/14791641211058856

Tortora, G. J., & Derrickson, B. (2017). Tortora Principles of Anatomy and Physiology 15th edition

Ula, A. I. ., Insani, G. T. ., Sulistiono, S., & Rahmawati, I. . (2024). Karakterisasi Morfologi Ubi Jalar (Ipomoea batatas). Prosiding Seminar Nasional Kesehatan, Sains Dan Pembelajaran, 3(1), 206–211. https://doi.org/10.29407/seinkesjar.v3i1.4512

Untari, M. K., & Pramukantoro, G. E. (2020). Aktivitas Antihiperkolesterolemia Ekstrak Etanol Daun Stevia Rebaudiana Bertoni Pada Tikus Putih Jantan. *Journal Syifa Sciences and Clinical Research*, *2*(1), 11–20. https://doi.org/10.37311/jsscr.v2i1.2700

Vekic, J., Stromsnes, K., Mazzalai, S., Zeljkovic, A., Rizzo, M., & Gambini, J. (2023). Oxidative Stress, Atherogenic Dyslipidemia, and Cardiovascular Risk. Biomedicines, 11(11), 2897. https://doi.org/10.3390/biomedicines11112897

Widiyani, T & Listyawati, S. (2022). Handbook Penggunaan Hewan Laboratorium dalam Uji in Vivo

Wu, T., Ding, L., Andoh, V., Zhang, J., & Chen, L. (2023). The Mechanism of Hyperglycemia-Induced Renal Cell Injury in Diabetic Nephropathy Disease: An Update. Life (Basel, Switzerland), 13(2), 539. https://doi.org/10.3390/life13020539

Xu, D., Xie, L., Cheng, C., Xue, F., & Sun, C. (2024). Triglyceride-rich lipoproteins and cardiovascular diseases. Frontiers in endocrinology, 15, 1409653. https://doi.org/10.3389/fendo.2024.1409653

Yunita, L., Lalel, H., & Manongga, S. P. (2020). *PENGARUH DIET BERAS HITAM, KACANG MERAH DAN DAUN KELOR (BETAMELOR) TERHADAP PERUBAHAN BERAT BADAN TIKUS SPRAGUE-DAWLEY Betamelor (black rice, red nut, moringa leaves) effects on body weight on Sprague-dawley*.

Zhao, L., Li, S., & Gao, Y. (2021). Efficacy of statins on renal function in patients with chronic kidney disease: a systematic review and meta-analysis. Renal failure, 43(1), 718–728. https://doi.org/10.1080/0886022X.2021.1915799