

## DAFTAR PUSTAKA

- Azisa, J. (2023). *Uji Efektivitas Ekstrak Etanol Daun Sirih Merah (Piper crocatum) Terhadap Kadar Trigliserida dan HDL Pada Mencit (Mus musculus)* The Effectivity Test of Red Beetle Leaves (Piper crocatum) Ethanol Extract on Triglyceride and HDL Levels in Mice (Mus musculus).
- Bayliss, G., Weinrauch, L. A., & D'Elia, J. A. (2012). Pathophysiology of obesity-related renal dysfunction contributes to diabetic nephropathy. In *Current Diabetes Reports* (Vol. 12, Issue 4, pp. 440–446). <https://doi.org/10.1007/s11892-012-0288-1>
- Cardiff, R. D., Miller, C. H., & Munn, R. J. (2014). Manual hematoxylin and eosin staining of mouse tissue sections. *Cold Spring Harbor Protocols*, 2014(6), 655–658. <https://doi.org/10.1101/pdb.prot073411>
- Charan, J., & Kantharia, N. (2013). How to calculate sample size in animal studies? In *Journal of Pharmacology and Pharmacotherapeutics* (Vol. 4, Issue 4, pp. 303–306). <https://doi.org/10.4103/0976-500X.119726>
- Christobed, A., Damma Purnawati, R., & Susilaningsih, N. (2017). Pengaruh Pemberian Ekstrak Daun Sirih Merah (Piper crocatum) Dosis Bertingkat Terhadap Proliferasi Limfosit Limpa Mencit BALB/C yang Diinfeksi Salmonella typhimurium. *Ratna Damma Purnawati, Neni Susilaningsih JKD*, 6(2), 337–346.
- Dahlan, M. S., & Napitulu, I. E. (2019). *Statistik Untuk Kedokteran dan Kesehatan*.
- Darmayanti, M. D., Samsuri, S., Setiasih, N. L. E., & Berata, I. K. (2020). Perubahan Histopatologi Ginjal Tikus Putih Setelah 21 Hari Mengkonsumsi Ragi Tape Kidney Histopathological Alteration Of White Rats After 21 Days Consumed Tape Yeast. *Indonesia Medicus Veterinus*, 9(6), 889–899. <https://doi.org/10.19087/imv.2020.9.6.889>
- Dharma, S., Fitrini, F., & Zulkarni, Z. (2020). Pengaruh Pemberian Ekstrak Daun Sirih Merah (Piper crocatum) Terhadap Kadar LDL Darah Mencit. *Majalah Farmasetika*, 4. <https://doi.org/10.24198/mfarmasetika.v4i0.25835>
- Eddy, A. A. (1996). Interstitial inflammation and fibrosis in rats with diet-induced hypercholesterolemia. *Kidney International*, 50(4), 1139–1149. <https://doi.org/10.1038/ki.1996.421>
- Eddy, A. A., Liu, E., & McCulloch, L. (1998). *Interstitial fibrosis in hypercholesterolemic rats: Role of oxidation, matrix synthesis, and proteolytic cascades with the technical assistance of*.

- Farris, A. B., & Colvin, R. B. (2012). Renal interstitial fibrosis: Mechanisms and evaluation. In *Current Opinion in Nephrology and Hypertension* (Vol. 21, Issue 3, pp. 289–300). <https://doi.org/10.1097/MNH.0b013e3283521cfa>
- Fauziyah, K. (2016). *Profil Tekanan Darah Normal Tikus Putih (Rattus norvegicus) Galur Wistar dan Sparague-Dawley Kanti Rahmi Fauziyah*.
- Frianto, F., Fajriaty, I., & Riza, H. (2015). *Evaluasi Faktor yang Memengaruhi Jumlah Perkawinan Tikus Putih (Rattus norvegicus) Secara Kualitas*.
- Gjermen, E., Kirstein, A. S., Kolbig, F., Kirchhof, M., Bundalian, L., Katzmann, J. L., Laufs, U., Blüher, M., Garten, A., & Le Duc, D. (2021). Obesity—an update on the basic pathophysiology and review of recent therapeutic advances. In *Biomolecules* (Vol. 11, Issue 10). MDPI. <https://doi.org/10.3390/biom11101426>
- Glastras, S. J., Chen, H., Teh, R., McGrath, R. T., Chen, J., Pollock, C. A., Wong, M. G., & Saad, S. (2016). Mouse models of diabetes, obesity and related kidney disease. *PLoS ONE*, 11(8). <https://doi.org/10.1371/journal.pone.0162131>
- Hariadini, A. L., Farmasi, J., Lawuningtyas Hariadini, A., Sidharta, B., Ebtavanny, T. G., Minanga, E. P., & Kunci, K. (2020). Pharmaceutical Journal of Indonesia Hubungan Tingkat Pengetahuan dan Ketepatan Penggunaan Obat Simvastatin pada Pasien Hipertolesterolemia di Apotek Kota Malang. In *Pharmaceutical Journal of Indonesia* (Vol. 2020, Issue 2). <http://.pji.ub.ac.id>
- Hidayat, M., Prahasuti, S., Fauziah, N., Maesaroh, M., Balqis, B., & Widowati, W. (2016). Modulation of adipogenesis-related gene expression by ethanol extracts of detam 1 soybean and jati belanda leaf in 3T3-L1 cells. *Bangladesh Journal of Pharmacology*, 11(3), 697–702. <https://doi.org/10.3329/bjp.v11i3.26471>
- Hong, N., Lin, Y., Ye, Z., Yang, C., Huang, Y., Duan, Q., & Xie, S. (2022). The relationship between dyslipidemia and inflammation among adults in east coast China: A cross-sectional study. *Frontiers in Immunology*, 13. <https://doi.org/10.3389/fimmu.2022.937201>
- Honzumi, S., Takeuchi, M., Kurihara, M., Fujiyoshi, M., Uchida, M., Watanabe, K., Suzuki, T., & Ishii, I. (2018). The effect of cholesterol overload on mouse kidney and kidney-derived cells. *Renal Failure*, 40(1), 43–50. <https://doi.org/10.1080/0886022X.2017.1419974>
- 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., ... Wada, T. (2018). A new pathological scoring system by the

- Japanese classification to predict renal outcome in diabetic nephropathy. *PLoS ONE*, 13(2). <https://doi.org/10.1371/journal.pone.0190923>
- Imran, A. K., Wicita, P. S., & Sapiun, Z. (2023). *Peningkatan Kelarutan Simvastatin Melalui Penambahan Bahan Pengompleks Sulfanilamid Prodi D3 Farmasi Jurusan Farmasi Poltekkes Kemenkes Gorontalo*. 8(1), 42–56. <https://doi.org/10.22216/jk.v5i2.5717>
- Jennette, J. C., Olson, J. L., Schwartz, M. M., & Silva, F. G. (2023). *Heptinstall's Pathology of the Kidney* (eight).
- Kartika, A. A., Siregar, H. C. H., & Fuah1, A. M. (2013). *Strategi Pengembangan Usaha Ternak Tikus (Rattus norvegicus) dan Mencit (Mus musculus) Di Fakultas Peternakan IPB Business Development Strategies of Rats (Rattus norvegicus) and Mice (Mus musculus) Farm at Faculty of Animal Science, IPB*.
- Klop, B., Elte, J. W. F., & Cabezas, M. C. (2013). Dyslipidemia in Obesity: Mechanisms and Potential Targets. In *Nutrients* (Vol. 5, Issue 4, pp. 1218–1240). MDPI AG. <https://doi.org/10.3390/nu5041218>
- Lai, Y., Liu, X., Wu, Y., Zhou, D., Wang, C., Niu, D., Han, W., Zhou, X., Chen, J., & Zheng, W. (2022). *Interstitial fibrosis and tubular atrophy measurement via hierarchical extractions of kidney and atrophy regions with deep learning method - ScienceDirect*.
- Lee, H. K., Jung, N. H., Lee, D. E., Lee, H., Yang, J., Kim, Y. S., Han, S. S., Han, N., Kim, I. W., & Oh, J. M. (2023). Discovery of Biomarkers Related to Interstitial Fibrosis and Tubular Atrophy among Kidney Transplant Recipients by mRNA-Sequencing. *Journal of Personalized Medicine*, 13(8). <https://doi.org/10.3390/jpm13081242>
- 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>
- Lister, I. (2020). *Daun Sirih Merah Manfaat untuk Kesehatan*. <https://jurnal.unprimdn.ac.id/index.php/ISBN/article/view/1137>
- Liu, E., & Fan, J. (2018). *Fundamentals of Laboratory Animal Science*.
- Lukman, M., & Christin, V. (2020). Analisis Profil Bobot Badan Tikus dan Gejala Toksis Pada Pemberian Ekstrak Etanol Daun Parang Romang (Boehmeria virgata) Terhadap Tikus Putih (Rattus norvegicus). *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 6(1), 1–6. <https://doi.org/10.22487/j24428744.2020.v6.i1.13928>

- Made Rina Yulinta, N., Tono Pasek Gelgel, K., Made Kardena, I., Fakultas Kedokteran Hewan, M., Mikrobiologii Fakultas Kedokteran Hewan, L., & Patologi Fakultas Kedokteran Hewan, laboratorium. (2013). Efek Toksisitas Ekstrak Daun Sirih Merah Terhadap Gambaran Mikroskopis Ginjal Tikus Putih Diabetik yang Diinduksi Aloksan (The Toxic Effect of Red Betel Leaf Extract on Mikroskopic Kidney in Alloxan Induced Diabetic Rats). *Buletin Veteriner Udayana*, 5(2).
- Masruroh, S., Nur Setia Restuti, A., Kesehatan, J., & Negeri Jember, P. (2020). Pengaruh Kombinasi Sari Jambu Biji Merah dan Buah Naga Merah terhadap Kadar Kolesterol Total Tikus Putih Hipercolesterolemia. In *Harena: Jurnal Gizi* (Vol. 4, Issue 1).
- McAninch, J. W., & Lue, T. F. (2020). *Smith and Tanagho's General Urology, 19th Edition*. McGraw-Hill Education.
- Mescher, A. L. (2021). *Histologi Dasar Junqueira Teks & Atlas Buku asli berstiker hologram 3 dimensi*.
- Mikolasevic, I., Žutelija, M., Mavrinac, V., & Orlic, L. (2017). Dyslipidemia in patients with chronic kidney disease: Etiology and management. In *International Journal of Nephrology and Renovascular Disease* (Vol. 10, pp. 35–45). Dove Medical Press Ltd. <https://doi.org/10.2147/IJNRD.S101808>
- Nand, N., Jain, D., Raghunandan, S., Giri, K., & Jain, P. (2018). Celiac disease with subnephrotic range proteinuria: an enigma unresolved. *Archive of Clinical Cases*, 05(04), 172–176. <https://doi.org/10.22551/2018.21.0504.10146>
- Nasution, D., Supriatna, A., Sutjiatmo, A. B., Nar Vikasari, S., Khalifa, K., Periodontal Fakultas Kedokteran Gigi Universitas Jenderal Achmad Yani, B., & Ilmu Kesehatan Masyarakat Fakultas Kedokteran Gigi Universitas Jenderal Achmad Yani, B. (2021). Uji Toksisitas Akut Ekstrak Daun Sirih Merah (*Piper crocatum*) Sebagai Bahan Terapi Poket Periodontal.
- Netter, F. H. (2022). *The Netter Collection of Medical Illustrations, 2 Edition Vol 5 - Urinary System*.
- Parfati, N., & Windono, T. (2016). *Media Pharmaceutica Indonesiana*.
- Pramesti, R., & Widayastuti, N. (2014). Pengaruh Pemberian Jus Daun Ubi Jalar (*Ipomoea batatas* (L.) Lam) Terhadap Kadar Kolesterol LDL Tikus Wistar Jantan (*Rattus norvegicus*) yang Diberi Pakan Tinggi Lemak.
- Qi, C., Mao, X., Zhang, Z., & Wu, H. (2017). Classification and differential diagnosis of diabetic nephropathy. In *Journal of Diabetes Research* (Vol. 2017). Hindawi Limited. <https://doi.org/10.1155/2017/8637138>

- Rahmawati, H. N. (2022). *Aktivitas Nefroprotektif Ekstrak Etanol Daun Sirih Merah (Piper crocatum) pada Kadar Asam Urat, Malondialdehid dan Histopatologi Ginjal Tikus.* <https://repository.unej.ac.id/handle/123456789/112905>
- Ramkumar, S., Raghunath, A., & Raghunath, S. (2016). Statin therapy: Review of safety and potential side effects. In *Acta Cardiologica Sinica* (Vol. 32, Issue 6, pp. 631–639). Republic of China Society of Cardiology. <https://doi.org/10.6515/ACS20160611A>
- Rifdah, R. (2023). *Potensi Ekstrak Daun Jati Belanda (Guazuma ulmifolia) Terhadap Perbaikan Histopatologi Ginjal dan Kadar Kreatinin Tikus Wistar dengan Pakan Tinggi Lemak.*
- Rizal K, M., Syamsulian, D., Meilina, R., & Haykal, M. (2023). Uji Efektivitas Antikolesterol Ekstrak Etanol Daub Sirih Merah (Piper Crocatum Ruiz & Pav) pada Tikus Putih Test of Anti-Colesterol Effectiveness of Red Beetle Leaves Ethanol Extract (Piper Crocatum Ruiz & Pav) on White Rats (Rattus Norvegicus). In *Journal of healthcare Technology and Medicine* (Vol. 9, Issue 2).
- Rosa, D. Y., Pgri, U., Cicilia, M., Primiani, N., & Bhagawan, W. S. (2023). Rendemen ekstrak etanol daun genitri (Elaeocarpus ganitrus) dari Magetan. In *Seminar Nasional Prodi Farmasi Unipma (snapfarma)* (Vol. 2023). <http://prosiding.unipma.ac.id/index.php/snapfarma>
- Sengupta, P. (2013). The Laboratory Rat: Relating Its Age with Human's. In *International Journal of Preventive Medicine* (Vol. 4, Issue 6). [www.ijpm.ir](http://www.ijpm.ir)
- Sharp, P. E., & Villano, J. (2013). *The laboratory rat.* CRC Press.
- Sherwood, L. (2016). *Sherwood Human Physiology From Cells to Systems 9th Edition.pdf.*
- Silva Junior, G. B. da, Bentes, A. C. S. N., Daher, E. D. F., & Matos, S. M. A. de. (2017). Obesity and kidney disease. In *Jornal brasileiro de nefrologia : 'orgao oficial de Sociedades Brasileira e Latino-Americana de Nefrologia* (Vol. 39, Issue 1, pp. 65–69). <https://doi.org/10.5935/0101-2800.20170011>
- Siska, S., & Bariroh, T. (2022). Anti-obesity Potency of Chili Extract in Male White Rat. In *Indonesian Journal of Pharmaceutical Science and Technology Journal Homepage* (Issue 2). <http://jurnal.unpad.ac.id/ijpst/>
- Talreja, O., Kerndt, C. C., & Cassagnol, M. (2023). *Simvastatin Continuing Education Activity Non-FDA-Approved Indications.* <https://www.ncbi.nlm.nih.gov/books/NBK532919/>

- Tandi, J., Lalu, R., Magfirah, Kenta, Y. S., & Nobertson, R. (2020). Uji Potensi Nefropati Diabetes Daun Sirih Merah (*Piper croatum Ruiz & Pav*) pada Tikus Putih Jantan (*Rattus norvegicus*). *Kovalen: Jurnal Riset Kimia*, 6(3), 239–251. <https://doi.org/10.22487/kovalen.2020.v6.i3.15323>
- Thadeus, M. S., Fauziah, C., Zulfa, F., & Anisah. (2019, November 17). *The Effect of Red Dragon Fruit Extract (*Hylocereus Polyrhizus*) on Membrane Lipid Peroxidation and Liver Tissue Damage Triggered by Hyperlipidemia in White Rats (*Rattus Norvegicus*)*. <https://doi.org/10.2991/ichs-18.2019.23>
- Tortora, G. J., & College, V. (2017). *Principles of Anatomy & Physiology 15th Edition Bryan Derrickson*.
- Turner, N., Goldsmith, D., Winearls, C., Himmelfarb, J., & Burns, G. J. (2015). *Oxford Textbook of Clinical Nephrology* (4th ed., Vol. 3).
- Wang, Z., Yang, S., Li, Y., Zhou, Y., Liu, D., Liu, J., DiSanto, M. E., & Zhang, X. (2023). Simvastatin Improves Benign Prostatic Hyperplasia: Role of Peroxisome-Proliferator-Activated Receptor- $\gamma$  and Classic WNT/ $\beta$ -Catenin Pathway. *International Journal of Molecular Sciences*, 24(5). <https://doi.org/10.3390/ijms24054911>
- Wati, D., Ilyas, S., & Yurnadi. (2024). *Prinsip Dasar Tikus sebagai Model Penelitian*.
- Wibawa, I. D. G. A. P., Sumadewi, K. T., & Cahyawati, P. N. (2022). Simvastatin Memperbaiki Degerasi Hidropsik dan Nekrosis Sel Hepatosit Mencit Subtotal Nefrektomi. *JBN (Jurnal Bedah Nasional)*, 6(1), 22. <https://doi.org/10.24843/jbn.2022.v06.i01.p04>
- Wilson, P. C., Kashgarian, M., & Moeckel, G. (2018a). Interstitial inflammation and interstitial fibrosis and tubular atrophy predict renal survival in lupus nephritis. *Clinical Kidney Journal*, 11(2), 207–218. <https://doi.org/10.1093/ckj/sfx093>
- Wilson, P. C., Kashgarian, M., & Moeckel, G. (2018b). Interstitial inflammation and interstitial fibrosis and tubular atrophy predict renal survival in lupus nephritis. *Clinical Kidney Journal*, 11(2), 207–218. <https://doi.org/10.1093/ckj/sfx093>
- Yuwono, S. (2015). *Tanaman Sirih Merah (*Piper crocatum*)*.