

DAFTAR PUSTAKA

- Achkar, I. W., Abdulrahman, N., Al-Sulaiti, H., Joseph, J. M., Uddin, S., & Mraiche, F. 2018. Cisplatin Based Therapy: The Role of the Mitogen Activated Protein Kinase Signaling Pathway. *Journal of translational medicine*, 16(1): 1-12.
- Aisyah, S., Gumelar, A. S., Maulana, M. S., & Amallia, R. H. T. 2023. Identifikasi Karakteristik Hewan Vertebrata Mamalia Tikus Putih (*Rattus norvegicus*) Berdasarkan Morfologi dan Anatominya. In *Prosiding Seminar Nasional Biologi*, 3(1): 484-493.
- Aldossary, S. A. 2019. Review on Pharmacology of Cisplatin: Clinical Use, Toxicity and Mechanism of Resistance of Cisplatin. *Biomedical and Pharmacology Journal*, 12(1): 7-15.
- Apriliani, S., Wiratmini, N. I., & Sukmaningsih, A. A. S. A. 2025. Diameter Lumen Trakea dan Bronkus Tikus (*Rattus norvegicus*) yang Diberi Infusa Bunga Telang (*Clitoria ternatea* L.) dan Paparan Asap Rokok Elektrik. *Buletin Anatomi dan Fisiologi*, 10(1): 1-9.
- Arif, J., Nasution, A. N., Nasution, S. W., Widowati, W., Dewi, N. S. M., & Kusuma, H. S. W. 2024. Antioxidant Activities and Potential Wound Healing Effects of Meniran (*Phyllanthus niruri*) Extract Gel. *Folia Medica Indonesiana*, 60(1): 69–77.
- Arunachalam, K., & Sasidharan, S. P. 2021. *Bioassays in Experimental and Preclinical Pharmacology*. Humana Press, Totowa.
- Atwa, A. M., Abd El-Ghafar, O. A., Hassanein, E. H., Mahdi, S. E., Sayed, G. A., Alruhaimi, R. S., ... & Mahmoud, A. M. 2022. Candesartan Attenuates Cisplatin-Induced Lung Injury by Modulating Oxidative Stress, Inflammation, and TLR-4/NF- κ B, JAK1/STAT3, and Nrf2/HO-1 Signaling. *Pharmaceuticals*, 15(10): 1-18.
- BPOM RI. 2014. *Pedoman Uji Toksisitas Nonklinik Secara In Vivo*. Badan Pengawasan Obat dan Makanan RI, Jakarta.
- Cealan, A., Coman, R. T., Simon, V., Andras, I., Telecan, T., Coman, I., & Crisan, N. 2019. Evaluation of the Efficacy of *Phyllanthus niruri* Standardized Extract Combined with Magnesium and Vitamin B6 for the Treatment of Patients with Uncomplicated Nephrolithiasis. *Medicine and Pharmacy Reports*, 92(2): 153-157.
- Charalampidis, C., Youroukou, A., Lazaridis, G., Baka, S., Mpoukovinas, I., Karavasilis, V., ... & Zarogoulidis, P. 2015. Pleura Space Anatomy. *Journal of thoracic disease*, 7(1): 27-32.

- Chobot, V., Hadacek, F., Bachmann, G., Weckwerth, W., & Kubicova, L. 2020. In Vitro Evaluation of Pro- and Antioxidant Effects of Flavonoid Tricetin in Comparison to Myricetin. *Molecules*, 25(5850): 1-11.
- Coşkun, Ö., Öztopuz, Ö., & Büyük, B. 2021. Possible Protective Activity of N-Acetyl Cysteine Against Cisplatin-Induced Hepatotoxicity in Rats. *Molecular Biology Reports*, 48(1): 637-644.
- Digambiro, R. A. & Parwanto, E. 2024. *Panduan Prosesing dan Pewarnaan Jaringan dalam Histopatologi*. Lakeisha, Klaten.
- Djaelani, M. A., Tana, S., & Mardiaty, S. M. 2025. Gambaran Preparat Histologis Hepar Tikus Putih (*Rattus norvegicus*) Dibuat dengan Metode Parafin dan Pewarnaan Hematoksilin-Eosin Menggunakan Beberapa Fiksatif. *Buletin Anatomi dan Fisiologi*, 10(1): 48-54.
- Eghbaliferiz, S., & Iranshahi, M. 2016. Prooxidant Activity of Polyphenols, Flavonoids, Anthocyanins and Carotenoids: Updated Review of Mechanisms and Catalyzing Metals. *Phytotherapy Research*, 30(9): 1379-1391.
- Elmorsy, E. A., Saber, S., Hamad, R. S., Abdel-Reheim, M. A., El-Kott, A. F., AlShehri, M. A., & Youssef, M. E. 2024. Advances in Understanding Cisplatin-Induced Toxicity: Molecular Mechanisms and Protective Strategies. *European Journal of Pharmaceutical Sciences*, 203(106939): 1-18.
- Farhiya, N., Norpalah, Anggraini, N. Y., Alfisyah, N., Agustin, N. S., & Nastiti, K. 2025. Peran Meniran (*Phyllanthus niruri*) sebagai Immunomodulator dalam Pengembangan Obat Tradisional (Review). *Jurnal Surya Medika (JSM)*, 11(2): 265-269.
- Fatirah, N., Gama, S. I., & Rusli, R. 2019. Pengujian Toksisitas Produk Herbal Secara In Vivo. *Proceeding of Mulawarman Pharmaceuticals Conferences*, 9: 14-21.
- Fitri, I., & Widiyawati, D. I. 2017. Efektivitas Antibakteri Ekstrak Herba Meniran (*Phyllanthus niruri*) terhadap Pertumbuhan Bakteri *Salmonella* sp. dan *Propionibacterium acnes*. *JST (Jurnal Sains dan Teknologi)*, 6(2): 300-310.
- Frianto, F., Fajriaty, I., & Riza, H. 2015. Evaluasi Faktor yang Mempengaruhi Jumlah Perkawinan Tikus Putih (*Rattus norvegicus*) Secara Kualitatif. *Jurnal Mahasiswa Farmasi Fakultas Kedokteran Untan*, 3(1):1-4.
- GBIF. 2025. *Phyllanthus niruri* L. <https://www.gbif.org/species/5381945>. Diakses pada 20 Juni 2025.

- GBIF. 2025. *Rattus norvegicus*. <https://www.gbif.org/species/2439261>. Diakses pada 20 Juni 2025.
- Ghosh, S. 2019. Cisplatin: The First Metal Based Anticancer Drug. *Bioorganic chemistry*, 88(102925): 1-20.
- Han, Y. K., Kim, J. S., Jang, G., & Park, K. M. 2021. Cisplatin Induces Lung Cell Cilia Disruption and Lung Damage via Oxidative Stress. *Free Radical Biology and Medicine*, 177: 270-277.
- Hansel, T. T., & Barnes, P.J. 2004. *An Atlas of Chronic Obstructive Pulmonary Disease*. Parthenon Publishing Group, London.
- Harijati, N., Samino, S., Indriyani, S., & Soewondo, A. 2017. *Mikroteknik dasar*. Universitas Brawijaya Press, Malang.
- Haryati, H., Saputra, M. H., & Wati, F. F. 2024. How to Manage Lung Injury Related to Cancer Therapy?. *Journal of Respiriology*, 11(1): 83-92.
- Hassanein, E. H., Sayed, G. A., Alzoghaibi, A. M., Alammar, A. S., Abdel-Wahab, B. A., Abd El-Ghafar, O. A., ... & Mahmoud, A. M. 2022. Azithromycin Mitigates Cisplatin-Induced Lung Oxidative Stress, Inflammation and Necroptosis by Upregulating SIRT1, PPAR γ , and Nrf2/HO-1 Signaling. *Pharmaceuticals*, 16(52): 1-18.
- Hikmah, U., & Triastuti, A. 2022. Mekanisme dan Senyawa Bioaktif Imunomodulator *Phyllanthus niruri* (meniran). *Jurnal Ilmiah Farmasi (Scientific Journal of Pharmacy)*, 18(2): 205-218.
- Kasiyati, & Tana, S. 2020. *Penanganan Hewan Coba*. Departemen Biologi, Fakultas Sains dan Matematika, Universitas Diponegoro.
- Kaur, N., Kaur, B., & Sirhindi, G. 2017. Phytochemistry and Pharmacology of *Phyllanthus niruri* L.: A Review. *Phytotherapy research*, 31(7): 980-1004.
- Kim, S. J., Cheresch, P., Jablonski, R. P., Williams, D. B., & Kamp, D. W. 2015. The Role of Mitochondrial DNA in Mediating Alveolar Epithelial Cell Apoptosis and Pulmonary Fibrosis. *International Journal of Molecular Sciences*, 16(9): 21486-21519.
- Kong, M. J., Bak, S. H., Han, K. H., Kim, J. I., Park, J. W., & Park, K. M. 2019. Fragmentation of Kidney Epithelial Cell Primary Cilia Occurs by Cisplatin and These Cilia Fragments are Excreted Into the Urine. *Redox biology*, 20: 38-45.
- Kurniawan, A., Syahrani, A. A., Mahanani, A. Y., Nugraheni, D. C., Rahmadani, M., & Arini, L. D. D. 2025. Pengaruh Ekstrak Pemberian Tumbuhan Meniran terhadap Kesehatan. *Jurnal Mahasiswa Ilmu Kesehatan*, 3(1): 39-46.

- Laeto, A. B., Inggarsih, R., Purnamasari, S., Diba, M. F., & Taharu, F. I. 2022. Analisis Profil Eritrosit Tikus Putih (*Rattus norvegicus*) Pasca Diet Vegetarian. *Sang Pencerah: Jurnal Ilmiah Universitas Muhammadiyah Buton*, 8(1): 107-118.
- Maheshwari, R., Gupta, A., Ganeshpurkar, A., Chourasiya, Y., Tekade, M., & Tekade, R. K. 2018. *Guiding Principles for Human and Animal Research During Pharmaceutical Product Development. In Dosage Form Design Parameters*. Academic Press, London.
- Marhaeny, H. D., Widyawaruyanti, A., Widiandani, T., Fuad Hafid, A., & Wahyuni, T. S. 2021. Phyllanthin and Hypophyllanthin, the Isolated Compounds of *Phyllanthus niruri* Inhibit Protein Receptor of Corona Virus (COVID-19) Through in Silico Approach. *Journal of basic and clinical physiology and pharmacology*, 32(4): 809-815.
- Maynard, R. L., & Downes, N. 2019. *Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research*. Academic Press, London.
- Meyerholz, D. K., Suarez, C. J., Dintzis, S. M., & Frevert, C. W. 2018. *9-Respiratory System In Comparative Anatomy and Histology*. Academic Press, London.
- Nastiti, K., Gusnianti, E., Azzahra, F., Alfisah, F., Saniah, H., & Khatimah, I. H. 2024. Meniran (*Phyllanthus niruri* L.) sebagai Antipiretik. *Sains Medisina*, 2(5): 178-181.
- Noviyanti, N. P. R., & Yowani, S. C. 2023. Potensi Aktivitas Hepatoprotektor dari Meniran (*Phyllanthus niruri* L.) pada Penderita Penyakit Hati. In *Prosiding Workshop dan Seminar Nasional Farmasi*, 2: 654-667.
- Nuryadi, N., Astuti, T. D., Utami, E. S., & Budiantara, M. 2017. *Dasar-Dasar Statistik Penelitian*. Sibuku Media, Yogyakarta.
- Octavia, Z. F., & Widyastuti, N. 2014. Pengaruh Pemberian Jus Daun Ubi Jalar (*Ipomoea batatas* (L.) Lam) terhadap Kadar Trigliserida Tikus Wistar Jantan (*Rattus norvegicus*) yang Diberi Pakan Tinggi Lemak. *Journal of Nutrition College*, 3(4): 838-847.
- Oktaviyana, E. T., & Utami, W. 2021. Efektivitas Agen Pendepleksi GSH pada Sitotoksitas Cisplatin terhadap Sel Kanker: Systematic Literature Review. *Pharmacon: Jurnal Farmasi Indonesia*, 18(2): 177-186.
- Oladipo, M., Sultana, S., Saganuwan, A., & Nwanko, H. 2023. Protective Effect of Chrysin Against Cisplatin Induced Pulmonary Toxicity in Wistar Rats. *World Cancer Research Journal*, 740: 1-9.

- Pandapotan, H., Fitriani, H., Hayati, F., & Syukri, Y. 2025. A Systematic Narrative Review: Kajian Farmakologi dan Toksikologi Meniran (*Phyllanthus niruri* L.). *Media Farmasi*, 21(1): 1-10.
- Parle, M., & Kadian, R. 2013. Behavioral Models of Psychosis. *International Research Journal of Pharmacy*, 4(7): 26–30.
- Parslow, V. R., Elmore, S. A., Cochran, R. Z., Bolon, B., Mahler, B., Sabio, D., & Lubeck, B. A. 2024. Histology Atlas of the Developing Mouse Respiratory System From Prenatal Day 9.0 Through Postnatal Day 30. *Toxicologic Pathology*, 52(4): 153-227.
- Perdana, P. G. R. W. 2021. Review Artikel: Aktivitas Imunomodulator Ekstrak Herba Meniran (*Phyllanthus niruri* L.). *Jurnal Farmasi Malahayati*, 4(1): 44-52.
- Rajashekar, C. B. 2023. Dual Role of Plant Phenolic Compounds as Antioxidants and Prooxidants. *American Journal of Plant Sciences*, 14(1): 15-28.
- Ranasinghe, R., Mathai, M. L., & Zulli, A. 2022. Cisplatin for Cancer Therapy and Overcoming Chemoresistance. *Heliyon*, 8(9): 1-17.
- Ransun, D., Utari, M. R., Jumadewi, A., Rasyid, R. A., Yuliana, I., Wilankrisna, L. A., Tangka, J. W., Rahmi, S., & Adam, Z. J. 2024. *Histologi*. Media Pustaka Indo, Cilacap.
- Rekabdar, T., Yousefi, M., Masoudifard, M., Zehtabvar, O., & Ahmadpanahi, S. J. 2024. Computed Tomographic Anatomy and Topography of the Lower Respiratory System of the Mature Rat (*Rattus norvegicus*). *Archives of Razi Institute*, 79(5): 981.
- Roselyn, A. P., Widiastuti, E. L., Susanto, G. N., & Sutyarso. 2016. Pengaruh Pemberian Taurin terhadap Gambaran Histopatologi Paru Mencit (*Mus musculus*) yang Diinduksi Karsinogen Benzo (α) Piren secara In Vivo. *Jurnal Natur Indonesia*, 17(1): 22-32.
- Santoso, R., & Andini, S. P. 2024. Kajian Aktivitas Farmakologi dan Mekanisme Aksi Polih herbal Ekstrak Pegagan, Meniran, dan Kencur: Literature Review. *Jurnal Komunitas Farmasi Nasional*, 4(2): 734-755.
- Santoso, S. 2018. *Panduan lengkap SPSS 25*. Elex Media Komputindo, Jakarta.
- Sengupta, P. 2013. The Laboratory Rat: Relating Its Age with Human's. *International journal of preventive medicine*, 4(6): 624-630.
- Setiawati, A. R., & Gunawan, S. 2023. Uji Fitokimia, Kapasitas Total Antioksidan, BSLT serta Kadar Total Fenolik pada Ekstrak Daun Meniran (*Phyllanthus niruri* L.). *Syntax Literate; Jurnal Ilmiah Indonesia*, 8(6): 4521-4528.

- Setiawati, C., Kamsina, K., Anova, I. T., Firdausni, F., & Diza, Y. H. 2021. Pengaruh Penambahan *Carboxyl Methyl Cellulose* (CMC) dan Asam sitrat terhadap Mutu dan Ketahanan Simpan Susu Jagung. *Indonesian Journal of Industrial Research*, 11(2): 131-137.
- Siswanto, D. H., Santoso, B., Imaduddin, F., & Istiqomah, S. 2024. *Melampaui Metode Konvensional: Ekstraksi Meniran Optimal Tanpa Kondensor pada Rotary Vacuum Evaporator*. Mega Press Nusantara, Sumedang.
- Soesanto, L. 2021. *Dahsyatnya Meniran Hijau: Gempur Berbagai Penyakit dan sebagai Anti-Virus*. Lily Publisher, Yogyakarta.
- Suckow, M. A., Hankenson, F. C., Wilson, R. P., & Foley, P. L. 2019. *The Laboratory Rat*. Academic Press, London.
- Sumiati, R. L., Baehaki, F., Nurdin, N., & Pakpahan, S. E. 2024. Ekstrak Daun Meniran (*Phyllanthus niruri* L.): Bagaimana Pengaruhnya terhadap Jumlah Trombosit di Dalam Darah?. *Stannum: Jurnal Sains dan Terapan Kimia*, 6(1): 48-56.
- Susanti, R., Fitriya, F. N., Kristantini, K., & Utomo, D. H. 2024. Anti-Inflammatory Effect of *Phyllanthus niruri*: A Meta-Analysis. *Biosaintifika: Journal of Biology & Biology Education*, 16(2): 332-341.
- Tambunan, R. M., Swandiny, G. F., & Zaidan, S. 2019. Uji Aktivitas Antioksidan dari Ekstrak Etanol 70% Herba Meniran (*Phyllanthus niruri* L.) Terstandar. *Jurnal Ilmu Kefarmasian*, 12(2): 60-64.
- Tang, Z., Du, W., Xu, F., Sun, X., Chen, W., Cui, J., ... & Dong, J. 2022. Icariside II Enhances Cisplatin-Induced Apoptosis by Promoting Endoplasmic Reticulum Stress Signalling in Non-Small Cell Lung Cancer Cells. *International journal of biological sciences*, 18(5): 2060-2074.
- Treuting, P. M., Dintzis, S. M., & Montine, K. S. 2017. *Comparative Anatomy and Histology: A Mouse, Rat, and Human Atlas*. Academic Press, London.
- Turner, P. V. 2014. *Rodent and Rabbit Welfare in the Research Environment. In Laboratory Animal Welfare*. Academic Press, London.
- Unver, E., Tosun, M., Olmez, H., Kuzucu, M., Cimen, F. K., & Suleyman, Z. 2019. The Effect of Taxifolin on Cisplatin-Induced Pulmonary Damage in Rats: A Biochemical and Histopathological Evaluation. *Mediators of inflammation*, 2019(3740867): 1-6.
- Wahyuni, D. S. C., Pangestika, M. W., Andriyani, D., Rinanto, Y., & Fatimah, S. The Effect of Cultivation Site Altitudes on the Quality Parameters of Meniran (*Phyllanthus niruri* L.). *Majalah Obat Tradisional*, 28(3): 157-163.

- Wang, X., Zhou, Y., Wang, D., Wang, Y., Zhou, Z., Ma, X., ... & Dong, Y. 2023. Cisplatin-Induced Ototoxicity: From Signaling Network to Therapeutic Targets. *Biomedicine & pharmacotherapy*, 157(114045): 1-15.
- Wardhono, A., & Lestari, Y. 2022. Tingkat Pemahaman Pengajar Perguruan Tinggi Terhadap Keberadaan Pusat Komisi Etik Penelitian dan Fungsi Etik Penelitian. *An-Nafah: Jurnal Pendidikan dan Keislaman*, 2(1), 1-7.
- Wati, D. P., Ilyas, S., & Yurnadi. 2024. *Prinsip Dasar Tikus sebagai Model Penelitian*. USU Press, Medan.
- Wu, C. H., Chou, W. C., Jou, I. M., Tu, Y. K., Ma, C. H., & Tsai, K. L. 2025. Cisplatin-Induced Oxidative Stress, Apoptosis, and Pro-Inflammatory Responses in Chondrocytes Through Modulating LOX-1. *Journal of Orthopaedic Surgery and Research*, 20(1): 206.
- Zhou, J., Nie, R. C., Yin, Y. X., Cai, X. X., Xie, D., & Cai, M. Y. 2022. Protective Effect of Natural Antioxidants on Reducing Cisplatin-Induced Nephrotoxicity. *Disease markers*, 2022(1): 1-17.