

DAFTAR PUSTAKA

- Adelina, R., Febriyanti, R., Oktoberia, I. S., & Intan, P. R., (2013). Ekstrak Daun Annona muricata Linn. sebagai Antiproliferasi terhadap Sel Hepar Tikus Terinduksi 7,12 Dimetilbenz [a] antracene (DMBA). *Jurnal Kefarmasian Indonesia*. 4(1), 1-12.
- Agata, A., Widiastuti, E. L., & Susanto, G. N. (2016). Respon histopatologis hepar mencit (mus musculus) yang diinduksi benzo (α) piren terhadap pemberian taurin dan ekstrak daun sirsak (Annona muricata). *Jurnal Natur Indonesia*. 16(2), 54-63.
- Amanda, K. dan Simon, B. W. (2014). Toksisitas Subakut Tepung Glukomanan (A. Muelleri Blume) Terhadap SGOT Dan Natrium Tikus Wistar Secara In Vivo. *Jurnal Pangan Agroindustri*. 2(1), 1-7.
- Angelini, P., Matei, F., Flores, G. A., Pellegrino, R. M., Vuguziga, L., Venanzoni, R., Tirillini, B., Emiliani, C., Orlando, G., Menghini, L., & Ferrante, C. (2021). *Metabolomic Profiling, Antioxidant and Antimicrobial Activity of Bidens pilosa*.
- Arifuddin, Asri, A., Elmatri. (2016). Efek Pemberian Vitamin C terhadap Gambaran Histopatologi Hati Tikus Wistar yang Terpapar Timbal Asetat. *Jurnal Kesehatan Andalas*. 5(1), 215-220.
- Armansyah, T., Sutriana, A., Aliza, D., Vanda, H., & Rahmi, E. (2010). Aktivitas Hepatoprotektif Ekstrak Etanol Daun Kucing-kucingan (Acalypha Indica L.) Pada Tikus Putih (Rattus Novergicus) Yang Diinduksi Parasetamol. *Jurnal Ilmu-Ilmu Peternakan*. 8(6), 292–298.
- Asiimwe, S., Borg-Karlsson, A.-K., Azeem, M., Maud Mugisha, K., Namutebi, A., & James Gakunga, N. (2014). Chemical composition and toxicological evaluation of the aqueous leaf extracts of Plectranthus amboinicus Lour. *International Journal of Pharmaceutical Science Invention*. 3(2), 19–27. www.ijpsi.org
- Bartolome, A. P., Villaseñor, I. M., & Yang, W. C. (2013). Bidens pilosa L. (Asteraceae): Botanical properties, traditional uses, phytochemistry, and pharmacology. *Evidence-Based Complementary and Alternative Medicine*, 2013. <https://doi.org/10.1155/2013/340215>
- Bosetti, C., Levi, F., Lucchini, F., Zatonski, W. A., Negri, E., & La Vecchia, C. (2007). Worldwide mortality from cirrhosis: An update to 2002. *Journal of Hepatology*. 46(5), 827–839. <https://doi.org/10.1016/j.jhep.2007.01.025>
- Bruha, R., Dvorak, K., & Petrtyl, J. (2012). Alcoholic liver disease. *World Journal of Hepatology*. 4(3), 81–90. <https://doi.org/10.4254/wjh.v4.i3.81>
- Cederbaum, A. I., Lu, Y., & Wu, D. (2009). Role of oxidative stress in alcohol-induced liver injury. *Archives of Toxicology*. 83(6), 519–548. <https://doi.org/10.1007/s00204-009-0432-0>
- Chiang, Y. M., Chuang, D. Y., Wang, S. Y., Kuo, Y. H., Tsai, P. W., & Shyur, L.

- F. (2004). Metabolite profiling and chemopreventive bioactivity of plant extracts from *Bidens pilosa*. *Journal of Ethnopharmacology*. 95, 409–419.
- Chiang, Y. M., Chang, C. L. T., Chang, S. L., Yang, W. C., Shyur, L. F. (2007). Cytopiloyne, a novel polyacetylenic glucoside from *Bidens pilosa*, functions as a T helper cell modulator. *J. Ethnopharmacol.* 110, 532-538.
- Darmawan, S. (2003). *Hati Dan Saluran Empedu*. Jakarta: Fakultas Kedokteran Universitas Indonesia.
- Day, L., Shikuma, C., & Gershenson, M. (2004). Mitochondrial injury in the pathogenesis of antiretroviral-induced hepatic steatosis and lactic acidemia. *Mitochondrion*. 4(2-3), 95–109. <https://doi.org/10.1016/j.mito.2004.06.011>
- Depkes RI. (2008). *Farmakope Herbal Indonesia*. Departemen Kesehatan Republik Indonesia, Jakarta
- Enomoto, N., Ikejima, K., Bradford, B. U., Rivera, C. a, Kono, H., Goto, M., Yamashina, S., Schemmer, P., Kitamura, T., Oide, H., & Takei, Y. (2000). Hepatology: microcirculation and pathogenesis of alcoholic liver injury. Role of Kupffer cells and gut-derived endotoxins in alcoholic liver injury. *J Gastroenterol Hepatol*. 20–25.
- Fernández-Checa, J. C. (2003). Alcohol-induced liver disease: when fat and oxidative stress meet. *Annals of Hepatology : Official Journal of the Mexican Association of Hepatology*. 2(2), 69–75. [https://doi.org/10.1016/s1665-2681\(19\)32144-1](https://doi.org/10.1016/s1665-2681(19)32144-1)
- Fitri, N. M. A., Haeni, L., & Mardliyah, E. (2018). Pengaruh Pemberian Ekstrak Etanol Kulit Batang Kelor (*Moringa oleifera Lam.*) sebagai Hepatoprotektor. *JIMKI: Jurnal Ilmiah Mahasiswa Kedokteran Indonesia*. 6(2), 55-62.
- Fox, J., Cohen, B. J., & Loew, F. M. (1984). *Laboratory Animal Medicine*. Florida: Academic Press.
- Gobel, C. Y. (2018). Sistem Pakar Penyakit Liver Menggunakan K- Nearest Neighbors Algoritm Berbasis Website. *ILKOM Jurnal Ilmiah*. 10(2), 152–159. <https://doi.org/10.33096/ilkom.v10i2.296.152-159>
- Guyton, A. C., & Hall, J. E. (2008). *Buku Ajar Fisiologi Kedoteran*. Jakarta: Penerbit Buku Kedokteran EGC.
- Hendri, Yanti, A. H., & Setyawati, T. R. (2017). Tingkat Kerusakan Hepatosit Mencit yang Diinduksi Alkohol 40%. *Jurnal Protobiont*. 6(1), 15–19.
- Hoek, J. B., Cahill, A., & Pastorino, J. G. (2002). Alcohol and mitochondria: A dysfunctional relationship. *Gastroenterology*. 122(7), 2049–2063. <https://doi.org/10.1053/gast.2002.33613>
- Ibo, L. K., & Arimukti, S. D. (2019). Studi etnobotani pada masyarakat sub-etnis Batak Toba di Desa Martoba, Kabupaten Samosir, Sumatera Utara Ethnobotanical study of Batak Toba sub-ethnic community in Martoba Village, Samosir District, North Sumatra. *Pros Sem Nas Masy Biodiv Indon*, 5(2), 234–241. <https://doi.org/10.13057/psnmbi/m050216>

- Ilaiyaraja, N & Khanum, F. (2011). Amelioration of Alcohol-Induced Hepatotoxicity and Oxidative Stress in Rats by Acorus Calamus. *Journal of Dietary Supplements*. 8(4), 331-345. DOI: 10.3109/19390211.2011.615805
- Indahsari, N. K., & DR, E. D. (2018). Potensi ekstrak daun kelor (Moringa oleifera) sebagai hepatoprotektor pada tikus putih (*Rattus norvegicus*) yang diinduksi parasetamol dosis toksik. *Jurnal Ilmiah Kedokteran Wijaya Kusuma*. 5(1), 58-66.
- Insani, A., Suri, S., & Berata, I. (2015). Gambaran Histopatologi Hati Tikus Putih Yang Diberikan Deksametason Dan Vitamin E. *Indonesia Medicus Veterinus*. 4(3), 228–237.
- Kartika, A. A., Siregar, H. C. H., & Fuah, A. M. (2013). Strategi pengembangan usaha ternak tikus. *STRATEGI PENGEMBANGAN USAHA TERNAK TIKUS (*Rattus Norvegicus*) DAN MENCIT (*Mus Musculus*) DI FAKULTAS PETERNAKAN IPB Business*, 01(3), 147–154.
- Kementerian Kesehatan Republik Indonesia. (2016). *Peraturan Menteri Kesehatan Republik Indonesia Nomor 6 Tahun 2016 tentang Formularium Obat Herbal Asli Indonesia*. <http://etd.lib.metu.edu.tr/upload/12620012/index.pdf>
- Kim, S. M., Kang, K., Jho, E. H., Jung, Y. J., Nho, C. W., Um, B. H., & Pan, C. H. (2011). Hepatoprotective effect of flavonoid glycosides from Lespedeza cuneata against oxidative stress induced by tert-butyl hyperoxide. *Phytotherapy Research*. 25(7), 1011-1017.
- Komang, M. S. W. N., Putu, T. N. L., & Nengah, A. I. (2014). Studi Pengaruh Lamanya Pemaparan Medan Magnet Terhadap Jumlah Sel Darah Putih (Leukosit) Pada Tikus Putih (*Rattus Norvegicus*). *Buletin Fisika*. 15(1), 31 - 38.
- Krisna, D., Atmodjo, P. K., & Arsiningtyas, I. S. (2022). Efek Pemberian Sari Buah Berenuk (*Crescentia cujete* L.) Terhadap Berat Mencit Galur Swiss-Webster (*Mus musculus*). *Biota: Jurnal Ilmiah Ilmu-Ilmu Hayati*. 108-120.
- Kumar, V, Abbas, AK., Fausto, N. 2009. Adaptasi, cedera dan kematian sel, dalam Robbins and Cotran: dasar patologi penyakit, 7th Ed, trans. BU Pendit, EGC, Jakarta, Hal. 13-37.
- Lima Silva, F., Fischer, D. C. H., Fechine Tavares, J., Sobral Silva, M., Filgueiras de Athayde-Filho, P., & Barbosa-Filho, J. M. (2011). Compilation of secondary metabolites from Bidens pilosa L. *Molecules*. 16(2), 1070-1102.
- Lindgren, A., Aldenborg, F., Norkrans, G., Olaison, L., & Olsson, R. (1997). Paracetamol-induced cholestatic and granulomatous liver injuries. *Journal of Internal Medicine*. 241(5), 435–439. <https://doi.org/10.1046/j.1365-2796.1997.117153000.x>
- Marwah, R. G., Fatope, M. O., Mahrooqi, R. Al, Varma, G. B., Abadi, H. Al, & Al-Burtamani, S. K. S. (2007). Antioxidant capacity of some edible and wound healing plants in Oman. *Food Chemistry*. 101(2), 465–470. <https://doi.org/10.1016/j.foodchem.2006.02.001>

- Maulina, M. (2018). *Zat Zat Yang Mempengaruhi Histopatologi Hepar*. Aceh: Unimal Press
- Mitchell, R. N., Kumar, V., Abbas, A. K., & Fausto, N. (2008). *Adaptasi Sel, Jejas Sel, dan Kematian Sel. Dalam: Buku Saku Dasar Patologis Penyakit*. EGC. Jakarta.
- Moore, K. L., & Dalley, A. F. (2006). *Clinically oriented anatomy*, 5th Ed, Lippincott Williams and Wilkins. Philadelphia.
- Muntiha, M., (2001). Teknik Pembuatan Preparat Histopatologi dari Jaringan Hewan dengan Pewarnaan Hematoksilin dan Eosin. *Temu Teknis NonPeneliti*. 156-163.
- Ojochegbe, A., Adejoh, I., Boniface, M., Duniya, S., & Anna, I. (2019). Activity of Methanol Extract of Leptadenia hastata Leaves in Alcohol- Induced Liver Injury. *Int. J. Adv. Multidiscip. Res.* 6(7), 11–18. <https://doi.org/10.22192/ijamr>
- Oliveira, F. Q., Andrade-Neto, V., Krettli, A. U., & Brandão, M. G. L. (2004). New evidences of antimalarial activity of Bidens pilosa roots extract correlated with polyacetylene and flavonoids. *Journal of Ethnopharmacology*. 93(1), 39–42. <https://doi.org/10.1016/j.jep.2004.03.026>
- Patel, R. (2011). Hepatoprotective effects of Plectranthus amboinicus (Lour) Spreng against carbon tetrachloric induced hepatotoxicity. *J. Nat Pharm.* 2(1) : 28-35.
- Pranoto, H., & Nugrahalia, M. (2020). Hepatoprotektif ekstrak etanol daun dan buah kersen (*Muntingia calabura* L.) pada tikus yang di induksi alkohol. *JBIO: Jurnal Biosians*. 6(2), 37–44. <https://doi.org/10.24114/jbio.v6i2.17938>
- Price, M. F., & Wilson , S. R. (1994). Cheminform Abstract: The Ester Enolate Carroll Rearrangement. *Chemischer Informationsdienst*, 15(31).
- Price, S. A. (2006). *Patofisiologi Konsep Klinis Proses-Proses Penyakit*. Jakarta: EGC-Penerbit Buku Kedokteran.
- Puspitasari, A. D., & Proyogo, L. S. (2017). Perbandingan Metode Ekstraksi Maserasi Dan Sokletasi Terhadap Kadar Fenolik Total Ekstrak Etanol Daun Kersen (*Muntingia calabura*). *Jurnal Ilmiah Cendekia Eksakta*. 1(1), 1-8.
- Rahmawati, I., & Sulistiyowati, T. I. (2021). Identifikasi Jenis Tumbuhan dari Famili Asteraceae Di Kawasan Wisata Irenggolo Kediri. *STIGMA: Jurnal Matematika Dan Ilmu Pengetahuan Alam Unipa*. 14(01), 40–47. <https://doi.org/10.36456/stigma.14.01.3614.40-47>
- Rajeh, M.A.B., Kwan, Y.P, Zakaria, Z., Latha, L.Y., Jothy, S.L., Sasidharan, S. (2012). Acute toxicity impacts of *Euphorbia hirta* L extract on behavior, organs body weight index and histopathology of organs of the mice and *Artemia salina*. *Pharmacognosy Res.* 4(3): 170–177.
- Robbins, S. L., Cotran, R. S., & Kumar, V. (2007). *Jejas, Adaptasi, dan Kematian Sel. Dalam: Buku Ajar Patologi I*. EGC. Jakarta.

- Robiyanto, R., Liana, J., & Purwanti, N. U. (2019). Kejadian Obat-Obatan Penginduksi Kerusakan Liver pada Pasien Sirosis Rawat Inap di RSUD Dokter Soedarso Kalimantan Barat. *Jurnal Sains Farmasi & Klinis*. 6(3), 274. <https://doi.org/10.25077/jsfk.6.3.274-285.2019>
- Roni, K. A., & Legiso. (2015). *Kimia Organik*. Palembang: NoerFikri Offset.
- Saraswati, T. R., Indraswari, E., & Nurani, N. (2009). Pengaruh Formalin, Diazepam Dan Minuman Beralkohol Terhadap Konsumsi Pakan, Minum Dan Bobot Tubuh Mus Musculus. *Jurnal Sains & Matematika*. 17(3), 141-144.
- Seran, L., Herak, R. (2022). Pembuktian Aktivitas Antibakteri Ekstrak Daun Ketul (Bidens pilosa L) Terhadap Pertumbuhan Escherechia Coli Secara Invitro. *Jurnal Ilmiah Universitas Batanghari Jambi*. 22(2), 1277-1282.
- Sihombing, M., & Tuminah, S. (2011). Perubahan nilai hematologi, biokimia darah, bobot organ dan bobot badan tikus putih pada umur berbeda. *Jurnal Veteriner*. 12(1), 58-64.
- Silitonga, M., & Situmorang, E. (2013). The effect of ethanol extract Coleus amboinicus L on antibody titer of white rats (Rattus norvegicus) trough SRBC as antigen. In *Proceedings of The Annual International Conference, Syiah Kuala University-Life Science & Engineering Chapter*. 3(1).
- Silitonga, M., Ilyas, S., Hutahaean, S., & Sipahutar, H. (2014). Levels of Apigenin and Immunostimulatory Activity of Leaf Extracts of Bangunbangun (Plectranthus Amboinicus Lour). *International Journal of Biology*, 7(1). <https://doi.org/10.5539/ijb.v7n1p46>
- Silitonga, M., Gultom, E. S., & Nugrahalia, M. (2020). The Effect of Plectranthus amboinicus Lour Spreng Ethanolic Extract on Relative Organ, Body Weights Changes, and Hematology Profile in Wistar Rats Treated with 7,12Dimethylbenz(a)anthracene. *Journal of Physics: Conference Series*, 1462(1), 012001. <https://doi.org/10.1088/1742-6596/1462/1/012001>
- Silitonga, M., Sinaga, E., Nugrahalia, M., & Silitonga, P. M. (2023). Hepatoprotective activity of ethanolic extract of Plectranthus amboinicus (lour.) spreng leaf in DMBA induced rats. *Toxicon*, 232, 107212. <https://doi.org/10.1016/j.toxicon.2023.107212>
- Silva, F. L., Fischer, D. C. H., Tavares, J. F., Silva, M. S., Filho, P. F., & Filho, J. M. B. (2011). Compilation of Secondary Metabolites from Bidens pilosa L. *Molecules*. 16, 1070-1102. <https://doi.org/10.3390/molecules16021070>
- Snell, R. S. (2012). *Anatomi klinis berdasarkan sistem*. Jakarta.
- Suckow, M. A., Steven, H. M., Craig, L. F. (2006). *The Laboratory Rat. 2nd Edition*. California: Academic Press.
- Sumayyah, S., & Salsabila, N. (2017). Obat Tradisional : Antara Khasiat dan Efek Sampingnya. *Majalah Farmasetika*. 2(5), 1-4. <https://doi.org/10.24198/farmasetika.v2i5.16780>
- Sonego, S. (2018). A study of the effects of chronic neuroinflammation on

- cognition and behaviour in the GFAP-IL6 transgenic mouse and investigation of the flavonoid apigenin as a neuroprotective agent [Thesis]. Western Sydney University/ Sydney.
- Sumayyah, S., & Salsabila, N. (2017). Obat Tradisional : Antara Khasiat dan Efek Sampingnya. *Farmasetika.Com (Online)*. 2(5), 1. <https://doi.org/10.24198/farmasetika.v2i5.16780>
- Susanty, & Bachmid, F. (2016). Perbandingan Metode Ekstraksi Maserasi dan Refluks Terhadap Kadar Fenolik Dari Ekstrak Tongkol Jagung (*Zea mays L.*). *Jurnal Konversi*. 5(2), 87.
- Suzuki, H., Asakawa, A., Kawamura, N., Yagi, T., & Inui, A. (2014). Hesperidin potentiates ghrelin signaling. *Recent patents on food, nutrition & agriculture*. 6(1), 60-63.
- Szabo, G., & Mandrekar, P. (2010). Focus on: Alcohol and the liver. *Alcohol Research and Health*, 33(1–2), 87–96.
- Tandi, J. (2017). Pola Penggunaan Obat Pada Pasien Penyakit Hati Yang Menjalani Rawat Inap Di Rumah Sakit Umum Daerah Undata Palu. *Perspektif: Jurnal Pengembangan Sumber Daya Insani*. 2(2), 218–223.
- Tolistiawaty, I., Widjaja, J., Sumolang, P. P. F., & Octaviani. (2014). Health Portrait of Mus musculus in Laboratory Condition. *Jurnal Vektor Penyakit*. 8(1), 27–32.
- Ubillas, R. P., Mendez, C. D., Jolad, S. D., Luo, J., King, S. R., Carlson, T. J., & Fort, D. M. (2000). Antihyperglycemic Acetylenic Glucosides from *Bidens pilosa*. *Planta Medica*. 66, 82-83.
- Wahyudi, A., Kusuma, F. H. D., & Andinawati, M. (2018). Hubungan antara kebiasaan mengkonsumsi minuman keras (alkohol) dengan kejadian gastritis pada remaja akhir (18-21 tahun) di asrama putra papua kota malang. *Nursing News: Jurnal Ilmiah Keperawatan*. 3(1).
- Waugh, A., & Grant, A. (2011). *Dasar-dasar anatomi dan fisiologi*. Jakarta: Salemba Medika.
- Widiartini, W., Siswati, E., Setiyawati, A., Rohmah, I. M., & Prastyo, E. (2013). Pengembangan usaha produksi tikus putih (*Rattus norvegicus*) tersertifikasi dalam upaya memenuhi kebutuhan hewan laboratorium. Fakultas Peternakan dan Pertanian, Universitas Diponegoro.
- Wibowo, D. S., & Paryana, W. (2009). *Anatomi tubuh manusia*. Bandung: Graha Ilmu.
- World Health Organisation. (2014). *Global status report on alcohol and health 2014*.
- Yang, W. (2014). Botanical, Pharmacological, Phytochemical, and Toxicological Aspects of the Antidiabetic Plant *Bidens pilosa* L. *Evidence-Based Complementary and Alternative Medicine*. 2014, 1–14.
- Yowa, M. K., Boro, T. L., Danong, M. T. (2019). Inventarisasi Jenis-Jenis

- Tumbuhan Berkhasiat Obat Tradisional Di Desa Umbu Langang Kecamatan Umbu Ratu Nggay Barat Kabupaten Sumba Tengah. *Jurnal Biotropikal Sains.* 16(1), 1-13.
- Yuan, L. P., Chen, F. H., Ling, L., Dou, P. F., Bo, H., Zhong, M. M., & Xia, L. J. (2008). Protective effects of total flavonoids of *Bidens pilosa* L.(TFB) on animal liver injury and liver fibrosis. *Journal of Ethnopharmacology.* 116(3), 539-546.
- Zakiah, N., Yanuarman, Y., Frengki, F., & Munazar, M. (2017). Aktifitas Hepatoprotektif Ekstrak Etanol Daun Sirsak (*Annona Muricata* L.) Terhadap Kerusakan Hati Tikus yang Diinduksi dengan Parasetamol. *Action: Aceh Nutrition Journal.* 2(1), 25. <https://doi.org/10.30867/action.v2i1.33>
- Zhang, A., Sun, H., & Wang, X. (2013). Recent advances in natural products from plants for treatment of liver diseases. *European Journal of Medicinal Chemistry.* 63, 570–577. <https://doi.org/10.1016/j.ejmech.2012.12.062>
- Zhou, T., Zhang, Y. J., Xu, D. P., Wang, F., Zhou, Y., Zheng, J., & Li, H. B. (2017). Protective effects of lemon juice on alcohol-induced liver injury in mice. *BioMed research international,* 2017.
- Zietz, M., Weckmüller, A., Schmidt, S., Rohn, S., Schreiner, M., Krumbein, A., & Kroh, L. W. (2010). Genotypic and climatic influence on the antioxidant activity of flavonoids in kale (*Brassica oleracea* var. *sabellica*). *Journal of Agricultural and Food Chemistry.* 58(4), 2123–2130. <https://doi.org/10.1021/jf9033909>