

DAFTAR PUSTAKA

- Abdi, G., Karande, V. C., Mohammed, A., Abbasi Tarighat, M., Wen Goh, K., Abdul Kari, Z., ... & Barwant, M. M. 2022. Pharmacological potential of *Sargassum* sp. of west coast of Maharashtra Kunkeshwar, India. *Frontiers in Marine Science*, 9, 1011218.
- Abou-Seif, H. S., & Hozayen, W. G. 2023. *Origanum majorana* L. extract alleviates dexamethasone-induced hepatotoxicity, oxidative stress and pathological alterations in vivo. *Bulletin of the National Research Centre*, 47(1), 39.
- Abou-Seif, H. S., Hozayen, W. G., & Hashem, K. S. 2019. *Thymus vulgaris* extract modulates dexamethasone induced liver injury and restores the hepatic antioxidant redox system. *Beni-Suef University Journal of Basic and Applied Sciences*, 8, 1-9.
- Adar, T., Ben Ya'acov, A., Shabat, Y., Mizrahi, M., Zolotarov, L., Lichtenstein, Y., & Ilan, Y. 2022. Steroid-mediated liver steatosis is CD1d-dependent, while steroid-induced liver necrosis, inflammation, and metabolic changes are CD1d-independent. *BMC gastroenterology*, 22(1), 169.
- Adikara, I. P. A., Winaya, I. B. O., & Sudira, I. W. 2013. Studi histopatologi hati tikus putih (*Rattus norvegicus*) yang diberi ekstrak etanol daun kedondong (*Spondias Dulcis* G. Forst) secara oral'. *Buletin Veteriner Udayana*, 5(2), 107-113.
- Ahmed, S. A., Abd El Reheem, M. H., & Elbahy, D. A. 2022. l-Carnitine ameliorates the osteoporotic changes and protects against simvastatin induced myotoxicity and hepatotoxicity in glucocorticoid-induced osteoporosis in rats. *Biomedicine & Pharmacotherapy*, 152, 113221.
- Ahsan, R., Islam, K. M., Musaddik, A., & Haque, E. 2009. Hepatoprotective activity of methanol extract of some medicinal plants against carbon tetrachloride induced hepatotoxicity in albino rats. *Global Journal of pharmacology*, 3(3), 116-122.
- Almazroo, O. A., Miah, M. K., & Venkataramanan, R. 2017. Drug metabolism in the liver. *Clinics in liver disease*, 21(1), 1-20.
- Amalina, N. 2009. *Uji toksisitas akut ekstrak Valerian (Valeriana officinalis) terhadap hepar Mencit Balb/C* (Doctoral dissertation, Medical faculty).
- Anggadiredja, J. T., Zatnika, A., Purwoto, H., & Istini, S. 2008. Rumput Laut, Pembudidayaan, Pengolahan dan Kompositas Perikanan Potensial. *Penebar Surabaya. Jakarta*.

- Aslan, L. O. M., Supendy, R., Taridala, S. A. A., Hafid, H., Sifatu, W. O., Sailan, Z., & Niampe, L. 2018. Income of seaweed farming households: a case study from Lemo of Indonesia. In *IOP Conference Series: Earth and Environmental Science* (Vol. 175, p. 012221). IOP Publishing.
- Baleta, F. N., Bolaños, J. M., Ruma, O. C., Baleta, A. N., & Cairel, J. D. 2017. Phytochemicals screening and antimicrobial properties of *Sargassum oligocystum* and *Sargassum* sp. Extracts. *Journal of Medicinal Plants*, 5(1), 382-387.
- Baston, E., & Leroux, F. R. 2007. Inhibitors of steroidal cytochrome p450 enzymes as targets for drug development. *Recent patents on anti-cancer drug discovery*, 2(1), 31-58.
- Beaupere, C., Liboz, A., Fève, B., Blondeau, B., & Guillemain, G. 2021. Molecular mechanisms of glucocorticoid-induced insulin resistance. *International journal of molecular sciences*, 22(2), 623.
- Berata IK, Adi AAAM, Winaya IBO, Adnyana I BW, dan Kardena IM. 2020. Patologi Veteriner Umum. Cetakan Edisi Revisi. Swasta Nulus : Denpasar Bali
- Bhat, G. N., Nayak, N., Vinodraj, K., Chandralekha, N., Mathai, P., & Cherian, J. 2015. Comparison of the efficacy of cardamom (*Elettaria cardamomum*) with pioglitazone on dexamethasone-induced hepatic steatosis, dyslipidemia, and hyperglycemia in albino rats. *Journal of advanced pharmaceutical technology & research*, 6(3), 136-140.
- Boorman, G. A., Eustis, S. L., Elwell, M. R., Montgomery Jr, C. A., & Mackenzie, W. I. 1990. *Pathology of the Fischer rat: reference and atlas* (pp. 295-313). San Diego: Academic Press.
- Chen, L., Deng, H., Cui, H., Fang, J., Zuo, Z., Deng, J., ... & Zhao, L. 2017. Inflammatory responses and inflammation-associated diseases in organs. *Oncotarget*, 9(6), 7204.
- Divari, S., De Lucia, F., Berio, E., Sereno, A., Biolatti, B., & Cannizzo, F. T. 2020. Dexamethasone and prednisolone treatment in beef cattle: influence on glycogen deposition and gene expression in the liver. *Domestic Animal Endocrinology*, 72, 106444.
- Dumanauw, J. M., Barung, E. N., & Korobu, R. I. 2015. Pengaruh Pemberian Seduhan Teh Hijau Dan Teh Hitam (*Camelia sinensis* L.) Sebagai Hepatoprotektor Terhadap Fungsi Hati Pada Tikus Putih Yang Diinduksi Parasetamol. *Infokes-Jurnal Ilmu Kesehatan*, 9(2), 110-116.
- El Rashed, Z., Grasselli, E., Khalifeh, H., Canesi, L., & Demori, I. 2022. Brown-algae polysaccharides as active constituents against nonalcoholic fatty liver disease. *Planta Medica*, 88(01), 9-19.

- Ericson-Neilsen, W., & Kaye, A. D. 2014. Steroids: pharmacology, complications, and practice delivery issues. *Ochsner Journal*, 14(2), 203-207.
- Fatayat AF, I. 2023. Gambaran Mikroskopik Pada Hepar Tikus putih Setelah Pemberian Madu Sebagai Anti Adhesi Pasca Laparotomi (Doctoral dissertation, Kedokteran).
- Fernando, I. S., Nah, J. W., & Jeon, Y. J. 2016. Potential anti-inflammatory natural products from marine algae. *Environmental Toxicology and Pharmacology*, 48, 22-30.
- Fitriani, R. N., Sitasiwi, A. J., & Isdadiyanto, S. 2020. Struktur hepar dan rasio bobot hepar terhadap bobot tubuh mencit (*Mus musculus* L.) jantan setelah pemberian ekstrak etanol daun mimba (*Azadirachta indica* A. Juss). *Buletin Anatomi dan Fisiologi*, 5(1), 75-83.
- Fortes, R. C. 2017. Nutritional implications in chronic liver diseases. *Journal of Liver Research, Disorders & Therapy*, 3(5), 00071.
- Hamed, A. M., Elbahy, D. A., Ahmed, A. R., Thabet, S. A., Refaei, R. A., Ragab, I., ... & Abouelella, A. M. 2024. Comparison of the efficacy of curcumin and its nano formulation on dexamethasone-induced hepatic steatosis, dyslipidemia, and hyperglycemia in Wistar rats. *Heliyon*, 10(24).
- Hammadi Jasim, N., D Kareem, A., Ali, M. A., & Abbas, B. A. 2022. Effect of Long-Term Treatment with Dexamethasone on the Liver and Kidney Histopathology, as well as Blood Biochemistry in Male Rabbits (*Lepus Cuniculus*). *Archives of Razi Institute*, 77(1), 333-343.
- Handajani, F., Permana, I. G. P. B. T., Taruna, D., & Untari, N. K. S. D. 2023. Efek Pemberian Eucheuma spinosum sebagai Profilaksis dalam Penghambatan Peningkatan SGPT pada Tikus yang Diinduksi Dexamethasone. *Hang Tuah Medical Journal*, 21(1), 10-24.
- Hasana, A. N., Sitasiwi, A. J., & Isdadiyanto, S. 2019. Hepatosomatik indeks dan diameter hepatosit mencit (*Mus musculus* L.) betina setelah paparan ekstrak etanol daun mimba (*Azadirachta indica* Juss.). *Jurnal Pro-Life*, 6(1), 1-12.
- Hastuti, U. S. 2006. Pengaruh berbagai dosis citrinin terhadap kerusakan struktur hepatosit mencit (*Mus musculus*) pada tiga zona lobulus hepar. *Jurnal Kedokteran Brawijaya*, 22(3), 121-126.
- Hidayah, A., Putu Suastika, Ketut Budiasa, Samsuri, I Ketut Berata, Luh Made Sudimartini. 2022. Gambaran Histopatologi Hati Tikus Putih yang Diberikan Ragi Tape. *Buletin Veteriner Udayana*, 14 (3), 246-254.
- Hira, K., Farhat, H., Sohail, N., Ansari, M., Ara, J., & Ehteshamul-Haque, S. 2021. Hepatoprotective activity against acetaminophen-induced liver dysfunction

- and GC-MS profiling of a brown algae *Sargassum ilicifolium*. *Clinical Phytoscience*, 7, 1-11.
- Hortelano, S. 2009. Molecular basis of the anti-inflammatory effects of terpenoids. *Inflammation & Allergy-Drug Targets (Formerly Current Drug Targets-Inflammation & Allergy) (Discontinued)*, 8(1), 28-39.
- Hotmian, E., Suoth, E., Fatimawali, F., & Tallei, T. 2021. Analisis GC-MS (gas chromatography-mass spectrometry) ekstrak metanol Dari Umbi Rumput Teki (*Cyperus rotundus* L.). *Pharmacon*, 10(2), 849-856.
- Husni, A., Ustadi, U., & Hakim, A. 2014. Penggunaan ekstrak rumput laut *Padina* sp. untuk peningkatan daya simpan filet nila merah yang disimpan pada suhu dingin. *Agritech*, 34(3), 239-246.
- Idrus, L. S., Fristiohady, A., Arfan, A., Jannah, S. R. N., Anwar, I., Sida, N. A., ... & Yodha, A. W. M. 2023. Potensi Hepatoprotektor dan Antioksidan dari Rimpang Olae (*Etlingera calophrys* (K. Schum) AD Poulsen). *Jurnal Mandala Pharmacon Indonesia*, 9(2), 475-483.
- Inceu, A. I., Neag, M. A., Catinean, A., Bocsan, C. I., Craciun, C. I., Melincovici, C. S., ... & Buzoianu, A. D. 2023. The Effects of Probiotic Bacillus Spores on Dexamethasone-Treated Rats. *International Journal of Molecular Sciences*, 24(20), 15111.
- Indrawati, A., Baharuddin, S., & Kahar, H. 2022. Uji Aktivitas Antioksidan Ekstrak Batang Tanaman Ungu (*Graptophyllum pictum* (L.) Griff) Kabupaten Takalar Menggunakan Pereaksi DPPH Secara Spektrofotometri Visibel. *Lambung Farmasi: Jurnal Ilmu Kefarmasian*, 3(1), 69-77.
- 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.
- Istiqomah, N., Fatikasari, S., & Hutuba, A. H. 2023. Kajian in Silico Daun Sungkai (*Peronema canescens*) dalam Menghambat Enzim lanosterol 14- α demethylase Jamur *Candida albicans*. *Indonesian Journal of Pharmaceutical Education*, 3(1).
- Jothy, S. L., Zakaria, Z., Chen, Y., Lau, Y. L., Latha, L. Y., & Sasidharan, S. 2011. Acute oral toxicity of methanolic seed extract of *Cassia fistula* in mice. *Molecules*, 16(6), 5268-5282.
- Junaidi, A., & Ramadhania, Z. M. 2018. Potensi silymarin (Hepamax) sebagai suplemen dan terapi penunjang pada gangguan liver. *Farmaka Journal*, 16, 213-221.

- Kadhim, D. A., Ashraf R. M. A., & Hala K. J. 2023. Histopathological Effect of Dexamethasone Drug on Some Organs of Female Albino Rats. *International Journal of Advance Multidisciplinary Research and Studies*, 3(2), 1196-1200.
- Kadi, A. (2005). Beberapa catatan kehadiran marga *Sargassum* di perairan Indonesia. *Oseana*, 30(4), 19-29.
- Khurana, N., Ishar, M. P. S., Gajbhiye, A., & Goel, R. K. 2011. PASS assisted prediction and pharmacological evaluation of novel nicotinic analogs for nootropic activity in mice. *European journal of pharmacology*, 662(1-3), 2230.
- Kresnadipayana, D., Soebiyanto, S., & Ningsih, S. A. P. 2022. Pengaruh Pemberian Bleng Terhadap Kadar Sgot Dan Sgpt Serta Histopatologi Tikus Putih Galur Wistar. *Prosiding Asosiasi Institusi Pendidikan Tinggi Teknologi Laboratorium Medik Indonesia*, 1, 72-90.
- Kumalasari, D. E., Sulistiyowati, H., & Setyati, D. 2018. Komposisi jenis alga makrobentik divisi phaeophyta di zona intertidal pantai pancer taman nasional alas purwo. *Berkala Sainstek*, 6(1), 28-30.
- Kumar, V. H., Im, N. N., Huilgol, S. V., Yendigeri, S. M., Narendar, K., & Rajasekhar, C. H. 2015. Dose dependent hepatic and endothelial changes in rats treated with dexamethasone. *Journal of clinical and diagnostic research: JCDR*, 9(5), FF08.
- Laia, Y., Aulia, Y., Sahara, M., & Masdalena, S. M. 2019. Uji aktivitas hepatoprotektor ekstrak etanol daun senggani (*Melastoma malabathricum* L) terhadap tikus (*Rattus novergicus*) yang diinduksi parasetamol. *Biospecies*, 12(2), 1-8.
- Lailatul, N. F., Diana, L. Y., & Mudjiwijono, H. 2015. Efek pemberian asam alfa lipoat terhadap kadar MDA dan gambaran histologi pada hati tikus model diabetes melitus tipe 1. *Jurnal Kedokteran Brawijaya*, 28(3), 170-177.
- Lee, Y. H., Kim, H. R., Yeo, M. H., Kim, S. C., Hyun, H. B., Ham, Y. M., ... & Chang, K. S. 2023. Anti-obesity potential of *Sargassum horneri* and *Ulva australis* extracts: study in vitro and in vivo. *Applied Sciences*, 13(15), 8951.
- Lestari, P. A., Siregar, Z. S., Putri, F., & Fitri, R. 2023. Identifikasi Alga Makroskopis di Kawasan Pantai Carolina Kota Padang. In *Prosiding Seminar Nasional Biologi*, 3, (1): 967-976.
- Lim, M. W., Yow, Y. Y., & Gew, L. T. 2023. LC–MS profiling-based non-targeted secondary metabolite screening for deciphering cosmeceutical potential of Malaysian algae. *Journal of Cosmetic Dermatology*, 22(10), 2810-2815.
- Loho, I. M., & Hasan, I. 2014. Drug-induced liver injury–tantangan dalam diagnosis. *Cermin Dunia Kedokteran*, 41(3), 398608.

- Lutfiawan, M. 2015. Analisis pertumbuhan *Sargassum* sp. dengan sistem budidaya yang berbeda di Teluk Ekas Lombok Timur sebagai bahan pengayaan mata kuliah Ekologi Tumbuhan. *Jurnal Biologi Tropis*.
- Madiah, R. N., Malini, D. M., Faiza, A. H., & Iskandar, J. 2017. Uji toksisitas akut ekstrak etanol kulit buah jengkol (*Archidendron pauciflorum*) terhadap tikus Wistar betina. *Prom Sem Nas Masy Biodiv Indon*, 3, 33-8.
- Mahmoud, M. F., Ali, N., Mahdi, I., Mouhtady, O., Mostafa, I., El-Shazly, A. M., ... & Sobeh, M. 2023. Coriander essential oil attenuates dexamethasone-induced acute liver injury through potentiating Nrf2/HO-1 and ameliorating apoptotic signaling. *Journal of Functional Foods*, 103, 105484.
- Mahmoud, M. F., Ali, N., Mostafa, I., Hasan, R. A., & Sobeh, M. 2022. Coriander oil reverses dexamethasone-induced insulin resistance in rats. *Antioxidants*, 11(3), 441.
- Mahmoud, M. F., Mahdi, I., Ali, N., Dib, H., El-Shazly, A. M., Mostafa, I., ... & Sobeh, M. 2024. Black pepper (*Piper nigrum* L.) essential oil counteracts dexamethasone-induced hepatic injury via modulating PGC-1 α /PPAR- α pathway in rats. *Arabian Journal of Chemistry*, 17(4), 105690.
- Manzelat, S. F., Mufarrah, A. M., Hasan, B. A., & Hussain, N. A. 2018. Macro algae of the Red Sea from Jizan, Saudi Arabia. *Phykos*, 48(1), 88-108.
- Maulina, M. 2018. Zat-Zat yang Mempengaruhi Histopatologi Hepar. Unimal Press, Lhokseumawe.
- Mawout, A. R. N., & Medou, F. M. 2020. Acute and Subacute Effects Of Aqueous Extract of *Picralima nitida* Seeds on Dexamethasone Induced Insulin Resistance in Rats. *Annals of Biological sciences*.
- Meinita, M. D. N., Harwanto, D., Sohn, J. H., Kim, J. S., & Choi, J. S. 2021. Hizikia fusiformis: pharmacological and nutritional properties. *Foods*, 10(7), 1660.
- Meriam, W. P. M., Kepel, R. C., & Lumingas, L. J. 2016. Inventarisasi Makroalga Di Perairan Pesisir Pulau Mantehage Kecamatan Wori, Kabupaten Minahasa Utara, Provinsi Sulawesi Utara. *Jurnal Ilmiah Platax*, 4(2), 2302-3589.
- Mordue, D. G., Monroy, F., La Regina, M., Dinarello, C. A., & Sibley, L. D. 2001. Acute toxoplasmosis leads to lethal overproduction of Th1 cytokines. *The Journal of Immunology*, 167(8), 4574-4584.
- Motshakeri, M., Ebrahimi, M., Goh, Y. M., Othman, H. H., Hair-Bejo, M., & Mohamed, S. 2014. Effects of brown seaweed (*Sargassum polycystum*) extracts on kidney, liver, and pancreas of type 2 diabetic rat model. *Evidence-Based Complementary and Alternative Medicine*, 2014(1), 379407.

- Mulyono, A., & Farida, D. H. 2013. Histopatologi Hepar Tikus Rumah (*Rattus Tanezumi*) Infektif Patogenik leptospiraspp. *Vektora: Jurnal Vektor dan Reservoir Penyakit*, 5(1), 7-11.
- Munna, S., & Saleem, M. T. 2013. Hypoglycemic and Hypolipidemic Activity of *Ficus mollis* Leaves. *Revista Brasileira de Farmacognosia*, 23(4), 687-691.
- Murakami, S., Hirazawa, C., Ohya, T., Yoshikawa, R., Mizutani, T., Ma, N., ... & Matsuzaki, C. 2021. The edible brown seaweed *Sargassum horneri* (Turner) C. Agardh ameliorates high-fat diet-induced obesity, diabetes, and hepatic steatosis in mice. *Nutrients*, 13(2), 551.
- Muthiadin, C., Zulkarnain, Z., & Hidayat, A. S. 2020. Pengaruh pemberian tuak terhadap gambaran histopatologi hati mencit (*Mus musculus*) ICR jantan. *Jurnal Pendidikan Matematika dan IPA*, 11(2), 193-205.
- Nofita, A. M. U., & Muslim, D. M. 2020. Analisis Sgot Dan Sgpt Pada Tikus Jantan Yang Di Induksi Parasetamol Untuk Menetapkan Aktivitas Ekstrak Buah Delima (*Punica Granatum L.*) Sebagai Hepatoprotektif. *JFM (Jurnal Farmasi Malahayati)*, 3(1), 12-22.
- Nugraheni, B. C., Sunarno, S., & Mardiaty, S. M. 2018. Respon Histologis Hepar Tikus Wistar yang Mengalami Stres Fisiologis setelah Pemberian Pakan dengan Suplementasi Daging Ikan Gabus (*Channa striata*). *Buletin Anatomi dan Fisiologi*, 3(2), 173-180.
- Palawe, C. Y., Kairupan, C. F., & Lintong, P. M. 2021. Efek hepatoprotektif tanaman obat. *Medical Scope Journal*, 3(1), 61-73.
- Panjaitan, R. G. P., Handharyani, E., Chairul, M., Zakiah, Z., & Manalu, W. 2007. Pengaruh pemberian karbon tetraklorida terhadap fungsi hati dan ginjal tikus. *Makara Kesehatan*, 11(1), 11-16.
- Price Sylvia, A., & Wilson Lorraine, M. 2012. Patofisiologi: konsep klinis proses-proses penyakit. *Jakarta: Egc*.
- Putrinesia, I., Tobing, Y. P. L., Asikin, N., & Rahmalia, W. 2018. Formulasi dan uji aktivitas krim pengkelat merkuri berbahan dasar ekstrak etanol alga coklat (*Sargassum sp.*). *Alchemy Jurnal Penelitian Kimia*, 14(1): 168.
- Qayyum, A., Nystrom, M., Noworolski, S. M., Chu, P., Mohanty, A., & Merriman, R. 2012. MRI steatosis grading: development and initial validation of a color mapping system. *American journal of roentgenology*, 198(3), 582-588.
- Quintal-Novelo, C., Rangel-Méndez, J., Ortiz-Tello, Á., Graniel-Sabido, M., Vaca, R. P. C. D., & Moo-Puc, R. 2018. A *Sargassum fluitans* Borgesen ethanol extract exhibits a hepatoprotective effect in vivo in acute and chronic liver damage models. *BioMed Research International*, 2018(1), 6921845.

- Rahim, A. 2019. Uji Aktivitas Ekstrak Daun Cabe Rawit (*Capsicum frutescens* L.) Sebagai Hepatoprotektor Pada Tikus Yang Diinduksi Obat-Obat Tuberkulosis. *Pharmed: Journal of Pharmaceutical Science and Medical Research*, 2(1), 7-13.
- 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. *JSFK (Jurnal Sains Farmasi & Klinis)*, 6(3), 274-285.
- Rohim, A., & Estiasih, T. 2019. Senyawa-Senyawa Bioaktif Pada Rumput Laut Cokelat *Sargassum* Sp.: Ulasan Ilmiah. *Jurnal Teknologi Pertanian*, 20(2): 115-126.
- Ross, V., Joven, A., Donnie, R. J., Marianne, M., Katherine, P., Carla, P., ... & Jose, P. 2012. Hepatoprotective Effects of Aqueous Sulfated Polysaccharide Extract from *Sargassum Siliculosum* JG Agardh On Paracetamol-Induced Oxidative Liver Toxicity and Antioxidant Properties. *Int J Pharm Front Res*, 2, 15-27.
- Sadiq, I. Z. 2023. Free Radicals and Oxidative Stress: Signaling Mechanisms, Redox Basis for Human Diseases, and Cell Cycle Regulation. *Current Molecular Medicine*, 23(1), 13-35.
- Safaeian, L., Yazdiniapour, Z., Hajibagher, S., Bakhtiari, Z., & Karimian, P. 2024. The Effect of *Dracocephalum Subcapitatum* Hydroalcoholic Extract on Dexamethasone-Induced Hyperlipidemic Rats. *Research in Pharmaceutical Sciences*, 19(3), 319-327.
- Safaeian, L., Zolfaghari, B., Karimi, S., Talebi, A., & Ghazvini, M. A. 2018. The Effects of Hydroalcoholic Extract of *Allium Elburzense* Wendelbo Bulb on Dexamethasone-Induced Dyslipidemia, Hyperglycemia, And Oxidative Stress In Rats. *Research in pharmaceutical sciences*, 13(1), 22-29.
- Safithri, F. 2018. Mekanisme Regenerasi Hati secara Endogen pada Fibrosis Hati. *Jurnal Berkala Ilmiah Kedokteran dan Kesehatan*, 2(4).
- Saharani, S. M., Yuniastuti, A., & Susanti, R. 2021. Identifikasi Senyawa Bioaktif Tanaman *Syzygium aromaticum* sebagai Imunostimulan Melalui Toll-Like Receptor Signaling Pathway Berdasarkan Interaksi Senyawa-Protein Secara in Silico. In *Prosiding Seminar Nasional Biologi* (Vol. 9, pp. 310-316).
- Salguero, F. J., Garcia-Jimenez, W. L., Lima, I., & Seifert, K. 2018. Histopathological and Immunohistochemical Characterisation of Hepatic Granulomas in Leishmania Donovanii-Infected BALB/C Mice: A Time-Course Study. *Parasites & vectors*, 11, 1-9.
- Saraswati, Giriwono, P. E., Iskandriati, D., Tan, C. P., & Andarwulan, N. 2019. Sargassum Seaweed as A Source of Anti-Inflammatory Substances and The Potential Insight of The Tropical Species: A review. *Marine Drugs*, 17(10), 590.

- Savitri, I., Suhendra, L., & Wartini, N. M. 2017. Pengaruh Jenis Pelarut Pada Metode Maserasi Terhadap Karakteristik Ekstrak *Sargassum Polycystum*. *Jurnal Rekayasa dan Manajemen Agroindustri*, 5(3), 93-101.
- Setianingsih, H., & Nawangsasi, P. 2023. Computational Mechanism of Brown Seaweed (*Sargassum duplicatum*) on Non-Alcoholic Fatty Liver Disease (NAFLD). *Journal of International Dental and Medical Research*, 16(4), 1469-1473.
- Shittu, S. T. T., Lasisi, T. J., Shittu, S. A. S., Adeyemi, A., Adeoye, T. J., & Alada, A. A. 2021. *Ocimum gratissimum* Enhances Insulin Sensitivity in Male Wistar Rats with Dexamethasone-Induced Insulin Resistance. *Journal of Diabetes & Metabolic Disorders*, 20, 1257-1267.
- Subramaniam, S., Hedayathullah Khan, H. B., Elumalai, N., & Sudha Lakshmi, S. Y. 2015. Hepatoprotective Effect of Ethanolic Extract of Whole Plant of *Andrographis Paniculata* Against Ccl 4-Induced Hepatotoxicity in Rats. *Comparative Clinical Pathology*, 24, 1245-1251.
- Sugihartini, N., & Fajri, M. A. 2016. Gambaran Histopatologi Organ Hati dan Ginjal Mencit Balb/C Setelah Pemberian Krim Ekstrak Teh Hijau (*Camellia sinensis* L.). *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*, 3(1), 32-38.
- Suprihatin, T., Mujiono, D. S., & Tana, S. 2024. Histopatologi Hepar Tikus (*Rattus norvegicus*) yang Diinduksi Streptozotocin setelah Pemberian Serbuk Rimpang Kunyit (*Curcuma longa* L.). *Buletin Anatomi dan Fisiologi*, 9(2).
- Suryaningsih, N. M., Dewi, I. A. T., Suksmawati, N. K. A., Putri, N. P. R. A., Febrianti, N. M., & Warditiani, N. K. 2017. Pengaruh Kadar SGOT SGPT dan Morfologi Hepar Tikus Putih Betina Wistar pada Pemberian Isolat Andrografolid. *Jurnal Farmasi Udayana*, 6(1), 34-38.
- Susanto, E., Fahmi, A. S., Abe, M., Hosokawa, M., & Miyashita, K. 2016. Lipids, Fatty Acids, and Fucoxanthin Content from Temperate and Tropical Brown Seaweeds. *Aquatic Procedia*, 7, 66-75.
- Susantoputro, S. H., Arimbi, H. P., & Legowo, D. 2014. Potensi Suplementasi Potasium Klorida dan Sodium Bikarbonat Sebagai Thermotolerance Agent pada Hepar Broiler yang Terpapar Heat Stress Kronis the Potency of Potassium Chloride and Sodium Bicarbonate Supplementation as Thermotolerance Agent on Liver of Chro. *Media Kedokteran Hewan*, 30(1), 67-74.
- Syukriah, S. 2018. Pengaruh Pemberian Deksametason Terhadap Kadar Alp Dan Kreatinin Tikus (*Rattus Norvegicus*) Galur Wistar. In *Prosiding Seminar Nasional Biologi, Teknologi dan Kependidikan*, 5(1), 331-335.
- Taj, D., Tariq, A., Sultana, V., Ara, J., Ahmad, V. U., & Ehteshamul-Haque, S. 2019. Protective Role of *Stokesia indica* in Liver Dysfunction and Associated

- Complications in Acetaminophen Intoxicated Rats. *Clinical Phytoscience*, 5, 1-8.
- Teja, P. T. H. S., Arjana, A. A. G., Setiasih, N. L. E., & Merdana, I. M. 2021. Dampak Minyak Rajas yang Diberikan Secara Oral Terhadap Histopatologi Hati dan Aktivitas Aminotransferase Ayam Kampung Jantan. *Indonesia Medicus Veterinus*, 10(2), 233-44.
- Tuzzahra, R., Bakri, M., & Balqis, U. 2018. Gambaran histopatologi paru-paru babi hutan (*Sus scrofa*) yang terinfeksi parasit internal di kawasan Lhoknga Aceh Besar. *JURNAL ILMIAH MAHASISWA VETERINER*, 2(4), 564-575.
- Vdoviaková, K., Petrovová, E., Krešáková, L., Maloveská, M., Teleky, J., Jenčová, J., ... & Jenča Jr, A. 2016. Importance Rat Liver Morphology and Vasculature in Surgical Research. *Medical science monitor: international medical journal of experimental and clinical research*, 22, 4716.
- Wicaksono, A. R., Mardiaty, S. M., & Isdadiyanto, S. 2023. Efek Pemberian Ekstrak Etanol Daun Mimba (*Azadirachta indica* A. Juss) Terhadap Struktur Histopatologi Hepar Tikus Putih (*Rattus norvegicus* L.) Jantan Hiperglikemia. *Buletin Anatomi dan Fisiologi*, 8(1), 53-60.
- Widarti, W., & Nurqaidah, N. 2019. Analisis Kadar Serum Glutamic Pyruvic Transaminase (SGPT) dan Serum Glutamic Oxaloacetic Transaminase (SGOT) Pada Petani yang Menggunakan Pestisida. *Jurnal Media Analisis Kesehatan*, 10(1), 35-43.
- Wiendarlina, I. Y., Rahminiwati, M., & Gumelar, F. T. 2018. Aktifitas Hepatoprotektor Ekstrak Air Herba Pegagan Daun Kecil (*Centella Asiatica* L. Urb.) terhadap Tikus Putih Jantan *Sprague Dawley* L. yang Diinduksi dengan Parasetamol. *Fitofarmaka: Jurnal Ilmiah Farmasi*, 8(1), 13-24.
- Wijayanthi, K. K. D., Berata, I. K., & Samsuri, I. 2017. Histopatologi Usus Halus Tikus Putih Jantan yang Diberikan Deksametason dan Vitamin E. *Buletin Veteriner Udayana*, 9(1), 47-53.
- Willebrords, J., Pereira, I. V. A., Maes, M., Yanguas, S. C., Colle, I., Van Den Bossche, B., ... & Vinken, M. 2015. Strategies, Models and Biomarkers in Experimental Non-Alcoholic Fatty Liver Disease Research. *Progress in lipid research*, 59, 106-125.
- Wilson, L. M., & Price, S. A. 2006. Patofisiologi konsep klinis proses-proses penyakit. *Jakarta: Penerbit Buku Kedokteran EGC*.
- Wu, K., Gong, Z., Zou, L., Ye, H., Wang, C., Liu, Y., ... & Liu, Y. 2019. *Sargassum integerrimum* Inhibits Oestrogen Deficiency and Hyperlipidaemia-Induced Bone Loss By Upregulating Nuclear Factor (Erythroid-Derived 2)-Like 2 in Female Rats. *Journal of Orthopaedic Translation*, 19, 106-117.

- Xiong, F., & Guan, Y. S. 2017. Cautiously Using Natural Medicine to Treat Liver Problems. *World Journal of Gastroenterology*, 23(19), 3388.
- Xuan, Y., Wu, D., Zhang, Q., Yu, Z., Yu, J., & Zhou, D. 2024. Elevated ALT/AST Ratio as A Marker for NAFLD Risk and Severity: Insights from A Cross-Sectional Analysis in The United States. *Frontiers in endocrinology*, 15, 1457598.
- Yahfoufi, N., Alsadi, N., Jambi, M., & Matar, C. 2018. The Immunomodulatory and Anti-Inflammatory Role of Polyphenols. *Nutrients*, 10(11), 1618.
- Yegdaneh, A., Halvaei-Varnousfaderani, M., & Bazvand, S. 2022. Antihyperlipidemic and Antioxidant Effects of Ethanol Fraction of *Sargassum Angustifolium* in Dexamethasone-Induced Dyslipidemic Rats. *Research Journal of Pharmacognosy*, 9(1), 39-49.
- Yi, J., Zhu, R., Wu, J., Wu, J., Xia, W., Zhu, L., ... & Tan, Z. 2016. In Vivo Protective Effect of Betulinic Acid on Deksametason Induced Thymocyte Apoptosis By Reducing Oxidative Stress. *Pharmacological Reports*, 68(1), 95-100.d
- Yolanda, S., Etriwati, E., Erwin, E., Masyitha, D., Roslizawaty, R., & Sayuti, A. 2022. Gambaran Histopatologi Hati Tikus Putih (*Rattus Norvegicus*) Setelah Pemasangan Implan Wire Material Logam. *Jurnal Ilmiah Mahasiswa Veteriner*, 6(4), 234-242.
- Yusuf, M. I., Tee, S. A., Karmila, K., & Jabbar, A. 2018. Efek Hepatoprotektor Ekstrak Terpurifikasi Batang Galing (*Cayratia trifolia* L. Domin) Pada Tikus Putih Wistar Jantan (*Rattus noervegicus*). *Jurnal Mandala Pharmacon Indonesia*, 4(1), 13-19.
- Zhang, Z., Ran, Y., Xu, L., Pan, Z., & Xie, Y. 2021. High-Dose Dexamethasone Injection Disordered Metabolism and Multiple Protein Kinases Expression in The Mouse Kidney. *Bioscience Reports*, 41(11).
- Zulfahmi, Z., & Solfan, B. 2010. Eksplorasi Tanaman Obat Potensial di Kabupaten Kampar. *Jurnal agroteknologi*, 1(1): 31-38.