DAFTAR PUSTAKA

Ahmad, M. F., A. Alsayegh, A., Ahmad, F. A., Akhtar, M. S., Alavudeen, S. S., Bantun, F., Wahab, S., Ahmed, A., Ali, M., Elbendary, E. Y., Raposo, A., Kambal, N., & H. Abdelrahman, M. (2024). *Ganoderma lucidum*: Insight into antimicrobial and antioxidant properties with development of secondary metabolites. *Heliyon*, *10*(3). https://doi.org/10.1016/j.heliyon.2024.e25607

Aisyah, S., Gumelar, A. ., Maulana, M. ., & Amalia, R. A. H. . (2023). Identifikasi Karakteristik Hewan Vertebrata Mamalia Tikus Putih (*Rattus norvegicus*) Berdasarkan Morfologi dan Anatominya. *Prosiding SEMNAS BIO*, 484–494.

Andrejč, D. C., Knez, Ž., & Knez Marevci, M. (2022). Antioxidant, antibacterial, antitumor, antifungal, antiviral, anti-inflammatory, and nevro-protective activity of *Ganoderma lucidum*: An overview. *Frontiers in Pharmacology*, *13*(July), 1–14. https://doi.org/10.3389/fphar.2022.934982

Angela M. Green, P. Robert Beatty, Alexandros Hadjilaou, E. H. (2014). Innate Immunity to Dengue Virus Infection and Subversion of Antiviral Responses. *NIH Public Access*, *426*(6), 1–20. https://doi.org/10.1007/978-3-0348-0620-6_81-2

Azzahra, J., Narsa, A. C., & Gama, N. I. (2023). Analisis Karakteristik dan Profil Pengobatan Pasien Demam Berdarah Dengue Anak di Instalasi Rawat Inap Rumah Sakit Samarinda Medika Citra Tahun 2020-2021. *Jurnal Sains Dan Kesehatan*, *5*(SE-1), 10–18. https://doi.org/10.25026/jsk.v5ise-1.2049

Ahmad, M. F., Ahmad, F. A., Khan, M. I., Alsayegh, A. A., Wahab, S., Alam, M. I., & Ahmed, F. (2021). *Ganoderma lucidum*: A potential source to surmount viral infections through β-glucans immunomodulatory and triterpenoids antiviral properties. International Journal of Biological Macromolecules, 187, 769-779. https://doi.org/10.1016/j.ijbiomac.2021.06.122

Barnard, T. R., Abram, Q. H., Lin, Q. F., Wang, A. B., & Sagan, S. M. (2021). Molecular Determinants of Flavivirus Virion Assembly. *Trends in Biochemical Sciences*, *46*(5), 378–390. https://doi.org/10.1016/j.tibs.2020.12.007

Begum, F., Das, S., Mukherjee, D., Mal, S., & Ray, U. (2019). Insight into the tropism of dengue virus in humans. *Viruses*, *11*(12). https://doi.org/10.3390/v11121136

Bharadwaj, S., Lee, K. E., Dwivedi, V. D., Yadava, U., Panwar, A., Lucas, S. J., Pandey, A., & Kang, S. G. (2019). Discovery of *Ganoderma lucidum* triterpenoids as potential inhibitors against Dengue virus NS2B-NS3 protease. *Scientific Reports*, *9*(1), 1–12. https://doi.org/10.1038/s41598-019-55723-5

Bintari, I. G. (2016). Deteksi Aeromonas hydrophila pada Ginjal Mencit Oleh : Intan Galuh Bintari Fakultas Kedokteran Hewan. *Skripsi Fakultas Kedokteran Hewan Universitas Airlangga Surabaya*, 70.

BPOM. (2023). *Pedoman Penyiapan Bahan Baku Obat Bahan Alam Berbasis Ekstrak / Fraksi Badan Pengawas Obat dan Makanan Republik Indonesia ISBN Cetakan Pertama*. *November*, 45.

Boster Biological Technology, (2021) Immunohistochemistry (IHC) Troubleshooting Guide (bosterbio.com)

Chew, M. F., Poh, K. S., & Poh, C. L. (2017). Peptides as therapeutic agents for dengue virus. *International Journal of Medical Sciences*, *14*(13), 1342–1359. https://doi.org/10.7150/ijms.21875

Chuang, Y. C., Wang, S. Y., Lin, Y. S., Chen, H. R., & Yeh, T. M. (2013). Re-evaluation of the pathogenic roles of nonstructural protein 1 and its antibodies during dengue virus infection. *Journal of Biomedical Science*, *20*(1), 1. https://doi.org/10.1186/1423-0127-20-42

Direktorat Jenderal Pencegahan dan Pengendalian Penyakit. (2022). *Membuka Lembaran Baru. Laporan Tahunan 2022. Demam Berdarah Dengue*. In *Germas*. http://p2p.kemkes.go.id/wpcontent/uploads/2023/06/FINAL_6072023_Layout_DBD-1.pdf

Doğan, G., & İpek, H. (2020). The protective effect of *Ganoderma lucidum* on testicular torsion/detorsion-induced ischemia-reperfusion (I/R) injury. *Acta Cirurgica Brasileira*, *35*(1). https://doi.org/10.1590/s0102-865020200010000003

Ekiz, E., Oz, E., Abd El-Aty, A. M., Proestos, C., Brennan, C., Zeng, M., Tomasevic, I., Elobeid, T., Çadırcı, K., Bayrak, M., & Oz, F. (2023). Exploring the Potential Medicinal Benefits of *Ganoderma lucidum*: From Metabolic Disorders to Coronavirus Infections.

Foods, *12*(7). https://doi.org/10.3390/foods12071512

Goethals, O., Kaptein, S. J. F., Kesteleyn, B., Bonfanti, J. F., Van Wesenbeeck, L., Bardiot, D., Verschoor, E. J., Verstrepen, B. E., Fagrouch, Z., Putnak, J. R., Kiemel, D., Ackaert, O., Straetemans, R., Lachau-Durand, S., Geluykens, P., Crabbe, M., Thys, K., Stoops, B., Lenz, O., … Van Loock, M. (2023). Blocking NS3–NS4B interaction inhibits dengue virus in non-human primates. *Nature*, *615*(7953), 678–686. https://doi.org/10.1038/s41586-023-05790-6

Guerin, C. J. (2023). Using Antibodies in Microscopy: A Guide to Immunohistochemistry. Part 2: IHC Staining Protocols. *Microscopy Today*, *31*(3), 34–39. https://doi.org/10.1093/mictod/qaad029

Hartanto, F. A. D., & Sari, D. P. (2020). Pemanfaatan Obat Tradisional: Upaya Preventif dan Kuratif Penyakit Demam Berdarah Dengan Penyuluhan Bagi Warga Dusun Ciren, Triharjo, Pandak, Bantul, DIY. *Widyabhakti Jurnal Ilmiah Populer*, *3*(1), 68–73. https://doi.org/10.30864/widyabhakti.v3i1.224

Handrianto, P. (2016). Uji Aktifitas Ekstrak Jamur Lingzhi (*Ganoderma lucidum*) Menggunakan Pelarut Air Destilasi Terhadap Zona Hambat *Escherichia coli*. *Journal of Pharmacy and Science*, *1*(1), 34–38. https://doi.org/10.53342/pharmasci.v1i1.58

Hawes, D., Shi, S.-R., Dabbs, D. J., Taylor, C. R., & Cote, R. J. (2020). Immunohistochemistry as a laboratory test. *Immunohistochemistry*, *January*, 48–70.

Hujjatusnaini, N., Indah, B., Afitri, E., Widyastuti, R., & Ardiansyah. (2021). *Buku Referensi Ekstraksi* (N. Lestariningsih (ed.)).

Isna, H., & Sjamsul, H. (2021). *Peran Nyamuk Sebagai Vektor Demam Berdarah Dengue (DBD) Melalui Transovarial* (F. Safitri (ed.)). Satria Publisher. http://digital.library.ump.ac.id/1066/

John, A. L. St., & Rathore, A. P. S. (2019). Adaptive immune responses to primary and secondary dengue virus infections. *Nature Reviews Immunology*, *19*(4), 218–230. https://doi.org/10.1038/s41577-019-0123-x

Kato, F., & Hishiki, T. (2016). Dengue virus reporter replicon is a valuable tool for antiviral drug discovery and analysis of virus replication mechanisms. *Viruses*, *8*(5), 1–11.

https://doi.org/10.3390/v8050122

Kou, R.W.; Xia, B.; Wang, Z.J.; Li, J.N.; Yang, J.R.; Gao, Y.Q.; Yin, X.; Gao, J.M. (2022). Triterpenoids and Meroterpenoids from the Edible *Ganoderma resinaceum* and Their Potential Anti-Inflammatory, Antioxidant and Anti-Apoptosis Activities. *Bioorg. Chem. 121*, 105689. https://www.sciencedirect.com/science/article/abs/pii/S0045206822000943?via%3Dihub

Khan, M. B., Yang, Z. S., Lin, C. Y., Hsu, M. C., Urbina, A. N., Assavalapsakul, W., Wang, W. H., Chen, Y. H., & Wang, S. F. (2023). Dengue overview: An updated systemic review. *Journal of Infection and Public Health*, *16*(10), 1625–1642. https://doi.org/10.1016/j.jiph.2023.08.001

Khanam, A., Gutiérrez-Barbosa, H., Lyke, K. E., & Chua, J. V. (2022). Immune-Mediated Pathogenesis in Dengue Virus Infection. *Viruses*, *14*(11), 1–19. https://doi.org/10.3390/v14112575

Kim, S. W., Roh, J., & Park, C. S. (2016). Immunohistochemistry for pathologists: Protocols, pitfalls, and tips. *Journal of Pathology and Translational Medicine*, *50*(6), 411–418. https://doi.org/10.4132/jptm.2016.08.08

Kok, B. H., Lim, H. T., Lim, C. P., Lai, N. S., Leow, C. Y., & Leow, C. H. (2023). Dengue virus infection – a review of pathogenesis, vaccines, diagnosis and therapy. *Virus Research*, *324*(June 2022), 199018. https://doi.org/10.1016/j.virusres.2022.199018

Lee, M. F., Voon, G. Z., Lim, H. X., Chua, M. L., & Poh, C. L. (2022). Innate and adaptive immune evasion by dengue virus. *Frontiers in Cellular and Infection Microbiology*, *12*(September), 1–14. https://doi.org/10.3389/fcimb.2022.1004608

Lee, M. F., Wu, Y. S., & Poh, C. L. (2023). Molecular Mechanisms of Antiviral Agents against Dengue Virus. *Viruses*, *15*(3). https://doi.org/10.3390/v15030705

Li, Q., & Kang, C. (2022). Structures and Dynamics of Dengue Virus Nonstructural Membrane Proteins. *Membranes*, *12*(2), 1–16. https://doi.org/10.3390/membranes12020231

Lim, S. Y. M., Chieng, J. Y., & Pan, Y. (2021). Recent insights on anti-dengue virus (DENV) medicinal plants: review on in vitro, in vivo and in silico discoveries. *All Life*, *14*(1), 1–33.

https://doi.org/10.1080/26895293.2020.1856192

Lim, W. Z., Chang, S. W., & Teoh, T. C. (2023). Pathway analysis of host responses to dengue virus serotype 2 infection and inhibition of viral envelope protein by naringenin from *Ganoderma lucidum*. *Journal of Biosciences*, *48*(4). https://doi.org/10.1007/s12038-023-00370-2

Mariappan, V., Pratheesh, P., Shanmugam, L., Rao, S. R., & Pillai, A. B. (2021). Viral hemorrhagic fever: Molecular pathogenesis and current trends of disease management-an update. *Current Research in Virological Science*, *2*(April), 100009. https://doi.org/10.1016/j.crviro.2021.100009

Masykur, F. A. A. (2022). Hubungan Antara Lama Demam dengan Hasil Pemeriksaan Profil Darah pada Pasien Demam Berdarah Dengue. *Jurnal Ilmu Medis Indonesia*, *1*(2), 53–58. https://doi.org/10.35912/jimi.v1i2.912

Mosesa, L. P., Sorisi, A., & Pijoh, V. D. (2016). Deteksi transmisi transovarial virus dengue pada *Aedes aegypti* dengan teknik imunositokimia di Kota Manado. *Jurnal E-Biomedik*, *4*(1). https://doi.org/10.35790/ebm.4.1.2016.10846

Mukhtarini. (2014). Mukhtarini, "Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif," J. Kesehat., vol. VII, no. 2, p. 361, 2014. *J. Kesehat.*, *VII*(2), 361. https://doi.org/10.1007/s11293-018-9601-y

Nanaware, N., Banerjee, A., Bagchi, S. M., Bagchi, P., & Mukherjee, A. (2021). Dengue virus infection: A tale of viral exploitations and host responses. *Viruses*, *13*(10). https://doi.org/10.3390/v13101967

Nugraheni, E., Sulistyowati, I., Mikrobiologi, B., Kedokteran, F., & Universitas, K. (2016). Diagnosis Molekuler Virus Dengue Molecular Diagnosis Dengue Virus. *Jurnal Kedokteran Universitas Lampung*, *1*(2), 385–392.

Nugroho, A. (2017). Buku Ajar: Teknologi Bahan Alam. In *Lambung Mangkurat University Press* (Issue January 2017).

Oke, M. A., Afolabi, F. J., Oyeleke, O. O., Kilani, T. A., Adeosun, A. R., Olanbiwoninu, A. A., & Adebayo, E. A. (2022). *Ganoderma lucidum*: Unutilized natural medicine and promising future solution to emerging diseases in Africa. *Frontiers in Pharmacology*, *13*(August), 1–26. https://doi.org/10.3389/fphar.2022.952027

Pertiwi, K. R. (2015). Penerapan Immunohistokimia pada Riset Laboratorium Hispatologi: Deteksi Kematian Sel pada Trombus Koroner dengan Teknik Vitual Multipel Immunohistokimia. *Nhk技研*, *151*(2016), 10–17. https://doi.org/10.1145/3132847.3132886

Pierson, T. C., & Diamond, M. S. (2020). The continued threat of emerging flaviviruses. *Nature Microbiology*, *5*(6), 796–812. https://doi.org/10.1038/s41564-020-0714-0

Rachmayanti, N. (2015). Struktur Proteomik Virus Dengue Dan Manfaatnya Sebagai Target Antivirus. *Majalah Kedokteran Andalas*, *37*(2), 136. https://doi.org/10.22338/mka.v37.i2.p136-142.2014

Rahayu, Y., & Auerkari, E. (2015). Teknik Imunohistokimia Sebagai Pendeteksi Antigen Spesifik Penyakit Infeksi. *Journal of Dentistry Indonesia*, *11*(2), 76–82. https://doi.org/10.14693/jdi.v11i2.640

Rathore, A. P. S., Mantri, C. K., Tan, M. W., Shirazi, R., Nishida, A., Aman, S. A. B., Morrison, J., & St. John, A. L. (2021). Immunological and Pathological Landscape of Dengue Serotypes 1-4 Infections in Immune-Competent Mice. *Frontiers in Immunology*, *12*(June), 1–14. https://doi.org/10.3389/fimmu.2021.681950

Rejeki, P. S., Putri, E. A. C., & Prasetya, R. E. (2018). Ovariektomi Pada Tikus Dan Mencit. In *Airlangga University Press*. Airlangga University Press.

Riasari, H., Fitriansyah, S. N., & Hoeriah, I. S. (2022). Perbandingan Metode Fermentasi, Ekstraksi, dan Kepolaran Pelarut Terhadap Kadar Total Flavonoid dan Steroid Pada Daun Sukun (*Artocarpus altilis* (Parkinson) Fosberg). *Jurnal Sains Dan Teknologi Farmasi Indonesia*, *11*(1), 1. https://doi.org/10.58327/jstfi.v11i1.165

Santos, C. F., & Azeredo, E. L. De. (2022). Innate Immune Response to Dengue Virus: Toll-like Receptors and Antiviral Response. *Viruses*, *14*(5), 1–21. https://doi.org/10.3390/v14050992

Saputri, D., Walascha, A., Putri, A. E., Rahmawati, A., Ramadhani, K., Triana, B., Wulandari, P., Khairiah, A., Priyanti, & Des, M. (2021). Etnobotani tumbuhan obat di Desa Serkung Biji Asri, Kecamatan Kelumbayan Barat, Kabupaten Tanggamus, Lampung. *Prosiding SEMNAS BIO*, *1*, 225–240. https://semnas.biologi.fmipa.unp.ac.id/index.php/prosiding/article/

view/34%0Ahttps://semnas.biologi.fmipa.unp.ac.id/index.php/prosiding/article/download/34/27

Septiana, E. (2020). Kapang endofit sebagai sumber senyawa aktif antivirus yang menjanjikan: Suatu Kajian Pustaka. *Jurnal Biologi Udayana*, *24*(1), 26. https://doi.org/10.24843/jbiounud.2020.v24.i01.p04

Sheikha, A. F. El. (2022). Nutritional Profile and Health Benefits of *Ganoderma lucidum* "Lingzhi, Reishi, or Mannentake" as Functional Foods: Current Scenario and Future Perspectives. *Foods*, *11*, 1–29.

Silva, E. M., Conde, J. N., Allonso, D., Ventura, G. T., Coelho, D. R., Carneiro, P. H., Silva, M. L., Paes, M. V., Rabelo, K., Weissmuller, G., Bisch, P. M., & Mohana-Borges, R. (2019). Dengue virus nonstructural 3 protein interacts directly with human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) and reduces its glycolytic activity. *Scientific Reports*, *9*(1), 1–19. https://doi.org/10.1038/s41598-019-39157-7

Soesilawati, P. (2020). Histologi Kedokteran Dasar. In *Airlangga University Press* (Issue Oktober).

Sinobiological. (2023). Immunohistochemistry Principle. https://www.sinobiological.com/category/ihc-principle

Sudarwati, T. P. L., & Fernanda, M. A. H. F. (2019). *Aplikasi Pemanfaatan Daun Pepaya (Carica papaya) Sebagai Biolarvasida Terhadap Larva Aedes aegypti* (N. R. Hariyati (ed.)).

Sulistyawati, D., & Umniyati, S. R. (2016). Gambaran Leukosit dan Histologi Hepar , Ren , dan Lien Mencit. *BIOMEDIKA*, *9*(1), 26–31.

Surahmaida. (2018). Review: Potensi Berbagai Spesies Ganoderma Sebagai Tanaman Obat. *Journal of Pharmacy and Science*, *2*(1), 17–21. https://doi.org/10.53342/pharmasci.v2i1.61

Suwandono, A. (2019). *Dengue Update "Menilik Perjalanan Dengue di Jawa Barat."* LIPI Press. https://penerbit.brin.go.id/press/catalog/download/220/209/431?inline=1

Taslim, M., Arsunan, A. A., Ishak, H., Nasir, S., & Usman, A. N. (2018). Diversity of Dengue Virus Serotype in Endemic Region of South Sulawesi Province. *Journal of Tropical Medicine*, *2018*. https://doi.org/10.1155/2018/9682784

Uno, N., & Ross, T. M. (2018). Dengue virus and the host innate immune response. *Emerging Microbes and Infections*, *7*(1). https://doi.org/10.1038/s41426-018-0168-0

Umniyati, S. R. (2009). *Teknik Imunositokimia dengan Antibodi Monoklonal DSSC7 untuk Kajian Patogenesis Infeksi dan Penularan Transovarial Virus Dengue serta Surveilans Virologis Vektor Dengue*. [disertasi]. Yogyakarta : Universitas Gadjah Mada.

Vara, J. A. R., & Miller, M. A. (2013). When Tissue Antigens and Antibodies Get Along: Revisiting the Technical Aspects of Immunohistochemistry-The Red, Brown, and Blue Technique. *Sage Journals*, 51 (1). https://journals-sagepub-com.translate.goog/doi/10.1177/0300985813505879?_x_tr_sl=en&_x_tr_tl=id&_x_tr_hl=id&_x_tr_pto=tc#con2

Wahongan, I. F., Suoth, E. J., Antasionasti, I., Fatimawali, & Tallei, T. (2022). Review-Strategies and Challenges for Dengue Vaccine Development Review-Strategi dan Tantangan Pengembangan Vaksin Demam Berdarah. *Pharmacon*, *11*(3), 1530–1535.

Wahyurianto, Y. (2022). *Absorpsi Glukosa Studi Kasus pada Tikus Putih (Rattus novergicus)*. Aduna Abimata

Wahono, T., & Rahmah Umniyati, S. (2018). Deteksi Transmisi Trnasovarial Virus DEN-3 pada Nyamuk *Aedes aegypti* dengan Teknik Imunositokimia Menggunakan Antibodi DSSE10. *Spirakel*, *10*(1), 21–30. https://doi.org/10.22435/spirakel.v10i1.353

Wang, W. H., Urbina, A. N., Chang, M. R., Assavalapsakul, W., Lu, P. L., Chen, Y. H., & Wang, S. F. (2020). Dengue hemorrhagic fever – A systemic literature review of current perspectives on pathogenesis, prevention and control. *Journal of Microbiology, Immunology and Infection*, *53*(6), 963–978. https://doi.org/10.1016/j.jmii.2020.03.007

Wang, W. H., Urbina, A. N., Lin, C. Y., Yang, Z. S., Assavalapsakul, W., Thitithanyanont, A., Lu, P. L., Chen, Y. H., & Wang, S. F. (2021). Targets and strategies for vaccine development against dengue viruses. *Biomedicine and Pharmacotherapy*, *144*(October),

112304. https://doi.org/10.1016/j.biopha.2021.112304

Willian, N., & Pardi, H. (2022). Bahan Ajar Pemisahan Kimia. In *NBER Working Papers*. http://www.nber.org/papers/w16019

Woro Supadmi, Fitri Qoriawaty, Tina Rostinawati, A. A. S. (2016). Effect of Educational Leaflet on The Acceptor's Knowledge About Progestogen-Only Injectable Contraceptive at Sungai Kakap Community Health Center Kubu Raya Regency in 2015. *Indonesian Journal of Clinical Pharmacy*, *5*(3), 196–203. https://doi.org/10.15416/ijcp.2016.5.3.196

Wowor, M. F. (2015). Deteksi Dini Demam Berdarah Dengue Dengan Pemeriksaan Antigen NS1. *Jurnal Biomedik (Jbm)*, *3*(1), 1–9. https://doi.org/10.35790/jbm.3.1.2011.853

Wu, S., Zhang, S., Peng, B., Tan, D., Wu, M., Wei, J., Wang, Y., & Luo, H. (2024). *Ganoderma lucidum* : a comprehensive review of phytochemistry, efficacy, safety and clinical study . *Food Science and Human Wellness*, *13*(2), 568–596. https://doi.org/10.26599/fshw.2022.9250051

Xia, Q., Zhang, H., Sun, X., Zhao, H., Wu, L., Zhu, D., Yang, G., Shao, Y., Zhang, X., Mao, X., Zhang, L., & She, G. (2014). A comprehensive review of the structure elucidation and biological activity of triterpenoids from Ganoderma spp. *Molecules*, *19*(11), 17478–17535. https://doi.org/10.3390/molecules191117478

Ziaja, K. S., Trepa, M., Olechowska-Jarząb, A., Nowak, P., Ziaja, M., Kała, K., & Muszyńska, B. (2023). Natural Compounds of Fungal Origin with Antimicrobial Activity—Potential Cosmetics Applications. *Pharmaceuticals*, *16*(9). https://doi.org/10.3390/ph16091200