

DAFTAR PUSTAKA

- Abat, J. K., Kumar, S., & Mohanty, A. 2017. Ethnomedicinal, phytochemical and ethnopharmacological aspects of four medicinal plants of Malvaceae used in Indian traditional medicines: A review. *Medicines*, 4(4), 75.
- Adianti, M., Aoki, C., Komoto, M., Deng, L., Shoji, I., Wahyuni, T. S., Lusida, M. I., Soetjipto, Fuchino, H., Kawahara, N., and Hotta, H. 2014. Anti-hepatitis C Virus compounds obtained from *Glycyrrhiza uralensis* and other Glycyrrhiza species. *Microbiology and Immunology*, 58: 180-187.
- Alter, M. J. 2007. Epidemiology of hepatitis C virus infection. *World Journal of Gastroenterology*, 13(17), 2436–2441.
- Anooj, E. S., Amrutha, T. M., Charumathy, M., & Gangadhar, L. 2019. Quantitative and qualitative identification of phytochemical constituents of *Sida rhombifolia* leaves extract. *International Journal of Recent Technology and Engineering*, 8(2S4), 403–408.
- Aslantürk, Ö. S. 2018. In vitro cytotoxicity and cell viability assays: Principles, advantages, and disadvantages. *Genotoxicity - A Predictable Risk to Our Actual World*, 1–18.
- ATCC. 2011. *MTT Cell Proliferation Assay Kit*.
- Bertino, G., Ardiri, A., Proiti, M., Rigano, G., Frazzetto, E., Demma, S., Malaguarnera, M. 2016. Chronic hepatitis C: This and the new era of treatment. *World Journal of Hepatology*, 8(2), 92–106.
- Blaising, J., Lévy, P. L., Gondeau, C., Phelip, C., Varbanov, M., Teissier, E., Pécheur, E. I. 2013. Silibinin inhibits hepatitis C virus entry into hepatocytes by hindering clathrin-dependent trafficking. *Cellular Microbiology*, 15(11), 1866–1882.
- Bradshaw, J. T., Curtis, R. H., Knaide, T. R., & Spaulding, B. W. 2007. Determining dilution accuracy in microtiter plate assays using a quantitative Dual-Wavelength Absorbance method. *Journal of Laboratory Automation*, 12(5), 260–266.
- Brass, V., Moradpour, D., & Blum, H. E. 2006. Molecular virology of hepatitis C virus (HCV): 2006 Update. *International Journal of Medical Sciences*, 3(2), 29–34.
- Chaves, O. S., Gomes, R. A., De Andrade Tomaz, A. C., Fernandes, M. G., Das Graças Mendes, L., De Fátima Agra, M., ... De Souza, M. D. F. V. 2013. Secondary metabolites from *Sida rhombifolia* L. (Malvaceae) and the vasorelaxant activity of cryptolepinone. *Molecules*, 18(3), 2769–2777.

- Cho, H. I., Park, J. H., Choi, H. S., Kwak, J. H., Lee, D. U., Lee, S. K., & Lee, S. M. 2014. Protective mechanisms of acacetin against d - galactosamine and lipopolysaccharide-induced fulminant hepatic failure in mice. *Journal of Natural Products*, 77(11), 2497–2503.
- Critchfield, J. W., Butera, S. T., & Folks, T. M. 1996. Inhibition of HIV activation in latently infected cells by flavonoid compounds. *AIDS RESEARCH AND HUMAN RETROVIRUSES*, 12(1), 39–46.
- Crouchet, E., Wrensch, F., Schuster, C., Zeisel, M. J., and Baumert, T. F. 2018. Host-Targeting therapies for hepatitis C virus infection: Current developments and future applications. *Therapeutic Advances in Gastroenterology*, 11: 1–15
- Dalimartha, S. 2003. *Atlas Tumbuhan Obat Indonesia Jilid 3*. Jakarta: Puspa Swara.
- Das, G. 2019. Ethnomedicinal use of different medicinal plants used by the traditional practitioners in North East India for the treatment ethnomedicinal use of different medicinal plants used by the traditional practitioners in north east. *World Journal Of Pharmacy And Pharmaceutical Sciences*, 8(2), 1133–1138.
- Departemen Kesehatan RI. 2014. *Farmakope Indonesia edisi V*. Kementerian Kesehatan RI.
- Departemen Kesehatan RI. 2000. *Parameter Standar Umum Ekstrak Tumbuhan Obat*.
- Dhalwal, K., Deshpande, Y. S., & Purohit, A. P. 2007. Evaluation of in vitro antioxidant activity of *Sida rhombifolia* (L.) Ssp. retusa (L.). *Journal of Medicinal Food*, 10(4), 683–688.
- Eloff, J. N. 1998. Which extractant should be used for the screening and isolation of antimicrobial components from plants? *Journal of Ethnopharmacology*, 60(1), 1–8.
- Ezzikouri, S., Nishimura, T., Kohara, M., Benjelloun, S., Kino, Y., Inoue, K., Matsumori, A., and Tsukiyama-Kohara, K. 2015. Inhibitory effects of Pycnogenol® on hepatitis C virus replication. *Antiviral Research*, 113: 93 –102.
- Gonzales Zamora, J. 2018. Adverse effects of direct acting antivirals in HIV/HCV coinfecting patients: A 4-year experience in Miami, Florida. *Diseases*, 6(2), 51.
- González-Grande, R., Jiménez-Pérez, M., González Arjona, C., & Mostazo Torres, J. 2016. New approaches in the treatment of hepatitis C. *World Journal of Gastroenterology*, 22(4), 1421–1432.
- Gower, E., Estes, C., Blach, S., Razavi-Shearer, K., & Razavi, H. 2014. Global epidemiology and genotype distribution of the hepatitis C virus infection. *Journal of Hepatology*, 61(1), S45–S57.

- Gupta, S. R., Nirmal, S. A., Patil, R. Y., & Asane, G. S. 2009. Anti-arthritis activity of various extracts of *Sida rhombifolia* aerial parts. *Natural Product Research*, 23(8), 689–695.
- Hafid, A. F., Aoki-Utsubo, C., Permanasari, A. A., Adianti, M., Tumewu, L., Widyawaruyanti, A., Hotta, H. 2017. Antiviral activity of the dichloromethane extracts from *Artocarpus heterophyllus* leaves against hepatitis C virus. *Asian Pacific Journal of Tropical Biomedicine*, 7(7), 633–639.
- Hartati, S., Aoki, C., Hanafi, M., Angelina, M., Soedarmono, P., and Hotta, H. 2018. Antiviral effect of *Archidendron pauciflorum* leaves extract to hepatitis C virus: An in vitro study in JFH-1 strain. *Basic Medical Research*, 27 (1): 12–18.
- Hartmann, I. K., & Wagener, J. 2015. CO₂ Incubators – Best practices for selection, Set-up and care. *White Paper*, pp. 1–10. eppendorf.
- Hassan, S. T. S., Švajdlenka, E., & Berchová-Bímová, K. 2017. *Hibiscus sabdariffa* L. and its bioactive constituents exhibit antiviral activity against HSV-2 and anti-enzymatic properties against urease by an ESI-MS based assay. *Molecules*, 22(5).
- Hela, C. L., Handayani, D., Rasyid, W., Zainudin, E. N., & Hertiani, T. 2018. Cytotoxic activity screening of fungal extracts derived from the West Sumatran marine sponge *Haliclona fascigera* to several human. *Journal of Applied Pharmaceutical Science*, 8(01), 55–58.
- Henry, B. (2018). Drug pricing & challenges to hepatitis C treatment access. *Journal of Health & Biomedical Law*, 14, 265–283.
- Hussein G, Miyashiro H, Nakamura N, Hattori M, Kakiuchi N, Shimotohno K. 2000. Inhibitory effects of Sudanese medicinal plant extracts on hepatitis C virus (HCV) protease. *Phytotherapy Research*, 14, 510-516.
- Hsu, W. C., Chang, S. P., Lin, L. C., Li, C. L., Richardson, C. D., Lin, C. C., and Lin, L.T. 2015. *Limonium sinense* and Gallic Acid suppress hepatitis C virus infection by blocking early viral entry. *Antiviral Research*, 118: 139 – 147.
- Ireton, R. C., & Gale, M. 2014. Pushing to a cure by harnessing innate immunity against hepatitis C virus. *Antiviral Research*, 108(1), 156–164.
- Iswantini, D., Darusman, L. K., & Hidayat, R. 2009. Indonesian Sidaguri (*Sida rhombifolia* L.) as antigout and inhibition kinetics of flavonoids crude extract on the activity of Xanthine Oxidase. *Journal of Biological Sciences*, 9(5), 504–508.
- Jadhav, A. N., Pawar, R. S., Avula, B., & Khan, I. A. 2007. Ecdysteroid glycosides from *Sida rhombifolia* L. *Chemistry and Biodiversity*, 4(9), 2225–2230.

- Jardim AC, Igloi Z, Shimizu JF, Santos VA, Felipe LG, Mazzeu BF, Amako Y, Furlan M, Harris M, Rahal P. 2015. Natural compounds isolated from Brazilian plants are potent inhibitors of hepatitis C virus replication in vitro. *Antiviral Research*, 115, 39-47.
- Jardim, A. C. G., Shimizu, J. F., Rahal, P., & Harris, M. 2018. Plant-derived antivirals against hepatitis c virus infection. *Virology Journal*, 15(1), 1–13.
- Kementerian Kesehatan Republik Indonesia. 2017. 150 Ribu Orang Potensi Alami Hepatitis Kronis. 1. Diakses dari <http://www.depkes.go.id/article/view/17072800006/150-ribu-orang-potensial-alami-hepatitis-kronis.html>. pada tanggal 04 November 2019.
- Kementerian Kesehatan Republik Indonesia. 2017. *Farmakope Herbal Indonesia (2nd ed.)*. Jakarta: Kementerian Kesehatan RI.
- Kementerian Kesehatan Republik Indonesia. 2014. *InfoDATIN Pusat Data dan Informasi Kementerian Kesehatan RI Situasi dan Analisis Hepatitis*. Kementerian Kesehatan RI.
- Kim, J. W., Park, S. J., Lim, J. H., Yang, J. W., Shin, J. C., Lee, S. W., and Hwang, S. B. 2013. Triterpenoid saponins isolated from *Platycodon grandiflorum* inhibit hepatitis C virus replication. *Evidence-Based Complementary and Alternative Medicine*, 1–11.
- Kong, L., Li, S., Liao, Q., Zhang, Y., Sun, R., Zhu, X., Zhang, Q., Wang, J., Wu, X., Fang, X., and Zhu, Y. 2013. Oleanolic acid and ursolic acid: novel hepatitis C virus antivirals that inhibit NS5B activity. *Antiviral Research*, 98: 44 –53.
- Lan, K. H., Wang, Y. W., Lee, W. P., Lan, K. L., Tseng, S. H., Hung, L. R., Lee, S. D. 2012. Multiple effects of honokiol on the life cycle of hepatitis C virus. *Liver International*, 32(6), 989–997.
- Li Y, Yu S, Liu D, Proksch P, Lin W. 2012 Inhibitory effects of polyphenols toward HCV from the mangrove plant *Excoecaria agallocha* L. *Bioorganic & Medicinal Chemistry Letters*, 22, 1099-1102.
- Ma, C. M., Wei, Y., Wang, Z. G., & Hattori, M. 2009. Triterpenes from *Cynomorium songaricum* - Analysis of HCV protease inhibitory activity, quantification, and content change under the influence of heating. *Journal of Natural Medicines*, 63(1), 9–14.
- Mah, S. H., Teh, S. S., Cheng, G., & Ee, L. 2017. Anti-inflammatory, anti-cholinergic and cytotoxic effects of *Sida rhombifolia*. *Pharmaceutical Biology*, 55(1), 920–928.
- Moradpour, D., Penin, F., & Rice, C. M. 2007. Replication of hepatitis C virus. *Nature Reviews Microbiology*, 5(6), 453–463.
- Morozov, V. A., & Lagaye, S. 2018. Hepatitis C virus: Morphogenesis, infection and therapy. *World Journal of Hepatology*, 10(2), 186–212.

- Mosmann, T. 1983. Rapid colorimetric assay for cellular growth and survival: Application to proliferation and cytotoxicity assays. *Journal of Immunological Methods*, 65(1–2), 55–63.
- Mulya, M. dan Suharman. 1995. *Analisis Instrumental*. Surabaya: Airlangga University Press
- Muir, A. J., Galler, G. W., McCone, J., Nyberg, L. M., Lee, W. M., Ghalib, R. H., Schiff, E. R., Galati, J. S., Bacon, B. R., Davis, M. N., Mukhopadhyay, P., Koury, K., Noviello, S., Pedicone, L. D., Brass, C. A., Albrecht, J. K., and Sulkowski, M. S. 2009. Peginterferon Alfa-2b or Alfa-2a with Ribavirin for treatment of hepatitis C infection. *The New England Journal of Medicine*, 5, 80-93.
- Nn, A. 2015. A review on the extraction methods use in medicinal plants , principle , strength and limitation. *Medicinal & Aromatic Plants*, 4(3), 3–8.
- Ostojić, R. 2006. Hepatitis C. *Medicus*, 15(1), 113–120.
- Pandey, A., Tripathi, S., & Pandey, C. A. 2014. Concept of standardization, extraction and pre phytochemical screening strategies for herbal drug. *Journal of Pharmacognosy and Phytochemistry*, 115(25), 115–119.
- Pawlotsky, J. 2016. Reviews in basic and clinical gastroenterology and hepatology in Interferon-Free Regimens. *Gastroenterology*, 151(1), 70–86.
- Peraturan Menteri Kesehatan RI No 53. 2015. Permenkes Penanganan Hepatitis. *BERITA NEGARA REPUBLIK INDONESIA No.1126, 2015 KEMENKES. Hepatitis Virus. Penanggulangan*.
- Poojari, R., Gupta, S., Maru, G., Khade, B., & Bhagwat, S. 2009. *Sida rhombifolia* ssp. Retusa seed extract inhibits DEN induced murine hepatic preneoplasia and carbon tetrachloride hepatotoxicity. *Asian Pacific Journal of Cancer Prevention*, 10(6), 1107–1112.
- Popescu, C., & Dubuisson, J. 2010. Role of lipid metabolism in hepatitis C virus assembly and entry. *Biology of the Cell*, 102(1), 63–74.
- Prakash, A., Varma, R. K., & Ghosal, S. 1981. Alkaloid Constituents of *Sida Acuta*, *S. Humilis*, *S. rhombifolia* and *S. Spinosa*. *Planta Medica*, 43(1976), 384–388.
- Pritchett, J. C., Naesens, L., & Montoya, J. 2014. Treating HHV-6 infections: the laboratory efficacy and clinical use of anti-HHV-6 agents. The laboratory efficacy and clinical use of anti-HHV-6 agents. In *Human Herpesviruses HHV-6A, HHV-6B, and HHV-7, Third Edition* (pp. 311–331).
- Perhimpunan Peneliti Hati Indonesia (PPHI). 2017. Tata laksana Koinfeksi HIV-Hepatitis C Prospek Terapi Sofosbuvir di Indonesia. Diakses dari <http://pphi-online.org/alpha/?p=1183>, pada tanggal 14 Desember 2019.

- Ramadoss, S., Kannan, K., Balamurugan, K., Ns, J., & Manavalan, R. 2019. Evaluation of hepato-protective activity in the ethanolic extract of *Sida rhombifolia* Linn . against paracetamol - induced hepatic injury in Albino Rats. ***Research Journal of Pharmaceutical, Biological and Chemical Sciences***, 3(1), 497–502.
- Ranjan, S. R., Shankar, M. U., Kumar, P. S., Saiprasanna, & Behera. 2011) Evaluation of antidiarrhoeal activity of *Sida rhombifolia* Linn . root. ***International Research Journal of Pharmacy***, 2(9), 157–160.
- Ravikumar, Y. S., Ray, U., Nandhitha, M., Perween, A., Raja Naika, H., Khanna, N., and Das, S. 2011. Inhibition of hepatitis C virus replication by herbal extract: *Phyllanthus amarus* as potent natural source. ***Virus Research***, 158 (1-2), 89–97.
- Salim, Zamroni dan Munadi, Ernawati. 2007. ***Info Komoditi Tanaman Obat***. Badan Pengkajian dan Pengembangan Perdagangan Kementerian Perdagangan Republik Indonesia.
- Shoukry, Naglaa H. 2018. Hepatitis C vaccines, antibodies, and T Cells. ***Frontiers in Immunology***, 9:1480.
- Singh, A., Dhariwal, S., Navneet. 2018. Traditional uses, antimicrobial potential, pharmacological properties and phytochemistry of *Sida rhombifolia* Linn. : A review. ***International Journal of Innovative Pharmaceutical Sciences and Research***, 6(02), 54-68.
- Sireeratawong, S., Lertprasertsuke, N., Srisawat, U., Thuppia, A., Ngamjariyawat, A., Suwanlikhid, N., & Jaijoy, K. 2009. Acute and subchronic toxicity study of the water extract from *Harrisonia perforata* Merr. in rats. ***Songklanakarinn Journal of Science and Technology***, 31(1), 63–71.
- Smith, D. B., Bukh, J., Kuiken, C., Muerhoff, A. S., Rice, C. M., Stapleton, J. T., & Simmonds, P. 2014. Expanded classification of hepatitis C virus into 7 genotypes and 67 subtypes: Updated criteria and genotype assignment web resource. ***Hepatology***, 59(1), 318–327.
- Soekamto, N. H., Firdaus, Ahmad, F., & Appa, F. E. (2019). Potential of stigmaterol from EtOAc extract *Melochia umbellata* (Houtt) Stapf var. *Visenia* as dengue antiviral. ***Journal of Physics: Conference Series***, 1341(3).
- Syahid, S. F. 2007. Sidogori (*Sida rhombifolia*), Tanaman Obat Potensial Penyembuhan Asam Urat. Litbang. Deptan.Go.Id., 13.
- Tamori, A., Enomoto, M., and Kawada, N. 2016. Recent advances in antiviral therapy for chronic hepatitis C. ***Hindawi Publishing Corporation***, 1-11.
- Truong, D. H., Nguyen, D. H., Ta, N. T. A., Bui, A. V., Do, T. H., & Nguyen, H. C. 2019. Evaluation of the use of different solvents for phytochemical constituents, antioxidants, and in vitro anti-inflammatory activities of *Severinia buxifolia*. ***Journal of Food Quality***, 2019.

- Wahyuni, T. S., Permatasari, A. A., Widiandani, T., Fuad, A., Widyawaruyanti, A., Aoki-Utsubo, C., & Hotta, H. 2018. Antiviral activities of curcuma genus against hepatitis C virus. *Natural Product Communications*, 13(12), 1579–1582.
- Wahyuni, T. S., Tumewu, L., Permanasari, A. A., Apriani, E., Adianti, M., Rahman, A., Hotta, H. 2013. Antiviral activities of Indonesian medicinal plants in the East Java region against hepatitis C virus. *Virology Journal*, 10(1), 1–9.
- Wahyuni, T. S., Widyawaruyanti, A., Lusida, M. I., Fuad, A., Soetjipto, Fuchino, H., ... Hotta, H. (2014). Inhibition of hepatitis C virus replication by chalepin and pseudane IX isolated from *Ruta angustifolia* leaves. *Fitoterapia*, 99, 276–283.
- Wardihan, Rusdi, M., Alam, G., Lukman, & Manggau, M. A. 2013. Selective cytotoxicity evaluation in anticancer drug screening of *Boehmeria virgata* (Forst) guill leaves to several human cell lines: HeLa, WiDr, T47D and Vero. *Dhaka University Journal of Pharmaceutical Sciences*, 12(2), 87–90.
- Weeds of Australia - Biosecurity Queensland. 2019. *Sida rhombifolia*. Diakses dari https://keyserver.lucidcentral.org/weeds/data/media/Html/flacourtia_jangomas.htm
- WHO. 2019. *Hepatitis C*. Diakses dari <https://www.who.int/news-room/fact-sheets/detail/hepatitis-c>, pada tanggal 31 Oktober 2019.
- WHO. 2012. *Prevention and Control of Hepatitis Infection: Framework for Global Action*. Diakses dari <https://www.who.int/hiv/pub/hepatitis/Framework/en/>, pada tanggal 4 November 2019
- Zeisel, M. B., Crouchet, E., Baumert, T. F., and Schuster, C. 2015. Host-Targeting agents to prevent and cure hepatitis C virus infection. *Journal of Viruses*, 7: 5659-5685.
- Zerbinati, N., Lotti, T., Monticelli, D., Rauso, R., González-Isaza, P., D'este, E., França, K. 2018. In vitro evaluation of the biosafety of hyaluronic acid PEG cross-linked with micromolecules of calcium hydroxyapatite in low concentration. *Open Access Macedonian Journal of Medical Sciences*, 6(1), 15–19.
- Zhang, H., Birch, J., Pei, J., Mohamed Ahmed, I. A., Yang, H., Dias, G., El-Din Bekhit, A. 2019. Identification of six phytochemical compounds from asparagus officinalis l. Root cultivars from New Zealand and china using UAE-SPE-UPLC-MS/MS: Effects of extracts on H₂O₂ -induced oxidative stress. *Nutrients*, 11(1), 1–17.
- Zhang, Q. W., Lin, L. G., & Ye, W. C. 2018. Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine (United Kingdom)*, 13(1), 1–26.