

DAFTAR PUSTAKA

- Adhikari, B., Marasini, B.P., Rayamajhee, B., Bhattarai, B.R., Lamichhane, G., Khadayat, K., dkk., 2021. Potential roles of medicinal plants for the treatment of viral diseases focusing on COVID-19: A review. *Phytotherapy Research*, **35**: 1298–1312.
- Alam, S., Sarker, Md.M.R., Afrin, S., Richi, F.T., Zhao, C., Zhou, J.-R., dkk., 2021. Traditional Herbal Medicines, Bioactive Metabolites, and Plant Products Against COVID-19: Update on Clinical Trials and Mechanism of Actions. *Frontiers in Pharmacology*, **12**.
- Al-Hatamleh, M.A.I., Hatmal, M.M., Sattar, K., Ahmad, S., Mustafa, M.Z., Bittencourt, M.D.C., dkk., 2020. Antiviral and Immunomodulatory Effects of Phytochemicals from Honey against COVID-19: Potential Mechanisms of Action and Future Directions. *Molecules (Basel, Switzerland)*, **25**: 0.
- Almagro, J.C., Mellado-Sánchez, G., Pedraza-Escalona, M., dan Pérez-Tapia, S.M., 2022. Evolution of Anti-SARS-CoV-2 Therapeutic Antibodies. *International Journal of Molecular Sciences*, **23**: 9763.
- Astuti, I. dan Ysrafil, 2020. Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): An overview of viral structure and host response. *Diabetes & Metabolic Syndrome*, **14**: 407–412.
- Bachar, S.C., Mazumder, K., Bachar, R., Aktar, A., dan Al Mahtab, M., 2021. A Review of Medicinal Plants with Antiviral Activity Available in Bangladesh and Mechanistic Insight Into Their Bioactive Metabolites on SARS-CoV-2, HIV and HBV. *Frontiers in Pharmacology*, **12**: 732891.
- 'Badan Pengawas Obat dan Makanan - Republik Indonesia', 2022. URL: <https://www.pom.go.id/new/view/more/pers/655/Badan-POM-Terbitkan-Emergency-Use-Authorization-Paxlovid--Sebagai-Obat-COVID-19.html> (diakses tanggal 13/3/2023).
- Bellavite, P. dan Donzelli, A., 2020. Hesperidin and SARS-CoV-2: New Light on the Healthy Function of Citrus Fruits. *Antioxidants*, **9**.
- Boras, B., Jones, R.M., Anson, B.J., Arenson, D., Aschenbrenner, L., Bakowski, M.A., dkk., 2021. Preclinical characterization of an intravenous coronavirus 3CL protease inhibitor for the potential treatment of COVID19. *Nature Communications*, **12**: 6055.
- Buzdağlı, Y., Eyipınar, C.D., Kacı, F.N., dan Tekin, A., 2022. Effects of hesperidin on anti-inflammatory and antioxidant response in healthy people: a meta-analysis and meta-regression. *International Journal of Environmental Health Research*, **0**: 1–16.
- Capcha, J.M.C., Lambert, G., Dykxhoorn, D.M., Salerno, A.G., Hare, J.M., Whitt, M.A., dkk., 2021. Generation of SARS-CoV-2 Spike Pseudotyped Virus for Viral Entry and Neutralization Assays: A 1-Week Protocol. *Frontiers in Cardiovascular Medicine*, **7**: 618651.

- Carroni, M. dan Saibil, H.R., 2016. Cryo electron microscopy to determine the structure of macromolecular complexes. *Methods (San Diego, Calif.)*, **95**: 78–85.
- Chames, P., Van Regenmortel, M., Weiss, E., dan Baty, D., 2009. Therapeutic antibodies: successes, limitations and hopes for the future. *British Journal of Pharmacology*, **157**: 220–233.
- Cheng, F.-J., Huynh, T.-K., Yang, C.-S., Hu, D.-W., Shen, Y.-C., Tu, C.-Y., dkk., 2021. Hesperidin Is a Potential Inhibitor against SARS-CoV-2 Infection. *Nutrients*, **13**: 2800.
- Derosa, G., Maffioli, P., D'Angelo, A., dan Di Pierro, F., 2020. A role for quercetin in coronavirus disease 2019 (COVID-19) **35**: 1230–1236.
- Dieterle, M.E., Haslwanter, D., Bortz, R.H., Wirchnianski, A.S., Lasso, G., Vergnolle, O., dkk., 2020. A Replication-Competent Vesicular Stomatitis Virus for Studies of SARS-CoV-2 Spike-Mediated Cell Entry and Its Inhibition. *Cell Host & Microbe*, **28**: 486-496.e6.
- Dolskiy, A.A., Grishchenko, I.V., dan Yudkin, D.V., 2020. Cell Cultures for Virology: Usability, Advantages, and Prospects. *International Journal of Molecular Sciences*, **21**: 7978.
- Drexler, M. dan Medicine (US), I. of, 2010. *How Infection Works, What You Need to Know About Infectious Disease*. National Academies Press (US).
- Emeny, J.M. dan Morgan, M.J., 1979. Regulation of the Interferon System: Evidence that Vero Cells have a Genetic Defect in Interferon Production. *Journal of General Virology*, **43**: 247–252.
- Ewers, H. dan Schelhaas, M., 2012. Chapter four - Analysis of Virus Entry and Cellular Membrane Dynamics by Single Particle Tracking, dalam: Conn, P.M. (Editor), *Methods in Enzymology, Imaging and Spectroscopic Analysis of Living Cells*. Academic Press, hal. 63–80.
- Filby, A., 2016. Sample preparation for flow cytometry benefits from some lateral thinking. *Cytometry Part A*, **89**: 1054–1056.
- Hoffmann, M., Kleine-Weber, H., Schroeder, S., Krüger, N., Herrler, T., Erichsen, S., dkk., 2020. SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. *Cell*, **181**: 271-280.e8.
- Hu, X., Shrimp, J.H., Guo, H., Xu, M., Chen, C.Z., Zhu, W., dkk., 2021. Discovery of TMPRSS2 inhibitors from virtual screening. *bioRxiv*, 2020.12.28.424413.
- Jackson, C.B., Farzan, M., Chen, B., dan Choe, H., 2022. Mechanisms of SARS-CoV-2 entry into cells. *Nature Reviews Molecular Cell Biology*, **23**: 3–20.
- Jeong, S.A., Yang, C., Song, J., Song, G., Jeong, W., dan Lim, W., 2022. Hesperidin Suppresses the Proliferation of Prostate Cancer Cells by Inducing Oxidative Stress and Disrupting Ca²⁺ Homeostasis. *Antioxidants*, **11**: 1633.

- Jiang, S., Hillyer, C., dan Du, L., 2020. Neutralizing Antibodies against SARS-CoV-2 and Other Human Coronaviruses: (Trends in Immunology 41, 355-359; 2020). *Trends in Immunology*, **41**: 545.
- Joshi, S., Parkar, J., Ansari, A., Vora, A., Talwar, D., Tiwaskar, M., dkk., 2021. Role of favipiravir in the treatment of COVID-19. *International Journal of Infectious Diseases*, **102**: 501–508.
- Junior, A.G., Tolouei, S.E.L., Dos Reis Lívero, F.A., Gasparotto, F., Boeing, T., dan de Souza, P., 2021. Natural Agents Modulating ACE-2: A Review of Compounds with Potential against SARS-CoV-2 Infections. *Current Pharmaceutical Design*, **27**: 1588–1596.
- Kabinger, F., Stiller, C., Schmitzová, J., Dienemann, C., Kokic, G., Hillen, H.S., dkk., 2021. Mechanism of molnupiravir-induced SARS-CoV-2 mutagenesis. *Nature Structural & Molecular Biology*, **28**: 740–746.
- Kandeil, A., Mostafa, A., Kutkat, O., Moatasim, Y., Al-Karmalawy, A.A., Rashad, A.A., dkk., 2021. Bioactive Polyphenolic Compounds Showing Strong Antiviral Activities against Severe Acute Respiratory Syndrome Coronavirus 2. *Pathogens*, **10**: 758.
- Kashyap, P., Thakur, M., Singh, N., Shikha, D., Kumar, S., Baniwal, P., dkk., 2022. In Silico Evaluation of Natural Flavonoids as a Potential Inhibitor of Coronavirus Disease. *Molecules (Basel, Switzerland)*, **27**: 6374.
- Kokic, G., Hillen, H.S., Tegunov, D., Dienemann, C., Seitz, F., Schmitzova, J., dkk., 2021. Mechanism of SARS-CoV-2 polymerase stalling by remdesivir. *Nature Communications*, **12**: 279.
- Li, Q., Liu, Q., Huang, W., Li, X., dan Wang, Y., 2018. Current status on the development of pseudoviruses for enveloped viruses. *Reviews in Medical Virology*, **28**: e1963.
- Li, Y., Kandhare, A.D., Mukherjee, A.A., dan Bodhankar, S.L., 2019. Acute and sub-chronic oral toxicity studies of hesperidin isolated from orange peel extract in Sprague Dawley rats. *Regulatory toxicology and pharmacology: RTP*, **105**: 77–85.
- Mak, T.W., Saunders, M.E., dan Jett, B.D. (Editor), 2014. Immunity to Infection. *Primer to the Immune Response*, 295–332.
- Marzi, M., Vakil, M.K., Bahmanyar, M., dan Zarenezhad, E., 2022. Paxlovid: Mechanism of Action, Synthesis, and In Silico Study. *BioMed Research International*, **2022**.
- McClelland, R.D., Culp, T.N., dan Marchant, D.J., 2021. Imaging Flow Cytometry and Confocal Immunofluorescence Microscopy of Virus-Host Cell Interactions. *Frontiers in Cellular and Infection Microbiology*, **11**.
- McKinnon, K.M., 2018. Flow Cytometry: An Overview. *Current protocols in immunology*, **120**: 5.1.1-5.1.11.
- Meechan, P.J. dan Potts, J. (Editor), 2020. *Biosafety in Microbiological and Biomedical Laboratories*, 6th ed. Centers for Disease Control and Prevention; National Institutes of Health.

- Mishra, S., Chahal, P., Sharma, A., Arya, A., dan Gupta, G., 2021. Fluorimetry: A Simple, Rapid and Sensitive Analytical Technique- A Review **9**: .
- Montenegro-Landívar, M.F., Tapia-Quirós, P., Vecino, X., Reig, M., Valderrama, C., Granados, M., dkk., 2021. Polyphenols and their potential role to fight viral diseases: An overview. *The Science of the Total Environment*, **801**: 149719.
- Mouffak, S., Shubbar, Q., Saleh, E., dan El-Awady, R., 2021. Recent advances in management of COVID-19: A review. *Biomedicine & Pharmacotherapy*, **143**: 112107.
- Murgolo, N., Therien, A.G., Howell, B., Klein, D., Koeplinger, K., Lieberman, L.A., dkk., 2021. SARS-CoV-2 tropism, entry, replication, and propagation: Considerations for drug discovery and development. *PLOS Pathogens*, **17**: e1009225.
- Nie, J., Li, Q., Wu, J., Zhao, C., Hao, H., Liu, H., dkk., 2020. Establishment and validation of a pseudovirus neutralization assay for SARS-CoV-2. *Emerging Microbes & Infections*, **9**: 680–686.
- Osada, N., Kohara, A., Yamaji, T., Hirayama, N., Kasai, F., Sekizuka, T., dkk., 2014. The Genome Landscape of the African Green Monkey Kidney-Derived Vero Cell Line. *DNA Research*, **21**: 673–683.
- Parhiz, H., Roohbakhsh, A., Soltani, F., Rezaee, R., dan Iranshahi, M., 2015. Antioxidant and anti-inflammatory properties of the citrus flavonoids hesperidin and hesperetin: an updated review of their molecular mechanisms and experimental models. *Phytotherapy research: PTR*, **29**: 323–331.
- Perricone, C., Bartoloni, E., dan Gerli, R., 2020. Colchicine, an anti-rheumatic agent, as a potential compound for the treatment of COVID-19. *Reumatologia*, **58**: 261–264.
- Ragab, D., Salah Eldin, H., Taeimah, M., Khattab, R., dan Salem, R., 2020. The COVID-19 Cytokine Storm; What We Know So Far. *Frontiers in Immunology*, **11**: 1446.
- Rahimi, P., Mobarakeh, V.I., Kamalzare, S., SajadianFard, F., Vahabpour, R., dan Zabihollahi, R., 2018. Comparison of transfection efficiency of polymer-based and lipid-based transfection reagents. *Bratislavske lekarske listy*, **119**: 701–705.
- Roingeard, P., 2008. Viral detection by electron microscopy: past, present and future. *Biology of the Cell*, **100**: 491–501.
- Sanders, D.A., 2002. No false start for novel pseudotyped vectors. *Current Opinion in Biotechnology*, **13**: 437–442.
- Schoch, C.L., Ciufu, S., Domrachev, M., Hotton, C.L., Kannan, S., Khovanskaya, R., dkk., 2020. NCBI Taxonomy: a comprehensive update on curation, resources and tools. *Database*, **2020**: baaa062.
- Sehr, P., Rubio, I., Seitz, H., Putzker, K., Ribeiro-Müller, L., Pawlita, M., dkk., 2013. High-Throughput Pseudovirion-Based Neutralization Assay for

- Analysis of Natural and Vaccine-Induced Antibodies against Human Papillomaviruses. *PLOS ONE*, **8**: e75677.
- Septisetyani, E.P., Prasetyaningrum, P.W., Anam, K., dan Santoso, A., 2021. SARS-CoV-2 Antibody Neutralization Assay Platforms Based on Epitopes Sources: Live Virus, Pseudovirus, and Recombinant S Glycoprotein RBD. *Immune Network*, **21**: e39.
- Stanford University, 2022. Biosafety Levels for Biological Agents. *Stanford Environmental Health and Safety*.
- Tanaka, T., Narazaki, M., dan Kishimoto, T., 2014. IL-6 in Inflammation, Immunity, and Disease. *Cold Spring Harbor Perspectives in Biology*, **6**: a016295.
- Tejada, S., Pinya, S., Martorell, M., Capó, X., Tur, J.A., Pons, A., dkk., 2018. Potential Anti-inflammatory Effects of Hesperidin from the Genus Citrus. *Current Medicinal Chemistry*, **25**: 4929–4945.
- Unni, S., Aouti, S., Thiagarajan, S., dan Padmanabhan, B., 2020. Identification of a repurposed drug as an inhibitor of Spike protein of human coronavirus SARS-CoV-2 by computational methods. *Journal of Biosciences*, **45**: 130.
- Utomo, R.Y., Ikawati, M., dan Meiyanto, E., 2020a. 'Revealing the Potency of Citrus and Galangal Constituents to Halt SARS-CoV-2 Infection', *preprint. Medicine & Pharmacology*.
- Utomo, R.Y., Ikawati, M., Putri, D.D.P., Salsabila, I.A., dan Meiyanto, E., 2020b. The Chemopreventive Potential of Diosmin and Hesperidin for COVID-19 and Its Comorbid Diseases. *Indonesian Journal of Cancer Chemoprevention*, **11**: 154.
- Wang, M.-Y., Zhao, R., Gao, L.-J., Gao, X.-F., Wang, D.-P., dan Cao, J.-M., 2020. SARS-CoV-2: Structure, Biology, and Structure-Based Therapeutics Development. *Frontiers in Cellular and Infection Microbiology*, **10**: 587269.
- Whitt, M.A., 2010. Generation of VSV Pseudotypes Using Recombinant ΔG-VSV for Studies on Virus Entry, Identification of Entry Inhibitors, and Immune Responses to Vaccines. *Journal of virological methods*, **169**: 365–374.
- World Health Organization (Editor), 2004. *Laboratory Biosafety Manual*, 3rd ed. ed. World Health Organization, Geneva.
- World Health Organization, 2022. 'WHO Coronavirus (COVID-19) Dashboard', . URL: <https://covid19.who.int> (diakses tanggal 7/11/2022).
- World Health Organization, 2023. 'Coronavirus disease (COVID-19) pandemic', . URL: <https://www.who.int/europe/emergencies/situations/covid-19> (diakses tanggal 10/3/2023).
- World Health Organization (WHO), 2023. 'Coronavirus', . URL: <https://www.who.int/health-topics/coronavirus> (diakses tanggal 10/3/2023).

- Wu, F., Zhao, S., Yu, B., Chen, Y.-M., Wang, W., Song, Z.-G., dkk., 2020. A new coronavirus associated with human respiratory disease in China. *Nature*, **579**: 265–269.
- Wudtiwai, B., Makeudom, A., Krisanaprakornkit, S., Pothacharoen, P., dan Kongtawelert, P., 2021. Anticancer Activities of Hesperidin via Suppression of Up-Regulated Programmed Death-Ligand 1 Expression in Oral Cancer Cells. *Molecules*, **26**: 5345.
- Xia, R., Sheng, X., Xu, X., Yu, C., dan Lu, H., 2018. Hesperidin induces apoptosis and G0/G1 arrest in human non-small cell lung cancer A549 cells. *International Journal of Molecular Medicine*, **41**: 464–472.
- Yang, M., Jiang, Z., Wen, M., Wu, Z., Zha, M., Xu, W., dkk., 2022. Chemical Variation of Chenpi (Citrus Peels) and Corresponding Correlated Bioactive Compounds by LC-MS Metabolomics and Multibioassay Analysis. *Frontiers in Nutrition*, **9**: 825381.
- Zhang, L., Li, Q., Liu, Q., Huang, W., Nie, J., dan Wang, Y., 2017. A bioluminescent imaging mouse model for Marburg virus based on a pseudovirus system. *Human Vaccines & Immunotherapeutics*, **13**: 1811–1817.