

DAFTAR PUSTAKA

1. AlTakarli NS. China's Response to the COVID-19 Outbreak: A Model for Epidemic Preparedness and Management. *Dubai Med J.* 2020;3(2):44–9.
2. Organization WH. Coronavirus disease (COVID-19) situation dashboard. 2021.
3. Charles A Janeway, Jr, Paul Travers, Mark Walport and MJS. *Immunobiology: The Immune System in Health and Disease.* 5th editio. New York: Garland Science; 2001.
4. View of The Application of Moringa Leaf Extract *Moringa oleifera* (Lam) to Increase Non Specific Immunity of Tilapia *Oreochromis niloticus* (Linnaeus 1758) Infected by *Aeromonas hydrophila*.pdf.
5. Dewie A, Usman H, Silfia NN. Pemanfaatan Tanaman Lokal Kelor (*Moringa oleifera*) Guna Peningkatan Daya Tahan Tubuh Di Era Pandemi Covid-19. *JMM (Jurnal Masy Mandiri).* 2022;6(5):4–10.
6. Xiao X, Wang J, Meng C, Liang W, Wang T, Zhou B, et al. *Moringa oleifera* Lam and its Therapeutic Effects in Immune Disorders. *Front Pharmacol.* 2020;11:1–9.
7. Dillasamola D, Aldi Y, Fakhri M, Diliarosta S, Biomechy Oktomaliao P, Noverial. Immunomodulatory Effect Test From Moringa Leaf Extract (*Moringa oleifera* L.) With Carbon Clearance Method In Male White Mice. *Asian J Pharm Clin Res.* 2018;11(9):241–5.
8. Rahmadini. Aktivitas Ekstrak Pegagan Embun (*Hydrocotyle sibthorpiodes* Lam.) Terhadap Titer Antibodi dan Jumlah Sel Leukosit Mencit Putih Jantan yang Terpapar Antigen H5N1. Universitas Andalas. 2021.
9. Ghimire S, Subedi L, Acharya N, Gaire BP. *Moringa oleifera* : A Tree of Life as a Promising Medicinal Plant for Neurodegenerative Diseases. *J Agric Food Chem.* 2021 Dec 8;69(48):14358–71.
10. Trigo C, Castelló ML, Soriano MD, García-Mares FJ, Soriano MD. *Moringa oleifera* : An Unknown Crop in Developed Countries Change. *Foods.* 2021;10(1):31.
11. Mbikay M. Therapeutic potential of *Moringa oleifera* Leaves In Chronic Hyperglycemia And Dyslipidemia: A review. *Front Pharmacol.* 2012;3:1–12.
12. Wahyudi I, Nurhaedah M. Ragam Manfaat Tanaman Kelor (*Moringa oleifera* Lam) bagi Masyarakat. *Info Tek EBONI.* 2017;14(1):63–75.
13. Purba EC. Kelor (*Moringa oleifera* Lam.): Pemanfaatan Dan Bioaktivitas. *Pro-Life.* 2020;7(1):1–12.
14. Kashyap P, Kumar S, Riar CS, Jindal N, Baniwal P, Guiné RPF, et al. Recent Advances in Drumstick (*Moringa oleifera*) Leaves Bioactive Compounds: Composition, Health Benefits, Bioaccessibility, and Dietary Applications. *Antioxidants.* 2022;11(2):1–37.
15. Syarifuddin NA. Daun Kelor Meningkatkan Libido dan Kualitas Sperma Sapi Bali. Yogyakarta: Bintang Pustaka Madani; 2021.
16. Ma ZF, Ahmad J, Zhang H, Khan I, Muhammad S. Evaluation of Phytochemical And Medicinal Properties of Moringa (*Moringa oleifera*) as

- A Potential Functional Food. *South African J Bot.* 2020;129:40–6.
17. Saputra A, Arfi F, Yulian M. Literature Review: Analisis Fitokimia dan Manfaat Ekstrak Daun Kelor (*Moringa oleifera*). *Amina.* 2020;2(3):114–9.
 18. Pratiwi AR, Al-Baarri AN, Hasdar M, Nurrahman, Nurhidajah, Rohadi, et al. Pangan untuk Sistem Imun. Semarang: Universitas Katolik Soegijapranata; 2020. 153 p.
 19. Darwin E, Elvira D, Elfi EF. *Imunologi Dan Infeksi.* Vol. 01. Padang: Andalas University Press; 2021.
 20. Asih, T. S. N., Rosyida, I., Kharis, M., Safa'atullah, F., Mu'afa K. COVID-19 dan Sistem Imun Tubuh: Tinjauan Pemodelan Matematika. 2022;6–26.
 21. Effendi N, Widiastuti H. Identifikasi Aktivitas Immunoglobulin M (IgM) Ekstrak Etanolik Daun Ceplukan (*Physalis minima* Linn.) Pada Mencit. *J Kesehat.* 2014;7(2):353–60.
 22. Forthal DN. Functions of Antibodies. *Microbiol Spectr.* 2014;2(4):1–17.
 23. Syukron M, Handajani R, Setiawaty V. Uji Serologis untuk Menentukan Titer Antibodi. *J Kedokt Brawijaya.* 2013;28(1):70–3.
 24. Christopher J, Burrell CR, Howard FA, Murphy. *Adaptive Immune Responses to Infection.* Fifth Edit. Fenner and White's Medical Virology; 2017. 65–76 p.
 25. Schroeder HW, Cavacini L. Structure and function of immunoglobulins. *J Allergy Clin Immunol.* 2010;125:41–52.
 26. Richard A. McPherson MRP. *Henry's Clinical Diagnosis and Management by Laboratory Methods.* 24th Editi. St. Louis, MO: Elsevier; 2021.
 27. Akondy RS, Fitch M, Edupuganti S, Yang S, Kissick HT, Li KW, et al. Origin And Differentiation Of Human Memory CD8 T Cells After Vaccination. *Nature.* 2017;552(7685):362–7.
 28. Koff WC, Burton DR. *Antibodies to Prevent and Treat Infectious Diseases.* Elsevier. 2017;779–803.
 29. Handayani D, Hadi DR, Isbaniah F, Burhan E, Agustin H. Penyakit Virus Corona 2019. *J Respirologi Indones.* 2020;40:119.
 30. Roujian Lu, et al. Genomic Characterisation And Epidemiology Of 2019 Novel Coronavirus: Implications For Virus Origins And Receptor Binding. 2020:19–21.
 31. Zhu N, Zhang D, Wang W, Li X, Yang B, Song J, et al. A Novel Coronavirus from Patients with Pneumonia in China, 2019. *N Engl J Med.* 2020;382(8):727–33.
 32. Alamsyah F. Covid-19: Penyebab, Penyebaran Dan Pencegahannya. *Indones Sch Netw.* 2020;5–9.
 33. Levani Y, Prastya AD, Mawaddatunnadila S. Coronavirus Disease 2019 (COVID-19): Patogenesis, Manifestasi Klinis dan Pilihan Terapi. *J Kedokt dan Kesehat.* 2021;17(1):44.
 34. Covid19.go.id. Informasi terbaru seputar penanganan COVID-19 di Indonesia oleh Pemerintah. 2023;
 35. Zhou P, Yang X Lou, Wang XG, Hu B, Zhang L, Zhang W, et al. A Pneumonia Outbreak Associated With A New Coronavirus Of Probable Bat Origin. *Nature.* 2020;579(7798):270–3.
 36. Prompetchara E, Ketloy C, Palaga T. Immune responses in COVID-19 and potential vaccines: Lessons learned from SARS and MERS epidemic. *Asian*

- Pacific J Allergy Immunol. 2020;38(1):1–9.
37. Huang C, Wang Y, Li X, Ren L, Zhao J, Hu Y, et al. Clinical Features Of Patients Infected With 2019 Novel Coronavirus in Wuhan, China. *Lancet*. 2020;395(10223):497–506.
 38. Anonim. Farmakope Herbal Indonesia. Kementerian Kesehatan RI. 2017.
 39. Anonim. Farmakope Indonesia edisi VI. Departemen Kesehatan Republik Indonesia. Jakarta: Kementerian Kesehatan Republik Indonesia; 2020.
 40. Hidayah N, Hisan AK, Solikin A, Irawati I, Mustikaningtyas D. Uji Efektivitas Ekstrak *Sargassum muticum* Sebagai Alternatif Obat Bisul Akibat Aktivitas *Staphylococcus aureus*. *J Creat Student*. 2016;1(2).
 41. Mukhtarini. Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif. *J Pharm*. 2011;VII(2):361.
 42. E YTWK, Susanti R, Bintari SH. Analisis Perkembangan Titer Antibodi Hasil Vaksinasi Infectious Bronchitis pada Ayam Petelur Strain Hisex Brown. *Life Sci*. 2019;8(1):25–33.
 43. Srivastava AK, Gupta A, Chauhan D, Meena RC, Sugadev R, Eslavath MR, et al. Development of robust, indigenous ELISA for detection of IgG antibodies against CoV-2 N and S proteins: mass screening. *Appl Microbiol Biotechnol*. 2022;6225–38.
 44. Scott DL, et al. 2000. *ELISA Basics Guide*. Valid Pharm Process Third Ed. 2017;42.
 45. Bettini E, Locci M. SARS-CoV-2 mRNA Vaccines: Immunological mechanism and beyond. *Vaccines*. 2021;9(2):1–20.
 46. Aldi Y, Suhatri. Aktivitas Ekstrak Etanol Biji Jintan Hitam (*Nigella sativa* Linn.) Terhadap Titer Antibodi Dan Jumlah Sel Leukosit Pada Mencit Putih Jantan. *Scientia*. 2011;35–41.
 47. Haerani A, Syahfitri S, Handayani RP, Nursamtari RA, Hamidah M, Makoil SD, et al. Farmakognosi Dan Fitokimia. *Angewandte Chemie International Edition*, 6(11), 951–952. 2023. 82–95 p.
 48. Tri YR. Modul Praktikum Fitokimia. 2023.
 49. Rachmawati SR, Suriawati J. Identifikasi Senyawa Kimia Dan Nilai Gizi Ekstrak Air Daun Kelor (*Moringa oleifera* L.) Sebagai Pengawet Alami Mie Basah. *Sanitas J Teknologi dan Seni Kesehatan*. 2019;10(2):102–16.
 50. Mustarichie R, Mustiroh, Levita J. *Metode Penelitian Tanaman Obat*. Bandung: Widya Padjajaran; 2011.
 51. Utami YP. Pengukuran Parameter Simplisia Dan Ekstrak Etanol Daun Patikala (*Etlingera elatior* (Jack) R.M. Sm) Asal Kabupaten Enrekang Sulawesi Selatan. *Maj Farm dan Farmakol*. 2020;24(1):6–10.
 52. Yusuf MMRA-G, Rorrong YYA, Badaring DR, Aswanti H, MZ SMA, Nurazizah, et al. Percobaan Memahami Perawatan Dan Kesejahteraan Hewan Percobaan. *Jur Biol FMIPA Prgram Stud Biol*. 2022;1–109.
 53. Khairani D, Ilyas S, Yurnadi. Prinsip dan praktik hewan percobaan mencit (*Mus musculus*). 2024. 90 p.
 54. Mutiarahmi CN, Hartady T, Lesmana R. Use of Mice As Experimental Animals in Laboratories That Refer To the Principles of Animal Welfare: a Literature Review. *Indones Med Veterinus*. 2021;10(1):134–45.
 55. Musdalipah M, Agung Wibawa Mahatya Y, Karmilah K, Selfyana Austin T, Reymon R, Nur Saadah D, et al. Toksisitas Akut Dan Lethal Dose (LD50)

- Ekstrak Buah Walay (*Meistera chinensis*) Asal Sulawesi Tenggara Terhadap Mencit (*Mus musculus*). *Pharmacoscrypt*. 2022;5(2):186–200.
56. Paramitasari A. Mengenal Vaksin dan Vaksinasi dalam Pandemi COVID-19. *Proceeding*. 2021;(4):23–40.
57. Kalnin K V., Plitnik T, Kishko M, Zhang J, Zhang D, Beauvais A, et al. Immunogenicity and efficacy of mRNA COVID-19 vaccine MRT5500 in preclinical animal models. *npj Vaccines*. 2021;6(1):1–12.
58. Mustamar FA, Nasir M. Efektivitas Pemeriksaan Antibodi IgM/IgG dalam Penegakan Diagnosis Covid-19: Systematic Review. *J Med Prof*. 2022;4(3):246–54.
59. Santosa B. Teknik Elisa: Metode Elisa Untuk Pengukuran Protein Metallothionein Pada Daun Padi Ir Bagendit. Unimus Press, Semarang. 2020. Hlm. 35.

