

DAFTAR PUSTAKA

1. Nias Raya U, Harefa D, Sarumaha M, Fau A, Telaumbanua K, Hulu F, et al. HAGA: Jurnal Pengabdian Kepada Masyarakat Inventarisasi Tumbuhan Herbal yang digunakan sebagai Tanaman Obat Keluarga. *J Pengabdi Kpd Masy* [Internet]. 2023;2(2):1–11. Available from: <https://jurnal.uniraya.ac.id/index.php/HAGA>
2. Wulandari R, Nurainas N, Aadrean A, Syamsuardi S, Prihatini R. Inventarisasi Tumbuhan yang Berpotensi Penghasil Minyak Atsiri dari Famili Lamiaceae di Sumatera Barat Berbasis Spesimen Herbarium. *J Biol UNAND*. 2023;11(2):62.
3. Hildasari N, Hayati A. Potensi Keanekaragaman Flora Sebagai Tumbuhan Obat di Wana Wiyata Widya Karya, Sanggar Indonesia Hijau, Kabupaten Pasuruan. *Sciscitatio*. 2021;2(2):74–81.
4. Dillasamola D, Aldi Y, Wahyuni FS, Rita RS, Dachriyanus, Umar S, et al. Study of Sungkai (*Peronema canescens*, Jack) leaf extract activity as an immunostimulators with in vivo and in vitro methods. *Pharmacogn J*. 2021;13(6):1397–407.
5. Noena RAN, Base NH. Inventarisasi Tanaman dan Ramuan Tradisional Etnis Sulawesi Selatan sebagai Imunomodulator. *J Kesehat Yamasi Makasar*. 2021;5(2):42–9.
6. Aziz IR, Armita D, Hajrah H, Makmur K. Gen Regulasi Tanaman Lokal Indonesia: Imunomodulator Covid-19. *Teknosains Media Inf Sains Dan Teknol*. 2020;14(2):238–46.
7. Sitharam N, Tegally H, Silva D de C, Baxter C, de Oliveira T, Xavier JS. SARS-CoV-2 Genomic Epidemiology Dashboards: A Review of Functionality and Technological Frameworks for the Public Health Response. *Genes (Basel)*. 2024;15(7):876.
8. (ILO) ILO, Kemnaker, Indonesia IDKK. Pedoman Pencegahan dan Penanggulangan Covid-19 [Internet]. Unais. 2020. 1–83 p. Available from: https://www.ilo.org/jakarta/whatwedo/publications/WCMS_769266/lang--en/index.htm
9. Li X, Geng M, Peng Y, Meng L, Lu S. Molecular immune pathogenesis and diagnosis of COVID-19. *J Pharm Anal* [Internet]. 2020 Apr;10(2):102–8. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S2095177920302045>
10. Syofyan S, Almahdy, Almahdy Rachmaini F, Dillasamola D. The Immunostimulatory Effects of *Peronema canescens*. Jack Leaves Extract in *Mus musculus L*. Using the Carbon Clearance Method. *Trop J Nat Prod Res* [Internet]. 2024 Mar 30;8(3). Available from: <https://tjnpr.org/index.php/home/article/view/3686>
11. Hidayat S, Syahputra AA. Sistem Imun Tubuh Pada Manusia. *Vis Herit J Kreasi Seni dan Budaya*. 2020;2(03):144–9.
12. Latief M, Sutrisno, Dasrinal E, Safitri W, Tarigan IL. Immunomodulator Activity of 5,7-dihydroxy isoflavones and β-Sitosterol from *Peronema canescens* Jack Leaves Methanol and Ethyl Acetate Extract. In GDIC; 2023. p. 558–72. Available from: https://www.atlantis-press.com/doi/10.2991/978-2-38476-110-4_57

13. Ali F, Rahul, Naz F, Jyoti S, Siddique YH. Health functionality of apigenin: A review. *Int J Food Prop* [Internet]. 2017 Jun 3;20(6):1197–238. Available from: <https://www.tandfonline.com/doi/full/10.1080/10942912.2016.1207188>
14. Rahman A, Putri Rengganis G, Prayuni S, Novriyanti I, Novita Sari T, Dwi Pratiwi P, et al. THE EFFECT OF SUNGKAI LEAVES (PERONEMA CANESCENS) INFUSION ON THE NUMBER OF LEUKOCYTES IN MICE. *J Healthc Technol Med.* 2021;7.
15. Dillasamola D, Aldi Y, Kurniawan H, Jalius IM. Immunomodulator Effect Test of Sungkai Leaves (Peronema canescens Jack.) Ethanol Extract Using Carbon Clearance Method. In 2021. Available from: <https://www.atlantis-press.com/article/125962524>
16. Tarigan IL, Sutrisno S, Rumaida R, Aini IPS, Latief M. Isolation of a Flavone Apigenin and a Steroids Squalene from Peronema canescens Jack Leaves with Anti-Inflammatory Activities. *Pharmacogn J* [Internet]. 2023 Jan 9;14(6):744–52. Available from: <https://phcogj.com/article/1905>
17. Fadhli H, Susanti E. Segala sesuatu tentang sungkai. 2024. 1–90 p.
18. Sari O, Saputri GAR, Hermawan D. UJI EFEK ANALGESIK EKSTRAK ETANOL DAUN SUNGKAI (Peronema canescens Jack) TERHADAP MENCIT (Mus musculus). *J Med Malahayati* [Internet]. 2023 Oct 16;7(3):741–7. Available from: <https://ejurnalmalahayati.ac.id/index.php/medika/article/view/9548>
19. Muhamni M, Efita E, Ferlinahayati F, Julinar J, Yudono B. Diversifikasi sediaan daun sungkai (paromena canescens jack.) sebagai minuman kesehatan untuk meningkatkan imun tubuh. *J Pepadu.* 2023;4(1):133–41.
20. Francisca D, Kahanjak DN, Frethernetty A. Uji aktivitas antibakteri ekstrak etanol daun sungkai (Peronema canescens Jack) terhadap pertumbuhan Escherichia coli dengan metode difusi cakram Kirby-Bauer. *J Pengelolaan Lingkung Berkelanjutan (Journal Environ Sustain Manag* [Internet]. 2020 Apr 27;460–70. Available from: <https://journal.bkpsl.org/index.php/jplb/article/view/6>
21. Carolina M, Araya W, Carolina P, Permatasari Iskandar D. EFEKTIFITAS PEMERIAN SEDUHAN DAUN SUNGKAI (PERONEMA CANESCENS JACK) TERHADAP PERUBAHAN TEKANAN DARAH PADA LANSIA HIPERTENSI DI WILAYAH UPT PUSKESMAS PAHANDUT PALANGKA RAYA. *J Kesehat Tambusai* [Internet]. 2022 Sep 10;3(3):442–52. Available from: <http://journal.universitaspahlawan.ac.id/index.php/jkt/article/view/6448>
22. Latief M, Tarigan IL, Sari PM, Aurora FE. Aktivitas Antihiperurisemia Ekstrak Etanol Daun Sungkai (Peronema canescens Jack) Pada Mencit Putih Jantan. *Pharmacon J Farm Indones* [Internet]. 2021 Jun 30;18(1):23–37. Available from: <https://journals.ums.ac.id/index.php/pharmacon/article/view/12880>
23. Nurfauziyah, Yulizar Y, Meliana Y. Extraction of Sungkai (Peronema canescens Jack) leaves, Antioxidant Activity Test and Its Nanoemulsion Formulation. Dwi Anggoro D, Kumoro AC, Dahnum D, Restu WK, Sembiring KC, Indriyati, et al., editors. *E3S Web Conf* [Internet]. 2024 Mar 20;503:07008. Available from: <https://www.e3s-conference.org/>

- conferences.org/10.1051/e3sconf/202450307008
24. Ibrahim A, Kuncoro H. Identifikasi Metabolit Sekunder dan Aktivitas Antibakteri Ekstrak Daun Sungkai (Peronema canescens JACK.) terhadap Beberapa Bakteri Patogen. *J Trop Pharm Chem* [Internet]. 2012 Dec 31;2(1):8–18. Available from: <https://jtpc.farmasi.unmul.ac.id/index.php/jtpc/article/view/43>
25. Ulfa ED, Syamsiah S, Anuar H, Afriliani CN. PEMBUATAN SABUN PADAT EKSTRAK DAUN SUNGKAI (Peronema canescens Jack) SEBAGAI ANTIBAKTERI TERHADAP Staphylococcus aureus. *J Tek Kim VOKASIONAL* [Internet]. 2023 Mar 31;3(1):28–38. Available from: <http://ejurnal.polnes.ac.id/index.php/jimsi/article/view/366>
26. Park HR, Seo JJ, Park CH, Yu D, Bark KM. Spectroscopic properties of apigenin in various bulk solutions and aerosol-ot reverse micelles. *Bull Korean Chem Soc*. 2016;37(9):1415–25.
27. Sylvie Kurniasih, Ridwan Wijaya, Dina Mulyanti, Taufik Muhammad Fakih. Simulasi Pengembangan Obat Baru pada Senyawa Apigenin, Curcumin, Fisetin, Naringenin dan Silibinin terhadap Protein Target Phosphoinositide 3-Kinases (PI3-Ks) secara In Silico. *Bandung Conf Ser Pharm* [Internet]. 2022 Jul 31;2(2). Available from: <https://proceedings.unisba.ac.id/index.php/BCSP/article/view/4403>
28. Anwar R. Apigenin Daun Rasamala (*Altingia excelsa nornha*) Sebagai Antibakteri Enterococcus faecalis. *Insisiva Dent J Maj Kedokt Gigi Insisiva*. 2018;7(2):37–42.
29. Hosseinzade A, Sadeghi O, Naghdipour Biregani A, Soukhtehzari S, Brandt GS, Esmaillzadeh A. Immunomodulatory Effects of Flavonoids: Possible Induction of T CD4+ Regulatory Cells Through Suppression of mTOR Pathway Signaling Activity. *Front Immunol* [Internet]. 2019 Jan 31;10. Available from: <https://www.frontiersin.org/article/10.3389/fimmu.2019.00051/full>
30. Y. MI, Sukweenadhi J, Kustiawan PM, Firdayanti F, Nuswantoro A, S. AW, et al. Imunologi Dasar. Nurtamin T, Salma WO, HN MR, editors. Eureka Media Aksara; 2023.
31. Jarczak D, Nierhaus A. Cytokine Storm — Definition , Causes , and Implications. 2022;1–30.
32. Shimizu M. Clinical Features of Cytokine Storm Syndrome. In 2024. p. 33–42. Available from: https://link.springer.com/10.1007/978-3-031-59815-9_4
33. 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* [Internet]. 2020 Feb;395(10223):497–506. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0140673620301835>
34. Rahadiani D, Herlinawati. SISTEM IMUNITAS ALAMIAH DAN SISTEM IMUNITAS ADAPTIF Natural. *Nusant Hasana J*. 2022;2(3):98–106.
35. Wasityastuti W, Dhamarjati A, Siswanto. Imunosenesens dan Kerentanan Populasi Usia Lanjut Terhadap Coronavirus Disease 2019 (Covid-19). *Respirologi Indones*. 2020;40(3):182–91.
36. Rahim OIS, Wangko S, Kalangi SJR. Mekanisme Kerja Sel Langerhans

- Sebagai Sel Penyaji Antigen. J Biomedik. 2013;3(3):137–43.
37. Sun JC, Ugolini S, Vivier E. Immunological memory within the innate immune system. EMBO J. 2014;33(12):1295–303.
38. Prakoeswa FR. Peranan Sel Limfosit Dalam Imunologi: Artikel Review. J Sains dan Kesehat. 2020;2(4):525–37.
39. Tortora, J.G. Derrikson B. Anatomy and physiology 14th edition 1 9061. 2014;1–20.
40. Ray King K, Fuselier L, Sirvisetty H. LGBTQIA+ invisibility in nursing anatomy/physiology textbooks. J Prof Nurs [Internet]. 2021;37(5):816–27. Available from: <https://doi.org/10.1016/j.profnurs.2021.06.004>
41. Clark R, Kupper T. Old Meets New: The Interaction Between Innate and Adaptive Immunity. J Invest Dermatol [Internet]. 2005 Oct;125(4):629–37. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0022202X15324763>
42. Iwasaki A, Medzhitov R. Control of adaptive immunity by the innate immune system. Nat Immunol. 2015;16(4):343–53.
43. Harlim A. BUKUAJAR ILMUKESEHATANKULITDANKELAMIN IMUNOLOGIINFLAMASI [Internet]. FK UKI; 2018. 52 p. Available from: <http://repository.uki.ac.id/id/eprint/2857%0A>
44. Lee AJ, Ashkar AA. The Dual Nature of Type I and Type II Interferons. Front Immunol [Internet]. 2018 Sep 11;9. Available from: <https://www.frontiersin.org/article/10.3389/fimmu.2018.02061/full>
45. Kelchtermans H, Billiau A, Matthys P. How interferon- γ keeps autoimmune diseases in check. Trends Immunol [Internet]. 2008 Oct;29(10):479–86. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S1471490608001981>
46. Tang M, Tian L, Luo G, Yu X. Interferon-gamma-mediated osteoimmunology. Front Immunol. 2018;9(JUN).
47. Hu ZJ, Xu J, Yin JM, Li L, Hou W, Zhang LL, et al. Lower Circulating Interferon-Gamma Is a Risk Factor for Lung Fibrosis in COVID-19 Patients. Front Immunol. 2020;11(September):1–3.
48. Wahyuni W, Yusuf MI, Malik F, Lubis AF, Indalifiany A, Sahidin I. Efek Imunomodulator Ekstrak Etanol Spons Melophlus sarasinorum Terhadap Aktivitas Fagositosis Sel Makrofag Pada Mencit Jantan Balb/C. J Farm Galen (Galenika J Pharmacy). 2019;5(2):147–57.
49. Devagaran T, Diantini A. Senyawa Immunomodulator Dari Tanaman. :1–17.
50. Venkatalakshmi P, Vadivel V, Brindha P. Role of phytochemicals as immunomodulatory agents: A review. Int J Green Pharm. 2016;10(1):1–18.
51. Widiasuti L, Liestyaningrum W, Wati L, Rahardiantini I, Siagian Y, Atrie UY. Pencegahan dan Penyebaran Wabah Covid-19 di Daerah Pesisir. J Abdimas Kesehat. 2024;6(1):01.
52. Fitriani NI. TINJAUAN PUSTAKA COVID-19: VIROLOGI, PATOGENESIS, DAN MANIFESTASI KLINIS. J Med Malahayati [Internet]. 2021 Oct 6;4(3):194–201. Available from: <http://ejurnalmalahayati.ac.id/index.php/medika/article/view/3174>
53. Levani Y, Prastyo AD, Mawaddatunnadila S. Coronavirus Disease 2019 (COVID-19): Patogenesis, Manifestasi Klinis dan Pilihan Terapi. J Kedokt

- dan Kesehat. 2021;17(1):44.
54. Aydin S. A short history, principles, and types of ELISA, and our laboratory experience with peptide/protein analyses using ELISA. *Peptides* [Internet]. 2015;72:4–15. Available from: <http://dx.doi.org/10.1016/j.peptides.2015.04.012>
55. Konstantinou GN. Enzyme-Linked Immunosorbent Assay (ELISA). In 2017. p. 79–94. Available from: http://link.springer.com/10.1007/978-1-4939-6925-8_7
56. Suryadi Y, Manzila I, Machmud M. Potensi Pemanfaatan Perangkat Diagnostik ELISA serta Variannya untuk Deteksi Patogen Tanaman. *J AgroBiogen*. 2016;5(1):39.
57. Wahyuwardani S, Noor SM, Bakrie B. Animal Welfare Ethics in Research and Testing: Implementation and its Barrier. *Indones Bull Anim Vet Sci*. 2020;30(4):211.
58. Yusuf MMRAF, 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.
59. Sri Rejeki P, Cahyani Putri EA, Eka Prasetya R. OVARIEKTOMI PADA TIKUS DAN MENCIT. Surabaya: AIRLANGGA UNIVERSITY PRESS No.; 2018. 1–23 p.
60. Dillasamola D, Aldi Y, Fakhri M, Diliarosta S, Biomechy Oktomalio 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.
61. Shoubaky GA El, Abdel-Daim MM, Mansour MH, Salem EA. Isolation and Identification of a Flavone Apigenin from Marine Red Alga *Acanthophora spicifera* with Antinociceptive and Anti-Inflammatory Activities. *J Exp Neurosci* [Internet]. 2016 Jan 18;10:JEN.S25096. Available from: <http://journals.sagepub.com/doi/10.4137/JEN.S25096>
62. Parawansah, Wahyuni, Mahmudah Z. Uji Efek Antipiretik dan Antiinflamasi Ekstrak Etanol Buah Pare (*Momordica charantia* L.) terhadap Mencit Jantan. *J Ilm Fak Kedokt*. 2016;4(1):309–15.
63. Azzima N, Putra AW, Ramadhani S, Putra A, Achyar A. Efektivitas Beberapa Jenis Vaksin Terhadap Sistem Imun dalam Melawan Virus SARS-CoV-2. *Pros SEMNAS BIO* 2021. 2021;1(1):241–52.
64. Adang H, Mutualib A, Lubis H, Budi B, Sriyono, Hambali, et al. Pertemuan dan presentasi ilmiah penelitian dasar ilmu pengetahuan dan teknologi nuklir. 2010;(0274).