

## DAFTAR PUSTAKA

- Aguiar, M.F., Guterres, M.M., Benarrosh, E.M., Verri, W.A., Campos, C.C., Dias, Q. 2024. The Nociceptive and Inflammatory Responses Induced by the Ehrlich Solid Tumor Are Changed in Mice Healed of Plasmodium berghei Strain ANKA Infection after Chloroquine Treatment. *Journal of Parasitology Research*. 1(1): 1-12.
- Airaodion, A.i., Airaodion,E.O., Ekenjoku, J.A., Ogbuagu, E.O., Ogbuagu, U. 2019. Antiplasmodial Potency of Ethanolic Leaf Extract of Carica papaya Against Plasmodium berghei in Infected Swiss Albino Mice. *Asian Journal of Medical Principles and Clinical Practice*. 2(2): 60-67.
- Akafity, G., Kumi, N., Ashong, J. 2024. Diagnosis and management of malaria in the intensive care unit. *Journal of Intensive Medicine*. 1(1):1-13.
- Aulia, A.R., Ahwan., Ariastuti, R. 2024. Analisis Kandungan Fenolik Total Pada Fraksi Ekstrak Etanol Daun Adas (Foeniculum vulgare Mill) Dengan Metode Partisi Bertingkat. *Journal of Pharmaceutical Science and Medical Research*. 6(2):74-80.
- Avichena., Anggriyani,R. 2023. Analisis Penyakit Malaria Akibat Infeksi Plasmodium sp Terhadap Darah Manusia. 2023. *Jurnal Penelitian Biologi, Botani, Zoologi dan Mikrobiologi*. 8(1): 30-37.
- Azizah, I.H., Arwati, H., Sandhika, W., Mufasirin, M., Budhi, T.I. 2023. Protein Encodes Plasmodium berghei Vaccine Candidates. *Malaysian Journal of Medicine and Health Science*. 1(1): 177-181.
- Baak, M.A., Mariman, E.C. 2023. Physiology of Weight Regain after Weight Loss: Latest Insights. *Springer*. 14(28): 1-9.
- Badaring, D.R. *et al.* 2020. Uji Ekstrak Daun Maja (Aegle marmelos L.) terhadap Pertumbuhan Bakteri Escherichia coli dan Staphylococcus aureus. *Indonesian Journal of Fundamental Sciences*. 6(1) : 16.
- Bai, R., Yao, C., Zhong, Z., Ge, J., Bai, Z, Ye, X. *et al.* 2021. Discovery of natural anti-inflammatory alkaloids: Potential leads for the drug discovery for the treatment of inflammation. *European Journal of Medicinal Chemistry*. 18-22.
- Balaji, S.N., Deshmukh, R., Trivedi, V. 2020. Severe malaria: Biology, clinical manifestation, pathogenesis and consequences. *Journal Vector Borne Dis*. 1(1): 1-13.
- Ballenger, L. 2024. Animal Diversity Web. University of Michigan Museum of Zoology. Diakses pada 17 Mei 2025. ADW: Mus musculus: INFORMATION.
- Buthelezi, M.N., Masia, K.J., Masamba, P., Simelane, M.B.C., Kappo, A.P. 2025. Understanding the interplay of malarial pathogenesis, host immune response and oxidative stress: Implications for disease progression and therapeutic strategies. *Aspects of Molecular Medicine*. 1(1): 1-13.
- Carrel, M., Kim, S., Mwandagaliirwa, M.K., Mvuama., Bala, J., Nkalani, M. *et al.* 2021. Individual, household and neighborhood risk factors for malaria in the

- Democratic Republic of the Congo support new approaches to programmatic intervention. *Health Place*. 1(1) :1-22.
- CDC. 2024. Life Cycle of Malaria. Diakses pada 17 Mei 2025. <https://www.cdc.gov/dpdx/malaria/index.html>.
- Coppola, A., Capuani, B., Pacific, F., Pastore, D., Arriga, R., Andreadi, A. *et al.* 2021. Activation of Peripheral Blood Mononuclear Cells and Leptin Secretion: New Potential Role of Interleukin-2 and High Mobility Group Box (HMGB)1. *International Journal of Molecular Sciences*. 1-18.
- Dheebiha, C., Vishwanath, Y.C. 2020. Advances in Cultivation of Fennel. *Journal of Pharmacognosy and Phytochemistry*. 9(2):1295-1300.
- Douti, Y.L., Canepa, G.E., Barletta, A.B., Murry, C.B. 2020. In Vivo Characterization of Plasmodium berghei P47 (Pbs47) as a Malaria Transmission- Blocking Vaccine Target. *Frontiers in Microbiology*. 11(1): 1-13.
- Ekasari, W., Mahardiani, A., Putri, N.T. 2023. Terpenoids from Euphorbiaceae as a source of antimalarial medicines. *Pharmacy Education*. 23(4): 294-299.
- Elbands, E.S., Fatriyadi, J., Suharmanto. 2022. Faktor-Faktor yang Berhubungan Dengan Kejadian Malaria Vivax. *Jurnal Penelitian Perawat Profesional*. 4(2): 655-662.
- Fauziah, N., Anindhita, E., Ekawardhani, S., Afifah, D., Hutagalung, J. 2022. Malaria Infection and Socioeconomics in Malaria Endemic Areas of East Nusa Tenggara, Indonesia. *Majalah Kedokteran Bandung*. 55(1): 35-41.
- Garcia, G., Janku, M., Hergott, D., Donfack, O., Smith, J., Jeremias. *et al.* 2023. Identifying individual, household and environmental risk factors for malaria infection on Bioko Island to inform interventions. *Malaria Journal*. 1-13.
- Gebreegziabher, E., Dah, C., Coulibaly, B., Sie, A., Bountogo, M., Ouattara, M. *et al.* 2023. The Association between Malnutrition and Malaria Infection in Children under 5 Years in Burkina Faso: A Longitudinal Study. *Journal Trop Med*. 108(3): 561-568.
- Gomes, A.R., Castro, A.L.G., Ferreira, G.G., Brigido, H.P., Varela, E.L., Vale, V.V. *et al.* 2024. Impact on Parasitemia, Survival Time, and Pro Inflammatory Immune Response in Mice Infected With Plasmodium berghei Treated With Eleutherine plicata. *Frontiers in Pharmacology*. 1(1):1-13.
- Guan, W., Yang, S., Zhao, Y., Cheng, W., Song, X., Yao, Y. *et al.* 2021. Observation of the Gut Microbiota Profile in C57BL/6 Mice Induced by Plasmodium berghei ANKA Infection. *Frontiers*. 11(1):1-11.
- Habte, G., Tamiru, S., Eyasu, K. 2023. In vivo antimalarial activity of the 80% methanolic crude fruit extract of Lagenaria siceraria (Molina) Standl. against Plasmodium berghei infected mice. *Heliyon*. 1(1): 1-10.
- Hamilton, F., Mitchell, R.E., Constantinescu, A., Hughes, D., Cunnington, A. 2023. The effect of interleukin-6 signaling on severe malaria: A Mendelian randomization analysis. *International Journal of Infectious Diseases*. 129: 251-259.

- Han, M.S., White, A., Perry, R.J., Camporez, J.P., Hidalgo, J., Shulman, G.I. *et al.* 2020. Regulation of Adipose Tissue Inflammation by Interleukin 6. *PNAS*. 117(6): 2751-2760.
- Hhera, J.J., Makenga, G., Geertruyden, J.P. *et al.* 2024. Malaria on Other Risk Factors for Malnutrition, and The Impact of Intermitten Preventive Therapy for Malaria on Nutritional Status of School-age Children in Tanzania. *International liscence*. 1-53.
- Hidayati, F., Raharjo, M., Martini., Wahyuningsih, N.E., Setiani, O. 2023. Hubungan Kualitas Lingkungan dengan Kejadian Malaria (Wilayah Endemis Malaria, Lingkup Kerja Puskesmas Kaligesing, Kabupaten Purworejo Tahun 2022). *Jurnal Kesehatan Lingkungan Indonesia*. 22(1): 21-27.
- Hidayati, E., Hunaifi, I. 2023. Brain Injury and Neurocognitive Problem in Cerebral Malaria. *Jurnal Kedokteran Umum*. 12(1): 1377-1387.
- Jadid, N., Widodo, A.F., Ermavitalini, D., Sa'adah, N.N., Gunawan, S., Nisa, C. 2023. The medicinal Umbelliferae plant Fennel (*Foeniculum vulgare* Mill.): Cultivation, traditional uses, phytopharmacological properties, and application in animal husbandry. *Arabian Journal of Chemistry*. 1-19.
- Janse, C. 2023. Life Cycle of *Plasmodium berghei* (online). <https://pberghei.nl/lifecycle-of-p-berghei/> . Diakses pada 22 Juni 2025.
- Jindal, J., Hill, J., Harte, J., Dynachie, S.J., Kronsteiner, B. 2024. Starvation and infection: The role of sickness-associated anorexia in metabolic adaptation during acute infection. *Metabolism*. 1(1): 1-10.
- Juniantara, A.K., Laksemi, D.A., Damayanti, P.A., Diarthini, N.L. 2022. Uji Aktivitas Buah Mahkota Dewa (*Phaleria macrocarpa*) Sebagai Antimalaria Pada Mencit yang Diinfeksi *Plasmodium Berghei*. *Jurnal Medika Udayana*. 11(12).
- Kementerian Kesehatan Republik Indonesia. 2023. Buku Saku Tatalaksana Kasus Malaria. P2PM: Jakarta.
- Kruk, J., Enein, B., Duchnik, E., Marchlewicz, M. 2022. Antioxidative properties of phenolic compounds and their effect on oxidative stress induced by severe physical exercise. *The Journal of Physiological Sciences*. 72(19): 1-24.
- Li, Q., Xie, L., Zhang, J., Brandon, M. 2021. Identification and Assessment of *Plasmodium berghei* Merozoites and Cell Cycle by Flow Cytometry. *Military Medicine*. 186(1): 108-115.
- Li, C., Sanni, L., Omer, F., Riley, E., Langhorne, J. 2023. Pathology of *Plasmodium chabaudi* Infection and Mortality in Interleukin-10-Deficient Mice Are Ameliorated by Anti-Tumor Necrosis Factor Alpha and Exacerbated by Anti-Transforming Growth Factor Antibodies. *Infection and Immunity journal*. 71(9): 4850–4856.
- Liabagui, S.L., Ntigu, C.N., Mengome, M., Kouna, L.C., Tsafack, N.P, Tegomo. *Et al.* 2023. Cytokine response in asymptomatic and symptomatic *Plasmodium falciparum* infections in children in a rural area of southeastern Gabon. *Plos One*. 1(1) : 1-15.

- Liffner, B., Diaz, A., Blauwkamp, J., Anaguano, D., Frolich, S., Muralidharan. Et al. 2023. Atlas of Plasmodium falciparum intraerythrocytic development using expansion microscopy. *Microbiology and Infectious Disease*. 1-39.
- Lin, J., Zeng, S., Chen, Q., Liu, G., Pan, S. *et al.* 2023. Identification of Disease-Related Genes in Plasmodium berghei by Network Module Analysis. *BMC Microbiology*. 1-11.
- Liu, W., Cui, X., Zhong, Y., Ma, R., Liu, B., Xia, Y. 2023. Phenolic metabolites as therapeutic in inflammation and neoplasms: Molecular pathways explaining their efficacy. *Journal Pharmacological*. 1-10.
- Lund, J., Clemmensen, C. 2023. Physiological protection against weight gain: evidence from overfeeding studies and future directions. *Journal of Royal Society Publishing*. 1-11.
- Madayanti, S., Raharjo, M., Purwanto, H. 2022. Faktor Resiko Yang Mempengaruhi Kejadian Malaria di Wilayah Distrik Jayapura Selatan Kota Jayapura. *Jurnal Kesehatan Lingkungan Indonesia*. 21(3): 358-365.
- Mahmud, A.R., Ema, T.I., Fajianur, M., Shahriar, A., Ahmed, H., Hasan, M. *et al.* 2023. Natural flavonols: actions, mechanisms, and potential therapeutic utility for various diseases. *University Journal of Basic and Applied Sciences*. 1-18.
- Malino, B.T., Langi, F.L., Ratag, B.T. 2023. Analisis Distribusi Kasus Dan Kematian Akibat Malaria Di Indonesia. *Jurnal Kesehatan Tambusai*. 4(3): 3907-3915.
- Mehra, N., Tamta, G., & Nand, V. 2021. A review on nutritional value, phytochemical and pharmacological attributes of Foeniculum vulgare mill. *Journal of Pharmacognosy and Phytochemistry*. 10(2):1255-1263.
- Meneze, M.N., Salles, E.M., Veiera, F., Amaral, E.P., Luis, V.Z. *et al.* 2019. IL-1 $\alpha$  promotes liver inflammation and necrosis during blood-stage Plasmodium chabaudi malaria. *Scientific report*. 9(1) : 1-12.
- Mohamedahmed, K.A. 2023. Association between Elevated TNF- $\alpha$  Levels and Severe Malaria. *Galen Medical Journal*. 1(1):1-2.
- Nakadate, K., Ito, N., Kawakami, K., Yamazaki, N. 2025. Anti-Inflammatory Actions of Plant-Derived Compounds and Prevention of Chronic Diseases: From Molecular Mechanisms to Applications. *International Journal of Molecular Sciences*. 1-24.
- Ndruru, G.S.P. 2023. Pencegahan Infeksi Malaria Pada Ibu Hamil. *Medical Methodist Journal*. 1(2): 2-6.
- Ni'ma, A., Lindawati, N.Y. 2022. Analisis Kadar Total Flavonoid Ekstrak Etanol Daun Adas (Foeniculum vulgare) Secara Spektrofotometri Visibel. *Jurnal Farmasi Sains dan Praktis*. 8(1): 1-11.
- Noreen, S., Tufail, T., Ain, H.B.U., Awuchi, C.G. 2023. Pharmacological, nutraceutical, functional and therapeutic properties of fennel (Foeniculum vulgare). *International Journal Of Food Properties*. 26(1) : 915-927.

- Nureye, D., Assefa, S. 2020. Old and Recent Advances in Life Cycle, Pathogenesis, Diagnosis, Prevention, and Treatment of Malaria Including Perspectives in Ethiopia. *The Scientific World Journal*. 1(1):1-17.
- Olatunde, A., Cornwall, D., Roedel, M., Lamb, T. 2022. Mouse Models for Unravelling Immunology of Blood Stage Malaria. *Vacines*. 10(2): 1-41.
- Opajobi, A. O., Ojugbeli, E. T., Uzuegbu, U. E., Elu, C. O., Toloyai, P. Y., Awhin, P. E. et al., 2022. Inhibition of Plasmodium berghei growth by alkaloid extract of Phyllanthus amarus in mice increased haem level and stabilized erythrocyte membrane. *International Journal of Health Sciences*. 6(S2):13028-13043.
- Otun, S. O., Graca, R., Onisuru, O., & Ikechukwu, B. 2024. Evaluasi Plasmodium berghei Model dalam Penelitian Malaria. *Jurnal Sinyal Seluler*. 5(3): 96– 113.
- Panche, A.N., Diwan, A.D., Chandra, S.R. 2020. Flavonoid an Overview. *Journal of Nutritional Science*. 1(1) : 1-15.
- Parmar, R.M., Ahmet, S.B. 2023. Physiologi, Appetite, and Weight Regulation. *Statpearls*. Diakses pada 17 Mei 2025.  
<https://www.ncbi.nlm.nih.gov/books/NBK574539/>
- Patsalos, O., Dalton, B., Leppanen, J., Inrahim, M.A., Himmerich, H. 2020. Impact of TNF Inhibitors on Body Weight and BMI. *Frontiers in Pharmacology*. 11(1): 481-496.
- Phillips, C.L., Grayson, B.E. 2020. The immune remodel: Weight loss-mediated inflammatory changes to obesity. *Experimental Biology and Medicine*. 109-121.
- Picaluga, P., Ignatius, W.. 2022. Malaria - Recent Advances and New Perspectives. *IntechOpen*. Diakses pada 16 Agustus 2025.  
<https://www.intechopen.com/books/11576>
- Pucci, A., Batterham, R.L. 2020. Endocrinology of the Gut and The Regulation of Body Weight and Metabolism. *NCBI*. Diakses pada 19 Agustus 2025.  
<https://www.ncbi.nlm.nih.gov/books/NBK556470/>
- Pratoyo, A., Hanifah, S., Pramundita, A. 2025. Risk Factors for Malaria in Indonesia. *Jurnal Kesehatan Masyarakat*. 16(1): 91-103.
- Rahmasari, F.V., Asih, P.B., Dewayanti, F. et al. 2022. Drug Resistance of Plasmodium Falciparum and Plasmodium Vivax Isolates In Indonesia. *Malaria Journal*. 21(354): 1-32.
- Ring, M. 2025. An Integrative Approach to HPA Axis Dysfunction: From Recognition to Recovery. *The American Journal of Medicine*. 138(10): 1.432-1.465
- Roifah, M., Jatmiko, T. 2021. Pengaruh Kalistenik Terhadap Penurunan Berat Badan di Stellar Powerhouse. *Jurnal Prestasi Olahraga*. 4(9): 130-136.
- Rudrapal, M., Chetia, D. 2020. Plant Flavonoids as Potential Source of Future Antimalarial leads. *Journal in the Field of Pharmacy*. 8(1):13-18.



- Saftawy, E.E., Alghamdi, M., Aboulhoda, E. 2025. Interplay of obesity and parasitic infection: current evidence of immunogenesis, tumorigenesis and leptin receptor involvement. *Nutrition & Metabolism*. 22(105): 1-22.
- Saparinto, C., Susiana, R. 2016. Grow Your Own Medical Plant Panduan Praktis Menanam 51 Tanaman Obat Populer di Pekarangan. Yogyakarta:Lily Publisher.
- Sedijani, P., Muhidayani, R.S., Kusmiyati., Sukarno, A.A. 2024. Washing Test: with or without involvement of chloroform & acetone. *Jurnal Biologi Tropis*. 24(1): 203-209.
- Segbefia, S.P., Asandem, D.A., Amoah, L.E., Kusi, K.A. 2024. Cytokine Gene Polymorphisms Implicated in The Pathogenesis of Plasmodium falciparum Infection Outcome. *Frontiers in Immunology*. 1(1) : 1-13.
- Sengupta, A., Ghosh, S., Sharma, S., Sonawat, H. 2020. Early Perturbations in Glucose Utilization in Malaria-Infected Murine Erythrocytes, Liver and Brain Observed by Metabolomics. *Journal of Metabolites*. 1-12.
- Shehzad, A., Rabail, R., Munir, S., Jan, H., Lazaro, D.F., Aadil, R.M. 2023. Impact of Oats on Appetite Hormones and Body Weight Management. *Current Nutrition Reports*. 12(1): 66-82.
- Shimada, M., Hirose, Y., Shimizu, K., Yamamoto, D., Hayakawa, E., Matsuoka, H. 2019. Upper gastrointestinal pathophysiology due to mouse malaria Plasmodium berghei ANKA infection. *Tropical Medicine and Health*. 47(18): 1-11.
- Sidiki, N. N. A., Nadia, N. A. C., Cedric, Y., Guy-Armand, G. N., Sandra, T. N. J., Kevin, T. D. A., Azizi, M. A., & Payne, V. K. 2023 . Antimalarial and Antioxidant Activities of Ethanolic Stem Bark Extract of Terminalia macroptera in Swiss Albino Mice Infected with Plasmodium berghei. *Journal of Parasitology Research*. 1-11.
- Simiao. G.M., Parreira, K.S., Klein, S.G., Ferreira, F.B., Freitas, F.S., Silva, N.M. et al. 2024. Involvement of Inflammatory Cytokines, Renal NaPi-IIa Cotransporter, and TRAIL Induced-Apoptosis in Experimental Malaria-Associated Acute Kidney Injury. *Pathogens*. 1(1) : 1-23.
- Suwaibah, H, S., & Alrosyidi, A. F. 2021. Pengaruh air rebusan daun pandan wangi terhadap penurunan kadar kolesterol. *Jurnal Ilmiah Farmasi Attamru*, 02(22), 6–13.
- Syukriah, Faizah, U.N., Ulinuha, Lestari, D.F. 2019. Stautus Berat Badan Mencit (Mus musculus) BALB/C Setelah Infeksi Plasmodium berghei. *Klorofil*. 3(2): 1-3.
- Thau, L., Gandhi, J., Sharma ,S. 2023. Physiology, Cortisol. *Statpearls*. Diakses pada 1 Oktober 2025. <https://www.ncbi.nlm.nih.gov/books/NBK538239/>
- Tripathi, H., Bhalerao, P., Singh,S., Arya,H., Alotaibi, B.S., Rashid, S. et al. 2023. *Parasites & Vectors*. 16(130): 1-26.

- Triyanti, S.B., Lestari, F.P., Fitriana, P.A.N., *et al.* 2025. Pengaruh Metode Ekstraksi Maserasi, Sonikasi, dan Sokletasi Terhadap Nilai Rendemen Sampel Kulit Buah Naga (*Hylocereus polyrhizus*). *Jurnal Sains dan Edukasi Sains*. 8(1): 71-78.
- Ulandari, D.A., Rohenti, I.R., Afiah, M. 2022. Uji Aktivitas Ekstrak Etanol 70% Daun Alpukat (*Persea americana* Mill.) Terhadap Penurunan Kadar Glukosa Darah Pada Mencit Jantan (*Mus musculus* L.). 2022. *Jurnal Sabdariffarma*. 10(2) : 21-33.
- Untari, N.S., Rahardjo, M., Martini. 2024. Environmental Factors To Malaria Incidence. *Journal of Community Medicine and Public Health*. 5(2): 197-207.
- Uzor, P.F. 2020. Alkaloids from Plants with Antimalarial Activity: A Review of Recent Studies. *Evidence-Based Complementary and Alternative Medicine*. 1(1): 1-17.
- Vella, F.M., Piognone, D., Laratta, B. 2024. The Mediterranean Species *Calendula officinalis* and *Foeniculum vulgare* as Valuable Source of Bioactive Compounds. *Journal Molecules*. 29(3594): 1-23.
- Wahyuni, Abdul, A., Qonitah, F. 2021. Identifikasi Senyawa Hasil Ekstrak Etanol Daun Adas (*Foeniculum vulgare* Mill.) Dengan Skrining Fitokimia Dan Fourier Transform Infra Red (FT-IR). *Journal of Pharmaceutical Science and Medical Research*. 4(2): 55-64.
- Walker, I.S., Rogerson, S.J. 2023. Pathogenicity and virulence of malaria: Sticky problems and tricky solutions. *Virulence*. 14(1) : 1-34.
- Wang, Q., Zhao, X., Jiang, Y., Jin, B., Wang, L. 2023. Functions of Representative Terpenoids and Their Biosynthesis Mechanism in Medicinal Plants. *Biomolecules*. 13(1725): 1-17.
- Waide, M., Polidro, R., Powell, W., Tieri, D., Watson, C., Schmidt, N. 2020. Gut Microbiota Composition Modulates the Magnitude and Quality of Germinal Centers during Plasmodium Infections. *Cell Press*. 1(1): 1-31.
- Wilairatana, P., Mala, W., Milanez, G.D., Masangkay F.R., Kotepui, K.U., Kotepui, M. 2022. Increased interleukin-6 levels associated with malaria infection and disease severity. *Nature*. Diakses pada 16 Agustus 2025. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8993930/>
- World Health Organization. 2024. World Malaria Report 2023. <https://www.who.int/teams/global-malaria-programme/reports/world-malaria-report-2024> . Diakses pada 12 Maret 2025.
- Yadav, C.P., Hussain, S.S., Pasi, S., Sharma, S. 2022. Linkages Between Malaria and Malnutrition in Co-Endemic Regions of India. *BMJ Global Health*. 1(1): 1-8.
- Zadeh, E.M., Rahimi, A., Rafiee, H., Saberipour, H., Bahadoran, R. 2023. Effects of fennel (*Foeniculum vulgare*) seed powder addition during early lactation on performance, milk fatty acid profile, and rumen fermentation parameters. *Frontiers*. 4(1):

Zuniga, M., Gomes, C., Chen, Z., Martinez, C., Devlin, J.C., Rodriguez. 2022. Plasmodium falciparum and TNF- $\alpha$  Differentially Regulate Inflammatory and Barrier Integrity Pathways in Human Brain Endothelial Cells. *American Society for Microbiology*. 13(5) : 1-19.

