

DAFTAR PUSTAKA

- Adeoye, A. O., dan Lobb, K. A., 2025, Malaria Parasite Cysteine and Aspartic Proteases as Key Drug Targets for Antimalarial Therapy, *J. Mol. Model.*, 31(3), 78.
- Albeck, A., & Kliper, S., 1997, Mechanism of Cysteine Protease Inactivation by Peptidyl Epoxides, *Biochem. J.*, 322(3), 879-884.
- Amari, M. R., Wiraswati, H. L., Fauziah, N., dan Ma'ruf, I. F., 2022, Antimalarial Effect of Doxorubicin on *Plasmodium falciparum*: An in-vitro Study in FCR-3 Strain, *Biomed. Pharmacol. J.*, 15, 313-320.
- Arya, A., Foko, L. P. K., Chaudhry, S., Sharma, A., & Singh, V., 2021, Artemisinin-based Combination Therapy (ACT) and Drug Resistance Molecular Markers: A Systematic Review of Clinical Studies from Two Malaria Endemic Regions—India and Sub-Saharan Africa, *Int. J. Parasitol. Drugs. Drug. Resist.*, 15, 43-56.
- Asnaashari, S., Afshar, F. H., Moghadam, S. B., dan Delazar, A., 2016, Evaluation of in vitro Antimalarial Activity of Different Extracts of *Eremostachys azerbaijanica rech*, *F, Iran. J. Pharm. Res.*, 15(3), 523.
- Avichena, A., dan Anggriyani, R., 2023, Pengaruh Infeksi *Plasmodium sp.* terhadap Trombosit Manusia: Tinjauan Literatur, *EKOTONIA: Jurnal Penelitian Biologi, Botani, Zoologi dan Mikrobiologi*, 8(1), 30-37.
- Bashir, M. U. N., Rashid, M. U., dan Malkani, N., 2025, Unveiling 2-Isopropyl-5-Methylphenol's Immunomodulatory Potential in Breast Cancer: A Synergistic Computational and Laboratory Investigation, *J. Steroid Biochem. Mol. Biol.*, 248, 106702.
- Blangetti, M., Rolando, B., Marini, E., Chegaev, K., Guglielmo, S., Lazzarato, L., Fruttero, R., 2017, Gem-dinitroalkyl Benzenes: A Novel Class of IOP-Lowering Agents for the Treatment of Ocular Hypertension, *ACS Med. Chem. Lett.*, 8(10), 1054-1059.
- Breloy, L., Negrell, C., Mora, A. S., Li, W. S. J., Brezova, V., Caillol, S., dan Versace, D., 2020, Vanillin Derivative as Performing Type I Photoinitiator, *Eur. Polym. J.*, 132, 1-8.
- Carneiro, P. F., Pinto, M. C., Marra, R. K., da Silva, F. D. C., Resende, J. A., e Silva, L. F. R., Ferreira, V. F., 2016, Synthesis and Antimalarial Activity of Quinones and Structurally Related Oxirane Derivatives, *Eur. J. Med. Chem.*, 108, 134-140.
- Casertano, M., Menna, M., Fattorusso, C., Basilico, N., Parapini, S., Persico, M., dan Imperatore, C., 2020, Antiplasmodial Activity of p-Substituted Benzyl

Thiazinoquinone Derivatives and Their Potential Against Parasitic Infections. *Molecules*, 25(7), 1530.

- Chavchich, M., Birrell, G. W., Ager, A. L., MacKenzie, D. O., Heffernan, G. D., Schiehsler, G. A., dan Edstein, M. D., 2016, Lead Selection of A New Aminomethylphenol, JPC-3210, for Malaria Treatment and Prevention. *Antimicrob. Agents Chemother.*, 60(5), 3115-3118.
- Choi, J. Y., Joo, K. K., Park, J., dan Cheoun, M. K., 2024, Comprehensive Analysis of Impurity Detection in Linear Alkyl Benzene-Based Liquid Scintillators using Infrared Spectroscopy for Enhanced Neutrino Detection. *Prog. Theor. Exp. Phys.*, 2024(10), 103C01.
- Clayden, J., Greeves, N., dan Warren, S., 2012, *Organic Chemistry*, Oxford university press, New York.
- Duan, H., 2023, Williamson ether synthesis: O-Alkylation Reaction using Halogenated Hydrocarbons as Alkylating Agents, *Academic Journal of Materials & Chemistry*, 4(4), 41-45.
- Fadillah, G., dan Azizah, R., 2022, Analisis Faktor Risiko Perilaku dengan Kasus Malaria pada Masyarakat di Indonesia-Meta Analysis 2016-2021: Literature Review, *Media Publ. Promosi Kesehat. Indones*, 5(11), 1336-1345.
- Fadzila, M. N., 2024, Sintesis Senyawa Alil Vanilin Epoksida dan Uji Aktivitasnya sebagai Antimalaria terhadap *Plasmodium falciparum*, *Skripsi*, FMIPA UGM, Yogyakarta.
- Fuchs, P. L., Charette, A. B., Rovis, T., dan Bode, J. W., 2016, *Essential Reagents for Organic Synthesis*, John Wiley & Sons, West Sussex.
- Gashema, P., Kagame, J., Iradukunda, P. G., Siddig, E. E., Tessema, S. K., Tegegne, M. A., dan Muvunyi, C. M., 2025, Mapping *Plasmodium falciparum* Mutations in Africa: A Critical Review of Emerging Drug Resistance and Implications for Malaria Control, *Int. J. Infect. Dis.*, 108033.
- Gezahegn, T., Tegegne, B., Zewge, F., dan Chandravanshi, B. S., 2019, Salting-out Assisted Liquid-Liquid Extraction for the Determination of Ciprofloxacin Residues in Water Samples by High Performance Liquid Chromatography-Diode Array Detector, *BMC chem.*, 13(1), 28.
- He, H., Liu, S., Meng, Z. dan Hu, S., 2014, Dispersive Liquid Liquid Microextraction for the Determination of Phenols by Acetonitrile Stacking Coupled with Sweeping-Micellar Electrokinetic Chromatography with Large-Volume Injection, *J. Chromatogr. A*, 1361, 291-302.

- Hezaveh, S., Samanta, S., Milano, G., dan Roccatano, D., 2012, Molecular Dynamics Simulation Study of Solvent Effects on Conformation and Dynamics of Polyethylene Oxide and Polypropylene Oxide Chains in Water and in Common Organic Solvents, *J. Chem. Phys.*, 136(12).
- Jordan, A., Hall, C. G., Thorp, L. R., dan Sneddon, H. F., 2022, Replacement of Less-Preferred Dipolar Aprotic and Ethereal Solvents in Synthetic Organic Chemistry with More Sustainable Alternatives, *Chem. Rev.*, 122(6), 6749-6794.
- Kalaria, N., Karad, S.C., dan Raval, D.K., 2018, A Review on Diverse Heterocyclic Compounds as the Privileged Scaffolds in Antimalarial Drug Discovery, *Eur. J. Med. Chem.*, 158, 917-936.
- Kar, A., 2005, *Medicinal Chemistry*, New Age International, New Delhi.
- Khuong, K. S., Agnelli, F., & Parker, M. A., 2022, An Updated Simple S_N2 Reaction for the Undergraduate Organic Laboratory, *J. Chem. Educ.*, 100(1), 376-379.
- Khusniddin, M. U. S. A. E. V., Gulmira, A. Z. I. M. O. V. A., Khabibulla, T. A. J. I. M. U. K. H. A. M. M. E. D. O. V., dan Mukhabbat, Y. U. L. D. A. S. H. E. V. A., 2019, Influence of Nanostructural Catalyst in the Synthesis of Allyl Phenyl Ether and of its Isomerization Products, *Chem. Chem. Eng.*, 2019(4), 21.
- Kim, B. C., Kim, H., Lee, H. S., Kim, S. H., Cho, D. H., Jung, H. J., dan Yang, Y. H., 2022, 4-Chloro-2-isopropyl-5-methylphenol Exhibits Antimicrobial and Adjuvant Activity Against Methicillin-Resistant *Staphylococcus aureus*, *J. Microbiol. Biotechnol.*, 32(6), 730.
- Kumar, S., Mina, P. R., Kumar, R., Pal, A., Ahmad, A., Tandon, S., & Darokar, M. P., 2021, 4-Chlorothymol Exerts Antiplasmodial Activity Impeding Redox Defense System in *Plasmodium falciparum*, *Front. Pharmacol.*, 12, 628970.
- Kuo, T. H., Chung, H. H., Chang, H. Y., Lin, C. W., Wang, M. Y., Shen, T. L., Hsu, C. C., 2019, Deep Lipidomics and Molecular Imaging of Unsaturated Lipid Isomers: A Universal Strategy Initiated by *m*CPBA Epoxidation, *Anal. Chem.*, 91(18), 11905-11915.
- Kustiah, S. U., Adrial, A., dan Reza, M., 2020, Profil Hematologik Berdasarkan Jenis *Plasmodium* pada Pasien Malaria di Beberapa Rumah Sakit di Kota Padang, *Jurnal Kesehatan Andalas*, 9(15).

- Listiana, Y., Tampubolon, H. R., dan Sinaga, M. S., 2017, Pengaruh Konsentrasi Katalis dan Waktu Reaksi pada Pembuatan Epoksi Minyak Goreng Bekas, *Jurnal Teknik Kimia USU*, 6(3), 28-33.
- Liu, J., Scott, C., Winroth, S., Maia, J., dan Ishida, H., 2015, Copolymers Based on Telechelic Benzoxazine with A Reactive Main-Chain and Anhydride: Monomer and Polymer Synthesis, and Thermal and Mechanical Properties of Carbon Fiber Composite, *RSC Adv.*, 5(22), 16785-16791.
- Malino, B. T., Langi, F. F. G., Ratag, B. T., 2023, Analisis Distribusi Kasus dan Kematian Akibat Malaria di Indonesia, *Jurnal Kesehatan Tambusai*, 4(3), 3907-3915.
- Mamede, L., Ledoux, A., Jansen, O., dan Frédérick, M., 2020, Natural Phenolic Compounds and Derivatives as Potential Antimalarial Agents, *Planta med.*, 86(09), 585-618.
- Mamedova, V. L., Khikmatova, G. Z., Korshin, D. E., Gavrilova, E. L., dan Mamedov, V. A. O., 2022, Epoxides: Methods of Synthesis, Reactivity, Practical Significance, *Russ. Chem. Rev.*, 91(11).
- Maulina, S., Fakhradila, dan Nurtahara., 2018, Ekstraksi Asap Cair dari Pelepah Kelapa Sawit Menggunakan Pelarut Etil Asetat dan Heksana, *Jurnal Teknik Kimia USU*, 7(2), 28-32
- McMurry, J., 2023, *Organic Chemistry: A Tenth Edition (10th ed.)*, OpenStax, Texas.
- Murithi, J. M., Deni, I., Pasaje, C. F. A., Okombo, J., Bridgford, J. L., Gnädig, N. F., dan Fidock, D. A., 2022, The *Plasmodium falciparum* ABC Transporter ABCI3 Confers Parasite Strain-Dependent Pleiotropic Antimalarial Drug Resistance, *Cell Chem. Biol.*, 29(5), 824-839.
- Nagoor M. M. F., Javed, H., Al Tae, H., Azimullah, S., dan Ojha, S. K., 2017, Pharmacological Properties and Molecular Mechanisms of Thymol: Prospects for its Therapeutic Potential and Pharmaceutical Development, *Front. Pharmacol.*, 8, 380.
- Nikolic, G., Zlatkovic, S., Cakic, M., Cakic, S., Lacnjevac, C., dan Rajic, Z., 2010, Fast Fourier Transform IR Characterization of Epoxy GY Systems Crosslinked with Aliphatic and Cycloaliphatic EH Polyamine Adducts. *Sensors*, 10(1), 684-696.
- Nitbani, F. O., 2007, Epoksidasi dan Pembukaan Cincin Epoksida pada Metil Risinoleat, *Thesis*, FMIPA UGM, Yogyakarta.
- Nitbani, F. O., Tambaru, D., Gauru, I., dan Kusumawati, A., 2015, Sintesis Senyawa Metil 9, 10-epoksi Stearat Dari Minyak Jarak Pagar

(jatrophacurcas) asal Pulau Timor, *J. Ilm. Berk. Sains Terap. Kim.*, 9(1), 37-46.

Noorashikin, M.S., Raoov, M., Mohamad, S. dan Abas, M.R., 2014, Extraction of Parabens from Water Samples Using Cloud Point Extraction with A Non-Ionic Surfactant with B-Cyclodextrin as Modifier, *J. Surfactants Deterg.*, 17(4), 747-758.

Norseyrihan, M.S., Noorashikin, M.S., Adibah, M.S.N., Yusoff, F., 2016, Cloud Point Extraction of Methylphenol in Water Samples with Low Viscosity of Non-Ionic Surfactant Sylgard 309 Coupled with High-Performance Liquid Chromatography, *Sep. Sci. Technol.*, 51(14), 2386-2393.

Nzila, A., dan Mwai, L., 2010, In-vitro Selection of *Plasmodium falciparum* Drug-Resistant Parasite Lines, *J. Antimicrob. Chemother.*, 65(3), 390-398.

Olafson, K. N., Ketchum, M. A., Rimer, J. D., Vekilov, P. G., 2015, Mechanisms of Hematin Crystallization and Inhibition by the Antimalarial Drug Chloroquine, *Proc. Natl. Acad. Sci.*, 112(16), 4946-4951.

Olasehinde, G. I., Ojurongbe, O., Adeyeba, A. O., Fagade, O. E., Valecha, N., Ayanda, I. O., dan Egwari, L. O., 2014, In Vitro Studies on the Sensitivity Pattern of *Plasmodium falciparum* to Anti-Malarial Drugs and Local Herbal Extracts, *Malar. J.*, 13(1), 63.

Permata, E., Purnama, K. E., Purnomo, M. H., 2016, Klasifikasi Jenis dan Fase Parasit Malaria *Plasmodium Falciparum* dan *Plasmodium Vivax* dalam Sel Darah Merah menggunakan Support Vector Machine, *Setrum*, 1(2), 50-57.

Ramos-Hernández, R., Pérez-Gutiérrez, E., Calvo, F. D., Beristain, M. F., Cerón, M., dan Percino, M. J., 2023, Solvent Effect on Small-Molecule Thin Film Formation Deposited Using the Doctor Blade Technique, *Coatings*, 13(2), 425.

Sajjadi, S.E., Pestechian, N., Kazemi, M., Mohaghegh, M., dan Hosseini-Safa, A., 2015, Evaluation of the Antimalarial Effect of *Ferulago angulata* (*Schlecht.*) Boiss. Extract and Suberosin Epoxide Against *Plasmodium berghei* in Comparison with Chloroquine Using in-vivo Test, *Iran. J. Pharm. Res.*, 15(3), 515-521.

Salahuddin, S., Hanafi, M., Sundowo, A., NL, P. D., Adipratiwi, N., Ariyani, T., Waluyo, D., 2021, Sintesis dan Evaluasi Antimalaria In Vitro Turunan Kinin terhadap *Plasmodium falciparum*, *J. Kefar. Ind.*, 109-120.

Salawu, E. O., 2018, In Silico Study Reveals How E64 Approaches, Binds to, and Inhibits Falcipain-2 of *Plasmodium falciparum* that Causes Malaria in Humans, *Sci. Rep.*, 8(1), 16380.

- Salih, A. M., Ahmad, M. B., Ibrahim, N. A., Dahlan, K. Z. H. M., Tajau, R., Mahmood, M. H., dan Yunus, W. M. Z. W., 2015, Synthesis of Radiation Curable Palm Oil-Based Epoxy Acrylate: NMR and FTIR Spectroscopic Investigations, *Molecules*, 20(8), 14191-14211.
- Sanford, E. M., Lis, C. C., dan McPherson, N. R., 2009, The Preparation of Allyl Phenyl Ether and 2-Allylphenol using the Williamson Ether Synthesis and Claisen Rearrangement, *J. Chem. Educ.*, 86(12), 1422.
- Schmidt, L. H., dan Crosby, R., 1978, Antimalarial Activities of WR-194,965, an α -amino-o-cresol Derivative, *Antimicrob. Agents Chemother.*, 14(5), 672-679.
- Shweta S. S. S., Phulen Sarma, P. S., Rakesh Sehgal, R. S., Bikash Medhi, B. M., 2017, Development in Assay Methods for in vitro Antimalarial Drug Efficacy Testing: A Systematic Review, *Front. Pharmacol.*, 8(754), 1-14.
- Sidhu, A. B. S., Verdier-Pinard, D., & Fidock, D. A., 2002, Chloroquine Resistance in *Plasmodium falciparum* Malaria Parasites Conferred by Pfcrt Mutations, *Science*, 298(5591), 210-213.
- Sutanto, F., Konstantinidou, M., & Dömling, A., 2020, Covalent Inhibitors: A Rational Approach to Drug Discovery, *RSC Med. Chem.*, 11(8), 876-884.
- Tambunan, T. R., Widada, J., Damayanti, E., Wahyuningsih, T. D., Mustofa, M., 2020, Antiplasmodial Activity of the Low Molecular Weight Compounds from *Streptomyces sp.* GMR22, *Indonesian. J. Pharm.*, 31(4), 273-280.
- Wicht, K. J., Mok, S., dan Fidock, D. A., 2020, Molecular Mechanisms of Drug Resistance in *Plasmodium falciparum* Malaria, *Annu. Rev. Microbiol.*, 74(1), 431-454.
- Widyawaruyanti, A., Devi, A. P., Fatria, N., Tumewu, L., Tantular, I. S., Hafid, A. F., 2014, In vitro Antimalarial Activity Screening of Several Indonesian Plants using Hrp2 Assay, *Int. J. Pharm. Pharm. Sci.*, 6(6):125-128.