



DAFTAR PUSTAKA

- Anonim, 2021a, *World Malaria Report 2020*, World Health Organization, Geneva.
- Anonim, 2021b, *Data Terkini Kasus Malaria di Indonesia*, Kementerian Kesehatan Republik Indonesia, Jakarta.
- Ardiansah, B., 2019, Chalcones Bearing N, O, and S-heterocycles: Recent Notes on Their Biological Significances, *J. Appl. Pharm. Sci.*, 9(8), 117–129.
- Arty, I.S., dan Rohmawati, D., 2014, Optimization of Condensation Reaction Time between Vanillin and p-Nitroacetophenone in Acid Catalysts, *J. Sains Dasar*, 3(1), 34-38.
- Banoth, R.K. and Thatikonda, A., 2020, A Review on Natural Chalcones an Update, *Int. J. Pharm. Sci. Res.*, 11(2), 546–555.
- Batista, R., Júnior, A.J.S., and Oliveira, A.B., 2009, Plant-derived Antimalarial Agents: New Leads and Efficient Phytotherapies. Part II. Non-Alkaloidal Natural Products, *Molecules*, 14, 3037–3072.
- Cancio, N., Costantino, A.R., Silbestri, G.F., and Pereyra, M.T., 2019, Ultrasound-Assisted Syntheses of Chalcones: Experimental Design and Optimization, *Proceedings*, 41(1), 1–8.
- Congpuong, K., Sirtichaisinthop, J., Tippawangkosol, P., Suprakrob, K., Na Bangchang, K., Tan-Ariya, P., and Karbwang, J., 1998, Incidence of Antimalarial Pretreatment and Drug Sensitivity *In Vitro* in Multidrug-46 Resistant *Plasmodium Falciparum* Infection in Thailand, *Trans. R. Soc. Trop. Med. Hyg.*, 92, 84–86
- Dona, R., Zamri, A., dan Jasril, 2015, Sintesis dan Uji Toksisitas Senyawa Analog Kalkon Tersubstitusi Metoksi, *J. Sain. Kes.*, 5(2), 6076–6081.
- Fauzi'ah, L. and Wahyuningsih, T.D., 2016, Synthesis of Chalcones Substituted with Nitro and Hydroxy Group in Alkaline Medium, *Eksakta*, 16(2), 103-114
- Gunawan, R., and Nandiyanto, A.B.D., 2021, How to Read and Interpret ¹H-NMR and ¹³C-NMR Spectrums, *Indones. J. Sci. Technol.*, 6(2), 267-298.
- Hasan, M., 2020, Sintesis Turunan N-Fenil Pirazolina Berbahan Dasar 4-Aminoasetofenon dan Uji Aktivitasnya sebagai Antimalaria, *skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta



Herlina, T., Syafruddin, dan Udin, Z., 2012, Senyawa Aktif Antikanker Payudara dan Antimalaria dari Tumbuhan Dadap Ayam (*Erhythrina Valeriegata*) Secara *In Vitro*, *J. Man. Ling.*, 19(1), 30–36.

Jarag, K.J., Pinjari, D.V., Pandit, A.B., and Shankarling, G.S., 2011, Synthesis of Chalcone (3-(4-fluorophenyl)-1-(4-methoxyphenyl)prop-2-en-1-one): Advantage of Sonochemical Method over Conventional Method, *Ultrason. Sonochemistry*, 18(2), 617–623.

Jyoti, Gaur, R., Kumar, Y., Cheema, H.S., Kapkoti, D.S., Darokar, M.P., Khan, F., and Bhakuni, R.S., 2021, Synthesis, Molecular Modelling Studies of Indolyl Chalcone Derivatives and Their Antimalarial Activity Evaluation, *Nat. Prod. Res.*, 35(19), 3261–3268.

Kaur, P.B., Hatia, A., Midha K., and Debnath, M., 2017, Malaria: A Cause of Anemia and Its Effect on Pregnancy, *World J. Anemia*, 1(2), 51-62.

Latifah, N., Subarnas, A., and Chaerunisa, A.Y., 2020, Antimalaria Medicine and Its Mechanism: A Review, *Majalah Farmaseutika*, 5(1), 39–48.

Majeed, N.S., Mohsen, H.F., and Aldujaili, R.A.B., 2018, Synthesis, Characterization and Biological Activity of Some New Heterocyclic Compounds Derived from 4-aminoacetophenone, *Biochem. Cell. Arc.*, 18(1), 1107–1116.

Matdoan, Y., Otok, B.W., and Atok, R.M., 2020, Modeling of Quantile Regression to Know the Factors Affecting the High Spread Api Malaria in Indonesia, *J. Mat., Stat. dan Komp.*, 16(3), 417–427.

Maroziene, A., Lesanavicius, M., Davioud-Charvet, E., Aliverti, A., Grellier, P., Sarlauskas, J., and Cenas, N., 2019, Antiplasmodial Activity of Nitroaromatic Compounds: Correlation with Their Reduction Potential and Inhibitory Action on *Plasmodium falciparum* Glutathione Reductase, *Molecules*, 24 (4509), 1–15.

Mohamed, M.A., 2019, Sonochemistry (Applications of Ultrasound in Chemical Synthesis and Reactions): A Review Part III, *Int. J. Pharm. Res.*, 31(6), 1-19.

Mufidah, F. dan Zuhrotun, A., 2020, Tanaman Berkhasiat untuk Pengobatan Malaria di Indonesia Berdasarkan Etnofarmasi, *J. Ilm. Farm.*, 10(2), 106–121.

Pambudi, W., 2013, Efektivitas Sintesis Hidroksikalkon Menggunakan Katalis Naoh dan NaOH+ZrO₂ Montmorilonit Melalui Metode Konvensional, *Microwave Assisted Organic Synthesis* (MAOS) dan Sonokimia, *Thesis*, Jurusan Kimia FMIPA UGM, Yogyakarta.

Pavia, D.L., Lampman, G.M., Kriz, G.S., and Vyvyan, J.R., 2015, *Introduction to Spectroscopy*, 5th Ed., Cengage Learning, Stanford.



- Presson, J., 2018, Review: Senyawa Bahan Alam Terestrial dengan Aktivitas Antimalaria, *Jurnal Saintek Lahan Kering*, 1(2), 31–35.
- Purwaningsih, Y., Syukur, M., dan Purwanto, U.R.E., 2020, Sonochemical Synthesis of Ethyl Cinnamate, *Jurnal Kimia dan Pendidikan Kimia*, 5(1), 1-7.
- Rahayu, A.U. dan Tjitraresmi, A., 2017, Aktivitas Farmakologi dari Senyawa Kalkon dan Derivatnya, *Farmaka*, 15(1), 1–13.
- Rammohan, A., Reddy, J.S., Sravya, G., Rao, C.N., and Zyryanov, G. v., 2020, Chalcone Synthesis, Properties and Medicinal Applications: A Review, *Env. Chem. Lett.*, 18(2), 433–458.
- Rizania, I., 2019, Sintesis 3,4-dimetoksi-6-nitrokalkon serta Uji Aktivitasnya sebagai Antioksidan, *Skripsi*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Salehi, B., Quispe, C., Chamkhi, I., el Omari, N., Balahbib, A., Sharifi-Rad, J., Bouyahya, A., Akram, M., Iqbal, M., Docea, A.O., Caruntu, C., Leyva-Gómez, G., Dey, A., Martorell, M., Calina, D., López, V., and Les, F., 2021, Pharmacological Properties of Chalcones: A Review of Preclinical Including Molecular Mechanisms and Clinical Evidence, *Front. Pharmacol.*, 11, 1–21.
- Silverstein, R.M., Webster, F., and Kiemle, D.J., 2005, *Spectrometric Identification of Organic Compounds*, Seventh Edition, John Wiley & Sons, New Jersey
- Sinha, S., Batovska, D.I., Medhi, B., Radotra, B.D., Bhalla, A., Markova, N., and Sehgal, R., 2019, *In vitro* Anti-Malarial Efficacy of Chalcones: Cytotoxicity Profile, Mechanism of Action and Their Effect on Erythrocytes, *Malar. J.*, 18(1), 1–11.
- Smit, F.J., and N'da, D., 2013, Synthesis, *In Vitro* Antimalarial Activity and Cytotoxicity of Novel 4-aminoquinolinyl-chalcone Amides, *Bioorganic Med. Chem.*, 22 (2014), 1128–1138.
- Suma, T., Artania, A., Wahyuningsih, T.D., and Mustofa, 2019, Efficient Synthesis of Chloro Chalcones under Ultrasound Irradiation, Their Anticancer Activities and Molecular Docking Studies, *Rasayan J. Chem.*, 12, 502–510.
- Suryani, N., Matsjeh, S., dan Tri Swasono, R., 2019, Synthesis and Heme Polymerization Inhibitory Activity (HPIA) Assay of Chalcone, Flavone and Flavanone Derivatives, *Mat. Sci. Forum*, 948, 109–114.
- Sutarto dan Cania, E., 2017, Faktor Lingkungan, Perilaku dan Penyakit Malaria, *J. Agromed Unila*, 4(1), 173–184.
- Suwito, H., Jumina, Mustofa, Pudjiastuti, P., Fanani, M. Z., Ariga, Y. K., Katahira, R., Kawakami, T., Fujiwara, T., 2014, Design and Synthesis of Chalcone Derivatives as Inhibitors of the Ferredoxin-Ferredoxin-NADP⁺ Reductase



Interaction of Plasmodium falciparum: Pursuing New Antimalarial Agents, *Molecules*, 19, 21473-21488.

Syahri, J., Nasution, H., Nurohmah, B.A., Purwono, B., Yuanita, E., Zakaria, N.H., and Hassan, N.I., 2020, Design, Synthesis and Biological Evaluation of Aminoalkylated Chalcones as Antimalarial Agent, *Sains Malays.*, 49(11), 2667–2677.

Yadav, N., Dixit, S.K., Bhattacharya, A., Mishra, L.C., Sharma, M., Awasthi, S.K., and Bhasin, V.K., 2012, Antimalarial Activity of Newly Synthesized Chalcone Derivatives *In Vitro*, *Chem. Biol. Drug. Des.*, 80(2), 340–347.

Yasuda, K., 2021, Sonochemical Green Technology Using Active Bubbles: Degradation of Organic Substances in Water, *Curr. Opin. Green Sustain. Chem.*, 27(100411), 1-6.