# DAFTAR PUSTAKA

Achmad, M.F., dan Sutanto, I., 2003, Peran *Pfmdr*-1 pada Mekanisme Resistensi *Plasmodium falciparum* terhadap Klorokuin, *Majalah Kedokteran Indonesia*, 53 (2), 69-75.

Anonim, 2015, Profil Kesehatan Indonesia 2015.

Arnou, B., Montigny, C., Morth, J. P., Nissen, P., Jaxel, C., Møller, J. V., & Maire, M. Le., 2011, The *Plasmodium falciparum* $Ca^{2+}$ ATPase PfATP6 Insensitive to Artemisinin, but A Potential Drug Target, *Biochem.Soc.Ann.Sym.,* 39 (3), 823-831.

Anonim, 2016, Artemisinin and Artemisinin-Based Combination Theraphy Resistance, WHO Press, Geneva.

Basalmah, R.S., 2006, Optimasi Kondisi Ekstraksi Kurkuminoid Temulawak: Waktu, Suhu dan Nisbah, *Skripsi*, Institut Pertanian Bogor, Bogor.

Batista, R., de Jesus Silva Junior, A. & de Oliveira, A.B., 2009, Plant-Derived Antimalarial Agents: New Leads and Efficient Phytomedicines. Part II. Non-Alkaloidal Natural Products, *Molecule*, 14 (8), 3037-3072.

Boulet, C., Doerig, C.D., and Carvalho, T.G., 2018, Manipilating Eryptosis of Human Red Blood Cells: A Novel Antimalarial Strategy, *Fron. In Cell. and Infec. Micro.*, 8, 419.

Brochet, M., Billker, O., 2016, Calcium Signalling in Malaria Parasites, *Mol. Micro.*, 100 (3), 397-408.

Carey, F.A. & Sundberg, R.J., 2002, *Advanced Organic Chemistry Part B: Reaction and Synthesis*, 4th Ed, Kluwer Academic Publishers, New York, Boston, Dowdrecht, London, Moscow.

Cas, M.D., and Ghidoni, R., 2019, Dietary Curcumin: Correlation Between Bioavailability and Health Potential, *Nutrients*, 11, 2147.

Cui, L., Miao, J., Cui, L., 2007, Cytotoxic Effect of Curcumin on Malarial Parasite *Plasmodium falciparum*: Inhibition of Histone Acetylation and Generation of Reactive Oxygen Species. *Antimicrob Agents Chemother*, 51, 488-94.

Ding, X.C., Beck, H.P., & Raso, G., 2011, Plasmodium Sensitivity to Artemisins: Magic Bullets Hit Elusive Targets, *Trends in Parasitology*, 27 (2), 72-81.

Fessenden, R.J., dan Fessenden, J.S., 1986, *Kimia Organik Jilid 2*, Erlangga, Jakarta.

Fidock, D.A., Nomura, T., Talley, A.K., Cooper, R.A., Dzeknov, S.M., and Ferdig, M.T., 2000, Mutation in The *Plasmodium falciparum* Digestive Vacuole Transmembrane Protein Pcrt and Evidence for Their Role in Chloroquin Resistance, *Molecular Cell*, 6 (4), 861-871.

Gupta, S.C., Prasad, S., Kim, J.H., Patchva, S., Webb, L.J., Priyadarsini, I.K., and Aggarwal, B.B., 2011, Multitargeting by Curcumin as Revealed by Molecular Interaction Studies, *Nat. Prod. Rep*., 28, 1937-1955.

Jaghoori, M.M., Bleijlevens, B., and Olabarriaga, S.D., 2016, 1001

Jain, K., Sood, S., & Gowthamarajan, K., 2013, Modulation of Cerebral Malaria by Curcumin As An Adjunctive Therapy, *Braz. J. Infect. Dis.,* 17 (5), 579-591.

Ji, H. and Shen, L., 2009, Bioorganic & Medicinal Chemistry Letters Interactions of curcumin with the PfATP6 model and the implications for its antimalarial mechanism, *Bioorg. Med. Chem. Lett.*, 19, 2453–2455.

Kitchen, D., Decornez, H., Furr, J., & Bajorath, J., 2004, Docking and Scoring in Virtual Screening for Drug Discovery: Method and Application, *Nat. Rev.,* 4:935-949.

Leong, S.W., Awin, T., Faudzi, S.M.M., Maulidiani, M., Shaari, K., Abas, Faridah, 2019, Synthesis and Biological Evaluation of Asymmetrical Diarylpentanoids as Antiinflammatory, Anti-α-Glucosidase, and Antioxidant Agents, *Medicinal Chemistry Research*, 28, 2002-2009.

Li, J. Chen, S. Luo, J. Xu, Q. Huang, T. Liu, 2015, Synthesis and Assessment of The Antioxidant and Antitumour Properties of Asymmetric Curcumin Analogues, *Eur. J. Med. Chem.*, 93, 461-469.

Leonardo K. Basco, 2007, Field Application of In Vitro Assays for the sensitivity of Human Malaria Parasites to Antimalarial Drugs, *World Health Organization*.

Marino Di., D'Annessa, L., Coletta, A., Via, A., and Tramontano, A., 2015, Characterization of The Differences in The Cyclopiazonic Acid Binding Mode Mammalian and *P. falciparum* $Ca^{2+}$ Pumps: A Computational Study, *Protein Struct. Funct.*, 83, 564-574.

Maier, A. G., Matuschewski, K., Zhang, M., & Rug, M., 2019, Plasmodium falciparum, *Trends in Parasitology*.

McMurry, J., 2016, *Organic Chemistry*, *9th Edition,* Cengage Learning, Canada.

Meiyanto, E., 1999, Kurkumin Sebagai Obat Kanker : Menulusuri Mekanisme Aksinya. *Majalah Farmasi Indonesia,* 10 (4), 224 – 236.

Mena-Ulecia, K., Tiznado, W., and Caballero, J., 2015, Study of The Differential Activity of Thrombin Inhibitors Using Docking, QSAR, Molecular Dynamics, and MM-GBSA, *Plos. One*., 10 (11), e0142774.

Menegon, M., Sannela, AR., Majorie, G., Severini, C., 2008, Detection of Novel Point Mutation in The *Plasmodium falciparum* ATPase Candidate Gene for Resistance to Artemisins. *Parasitology international*, 57 (2), pp.233-5.

Moncoq, K., Trieber, C.A., & Young, H. S., 2007, The Molecular Basis for Cyclopiazonic Acid inhibition of the Sarcoplasmic Reticulum Calcium Pump, *J. Bio. Chem.*, 282 (13), 9784-9757.

Naik, P.K., Srivastava, M., Bajaj, P., Jain, S., Dubey, A., Ranjan, P., Kumar, R., Singh, H., 2011, The Binding Modes and Binding Affinities of Artemisinin Derivatives with *Plasmodium falciparum* $Ca^{2+}$ -ATPase (PfATP6), *J.Mol.Model.,* 17, 333-357.

Noedl, H., Wongsrichnalai, C., and Wernsdoerfer, W. H., 2003, Malaria Drug Sensitivity Testing: New Assay, New Perspectives, *Trends in Parasitol*, 19(4), 175-181.

Pavia, D.L., Lampman, G.M., & Jr. George, S.K., 1979, *Introduction to Spectroscopy: A Guide for Students of Organic Chemistry*, 26-53, W. B. Saunders Company, Philadelphia.

Persittamaia, I., 2018, Sintesis dan Uji Aktivitas Antibakteri Senyawa Analog Kurkumin 2,6-bis-(3'-hidroksibenziliden)-sikloheksanon, *Skripsi*, Universitas Gadjah Mada, Yogyakarta.

Pranowo, H.D., Tahir, I., Ajidarma W., 2007, Quantitative Relationship of Electronic Structure and Inhibition Activity of Curcumin Analogs on Ethoxyresorufin o-Dealkylation (EROD) Reaction, *Indo.J.Chem*., 2, 55.

Pudjono, Sismindari, & Widada, H., 2008, Sintesis 2,5-*bis*-(4'hidroksibenziliden)-siklopentanon dan 2,5-*bis*-(4'klorobenziliden)-siklopentanon serta Uji Antiproliferatifnya terhadap Sel HeLa, *Majalah Farmasi Indonesia*, 19 (1), 48-55.

Ridley, R.G., 2002, Medical Need, Scientific Opportunity and The Drive for Antimalarial Drugs, *Nature*, 415, 686 – 693.

Sardjiman, 2000, Synthesis of Some New Series of Curcumin Analogues, Antioxidative, Anti-inflammatory, Anti-bacterial Activities and Qualitative Structure-Activity-Relitionship, *Disertasi*, Universitas Gadjah Mada, Yogyakarta.

Soni, R., Sharma, D., Rai, P., Sharma, B., & Bhatt, T.K., 2017, Signalling Strategies of Malaria Parasite for Its Survival, Proliferation, and Infection During Erythorocytic Stage, *Frontiers in immunology*, 8, 349.

Tadini-Buoninsegni, F., Smeazzetto, S., Gualdani, R., and Moncelli, M.R., 2018, Drug Interaction with The $Ca^{2+}$-ATPase from Sarco(Endo)Plasmic Reticulum (SERCA), *Front.Mol.Biosci*, 5, 36.

Trager, W. and Jansen, J.B., 1976, Human Malaria Parasites in Continous Culture In, *Science*, 193, 673-676.

Wallace, A.C., Laskowski, R.A., and Thornton, J.M., 1995, LIGPLOT: A Program to Generate Schematic Diagrams of Protein-Ligand Interaction, *Prot.Eng*., 8, 127-134.

WHO. (2019). Key points: World malaria report 2019. Tersedia online di http://www.who.int/malaria/publications./world-malaria-report-2019/en/. Diakses pada tanggal 28 Januari 2020.

Young-Jun, K., Joo, L.H., & Youngjae, S., 2013, Optomization and Validation of High-Performance Liquid Chromatography Method for Individual Curcuminoids in Tumeric by Heat-Refluxed Extraction. *J.Agric.Food. Chem.*, 61, 10911-10918.