

DAFTAR PUSTAKA

- Anindita, V., Mutiara, H., Mutiara, U.G., 2017, Mutasi Gen Kelch 13 dan Resistensi *Plasmodium falciparum* Terhadap Obat Antimalaria Golongan Artemisinin, *Medula*, 7(5), 149-153.
- Anonim, 2019, *World Malaria Report 2019*, World Health Organization.
- Anonim, 2020, *World Malaria Report 2020*, World Health Organization.
- Bikadi, Z., Hazai, E., 2009, Application of The PM6 Semi-empirical Method to Modeling Proteins Enhances Molecular Docking Accuracy of AutoDock, *Journal of Cheminformatics*, 15.
- Das, K. K., Razzaghi-Asl, N., Tikare, S. N., Santo, R. D., Costi, R., Messori, A., Pescatori, L., Crucitti, G. C., Jargar, J. G., Dhundasi, S. A., Saso, L., 2016, Hypoglycemic Activity of Curcumin Synthetic Analogues in Alloxan- Induced Diabetic Rats, *J. Enzyme Inhib. Med. Chem.*, 31(1), 99-105.
- Elmi, T., Shafiee, A.M., Hajialiani, F., Motevalian, M., Mohamadi, M., Sadeghi, S., Zamani, Z., Tabatabaie, F., 2020, Novel Chloroquine Loaded Curcumin Based Anionic Linear Globular Dendrimer G2: a Metabolomics Study on *Plasmodium Falciparum* in Vitro Using ¹H NMR Spectroscopy, *Parasitology*, 147(7):747-759.
- Eryanti, Y., Hendra, R., Herlina, T., Zamri, A., Supratman, U., Synthesis of N-methyl-4-piperidone Curcumin Analogues and Their Cytotoxicity Activity against T47D Cell Lines, *Indones. J. Chem.*, 2018, 18 (2), 362 – 366.
- Fairhurst, R.M., 2015, Understanding Artemisinin Resistant Malaria: What A Difference A Year Makes, *Curr Opin Infect Dis.*, 28(5), 417-25.
- Fidock, D.A., Nomura, T., Talley, A.K., Cooper, R.A., Dzekunov, S.M., Ferdig, M.T., Mutations in The *P. Falciparum* Digestive Vacuole Transmembrane Protein PfCRT and Evidence for Their Role in Chloroquine Resistance, *Mol Cell*, 6(4):861-71.
- Fitriastuti, F., Jumina, Priatmoko, 2014, Synthesis and Heme Polymerization Inhibitory Heme Polymerization Inhibition Activity (HPIA) Assay of Synthesized Xanthone Derivative as Antimalarial Compound, *AIP Conf. Proc.*, 1823, 1-5.

- Flora, G., Gupta, D., & Tiwari, A., 2013, *Nanocurcumin : A Promising Therapeutic Advancement over Native Curcumin*, 30(4), 331–368.
- 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.
- Hafid, A.F., Puliansari, N., Lestari, N.S., Tumewu, L., Rahman, A., Widyawaruyanti, A., 2016, Skrining Aktivitas Antimalaria Beberapa Tanaman Indonesia Hasil Eksplorasi Dari Hutan Raya Cangar, Batu, Malang, Jawa Timur, *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia*, 3(1), 6-11.
- Han, Y., Shin, D., Lee, Y., Ismail, I. A., Hong, S., Han, D. C., Kwon, B., 2011, 2-Hydroxycurcuminoid Induces Apoptosis of Human Tumor Cells Through The Reactive Oxygen Species–Mitochondria Pathway, *Bioorg. Med. Chem. Lett.*, 21, 747-751.
- Huy, N.T., Uyen, D.T., Maeda, A., Oida, T., Harada, S. & Kamei, K., 2007, Simple Colorimetric Inhibition Assay of Heme Crystallization for High-Throughput Screening of Antimalarial Compounds, *Antimi-crobial Agents and Chemootherapy*, 51 (1), 350–353.
- 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.B., Decornez, H., Furr, J.R., Bajorath, J., 2004, Molecular Docking and Scoring in Virtual Screening for Drug Discovery: Methods and Applications, *Nat Rev Drug Discov*, 3(11), 935-949.
- Kostrzewa, T., Przychodzen, P., Gorska-Ponikowska, M., Kuban-Jankowska, A., 2019, Curcumin and Cinnamaldehyde as PTP1B Inhibitors with Antidiabetic and Anticancer Potential, *Anticancer Res.*, 39, 745-749.
- Krettli, A., 2009, Development Of New Antimalarials From Medicinal Brazilianplants Extracts, Synthetic Molecules and Drug Combinations, *Expert Opin Drug Discov.*, 4(2), 95–108.
- Kumar, R., Mohanakrishnan, D., Sharma, A., Kaushik, N.K., Kalia, K., Sinha, A.K., and Sahal, D., 2010, Reinvestigation of Structure-Activity Relationship of Methoxylated Chalcones as Antimalarials: Synthesis and Evaluation of 2,4,5-Trimethoxy Substituted Patterns as Lead Candidates Derived from Abundantly Available Natural β -Asarone, *Eur. J. Med. Chem.*, 45 (11), 5292-5301.

- Lal, J., Gupta, S. K., Thavaselvam, D., Agarwal, D. D., 2016, Synthesis and Pharmacological Activity Evaluation of Curcumin Derivatives, *Chin. Chem. Lett.*, 27, 1067-1072.
- Lee, J., Kim, T.I., Lê, H.G., Yoo, W.G., Kang, J.M., Ahn, S.K., Myint, M.K., Kim, T.S., Na, B.K., 2020, Genetic Diversity of *Plasmodium Vivax* and *Plasmodium Falciparum* Lactate Dehydrogenases in Myanmar Isolates, *Malar J.*, 19(60).
- Lestari, A., Eryanti, Y., Zamri, A., 2017, Sintesis dan Uji Toksisitas Dua Senyawa Analog dengan Turunan Metoksibenzaldehid, *Jurnal kimia FMIPA Universitas Riau*, 6(8), 500-508.
- Manohar, S., Khan, S.I., Kandi, S.K., Raj, K., Sun, G., Yang, X., Molina, A.D.C., Ni, N., Wang, B., Rawat, D.S., Synthesis, Antimalarial Activity and Cytotoxic Potential of New Monocarbonyl Analogues of Curcumin, *Bioorganic & Medicinal Chemistry Letters*, 112-116.
- Meng, X.Y., Zhang, H.X., Mezei, M., Cui, M., 2011, Molecular Docking: a Powerful Approach for Structure-Based Drug Discovery, *Current computer-aided drug design*, 7(2), 146-157.
- Murray, C.J.L., Rosenfeld, L.C., Lim, S.S., Andrews, K.G., Foreman, K.J., Haring, D., Fullman, N., Naghavi, M., Lozano, R. & Lopez, A.D., 2012, Global Malaria Mortality Between 1980-2010: a Systematic Analysis, *The Lancet*, 379 (9814), 413-431.
- Nurhayati, 2008, Metode Penentuan Resistensi *Plasmodium Vivax* terhadap Klorokuin, *Jurnal Kedokteran Andalas*, 2(32), 116-126.
- Pagadala, N.S., Syed, K., Tuszynski, J., 2017, Software for Molecular Docking: a Review, *Biophysical Reviews*, 9, 91-102.
- Pantsar, T., Poso, A., 2018, Binding Affinity via Molecular Docking: Fact and fiction, *Molecules*, 23(8), 1-11.
- Paul, M.O., Victoria, E.B., Stephen, A. W., 2010, The Molecular Mechanism of Action of Artemisinin-The Debate Continues, *Review Molecules*, 15, 1705-1721.
- Pavia, D.L., Lampman, G.M., Kriz, G.S., Vyvyan, J.R., 2008, *Introduction to Spectroscopy*, Brooks Cole, United States of America.
- Penna-Coutinho, J., Cortopassi, W.A., Oliveira, A.A., Franca, T.C.C., Krettli, A.U., 2011, Antimalarial Activity of Potential Inhibitors of *Plasmodium falciparum*

Lactate Dehydrogenase Enzyme Selected by Molecular Docking Studies, *PLoS ONE*, 6(7), 1-7

- Perdana, Y. O., 2012, *Pembuatan dan Karakterisasi Fisikokimia Nanopartikel Kurkumin-Dendrimer Poliamidoamin (Pamam) Generasi 4*, Universitas Indonesia, Jakarta.
- Putri, T. N., Bachtiar, A., Hayun, H., 2018, Synthesis, Antioxidant, and Anti-inflammatory Activity of Morpholine Mannich Base of AMACs ((2E, 6E)- 2- ({4-hydroxy-3-[morpholin-4-yl]-methyl}phenyl)methylidene)-6-phenylmethylidene)cyclohexan-1-one) and Its Analogs, *J. Appl. Pharm. Sci.*, 8(5), 19-25.
- Shan, C. Y. dan Iskandar, Y., 2018, Studi Kandungan Kimia dan Aktivitas Farmakologi Tanaman Kunyit (*Curcuma Longa L.*), *Farmaka Suplemen*, 16, 547–555.
- Simamora, D. dan Fitri, L. E., 2007, Antimalarial Drug Resistance: Mechanim and The Role Combination In Preventing It, *Jurnal Kedokteran Brawijaya*, 13(2), 82-90.
- Sohilait, M.R., Pranowo, H.D., and Haryadi, W., 2017, Molecular Molecular Docking Analysis of Curcumin Analogues with COX-2, *Bioinformation*, 13, 356–359.
- Sukarban, S. dan Bustami, Z.S., 1995, *Farmakologi dan Terapi*, Gaya Baru, Jakarta.
- Sutarto dan Cania, B.E., 2017, Faktor Lingkungan, Perilaku dan Penyakit Malaria, *J.Agromed Unila*, 4(1), 173-184.
- Tahghighi, A., Karimi, S., Rafie Parhizgar, A., and Zakeri, S., 2020, Synthesis and Antiplasmodial Activity of Novel Phenanthroline Derivatives: An In Vivo Study, *J. Basic Med. Sci.*, 21, 202–211.
- Tjahjani, S., Syafruddin, Tjokropranoto, R., 2018, Interaction of Alphamangostin and Curcumin with Dihydroartemisinin as Antimalaria In Vitro, *IOP Conf. Ser. Earth Environ. Sci.*, 125, 1-6.
- Vazirian, M., Hamidian, K., Noorollah, M., Manayi, A., Samadi, N., 2019, Enhancement of Antibiotic Activity and Reversal of Resistance in Clinically Isolated Methicillin-Resistant Staphylococcus aureus by Trachyspermum ammi Essential Oil, *Res. J. Pharmacogn.*, 6(1), 1-10.
- Wei, X., Du, Z., Zheng, X., Cui, X., Conney, A. H., Zhang, K., 2012, Synthesis and Evaluation of Curcumin-Related Compounds for Anticancer Activity, *Eur. J.*

Med. Chem., 53, 235-245.

Wijaya, J.K.I., 2019, Potensi Pare (*Momordica carantia L.*) sebagai Antimalaria, *Jurnal Farmasi Malahayati*, 2(2), 210-216.

Wulaningsih, F. S., 2008, *Uji Aktivitas Antioksidan Senyawa Campuran Derivat Kurkumin dan Katekin Hasil Isolasi dari Daun Teh (Camellia sinensis)*, Universitas Indonesia, Jakarta.