

DAFTAR PUSTAKA

- Achan, J., Mwesigwa, J., Edwin, C. P., and D'alessandro, U., 2018, Malaria medicines to address drug resistance and support malaria elimination efforts, *Expert Rev. Clin. Pharmacol.*, 11(1), 61–70.
- Aly, A. S. I., Vaughan, A. M., and Kappe, S. H. I., 2009, Malaria parasite development in the mosquito and infection of the mammalian host, *Annu. Rev. Microbiol.*, 63, 195–221.
- Andromeda, Ekawardhani, S., and Berbudi, A., 2020, The role of Curcumin as an antimalarial agent, *Syst. Rev. Pharm.*, 11(7), 18–25.
- Bálint, D., and Jäntschi, L., 2021, Comparison of molecular geometry optimization methods based on molecular descriptors, *Mathematics*, 9(22), 1–12.
- Charisiadis, P., Kontogianni, V. G., Tsiafoulis, C. G., Tzakos, A. G., Siskos, M., and Gerothanassis, I. P., 2014, ¹H-NMR as a structural and analytical tool of intra- and intermolecular hydrogen bonds of phenol-containing natural products and model compounds, *Molecules*, 19(9), 13643–13682.
- Dohutia, C., Chetia, D., Gogoi, K., Bhattacharyya, D. R., and Sarma, K., 2017, Molecular docking, synthesis and in vitro antimalarial evaluation of certain novel curcumin analogues, *Brazilian J. Pharm. Sci.*, 53(4), 1–14.
- Guan, L., Yang, H., Cai, Y., Sun, L., Di, P., Li, W., Liu, G., and Tang, Y., 2019, ADMET-score-a comprehensive scoring function for evaluation of chemical drug-likeness, *Medchemcom*, 10(1), 148–157.
- Hypercube, 2002, *HyperChem Release 7: Tools for Molecular Modeling*, Hypercube Incorporation, Ontario.
- Jagiello, K., Sosnowska, A., Kar, S., Demkowicz, S., Daśko, M., Leszczynski, J., Rachon, J., and Puzyn, T., 2017, Geometry optimization of steroid sulfatase inhibitors - the influence on the free binding energy with STS, *Struct. Chem.*, 28(4), 1017–1032.
- Khan, M. T. H., 2010, Predictions of the ADMET Properties of Candidate Drug Molecules Utilizing Different QSAR/QSPR Modelling Approaches, *Curr. Drug Metab.*, 11(4), 285–295.
- Le Bras, J., and Durand, R., 2003, The mechanisms of resistance to antimalarial drugs in *Plasmodium falciparum*, *Fundam. Clin. Pharmacol.*, 17(2), 147–153.

- Li, Q., Chen, J., Luo, S., Xu, J., Huang, Q., and Liu, T., 2015, Synthesis and assessment of the antioxidant and antitumor properties of asymmetric curcumin analogues, *Eur. J. Med. Chem.*, 93, 461–469.
- Lipinski, C. A., 2016, Rule of five in 2015 and beyond: Target and ligand structural limitations, ligand chemistry structure and drug discovery project decisions, *Adv. Drug Deliv. Rev.*, 101, 34–41.
- Masuda, T., Jitoe, A., Isobe, J., Nakatani, N., and Yonemori, S., 1993, Antioxidative and Anti Inflammatory Curcumin-Related Phenolics from Rhizomes of *Curcuma domestica*, *Phytochemistry*, 32(6), 1557–1560.
- Murugan, K., Panneerselvam, C., Subramaniam, J., Paulpandi, M., Rajaganesh, R., Vasanthakumaran, M., Madhavan, J., Shafi, S. S., Roni, M., Portilla-Pulido, J. S., Mendez, S. C., Duque, J. E., Wang, L., Aziz, A. T., Chandramohan, B., Dinesh, D., Piramanayagam, S., and Hwang, J. S., 2022, Synthesis of new series of quinoline derivatives with insecticidal effects on larval vectors of malaria and dengue diseases, *Sci. Rep.*, 12(1), 1–11.
- Ng, M. C. K., Fong, S., and Siu, S. W. I., 2015, PSOVina: The hybrid particle swarm optimization algorithm for protein-ligand docking, *J. Bioinform. Comput. Biol.*, 13(3), 1–18.
- Niyibizi, J. B., and Gatera, E. K., 2020, Diagnostic Performance between Histidine-Rich Protein 2 (HRP-2), a Rapid Malaria Diagnostic Test and Microscopic-Based Staining Techniques for Diagnosis of Malaria, *J. Trop. Med.*, 2020(5410263), 1–6.
- Onoabedje, E. A., Ayogu, J. I., and Odoh, A. S., 2020, Recent Development in Applications of Synthetic Phenoxazines and Their Related Congeners: A Mini-Review, 5(28), 8540–8556.
- Pagadala, N. S., Syed, K., and Tuszynski, J., 2017, Software for molecular docking: a review, *Biophys. Rev.*, 9(2), 91–102.
- Parhizgar, A. R., and Tahghighi, A., 2017, Introducing new antimalarial analogues of chloroquine and amodiaquine: A narrative review, *Iran. J. Med. Sci.*, 42(2), 115–128.
- Patel, O. P. S., Beteck, R. M., and Legoabe, L. J., 2021, Exploration of artemisinin derivatives and synthetic peroxides in antimalarial drug discovery research, *Eur. J. Med. Chem.*, 213, 113193.

- Paulraj, F., Abas, F., Lajis, N. H., Othman, I., and Naidu, R., 2019, Molecular pathways modulated by curcumin analogue, diarylpentanoids in cancer, *Biomolecules*, 9(7), 1–14.
- Pavia, D. L., Lampman, G. M., Kriz, G. S., and Vyvyan, J. R., 2017, *Introduction to Spectroscopy*, Cengage Learn, Boston.
- Polaquini, C. R., Marques, B. C., Ayusso, G. M., Morão, L. G., Sardi, J. C. O., Campos, D. L., Silva, I. C., Cavalca, L. B., Scheffers, D. J., Rosalen, P. L., Pavan, F. R., Ferreira, H., and Regasini, L. O., 2021, Antibacterial activity of a new monocarbonyl analog of curcumin MAC 4 is associated with divisome disruption, *Bioorg. Chem.*, 109(104668), 1–10.
- Pranowo, H. D., 2011, *Modul Kimia Komputasi*. Bandung: Penerbit Lubuk Agung.
- Reddy, R. C., Vatsala, P. G., Keshamouni, V. G., Padmanaban, G., and Rangarajan, P. N., 2005, Curcumin for malaria therapy, *Biochem. Biophys. Res. Commun.*, 326(2), 472–474.
- Salmaso, V., and Moro, S., 2018, Bridging molecular docking to molecular dynamics in exploring ligand-protein recognition process: An overview, *Front. Pharmacol.*, 9, 1–16.
- Santos, R. B. dos, Nakama, K. A., Pacheco, C. O., de Gomes, M. G., de Souza, J. F., de Souza Pinto, A. C., de Oliveira, F. A., da Fonseca, A. L., Varotti, F., Fajardo, A. R., and Haas, S. E., 2021, Curcumin-loaded nanocapsules: Influence of surface characteristics on technological parameters and potential antimalarial activity, *Mater. Sci. Eng. C*, 118(111356), 1–11.
- Singh, A., Singh, J. V., Rana, A., Bhagat, K., Gulati, H. K., Kumar, R., Salwan, R., Bhagat, K., Kaur, G., Singh, N., Kumar, R., Singh, H., Sharma, S., and Bedi, P. M. S., 2019, Monocarbonyl curcumin based molecular hybrids as potent antibacterial agents, *ACS Omega*, 4(7), S1–S50.
- Stuart, B. H., 2005, *Infrared Spectroscopy: Fundamentals and Applications*, John Wiley Sons, Ltd., Sidney.
- Syamsudin, 2005, Mekanisme Kerja Obat Antimalaria, *J. Ilmu Kefarmasian Indones.*, 3(01), 37–40.
- Tiwari, V. S., Joshi, P., Yadav, K., Sharma, A., Chowdhury, S., Manhas, A., Kumar, N., Tripathi, R., and Haq, W., 2021, Synthesis and Antimalarial Activity of 4-Methylaminoquinoline Compounds against Drug-Resistant Parasite, *ACS*

Omega, 6(20), 12984–12994.

Xiong, G., Wu, Z., Yi, J., Fu, L., Yang, Z., Hsieh, C., Yin, M., Zeng, X., Wu, C., Lu, A., Chen, X., Hou, T., and Cao, D., 2021, ADMETlab 2.0: An integrated online platform for accurate and comprehensive predictions of ADMET properties, *Nucleic Acids Res.*, 49, 1–10.

Yuvaniyama, J., Chitnumsub, P., Kamchonwongpaisan, S., Vanichtanankul, J., Sirawaraporn, W., Taylor, P., Walkinshaw, M. D., and Yuthavong, Y., 2003, Insights into antifolate resistance from malarial DHFR-TS structures, *Nat. Struct. Biol.*, 10(5), 357–365.