

DAFTAR PUSTAKA

- Achanta G, Modzelewska A, Feng L, Khan SR, Huang P, 2006. *A boronic-chalcone derivative exhibits potent anticancer activity through inhibition of the proteasome*. *Molecular Pharmacology*, 70:426-433.
- Baril L, Dietemann J, Essevaz-Roulet M, Béniguel L, Coan P, Briles DE,. 2006. *Pneumococcal surface protein A (PspA) is effective at eliciting T cell-mediated responses during invasive pneumococcal disease in adults*. *Clin Exp Immunol*, 145:277-86.
- Batt, D. G., Goodman, R., Jones, D. G., Kerr, J. S., Mantegna, L. R., McAllister, C., Newton, R. C., Nurnberg, S., Welch, P. K. & Covington, M. 1993. *2'-substituted chalcone derivatives as inhibitors of interleukin-1 biosynthesis*. *J. Med. Chem.* **36**, 1434–1442.
- Bintang, Maria. 2010. *Biokimia Teknik Penelitian*. Jakarta: Penerbit Erlangga. Hal: 198.
- Bruice, P.Y. 2003. *Organic Chemistry, Fouth Edition*. New Jersey: Pretince Hall.
- Calliste, C.; Le Bail, J.; Trouilas, P.; Pouget, C.; Habrious, G.; Chulea, A.; Duroux, J.L. 2001. *Chalcones: structural requirements for antioxidant, estrigenic and antiproliferative activities*. *J.Anticancer Res.* 21, 3949-3956.
- Chen, M., Christensen, S. B., Zhai, L., Rasmussen, M. H., Theander, T. G., Frokjaer, S., Davidsen, A. 1997. *The novel oxygenated chalcone, 2,4-dimethoxy-4'-butoxychalcone, exhibits potent activity against human malaria parasite Plasmodium falciparum in vitro and rodent parasites Plasmodium berghei and Plasmodium yoelii in vivo*. *The Journal of Infectious Diseases*, 176, 1327–1333.
- Cheng MS, Shili R, Kenyon G, 2000. *A solid phase synthesis of chalcones by Claisen-Schmidt condensations*. *Chinese Chemical Letters*, 11:851-854.
- Cortese, J. F., A. Caraballo, C. E. Contreras, and C. V. Plowe. 2002. *Origin and dissemination of Plasmodium falciparum drug-resistance mutations in South America*. *J. Infect. Dis.* 186:999–1006.
- Crippen, G.M. and Havel, T.F. 1988. *Distance Geometry and Molecular Conformation*. New York, John Wiley & Sons.
- Desjarlais Renee L, Smithkline Beecham Corp, Yamashita Dennis S. 1998. *Inhibitors of cysteine protease*.

- Dewick, P.M. 2009. *Medicinal Natural Products(Third Edition)*. John Wiley & Sons Ltd, England.
- Edwards, M.L., Stemerick, D.M. and Sunkara, P.S. 1990. *Chalcones: a new class of antimitotic agents*. *Journal of Medicinal Chemistry*, 33: 1948-1954.
- Faridz, Muhamad. 2009. *Solvent-Free Synthesis of Chalcone by Aldol Condensation Catalyzed by Solid Sodium Hydroxyde (NAOH)*. Chemistry in the Faculty of Applied Sciences Universiti Teknologi MARA.
- Friesner RA, Banks JL, Murphy RB, Halgren TA, Klicic JJ, Mainz DT, Repasky MP, Knoll EH, Shelley M, Perry JK, Shaw DE, Francis P, Shenkin PS. 2004. *Glide: A New Approach for Rapid, Accurate Docking and Scoring. 1. Method and Assessment of Docking Accuracy*. *J Med Chem*. 47; 1739-1749.
- Gatton M.L. et al. 2004. *Evolution of resistance to sulfadoxine-pyrimethamine in Plasmodium falciparum*. *Antimicrob Agents Chemother* 48 (6): 2116–2123.
- Gomez-Saladin E, Fryauff DJ, Taylor WR, Laksana BS, Susanti AI, Purnomo, Subianmto, Richie TL. 1999. *Plasmodium falciparum mdr1 mutations and in vivo chloroquine resistance Indonesia*, *Am J Trop Med Hyg*, 2:240-2444.
- Greer J, Erickson JW, Baldwin JJ, Varney MD. 1994. *Application of the three-dimensional structures of protein target molecules in structure-based drug design*. *J Med Chem.*; 37:1035-1054.
- Kristanti, Alfinda N, Tandjung, Mulyadi. 2008. *Buku Ajar Fitokimia*, Airlangga University Press, Surabaya.
- Kroemer RT, Vulpetti A, McDonald JJ, Rohrer DC, Trosset JY, Giordanetto F, Cotesta S, McMartin C, Kihlen M, Pieter FW, Stouten PF. 2004. *Interactions-Based Accuracy Classification (IBAC) versus Crystal Structure Deviations*. *J Chem Inf Comput Sci.*; 44: 871-881.
- Kubinyi H. 1993. *Molecular field analysis. In 3D QSAR in drug design: Theory, methods and. Applications*. ESCOM, Leiden, the Netherlands: 443-485.
- Kumar R., Mohanakrishnan D., Sharma A., Kaushik N.K., Kalia K., A.K. Sinha A.K., 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 b-asarone*. *Eur. J. Med. Chem*. 45.

- Kuntz, I.D., J.M. Blaney, S.J. Oatley, R. Langridge and T.E. Ferrin. 1982. *A geometric approach to macromolecule-ligand interactions*. J. Mol. Biol. 161: 269–288.
- M. N. Clifford. 2000. *Chlorogenic acids and other cinnamates—nature, occurrence, dietary burden, absorption and metabolism*. Journal of the Science of Food and Agriculture, volume 80, hal 1033–1043.
- Mario Milani, Emanuela Balconi, Alessandro Aliverti, Eloise Mastrangelo, Frank Seeber, Martino Bolognesi and Giuliana Zanetti. 2007. *Ferredoxin-NADP⁺ Reductase from Plasmodium falciparum Undergoes NADP⁺-dependent Dimerization and Inactivation: Functional and Crystallographic Analysis*. J. Mol. Biol. 367, 501–513.
- McMartin C, Bohacek RS. 1997. *QXP: powerful, rapid computer algorithms for structure-based drug design*. J Comput-Aided Mol Des.; 11: 333-334.
- Mugge I, Enyedy I. 2003. *Virtual Screening*. In *Burger's Medicinal chemistry and Drug discovery*. 6 th ed Volume 1; Verginia : Wiley Interscience ;: 243–279.
- Nam NH, Kim Y, You YJ, Hong DH, Kim HM, Ahn Bz. 2003. *Cytotoxic 2',5'-dihydrochalcones with unexpected antiangiogenic activity*. Europ J Med Chem, 38: 179-187.
- Patil, C. B., Mahajan, S. K. and Katti, S. A. 2009. *Chalcone: a versatile molecule*. Journal of Pharmaceutical Sciences and Research 1: 11-22.
- Pribadi W, Dakung LS, Gandahusada S. Daldiyono. 1981. *Chloroquine resistant Plasmodium falciparum infection from Lampung and South Sumatra, Indonesia*. Southeast Asian J Trop Med Public Health. 12(1):69–73.
- Puspaningsih, N. NT., Suwito, H., Pudjiastuti, P. 2013. *Sintesis dan analisis SAR turunan kalkon sebagai antimalaria baru melalui mekanisme inhibisi Ferredoxin NADP⁺ Reductase (FNR)*. Laporan Penelitian Insentif Riset SINas.
- Rahman, M.A. 2001. *Chalcone: A Valuable Insight into the Recent Advances and Potential Pharmacological Activities*. Chemical Science Jurnal. CSJ-29.
- Robards K, Prenzler PD, Tucker G, Swatsitang P, Glover W. 1999. *Phenolic compound and their role in oxidative processes in fruits*. Food Chem, 66: 401-436.
- Serre, L., Vellieux, F.M., Medina, M., Gomez-Moreno, C., Fontecilla-Camps, J.C., Frey, M. 1997. *X-ray structure of the ferredoxin:NADP⁺ reductase from the cyanobacterium Anabaena PCC 7119 at 1.8 Å*

resolution, and crystallographic studies of NADP+ binding at 2.25 Å resolution. J.Mol.Biol., 263:20-39.

- Shah, V. 2007. *Handbook of Plastics Testing and Failure Analysis, Third Edition.* New Jersey: John Wiley & Sons, Inc.
- Sherma, J., Fried, B. 2003. *Handbook of Thin Layer Chromatography, Third Edition, Revised and Expanded.* New York: Marcel Dekker, Inc.
- Shoichet BK. 2004. *Virtual screening of chemical libraries.* Nature.; 432:862-865
- Silverstein, R.M., Webster F.X., Kiemle,D.J.2005.*electrometric Identification of organic Compound, seventh Edition.* Danvers : John Willey and Sons Inc.
- Sipl W. 2000. *Receptor-based 3DQ SAR analysis of estrogen receptor ligands merging the accuracy of receptor-based alignments with the computational efficiency of ligand-based methods.* J Comput-Aided Mol Des.; 14: 559-572
- Tondi D, Slomczynska U, Costi MP, Watterson DM, Ghelli S, Shoichet BK. 1999. *Structure based discovery and in-parallel optimization of novel competitive inhibitors of thymidylate synthase.* Chem Biol.; 6: 319-331.
- WHO, www.who.int/malaria . 2010. diakses tanggal 15 November 2014.
- Won SJ, Liu CT, Tsao LT, Weng JR, Ko HH, Wang JP, Lin CN. 2005. *Synthetic chalcones as potential antiinflammatory and cancer chemopreventive agents.* Europ J Med Chem, 40: 103-112.