

DAFTAR PUSTAKA

- Abdellatif, K. R. A., Abdelall, E. K. A., Fadaly, W. A. A., & Kamel, G. M. (2016). Synthesis, cyclooxygenase inhibition, anti-inflammatory evaluation and ulcerogenic liability of new 1, 3, 5-triarylpyrazoline and 1, 5-diarylpyrazole derivatives as selective COX-2 inhibitors. *Bioorganic & Medicinal Chemistry Letters*, 26(2), 406–412.
- Abdillah, M. N., Ilmah, N. R., & Mahardhika, A. B. (2018). Penambatan molekuler senyawa polifenolat terhadap enzim reverse transcriptase sebagai senyawa antiretroviral (HIV-1). *Jurnal Sains Dan Teknologi Farmasi Indonesia*, 6(1).
- Al-Saeed, A. (2011). Gastrointestinal and cardiovascular risk of nonsteroidal anti-inflammatory drugs. *Oman Medical Journal*, 26(6), 385.
- Alagumuthu, M., Ravichandran, S., Kumaravel, K., Arumugam, S., & Priya, R. (2016). Molecular docking and in vitro evaluations of Hippocampus trimaculatus (seahorse) extracts as the anti-inflammatory compounds. *International Journal of Bioinformatics Research and Applications*, 12(4), 355–371.
- Anorital, A., & Andayasari, L. (2011). Kajian epidemiologi penyakit infeksi saluran pencernaan yang disebabkan oleh amuba di Indonesia. *Media Penelitian Dan Pengembangan Kesehatan*, 21(1), 150548.
- Arwansyah, A., Ambarsari, L., & Sumaryada, T. I. (2014). Simulasi docking senyawa kurkumin dan analognya sebagai inhibitor reseptor androgen pada kanker prostat. *Current Biochemistry*, 1(1), 11–19.
- Atilgan, E., & Hu, J. (2011). Improving protein docking using sustainable genetic algorithms. *Int J Compu Inoform Sys Ind Manag App*, 3, 248–255.
- Attiq, A., Jalil, J., Husain, K., & Ahmad, W. (2018). Raging the war against inflammation with natural products. *Frontiers in Pharmacology*, 9, 976.
- Bagnes, C., Panchuk, P. N., & Recondo, G. (2010). Antineoplastic chemotherapy induced QTc prolongation. *Current Drug Safety*, 5(1), 93–96.
- Bai, H.-W., & Zhu, B. T. (2010). Myricetin and quercetin are naturally occurring co-substrates of cyclooxygenases in vivo. *Prostaglandins, Leukotrienes and Essential Fatty Acids*, 82(1), 45–50.
- Bellik, Y., Boukraâ, L., Alzahrani, H. A., Bakhotmah, B. A., Abdellah, F., Hammoudi, S. M., & Iguer-Ouada, M. (2013). Molecular mechanism underlying anti-inflammatory and anti-allergic activities of phytochemicals: an update. *Molecules*, 18(1), 322–353.
- Berman, H., Westbrook, M., Feng, J. Z., Gilliland, G. T., Bhat, H., & Weissig, I. N. (2005). Discovery studio visualizer. *San Diego, CA: Accelrys Software Inc.*
- Bibi, Z. (2008). Role of cytochrome P450 in drug interactions. *Nutrition & Metabolism*, 5(1), 1–10.

- Borer, J. S., & Simon, L. S. (2005). Cardiovascular and gastrointestinal effects of COX-2 inhibitors and NSAIDs: achieving a balance. *Arthritis Research & Therapy*, 7(4), 1–9.
- Brenner, S., Miller, J. H., & Broughton, W. (2013). *Encyclopedia of genetics* (Issue Sirsi) i9780122270802).
- Bronowska, A. (2012). Thermodynamics of Ligand-Protein Interactions: Implications for Molecular Design, Thermodynamics - Interaction Studies - Solids, Liquids and Gases. In *InTech*. <https://doi.org/10.5772/19447>
- Buckley, C. D., Gilroy, D. W., & Serhan, C. N. (2014). Proresolving lipid mediators and mechanisms in the resolution of acute inflammation. *Immunity*, 40(3), 315–327.
- Calder, P. C. (2010). Omega-3 fatty acids and inflammatory processes. *Nutrients*, 2(3), 355–374.
- Caster, D. J., Powell, D. W., Miralda, I., Ward, R. A., & McLeish, K. R. (2017). Re-examining neutrophil participation in GN. *Journal of the American Society of Nephrology*, 28(8), 2275–2289.
- Caughey, G. E., Cleland, L. G., Penglis, P. S., Gamble, J. R., & James, M. J. (2001). Roles of cyclooxygenase (COX)-1 and COX-2 in prostanoid production by human endothelial cells: selective up-regulation of prostacyclin synthesis by COX-2. *The Journal of Immunology*, 167(5), 2831–2838.
- Charlier, C., & Michaux, C. (2003). Dual inhibition of cyclooxygenase-2 (COX-2) and 5-lipoxygenase (5-LOX) as a new strategy to provide safer non-steroidal anti-inflammatory drugs. *European Journal of Medicinal Chemistry*, 38(7–8), 645–659.
- Chaudhary, K. K., & Mishra, N. (2016). A review on molecular docking: novel tool for drug discovery. *Databases*, 3(4), 1029.
- Chen, D., Oezguen, N., Urvil, P., Ferguson, C., Dann, S. M., & Savidge, T. C. (2016). Regulation of protein-ligand binding affinity by hydrogen bond pairing. *Science Advances*, 2(3), e1501240.
- Chlebek, J., Korábečný, J., Doležal, R., Štěpánková, Š., Pérez, D. I., Hošťálková, A., Opletal, L., Cahlíková, L., Macáková, K., & Kučera, T. (2019). In Vitro and In Silico acetylcholinesterase inhibitory activity of thalictricavine and canadine and their predicted penetration across the blood-brain barrier. *Molecules*, 24(7), 1340.
- Clark, M. A., Choi, J., & Douglas, M. (2018). The genetic code. In *Biology 2e*. OpenStax.
- Crommelin, D. J. A., Mastrobattista, E., Hawe, A., Hoogendoorn, K. H., & Jiskoot, W. (2019). Shifting paradigms revisited: biotechnology and the pharmaceutical sciences. *Journal of Pharmaceutical Sciences*, 109(1), 30–43.

- Cuzzolin, A., Sturlese, M., Malvacio, I., Ciancetta, A., & Moro, S. (2015). DockBench: an integrated informatic platform bridging the gap between the robust validation of docking protocols and virtual screening simulations. *Molecules*, 20(6), 9977–9993.
- D'Mello, P., Gadhwal, M. K., Joshi, U., & Shetgiri, P. (2011). Modeling of COX-2 inhibitory activity of flavonoids. *International Journal of Pharmacy and Pharmaceutical Sciences*, 3(4), 33–40.
- de Freitas, R. F., & Schapira, M. (2017). A systematic analysis of atomic protein–ligand interactions in the PDB. *MedChemComm*, 8(10), 1970–1981.
- Dermawan, D., Sumirtanurdin, R., & Dewantisari, D. (2019). Molecular Dynamics Simulation Estrogen Receptor Alpha againsts Andrographolide as Anti Breast Cancer. *Indonesian Journal of Pharmaceutical Science and Technology*, 6(2), 65–76.
- Desai, S. J., Prickril, B., & Rasooly, A. (2018). Mechanisms of phytonutrient modulation of cyclooxygenase-2 (COX-2) and inflammation related to cancer. *Nutrition and Cancer*, 70(3), 350–375.
- Farkas, Z., Kacsuk, P., Kiss, T., Borsody, P., Hajnal, Á., Balaskó, Á., & Karóczkai, K. (2015). Autodock gateway for molecular docking simulations in cloud systems. *Cloud Computing with E-Science Applications*, 1, 217–237.
- Ferreira, L. G., & Ricardo, N. (2015). Dos Santos, Glaucius Oliva, and Adriano D. Andricopulo. *Molecules*, 20, 13384–13421.
- Fitriah, A. (2017). Analisis interaksi senyawa flavonoid sukun (*Artocarpus altilis*) terhadap reseptor estrogen Alfa (ER α) secara in silico sebagai model kandidat antikanker payudara. *Skripsi*. Universitas Islam Negeri Maulana Malik Ibrahim.
- Frolov, R. V, Berim, I. G., & Singh, S. (2008). Inhibition of delayed rectifier potassium channels and induction of arrhythmia: a novel effect of celecoxib and the mechanism underlying it. *Journal of Biological Chemistry*, 283(3), 1518–1524.
- Ganesan, M. S., Raja, K. K., Murugesan, S., Kumar, B. K., Rajagopal, G., & Thirunavukkarasu, S. (2020). Synthesis, biological evaluation, molecular docking, molecular dynamics and DFT studies of quinoline-fluoroproline amide hybrids. *Journal of Molecular Structure*, 1217, 128360.
- García-Mediavilla, V., Crespo, I., Collado, P. S., Esteller, A., Sánchez-Campos, S., Tuñón, M. J., & González-Gallego, J. (2007). The anti-inflammatory flavones quercetin and kaempferol cause inhibition of inducible nitric oxide synthase, cyclooxygenase-2 and reactive C-protein, and down-regulation of the nuclear factor kappaB pathway in Chang Liver cells. *European Journal of Pharmacology*, 557(2), 221–229. <https://doi.org/https://doi.org/10.1016/j.ejphar.2006.11.014>

- Geldenhuys, W. J., Gaasch, K. E., Watson, M., Allen, D. D., & Van der Schyf, C. J. (2006). Optimizing the use of open-source software applications in drug discovery. *Drug Discovery Today*, 11(3–4), 127–132.
- Gong, L., Thorn, C. F., Bertagnolli, M. M., Grosser, T., Altman, R. B., & Klein, T. E. (2012). Celecoxib pathways: pharmacokinetics and pharmacodynamics. *Pharmacogenetics and Genomics*, 22(4), 310.
- Gunaydin, C., & Bilge, S. S. (2018). Effects of nonsteroidal anti-inflammatory drugs at the molecular level. *The Eurasian Journal of Medicine*, 50(2), 116.
- Gupta, R., Dey, A., Vijan, A., & Gartia, B. (2017). In Silico structure modeling and characterization of hypothetical protein YP_004590319. 1 present in enterobacter aerogens. *J Proteomics Bioinform*, 10, 152–170.
- Hamzah, N., Najib, A., Thahir, N., & Misqawati, I. (2015). Studi Farmakofor Reseptor COX-2 Sebagai Anti Inflamasi. *Jurnal Farmasi UIN Alauddin Makassar*, 2(3), 99–107.
- Hanwell, M. D., Curtis, D. E., Lonie, D. C., Vandermeersch, T., Zurek, E., & Hutchison, G. R. (2012). Avogadro: an advanced semantic chemical editor, visualization, and analysis platform. *Journal of Cheminformatics*, 4(1), 1–17.
- Harlim, A. (2018). *Buku ajar Ilmu Kesehatan Kulit dan Kelamin*, Fakultas Kedokteran Kristen Indonesia, Jakarta. Universitas Kristen Indonesia.
- Hartati, F. K. (2017). Aktivitas antiinflamasi ekstrak etanol dan air beras hitam (*Oryza sativa l. Indica*) pada tikus wistar jantan (activities antiinflammatory ethanol extract and water black rice (*Oryza sativa l. Indica*) on male wistar rats). *Jurnal Teknologi Pangan*, 10(1).
- Hasan, M., Fitri, Z., & Rahmayani, R. F. I. (2017). *Ikatan Kimia*. Syiah Kuala University Press.
- Haytowitz, D. B., & Pehrsson, P. R. (2018). USDA's National Food and Nutrient Analysis Program (NFNAP) produces high-quality data for USDA food composition databases: Two decades of collaboration. *Food Chemistry*, 238, 134–138.
- Hirayama, D., Iida, T., & Nakase, H. (2018). The phagocytic function of macrophage-enforcing innate immunity and tissue homeostasis. *International Journal of Molecular Sciences*, 19(1), 92.
- Izzati, U., & Sulistyoningsih, D. (2019). Analisis Kimia Buah Semangka (*Citrullus lanatus L*) dan Pengaruhnya terhadap Peningkatan Produksi ASI. *Karya Ilmiah*, 7(1).
- Jain, A. N., & Nicholls, A. (2008). Recommendations for evaluation of computational methods. *Journal of Computer-Aided Molecular Design*, 22(3), 133–139.
- Jász, Á., Rák, Á., & Cserey, G. (2017). Energy calculation of MMFF94 force field

- on GPU (Special session on array computing systems and applications). *2017 European Conference on Circuit Theory and Design (ECCTD)*, 1–4.
- Katzung. (2005). *Basic & Clinical Pharmacology Fourteenth Edition* a LANGE medical book. In *Academia.Edu*. www.mhprofessional.com.
- Katzung, B. G., Masters, S. B., & Trevor, A. J. (2004). *Basic & clinical pharmacology*. Lange Medical Books/McGraw Hill New York, NY.
- Katzung, & Chatterjee, K. (2012). Vasodilators and the treatment of angina pectoris. *Basic and Clinical Pharmacology*, 7, 20–25.
- Katzung, Masters, S. B., & Trevor, A. J. (2012). *Basic & Clinical Pharmacology Edisi 12*. Jakarta: *Buku Kedokteran EGC*, 43, 892–936.
- Kemenkes RI. (2018). Hasil Riset Kesehatan Dasar Tahun 2018. *Kementrian Kesehatan RI*, 53(9), 1689–1699.
- King, T. C. (2007). *Inflammation, Inflammatory Mediators, and Immune-Mediated Disease-ScienceDirect*. Elsevier's Integrated Pathology. <https://doi.org/10.1016/B978-0-323-04328-1.50008-5>
- Kolbe, K., Schönherr, R., Gessner, G., Sahoo, N., Hoshi, T., & Heinemann, S. H. (2010). Cysteine 723 in the C-linker segment confers oxidative inhibition of hERG1 potassium channels. *The Journal of Physiology*, 588(16), 2999–3009.
- Kumar, S., & Kumar, S. (2019). Molecular docking: a structure-based approach for drug repurposing. In *In Silico Drug Design* (pp. 161–189). Elsevier.
- Kumar, V., Cotran, R. S., & S.L, R. (2007). *Buku Ajar Patologi. Edisi 7; ali Bahasa, Brahm U, Pendt ;editor Bahasa Indonesia, Huriawati Hartanto, Nurwany Darmaniah, Nanda Wulandari.-ed.7-Jakarta: EGC*.
- La Kilo, A., Sabihi, I., & La Kilo, J. (2019). Studi Potensi Pirazolin Tersubstitusi 1-N dari Thiosemicarbazone sebagai Agen Antiamuba melalui Uji In Silico. *Indonesian Journal of Chemical Research*, 7(1), 9–24.
- Lipinski, C. A. (2016). Rule of five in 2015 and beyond: Target and ligand structural limitations, ligand chemistry structure and drug discovery project decisions. *Advanced Drug Delivery Reviews*, 101, 34–41.
- Liu, T., Zhang, L., Joo, D., & Sun, S.-C. (2017). NF-κB signaling in inflammation. *Signal Transduction and Targeted Therapy*, 2(1), 1–9.
- Lumbanraja, L. B. (2009). Skrining Fitokimia dan Uji Efek Antiinflamasi Ekstrak Etanol Daun Tempuyung (*Sonchus arvensis L.*) terhadap Radang pada Tikus. *Skrripsi. Fakultas Farmasi, Universitas Sumatera Utara*, 83.
- MacLeod, J. M., & Rosei, F. (2011). *Directed assembly of nanostructures.Comprehensive Nanoscience and Technology*. 3, 13–68. <https://doi.org/https://doi.org/10.1016/B978-0-12-374396-1.00098-2>

- Makiyah, S. N. N., & Arifah, R. U. (2018). Ekstrak Etanol Buah Semangka (*Citrullus lanatus*) sebagai Antiinflamasi melalui Pengamatan Tebal Epitel Duodenum Mencit BALB/c. *Jurnal Kedokteran Brawijaya*, 30(1), 24–28.
- Maleki, S. J., Crespo, J. F., & Cabanillas, B. (2019). Anti-inflammatory effects of flavonoids. *Food Chemistry*, 299, 125124.
- Mauldin, J. P., Zeinali, I., Kleypas, K., Woo, J. H., Blackwood, R. S., Jo, C.-H., Stone, E. M., Georgiou, G., & Frankel, A. E. (2012). Recombinant human arginase toxicity in mice is reduced by citrulline supplementation. *Translational Oncology*, 5(1), 26–31.
- McDonald, B. (2016). Stoelting's Pharmacology & Physiology in Anesthetic Practice—5 th Edition. *Canadian Journal of Anesthesia/Journal Canadien d'anesthésie*, 63(3), 370–371.
- Meenambiga, S. S., Rajagopal, K., & Durga, R. (2015). In silico docking studies on the components of *Inonotus sp.*, a medicinal mushroom against cyclooxygenase-2 enzyme. *Asian J Pharm Clin Res*, 8(3), 142–145.
- Mintseris, J., Wiehe, K., Pierce, B., Anderson, R., Chen, R., Janin, J., & Weng, Z. (2005). Protein–protein docking benchmark 2.0: an update. *Proteins: Structure, Function, and Bioinformatics*, 60(2), 214–216.
- Mitchell, Kumar, V., Abbas, A. K., Fausto, N. R., & Aster, J. R. (2015). Cotran pathologic basis of disease. Philadelphia. PA: Saunders.
- Moro, G., van Dijk, S., Vorlaufer, M., Ndonga, S., Sing'ora, B., & Kenyanito, L. (2018). Influence of inflammation in the process of T lymphocyte differentiation: Proliferative, metabolic, and oxidative changes. *Frontiers in Sustainable Food Systems*, 3, 3.
- Morris, G. M., Huey, R., & Olson, A. J. (2008). Using autodock for ligand-receptor docking. *Current Protocols in Bioinformatics*, 24(1), 8–14.
- Mukesh, B., & Rakesh, K. (2011). Molecular docking: a review. *Int J Res Ayurveda Pharm*, 2(6), 1746–1751.
- Mustofiyah, A. (2020). *Gambaran kadar C-reactive protein (CRP) pada pekerja batu kapur. Skripsi*. UNIMUS.
- Mycek, S. (2001). Patient safety: it starts with the board. *Trustee: The Journal for Hospital Governing Boards*, 54(5), 8–12.
- Neilana, E. ., & Shih, V. . (2003). Amino Acids. *Encyclopedia of the Neurological Sciences*, 112–116. [https://doi.org/https://doi.org/10.1016/B0-12-226870-9/00003-4](https://doi.org/10.1016/B0-12-226870-9/00003-4).
- Nisha, C. M., Kumar, A., Nair, P., Gupta, N., Silakari, C., Tripathi, T., & Kumar, A. (2016). Molecular docking and in silico ADMET study reveals acylguanidine 7a as a potential inhibitor of β -secretase. *Advances in Bioinformatics*, 2016.

- Novian, D. R., Ikhwan, A. Z. N., & Winarso, A. (2019). Uji farmakodinamik, drug-likeness, farmakokinetik dan interaksi senyawa aktif kayu ular (*Strychnos lucida*) sebagai inhibitor *Plasmodium falciparum* secara in silico. *Jurnal Veteriner Nusantara*, 2(1), 70–78.
- Nursamsiar, N., Toding, A. T., & Awaluddin, A. (2016). Studi in silico senyawa turunan analog kalkon dan pirimidin sebagai antiinflamasi: Prediksi absorpsi, distribusi, dan toksisitas. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 13(1), 92–100.
- Nusantoro, Y. R., & Fadlan, A. (2020). Analisis Sifat Mirip Obat, Prediksi ADMET, dan Penambatan Molekular Isatinil-2-Aminobenzoilhidrazon dan kompleks logam transisi Co (II), Ni (II), Cu (II), Zn (II) Terhadap BCL2-XL. *Akta Kimia Indonesia*, 5(2), 114–126.
- O'Boyle, N. M., Banck, M., James, C. A., Morley, C., Vandermeersch, T., & Hutchison, G. R. (2011). Open Babel: An open chemical toolbox. *Journal of Cheminformatics*, 3(1), 1–14.
- Oktaviani, L. R. (2014). *Uji efektivitas antiinflamasi ekstrak herba sambiloto (Andrographis paniculata Nees.) secara topikal pada mencit betina galur swiss yang diinduksi karagenin. Skripsi.*
- Pasha, M., Mondal, S., & Panigrahi, N. (2021). Synthesis of novel ketene dithioacetals via one pot reaction: Molecular modelling in-silico Admet studies and antimicrobial activity. *Current Chemistry Letters*, 10(3), 187–202.
- Pires, D. E. V., Blundell, T. L., & Ascher, D. B. (2015). pkCSM: predicting small-molecule pharmacokinetic and toxicity properties using graph-based signatures. *Journal of Medicinal Chemistry*, 58(9).
- Poduri, A., Rateri, D. L., Saha, S. K., Saha, S., & Daugherty, A. (2013). Citrullus lanatus 'sentinel'(watermelon) extract reduces atherosclerosis in LDL receptor-deficient mice. *The Journal of Nutritional Biochemistry*, 24(5), 882–886.
- Pranowo, H. D. (2009). Peran kimia komputasi dalam desain molekul obat. In *Yogyakarta: Universitas Gadjah Mada.*
- Prasad, N. K., Kanakaveti, V., Eadlapalli, S., Vadde, R., Meetei, A. P., & Vindal, V. (2013). Ligand-based pharmacophore modeling and virtual screening of RAD9 inhibitors. *Journal of Chemistry*, 2013.
- Prasetya, R. C. (2015). Ekspresi dan Peran Siklooksigenase-2 dalam Berbagai Penyakit di Rongga Mulut. *Stomatognathic-Jurnal Kedokteran Gigi*, 12(1), 16–19.
- Purnomo, S., Joko, T., & Hadisusanto, S. (2009). Biologi Kelas XI untuk SMA dan MA. *Jakarta: Pusat Perbukuan, Departemen Pendidikan Nasional.*
- Radji, M., Sumiati, A., & Indani, N. (2004). Uji mutagenisitas dan anti kanker

- ekstrak aseton dan n-heksana dari kulit batang sesoot (*Garcinia picrorrhiza* Miq.). *Majalah Ilmu Kefarmasian*, 1(2), 2.
- Rashid, M. A., Khatib, F., & Sattar, A. (2015). Protein preliminaries and structure prediction fundamentals for computer scientists. *ArXiv Preprint ArXiv:1510.02775*.
- Ricciotti, E., & FitzGerald, G. A. (2011). Prostaglandins and inflammation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 31(5), 986–1000.
- Robbins, S. L. (1995). *Buku ajar patologi II* (4th ed.). EGC.
- Rouzer, C. A., & Marnett, L. J. (2009). Cyclooxygenases: structural and functional insights. *Journal of Lipid Research*, 50, S29–S34.
- Rowlinson, S. W., Kiefer, J. R., Prusakiewicz, J. J., Pawlitz, J. L., Kozak, K. R., Kalgutkar, A. S., Stallings, W. C., Kurumbail, R. G., & Marnett, L. J. (2003). A novel mechanism of cyclooxygenase-2 inhibition involving interactions with Ser-530 and Tyr-385. *Journal of Biological Chemistry*, 278(46), 45763–45769.
- Roy, K., Kar, S., & Das, R. N. (2015). *Understanding the basics of QSAR for applications in pharmaceutical sciences and risk assessment* (pp. 151–185). Academic press.
- Sánchez-Borges, M., Caballero-Fonseca, F., Capriles-Hulett, A., & González-Aveledo, L. (2010). Hypersensitivity reactions to nonsteroidal anti-inflammatory drugs: an update. *Pharmaceuticals*, 3(1), 10–18.
- Santoso, B. (2017). Pengaruh Volume Gridbox pada Docking Senyawa dalam *Stelechocarpus Burahol* terhadap Protein Homolog Antiinflamasi TRPV1. *URECOL*, 321–328.
- Sharma, V., Bhatia, P., Alam, O., Naim, M. J., Nawaz, F., Sheikh, A. A., & Jha, M. (2019). Recent advancement in the discovery and development of COX-2 inhibitors: Insight into biological activities and SAR studies (2008–2019). *Bioorganic Chemistry*, 89, 103007.
- Shim, Y. K., & Kim, N. (2016). Nonsteroidal anti-inflammatory drug and aspirin-induced peptic ulcer disease. *The Korean Journal of Gastroenterology*, 67(6), 300–312.
- Simamora, A. (2015). *Asam amino, Peptida, dan Protein*. In *Buku Ajar Blok 3 Biologi Sel (Vol. 1)*. Fakultas Kedokteran Ukrida.
- Soares, T. A., Hünenberger, P. H., Kastenholz, M. A., Kräutler, V., Lenz, T., Lins, R. D., Oostenbrink, C., & van Gunsteren, W. F. (2005). An improved nucleic acid parameter set for the GROMOS force field. *Journal of Computational Chemistry*, 26(7), 725–737.
- Sobir, S. F. D. (2010). Budidaya semangka panen 60 hari. *Jakarta: Penebar Swadaya*, 12–15.

- Sohilait, M. R., Pranowo, H. D., & Haryadi, W. (2017). Molecular docking analysis of curcumin analogues with COX-2. *Bioinformation*, 13(11), 356.
- Sooriakumaran, P. (2006). COX-2 inhibitors and the heart: are all coxibs the same? *Postgraduate Medical Journal*, 82(966), 242–245.
- Sorokina, M., McCaffrey, K. S., Deaton, E. E., Ma, G., Ordovás, J. M., Perkins-Veazie, P. M., Steinbeck, C., Levi, A., & Parnell, L. D. (2021). A Catalog of Natural Products Occurring in Watermelon—*Citrullus lanatus*. *Frontiers in Nutrition*, 8(September), 1–18. <https://doi.org/10.3389/fnut.2021.729822>
- Stoelting R. K., & Hillier, S. C. (2006). *Pharmacology and Physiology in Anesthetic Practice*. (4th ed.). Lippincott Williams & Wilkins.
- Stoelting, R. K., & Hillier, S. C. (2012). *Pharmacology and physiology in anesthetic practice*. Lippincott Williams & Wilkins.
- Sudira, I., Merdana, I., & Qurani, S. (2019). Preliminary phytochemical analysis of guava leaves (*Psidium guajava* L.) as antidiarrheal in calves. *Advances in Tropical Biodiversity and Environmental Sciences*, 3(2), 21–24.
- Suhadi, A., Rizarullah, R., & Feriyani, F. (2019). Simulasi Docking Senyawa Aktif Daun Binahong Sebagai Inhibitor Enzyme Aldose Reductase. *Sel Jurnal Penelitian Kesehatan*, 6(2), 55–65.
- Sulaiman, F., Azam, A. A., Safwan, M., Bustamam, A., Fakurazi, S., Abas, F., Lee, Y. X., Ismail, A. A., Munirah, S., Faudzi, M., & Ismail, I. S. (2020). *Metabolite Profiles of Red and Yellow Watermelon (Citrullus lanatus) Cultivars Using a 1H-NMR Metabolomics Approach*. 1–13. <https://doi.org/https://doi.org/10.3390/molecules25143235>
- Sun, F.-F., Hu, P.-F., Xiong, Y., Bao, J.-P., Qian, J., & Wu, L.-D. (2019). Tricetin protects rat chondrocytes against IL-1 β -induced inflammation and apoptosis. *Oxidative Medicine and Cellular Longevity*, 2019.
- Susanti, N. M. P., Laksmiani, N. P. L., Noviyanti, N. K. M., Arianti, K. M., & Duantara, I. K. (2019). Molecular Docking Terpinen-4-Ol Sebagai Antiinflamasi Pada Aterosklerosis Secara In Silico. *Jurnal Kimia*. <https://doi.org/https://doi.org/https://doi.org/10.24843/jchem.2019.v13.i02.p16>
- Syahputra, G. (2014). Simulasi docking kurkumin enol, bisdemetoksikurkumin dan analognya sebagai inhibitor enzim 12-lipoksigenase. *Jurnal Biofisika*, 10(1).
- Syukur. (2009). *Semangka (Citrullus lanatus (Thunberg) Matsum & Nakai)*. HPSP09-YUMKMI.
- Tao, X., Huang, Y., Wang, C., Chen, F., Yang, L., Ling, L., Che, Z., & Chen, X. (2020). Recent developments in molecular docking technology applied in food science: a review. *International Journal of Food Science & Technology*, 55(1), 33–45.

- Taylor, J. L. S., Van Staden, J., & Jäger, A. K. (2002). COX-1 and COX-2 inhibitory activity in extracts prepared from *Eucomis* species, with further reference to extracts from *E. autumnalis*. *South African Journal of Botany*, 68(1), 80–85.
- Tjay, T. H., & Rahardja, K. (2007). *Obat-obat penting: khasiat, penggunaan dan efek-efek sampingnya*. Elex Media Komputindo.
- UdayaRaja, G. K. (2016). *Pharmaceutical Sciences: Breakthroughs in Research and Practice* (1st ed.). Medical Information Science Reference.
- Vishwakarma, R. K., & Negi, D. S. (2020). The Development Of COX-1 And COX-2 Inhibitors: A Review. *International Journal of Pharmaceutical Sciences and Research. European Journal of Medicinal Chemistry*, 8, 3544–3555. <https://doi.org/https://doi.org/10.13040/IJPSR.0975-8232>.
- Vuppalandhi, R. (2011). Metabolism of Drugs and Xenobiotics. *Practical Hepatic Pathology: A Diagnostic Approach E-Book: A Volume in the Pattern Recognition Series*, 45.
- Waller, D. G., & Sampson, A. P. (2018). *Medical Pharmacology and Therapeutics. In Clinics in podiatric medicine and surgery*. 62(12), 3395–3401. <https://doi.org/https://doi.org/10.1016/B978-0-7020-7167-6.00029-4>
- Ward, M. B., Sorich, M. J., Evans, A. M., & McKinnon, R. A. (2009). Cytochrome P450 Part 3: Impact of Drug-Drug Interactions. *Journal of Pharmacy Practice and Research*, 39(1), 55–58.
- Williams. (2018). Clinical pharmacology of corticosteroids. *Respiratory Care*, 63(6), 655–670.
- Williams, B. S., & Buvanendran, A. (2010). Etoricoxib. *The Essence of Analgesia and Analgesics*, 62(18), 243–245. <https://doi.org/10.1017/CBO9780511841378.057>
- Wongrakpanich, S., Wongrakpanich, A., Melhado, K., & Rangaswami, J. (2018). A comprehensive review of non-steroidal anti-inflammatory drug use in the elderly. *Aging and Disease*, 9(1), 143.
- Wu, G. (2021). *Amino acids: biochemistry and nutrition* (2nd ed.). CRC Press. <https://doi.org/https://doi.org/10.1201/9781003092742>
- Yamada, K., Shoji, K., Mori, M., Ueyama, T., Matsuo, N., Oka, S., Nishiyama, K., & Sugano, M. (1999). Structure-activity relationship of polyphenols on inhibition of chemical mediator release from rat peritoneal exudate cells. *In Vitro Cellular & Developmental Biology-Animal*, 35(3), 169–174.
- Yanuar, A. (2012). Penambatan Molekul Praktek Dan Aplikasi Pada Virtual Screening. Fakultas Farmasi Universitas Indonesia. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 1.
- Yativ, M., Harary, I., & Wolf, S. (2010). Sucrose accumulation in watermelon

- fruits: genetic variation and biochemical analysis. *Journal of Plant Physiology*, 167(8), 589–596.
- Yeni, Y., Supandi, S., & Merdekawati, F. (2018). In silico toxicity prediction of 1-phenyl-1-(quinazolin-4-yl) ethanol compounds by using Toxtree, pkCSM and preADMET. *Pharmaciana*, 8(2), 216.
- Yusuf, M., Hardianto, A., Muchtaridi, M., Nuwarda, R. F., & Subroto, T. (2019). *Introduction of Docking-Based Virtual Screening Workflow Using Desktop Personal Computer*.
- Zahra, A. P., & Carolia, N. (2017). Obat Anti-inflamasi Non-steroid (OAINS): Gastroprotektif vs Kardiotoxik. *Jurnal Majority*, 6(3), 153–157.
- Zarghi, A., & Arfaei, S. (2011). Selective COX-2 inhibitors: a review of their structure-activity relationships. *Iranian Journal of Pharmaceutical Research: IJPR*, 10(4), 655.
- Zhao, M., & Yang, J. (2019). 2180-P: *HERG2 Channel Plays a Key Role in Insulin Secretion*. Am Diabetes Assoc.