

## DAFTAR PUSTAKA

- Abdullah, M., Desmarini, D., Meilaini, S., Sari, P., Yunaini, L., & Fadilah, F. (2019). The Effect of Ethanolic Leaves Extract of Soursop (*Annona muricata* L.) on Human Colorectal Cancer Cell Line: Cell Viability and in Silico Study to Cyclin D1 Protein. *Health Science Journal of Indonesia*, *10*(2), 96–102. <https://doi.org/10.22435/hsji.v12i2.2441>
- Adriani. (2018). Prediksi Senyawa Bioaktif Dari Tanaman Sanrego (*Lunasia amara* Blanco) Sebagai Inhibitor Enzim Siklooksigenase-2 (COX-2) Melalui Pendekatan Molecular Docking. *Jurnal Ilmiah Pena, Sains Dan Ilmu Pendidikan*, *1*, 6–11. <http://ojs.stkipi.ac.id/index.php/jip/article/view/128>
- Afiah, N. U. R. (2015). Cara Men-Download , Menginstall dan Menggunakan Chemcketch dan Marvin Sketch Serta Cara Men-Download Ligan Dan Protein. *Program Studi Kimia*. 1303410012.
- Agustina, W., Susanti, E., Yunita, N., & Yamtinah, S. (2018). Modul Chem Office (Chem Draw & Chem 3D). Draw, C. (n.d.). Chem Draw & Chem 3D., 1–22.
- Amalia, R., & Ruswanto. (2019). Molecular Dinamik Senyawa Turunan Benzimidazol Sebagai Inhibitor Kolinestrase.
- Arwansyah, Ambarsari, L., & Sumaryada, T. I. (2014). Simulasi Docking Senyawa Kurkumin dan Analognya Sebagai Inhibitor Enzim 12-Lipoksigenase. *Current Biochemistry*, *1*(in silico), 36–39.
- Aziz, F. K., Nukitasari, C., Oktavianingrum, F. A., Aryati, L. W., & Santoso, B. (2016). Hasil in Silico Senyawa Z12501572, Z00321025, SCB5631028 dan SCB13970547 Dibandingkan Turunan Zerumbon Terhadap Human Liver Glycogen Phosphorylase (115Q) Sebagai Antidiabetes. *Jurnal Kimia Valensi*, *2*(2), 120–124. <https://doi.org/10.15408/jkv.v2i2.4170>
- B. Fernandes, T., C. F. Segretti, M., C. Polli, M., & Parise-Filho, R. (2016). Analysis of the Applicability and Use of Lipinski`s Rule for Central Nervous System Drugs. *Letters in Drug Design & Discovery*, *13*(10), 999–1006. <https://doi.org/10.2174/1570180813666160622092839>
- Benigni, R., Bossa, C., Jeliaskova, N., Netzeva, T., & Worth, A. (2008). The Benigni/Bossa rulebase for mutagenicity and carcinogenicity – a module of Toxtree. *Health San Francisco, January*. [http://ihcp.jrc.ec.europa.eu/our\\_labs/computational\\_toxicology/doc/EUR\\_23241\\_EN.pdf](http://ihcp.jrc.ec.europa.eu/our_labs/computational_toxicology/doc/EUR_23241_EN.pdf)
- Bhatia, S., Schultz, T., Roberts, D., Shen, J., Kromidas, L., & Marie Api, A. (2015). Comparison of Cramer classification between Toxtree, the OECD QSAR Toolbox and expert judgment. *Regulatory Toxicology and Pharmacology*, *71*(1), 52–62. <https://doi.org/10.1016/j.yrtph.2014.11.005>

- Buana, D. R. (2020). Analisis Perilaku Masyarakat Indonesia Dalam Menghadapi Pandemi Virus Corona (Covid-19) dan Kiat Menjaga Kesejahteraan Jiwa. *SALAM: Jurnal Sosial Dan Budaya Syar-I*, 7(3). <https://doi.org/10.15408/sjsbs.v7i3.15082>
- Chen, Liang, H., Yuan, X., Hu, Y., Xu, M., Zhao, Y., Zhang, B., Tian, F., & Zhu, X. (2020). Roles of Meteorological Conditions in COVID-19 Transmission on a Worldwide Scale. <https://doi.org/10.1101/2020.03.16.20037168>
- Chen, W., Zhang, N., Wei, J., Yen, H. L., & Li, Y. (2020). Short-range Airborne Route Dominates Exposure of Respiratory Infection During Close Contact. *Building and Environment*, 176, 1–33. <https://doi.org/10.1016/j.buildenv.2020.106859>
- Cheng, M. J., Wu, M. Der, Su, Y. S., Chen, I. S., & Yuan, G. F. (2012). Anti-inflammatory Compounds From *Monascus pilosus*-fermented Rice. *Phytochemistry Letters*, 5(1), 63–67. <https://doi.org/10.1016/j.phytol.2011.09.008>
- Client, D. S., Studio, D., Discovery, T., & Client, S. (2019). Introduction to the Discovery Studio Client. 1–7.
- Cramer, G. M., Ford, R. A., & Hall, R. L. (1976). Estimation of Toxic Hazard-A Decision tree approach. *Food and Cosmetics Toxicology*, 16(3), 255–276. [https://doi.org/10.1016/S0015-6264\(76\)80522-6](https://doi.org/10.1016/S0015-6264(76)80522-6)
- Davies, P. D. O. (2020). Multi-drug Resistant Tuberculosis. *CPD Infection*, 3(1), 9–12.
- Dewi, R. T., Anita, Y., Istyastono, E. P., & Darmawan, A. (2009). the Applicability of the Crystal Structure of Termotoga Maritima 4- A - Glucanotransferase As the Template for Sulochrin As A-Glucosidase. *Indo J Chem*, 9(3), 487–490.
- Dey, R., Nandi, S., & Samadder, A. (2021). Pelargonidin Mediated Selective Activation of p53 and Parp Proteins in Preventing Food Additive Induced Genotoxicity: an in Vivo Coupled in Silico Molecular Docking Study. *European Journal of Pharmaceutical Sciences*, 156(June 2020), 105586. <https://doi.org/10.1016/j.ejps.2020.105586>
- Ferreira, L. G., Dos Santos, R. N., Oliva, G., & Andricopulo, A. D. (2015). Molecular docking and Structure-based Drug Design Strategies. *In Molecules* (Vol. 20, Issue 7). <https://doi.org/10.3390/molecules200713384>
- Fogacci, F., Banach, M., Mikhailidis, D. P., Bruckert, E., Toth, P. P., Watts, G. F., Reiner, Ž., Mancini, J., Rizzo, M., Mitchenko, O., Pella, D., Fras, Z., Sahebkar, A., Vrablik, M., & Cicero, A. F. G. (2019). Safety of Red Yeast Rice Supplementation: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *Pharmacological Research*, 143(March), 1–16. <https://doi.org/10.1016/j.phrs.2019.02.028>
- Hardjono, S. (2013). Sintesis dan Uji Aktivitas Antikanker Senyawa 1-(2-Klorobenzoiloksi)Urea Dan 1-(4-Klorobenzoiloksi)Urea. *Berkala Ilmiah Kimia Farmasi*, 2(1), 16–21.

- Ho, B. K., & Brasseur, R. (2005). The Ramachandran Plots of Glycine and Pre-proline. *BMC Structural Biology*, 5, 1–11. <https://doi.org/10.1186/1472-6807-5-14>
- Kampf, G., Todt, D., Pfaender, S., & Steinmann, E. (2020). Persistence of Coronaviruses on Inanimate Surfaces and Their Inactivation With Biocidal Agents. *Journal of Hospital Infection*, 104(3), 246–251. <https://doi.org/10.1016/j.jhin.2020.01.022>
- Kartasasmita, R. E., Anugrah, R., & Tjahjono, D. H. (2015). Kajian Docking dan Prediksi Beberapa Aspek Farmakokinetika Desain Molekul Turunan Kuinin Sebagai Upaya Menemukan Kandidat Senyawa Antimalaria Yang Baru. *Kartika Jurnal Ilmiah Farmasi*, 3(1), 6–13. <https://doi.org/10.26874/kjif.v3i1.13>
- Kesuma, D., Siswandono, S., Purwanto, B. T., & Hardjono, S. (2018). Uji in silico Aktivitas Sitotoksik dan Toksisitas Senyawa Turunan N-(Benzoil)-N'-feniltiourea Sebagai Calon Obat Antikanker. *JPSCR: Journal of Pharmaceutical Science and Clinical Research*, 3(1), 1. <https://doi.org/10.20961/jpscr.v3i1.16266>
- Kroes, R., Renwick, A. G., Cheeseman, M., Kleiner, J., Mangelsdorf, I., Piersma, A., Schilter, B., Schlatter, J., Van Schothorst, F., Vos, J. G., & Würtzen, G. (2004). Structure-based Thresholds of Toxicological Concern (TTC): Guidance for Application to Substances Present at Low Levels in the Diet. *Food and Chemical Toxicology*, 42(1), 65–83. <https://doi.org/10.1016/j.fct.2003.08.006>
- Lapenna, S., & Worth, A. (2011). EUR 24898 EN – Joint Research Centre – Institute for Health and Consumer Protection: Analysis of the Cramer Classification Scheme for Oral Systemic Toxicity-implications for its Implementation in Toxtree. In *JRC Scientific and Technical Reports*. <https://doi.org/10.2788/39716>
- Maier, J. K. X., & Labute, P. (2014). Assessment of Fully Automated Antibody Homology Modeling Protocols in Molecular Operating Environment. *Proteins: Structure, Function and Bioinformatics*, 82(8), 1599–1610. <https://doi.org/10.1002/prot.24576>
- Manan, M. A. (2017). *Monascus* spp.: A source of Natural Microbial Color through Fungal Biofermentation. *Journal of Microbiology & Experimentation*, 5(3). <https://doi.org/10.15406/jmen.2017.05.00148>
- Manoj, M. G., Satheesh Kumar, M. K., Valsaraj, K. T., Sivan, C., & Vijayan, S. K. (2020). Potential Link Between Compromised Air Quality and Transmission of the Novel Corona Virus (SARS-CoV-2) in Affected Areas. *Environmental Research*, 190(August), 110001. <https://doi.org/10.1016/j.envres.2020.110001>
- Mardiana<sup>1</sup>, M., & Ruswanto<sup>2</sup>. (2018). Simulasi Dinamika Molekular Senyawa Pyridin Pada Protein 2Xnb Sebagai Antikanker Menggunakan Aplikasi Gromas.

- Moe, M. (2019). Molecular Operating environment. 99-117.
- Molecular Viewer, M. (2011). Molegro Molecular Viewer User Manual. 145.
- Nasution, M. A. F., Toepak, E. P., Alkaff, A. H., & Tambunan, U. S. F. (2018). Flexible Docking-based Molecular Dynamics Simulation of Natural Product Compounds and Ebola Virus Nucleocapsid (EBOV NP): A Computational Approach to Discover New Drug for Combating Ebola. *BMC Bioinformatics*, 19(Suppl 14). <https://doi.org/10.1186/s12859-018-2387-8>
- Noviani, N., & Nurilawati, V. (2017). Farmakologi.
- Noviardi, H., & Fachrurrazie, F. (2015). Potensi Senyawa Bullatalisin Sebagai Inhibitor Protein Leukotrien a4 Hidrolase Pada Kanker Kolon Secara in Silico. *FITOFARMAKA: Jurnal Ilmiah Farmasi*, 5(2), 65–73. <https://doi.org/10.33751/jf.v5i2.410>
- Pantsar, T., & Poso, A. (2018). Binding Affinity Via Docking: Fact and fiction. *Molecules*, 23(8), 1DUMMY. <https://doi.org/10.3390/molecules23081899>
- Poulter, N. (2020). Lower Blood Pressure in South Asia Trial Evidence. *New England Journal of Medicine*, 382(8), 758–760. <https://doi.org/10.1056/nejme1917479>
- Prayoga, M. J., & Tjiptaningrum, A. (2016). Pengaruh Pemberian Angkak (Beras Fermentasi *Monascus purpureus*) Dalam Meningkatkan Kadar Trombosit pada Penderita Demam Berdarah Dengue The Effect of Red Yeast Rice (*Monascus purpureus* Fermented Rice) for Improving Platelet Levels in Dengue Hemorrhagi. *Majority*, 5, 6–13.
- Rastini, M. B. O., Giantari, N. K. M., Adnyani, K. D., & Laksmiani, N. P. L. (2019). Molecular Docking Aktivitas Antikanker Dari Kuersetin Terhadap Kanker Payudara Secara in Silico. *Jurnal Kimia*, 180. <https://doi.org/10.24843/jchem.2019.v13.i02.p09>
- RI, K. K. (2020). Pedoman Kesiapsiagaan Menghadapi Infeksi COVID-19. *Kementrian Kesehatan Republik Indonesia*, 75. <https://www.kemkes.go.id/resources/download/info-terkini/Coronavirus/28Jan2020.pdf>
- Rose, P. W., Prlić, A., Altunkaya, A., Bi, C., Bradley, A. R., Christie, C. H., Di Costanzo, L., Duarte, J. M., Dutta, S., Feng, Z., Green, R. K., Goodsell, D. S., Hudson, B., Kalro, T., Lowe, R., Peisach, E., Randle, C., Rose, A. S., Shao, C., ... Burley, S. K. (2017). The RCSB Protein Data Bank: Integrative View of Orotein, Gene and 3D Structural Information. *Nucleic Acids Research*, 45(D1), D271–D281. <https://doi.org/10.1093/nar/gkw1000>
- Ross, S. M. (2017). Red yeast rice: The Efficacy of *Monascus Purpureus* Yeast for Treatment of Hyperlipidemia a Modifiable Risk Factor of Cardiovascular Disease. *Holistic Nursing Practice*, 31(1), 52–58. <https://doi.org/10.1097/HNP.000000000000192>

- Ruswanto. (2015). Molecular Docking Empat Turunan Isonicorinohydrazide Pada Mycobacterium Tuberculosis Enoyl-acyl Protein Reductase (InhA). *Jurnal Kesehatan Bakti Tunas Husada: Jurnal Ilmu-Ilmu Keperawatan, Analisis Kesehatan Dan Farmasi*, 13(1), 135–141. <https://doi.org/10.36465/jkbth.v13i1.25>
- Ruswanto, Rus. (2015). Desain dan Studi Interaksi Senyawa N'-(3,5-dinitrobenzoyl)- Isonicorinohydrazide Pada Mycobacterium Tuberculosis Enoyl-acyl Protein Reductase. *Jurnal Kesehatan Bakti Tunas Husada: Jurnal Ilmu-Ilmu Keperawatan, Analisis Kesehatan Dan Farmasi*, 14(1), 1–7.
- Ruswanto, Ruswanto, Mardhiah, M., Mardianingrum, R., & Novitriani, K. (2015). Sintesis dan Studi in Silico Senyawa 3-Nitro-N'-(Pyridin-4-Yl) Carbonyl]Benzohydrazide Sebagai Kandidat Antituberkulosis. *Chimica et Natura Acta*, 3(2). <https://doi.org/10.24198/cna.v3.n2.9183>
- Santoso, B. (2015). Docking Analog Kurkumin Turunan Piperazindion Dengan Tubulin (1Tub) Rantai  $\alpha$  Menggunakan Vina Dan Autodock1. *Pharmacon*, 12(1), 14–18. <https://doi.org/10.23917/pharmacon.v12i1.43>
- Saputra, D. P. D. (2018). Molecular Docking Sianidin dan Peonidin Sebagai Antiinflamasi Pada Aterosklerosis Secara in Silico. *Jurnal Farmasi Udayana*, 7(1), 28. <https://doi.org/10.24843/jfu.2018.v07.i01.p04>
- Saputri, K. E., Fakhmi, N., Kusumaningtyas, E., Priyatama, D., & Santoso, B. (2016). Docking Molekular Potensi Anti Diabetes Melitus Tipe 2 Turunan Zerumbon Sebagai Inhibitor Aldosa Reduktase Dengan Autodock-Vina. *Chimica et Natura Acta*, 4(1), 16. <https://doi.org/10.24198/cna.v4.n1.10443>
- Setiadi, A. P., Wibowo, Y. I., Halim, S. V., Brata, C., Presley, B., & Setiawan, E. (2020). Tata Laksana Terapi Pasien Dengan COVID-19: Sebuah Kajian Naratif. *Indonesian Journal of Clinical Pharmacy*, 9(1), 70. <https://doi.org/10.15416/ijcp.2020.9.1.70>
- Setiawan, F. fraulein, & Istyastono, enade perdana. (2015). Uji in Silico Senyawa 2,6-Dihidroksiantraquinon Sebagai Ligan Pada Reseptor Estrogen Alfa. *Felicia Fraulein Setiawan, Enade Perdana Istyastono Fakultas Farmasi, Universitas Sanata Dharma, Yogyakarta*. 12(2), 76–79.
- Seyedin, A., Yazdian, F., Hatamian-Zarmi, A., Rasekh, B., & Mir-derikvand, M. (2015). Natural Pigment Production by *Monascus Purpureus*: Bioreactor Yield Improvement Through Statistical Analysis. *Applied Food Biotechnology*, 2(2), 23–29. <https://doi.org/10.22037/afb.v2i2.7457>
- Shattuck, T. W. (2009). Colby College Molecular Mechanics Exercises Tutorial. *Structure*, September.
- 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. <https://doi.org/10.22435/sel.v6i2.1651>

- Sulastris, S., Riza, H., & Fajriaty, I. (2019). Studi In Silico Senyawa Turunan Flavonoid terhadap Enzim HMG-CoA Reduktase. *Jurnal Mahasiswa Farmasi Fakultas Kedokteran UNTAN*, 4(1).
- Susilo, A., Rumende, C. M., Pitoyo, C. W., Santoso, W. D., Yulianti, M., Herikurniawan, H., Sinto, R., Singh, G., Nainggolan, L., Nelwan, E. J., Chen, L. K., Widhani, A., Wijaya, E., Wicaksana, B., Maksum, M., Annisa, F., Jasirwan, C. O. M., & Yuniastuti, E. (2020). Coronavirus Disease 2019: Tinjauan Literatur Terkini. *Jurnal Penyakit Dalam Indonesia*, 7(1), 45. <https://doi.org/10.7454/jpdi.v7i1.415>
- Wang, L., Luo, Y., Wu, Y., & Wu, Z. (2018). Impact of Fermentation Degree on Phenolic Compositions and Bioactivities During the Fermentation of Guava Leaves with *Monascus Anka* and *Bacillus* sp. *Journal of Functional Foods*, 41(September 2017), 183–190. <https://doi.org/10.1016/j.jff.2017.12.044>
- WHO. (2020). *WHO Coronavirus Disease (COVID-19) Dashboard*. <https://www.worldometers.info/coronavirus/>
- Widiasih, Herawati, Safitri, H., & Arkundato, A. (2013). Penerapan Metode Dinamika Molekul Untuk Pembelajaran: Konsep Titik Leleh dan Perubahan Wujud. *Jurnal Teori Dan Aplikasi Fisika*, 1(2), 171–175.
- 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. <https://doi.org/10.12928/pharmaciana.v8i2.9508>
- Yuliana, A., Hilman Fitriaji S P, Khofi Siti Mukhaufillah, & Lina Rahmawati Rizkuloh. (2020). In Silico Study on Testing Antidiabetic Compounds Candidate from Azaphilone Mold *Monascus* sp. *Microbiology Indonesia*, 14(2), 2. <https://doi.org/10.5454/mi.14.2.2>
- Yuliana, A., Singgih, M., Julianti, E., & Blanc, P. J. (2017). Derivates of azaphilone *Monascus* pigments. *Biocatalysis and Agricultural Biotechnology*, 9, 183–194. <https://doi.org/10.1016/j.bcab.2016.12.014>
- Zuchirian Rezza, M. (2010). Universitas indonesia penambatan molekuler beberapa senyawa xanton dari tanaman.