

## DAFTAR PUSTAKA

- Adebola, A. O., Ayodeji, A. O., & Adetayo, L. I. (2020). *Anti-depressant Activities of Theobroma cacao Extract on Reserpine-induced Depression in Female Wistar Rats.* 9(1), 27–35.
- Afendi, F. M., Okada, T., Yamazaki, M., Hirai-Morita, A., Nakamura, Y., Nakamura, K., Ikeda, S., Takahashi, H., Altaf-Ul-Amin, M., Darusman, L. K., Saito, K., & Kanaya, S. (2012). KNAPSAcK family databases: Integrated metabolite-plant species databases for multifaceted plant research. *Plant and Cell Physiology*, 53(2), 1–12. <https://doi.org/10.1093/pcp/pcr165>
- Agistia, D. D., Purnomo, H., Tegar, M., & Endro Nugroho, A. (2015). INTERACTION BETWEEN ACTIVE COMPOUNDS FROM Aegle marmelos CORREA AS ANTI INFLAMMATION AGENT WITH COX-1 AND COX-2 RECEPTOR. *Majalah Obat Tradisional*, 18(2), 80–87. <https://doi.org/10.22146/tradmedj.7983>
- Alt, A., Nisenbaum, E. S., Bleakman, D., & Witkin, J. M. (2006). A role for AMPA receptors in mood disorders. *Biochemical Pharmacology*, 71(9), 1273–1288. <https://doi.org/10.1016/j.bcp.2005.12.022>
- Biovia. (2020). *BIOVIA DISCOVERY STUDIO® 4.5 COMPREHENSIVE MODELING AND SIMULATIONS FOR LIFE SCIENCES* (pp. 1–3).
- Burley, S. K., Bhikadiya, C., Bi, C., Bittrich, S., Chen, L., Crichlow, G. V., Christie, C. H., Dalenberg, K., Di Costanzo, L., Duarte, J. M., Dutta, S., Feng, Z., Ganesan, S., Goodsell, D. S., Ghosh, S., Green, R. K., Gurjanovic, V., Guzenko, D., Hudson, B. P., ... Zhuravleva, M. (2021). RCSB Protein Data Bank: Powerful new tools for exploring 3D structures of biological macromolecules for basic and applied research and education in fundamental biology, biomedicine, biotechnology, bioengineering and energy sciences. *Nucleic Acids Research*, 49(1), D437–D451. <https://doi.org/10.1093/nar/gkaa1038>
- Daina, A., Michelin, O., & Zoete, V. (2017). SwissADME: A free web tool to evaluate pharmacokinetics, drug-likeness and medicinal chemistry friendliness of small molecules. *Scientific Reports*, 7(March), 1–13. <https://doi.org/10.1038/srep42717>
- Dasgupta, S., Mukherjee, S., Sekar, K., & Mukhopadhyay, B. P. (2021). The conformational dynamics of wing gates Ile199 and Phe103 on the binding of dopamine and benzylamine substrates in human monoamine Oxidase B. *Journal of Biomolecular Structure and Dynamics*, 39(5), 1879–1886. <https://doi.org/10.1080/07391102.2020.1734483>
- Dirar, A. I., Waddad, A. Y., Mohamed, M. A., Mohamed, M. S., & Osman, W. J. (2016). *IN SILICO PHARMACOKINETICS AND MOLECULAR DOCKING OF THREE LEADS ISOLATED FROM TARCONANTHUS*

- CAMPHORATUS L.* 8(5).
- Dong, J., Wang, N. N., Yao, Z. J., Zhang, L., Cheng, Y., Ouyang, D., Lu, A. P., & Cao, D. S. (2018). Admetlab: A platform for systematic ADMET evaluation based on a comprehensively collected ADMET database. *Journal of Cheminformatics*, 10(1), 1–12. <https://doi.org/10.1186/s13321-018-0283-x>
- Eiden, L. E., & Weihe, E. (2011). VMAT2: A dynamic regulator of brain monoaminergic neuronal function interacting with drugs of abuse. *Annals of the New York Academy of Sciences*, 1216(1), 86–98. <https://doi.org/10.1111/j.1749-6632.2010.05906.x>
- Evenseth, L. M., Warszycki, D., Bojarski, A. J., Gabrielsen, M., & Sylte, I. (2019). In silico methods for the discovery of orthosteric GABAB receptor compounds. *Molecules*, 24(5). <https://doi.org/10.3390/molecules24050935>
- 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. [https://doi.org/10.1016/S1359-6446\(05\)03692-5](https://doi.org/10.1016/S1359-6446(05)03692-5)
- Hecht, A., & Triggle, D. J. (2011). *Understanding Drugs: Antidepressants and Antianxiety Drugs*.
- Jin, Y., Kim, S. J., Kim, J., Worley, P. F., & Linden, D. J. (2007). Long-Term Depression of mGluR1 Signaling. *Neuron*, 55(2), 277–287. <https://doi.org/10.1016/j.neuron.2007.06.035>
- Kim, S., Chen, J., Cheng, T., Gindulyte, A., He, J., He, S., Li, Q., Shoemaker, B. A., Thiessen, P. A., Yu, B., Zaslavsky, L., Zhang, J., & Bolton, E. E. (2021). PubChem in 2021: New data content and improved web interfaces. *Nucleic Acids Research*, 49(D1), D1388–D1395. <https://doi.org/10.1093/nar/gkaa971>
- Kouranov, A., Xie, L., de la Cruz, J., Chen, L., Westbrook, J., Bourne, P. E., & Berman, H. M. (2006). The RCSB PDB information portal for structural genomics. *Nucleic Acids Research*, 34(Database issue), 302–305. <https://doi.org/10.1093/nar/gkj120>
- Kukol, A. (2008). Methods in Molecular Biology, vol. 443, Molecular Modeling of Proteins: Preface. In *Methods in Molecular Biology* (Vol. 443).
- Latif, M. S., Rusdiana, T., & Gozali, D. (2018). Pengaruh P-Glycoprotein (P-GP) Terhadap Bioavailabilitas Atorvastatin. *Farmaka*, 15(3), 1–6.
- Lipinski, C. A., Lombardo, F., Dominy, B. W., & Feeney, P. J. (1997). Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings. *Advanced Drug Delivery Reviews*, 23(Advanced drug delivery), 3–25. <https://doi.org/10.1016/j.addr.2012.09.019>
- Listyani, T. A., Herowati, R., & Djaliasrin Djalil, A. (2019). Analisis Docking

- Molekuler Senyawa Derivat Phthalimide sebagai Inhibitor Non-Nukleosida HIV-1 Reverse Transcriptase. *Jurnal Farmasi Indonesia*, 15(2), 123–134. <https://doi.org/10.31001/jfi.v15i2.445>
- Liu, R., Su, C., Xu, Y., Shang, K., Sun, K., Li, C., & Lu, J. (2020). Identifying potential active components of walnut leaf that action diabetes mellitus through integration of UHPLC-Q-Orbitrap HRMS and network pharmacology analysis. *Journal of Ethnopharmacology*, 253(January), 112659. <https://doi.org/10.1016/j.jep.2020.112659>
- Llerena, A., Berecz, R., Dorado, P., Pen, E. M., & Rubia, A. De. (2003). *CYP2C9 gene and susceptibility to major depressive disorder*. 300–302. <https://doi.org/10.1038/sj.tpj.6500197>
- Macalino, S. J. Y., Gosu, V., Hong, S., & Choi, S. (2015). Role of computer-aided drug design in modern drug discovery. *Archives of Pharmacal Research*, 38(9), 1686–1701. <https://doi.org/10.1007/s12272-015-0640-5>
- Marsden, W. N. (2013). Synaptic plasticity in depression: Molecular, cellular and functional correlates. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 43, 168–184. <https://doi.org/10.1016/j.pnpbp.2012.12.012>
- Mehta, P., Srivastava, S., Sharma, M., & Malik, R. (2019). Discovery of novel chemotypes for competitive AMPA receptor antagonists as potential antiepileptic agents through structure-based virtual screening of natural products library. *Structural Chemistry*, 30(4), 1159–1172. <https://doi.org/10.1007/s11224-018-1269-z>
- Moriguchi, S., Wilson, A. A., Miler, L., Rusjan, P. M., Vasdev, N., Kish, S. J., Rajkowska, G., Wang, J., Bagby, M., Mizrahi, R., Varughese, B., Houle, S., & Meyer, J. H. (2019). Monoamine oxidase b total distribution volume in the prefrontal cortex of major depressive disorder: An 11csl25.1188 positron emission tomography study. *JAMA Psychiatry*, 76(6), 634–641. <https://doi.org/10.1001/jamapsychiatry.2019.0044>
- Naoi, M., Maruyama, W., & Shamoto-Nagai, M. (2018). Type A monoamine oxidase and serotonin are coordinately involved in depressive disorders: from neurotransmitter imbalance to impaired neurogenesis. *Journal of Neural Transmission*, 125(1), 53–66. <https://doi.org/10.1007/s00702-017-1709-8>
- Paredes, R. G., & Ågmo, A. (1992). GABA and behavior: The role of receptor subtypes. *Neuroscience and Biobehavioral Reviews*, 16(2), 145–170. [https://doi.org/10.1016/S0149-7634\(05\)80177-0](https://doi.org/10.1016/S0149-7634(05)80177-0)
- Pittenger, C., Sanacora, G., & Krystal, J. (2008). The NMDA Receptor as a Therapeutic Target in Major Depressive Disorder. *CNS & Neurological Disorders - Drug Targets*, 6(2), 101–115. <https://doi.org/10.2174/187152707780363267>

- Posner, J., Peterson, B. S., & Russell, J. A. (2011). Signaling Pathways Underlying the Pathophysiology and Treatment of Depression: Novel Mechanisms for Rapid-Acting Agents. *Bone*, 23(1), 1–7. [https://doi.org/10.1016/j.tins.2011.11.004.Signaling](https://doi.org/10.1016/j.tins.2011.11.004)
- Prabhu, J., Bupesh, G., Prabhu, K., Kalaiselvi, V. S., Meenakumari, K., Krishnarao, M. R., Sathyarajeswaran, P., & Manikandan, E. (2016). Molecular properties and insilico neuroprotective activity of eugenol against glutamate metabotropic receptors. *International Journal of Pharmaceutical Sciences Review and Research*, 40(1), 318–323.
- Pratama, M. R. F., Poerwono, H., & Siswodihardjo, S. (2020). Molecular docking of novel 5-O-benzoylpino strobin derivatives as SARS-CoV-2 main protease inhibitors. *Pharmaceutical Sciences*, 26(Suppl 1), S63–S77. <https://doi.org/10.34172/PS.2020.57>
- Purnomo, H. (2013). *KIMIA KOMPUTASI UNTUK FARMASI DAN ILMU TERKAIT: Uji in silico Senyawa Antikanker*.
- Rahayu, Y. Y. S., Araki, T., & Rosleine, D. (2020). Factors affecting the use of herbal medicines in the universal health coverage system in Indonesia. *Journal of Ethnopharmacology*, 260, 112974. <https://doi.org/10.1016/j.jep.2020.112974>
- Ruswanto, Wulandari, W. T., Rahayu, S. S., Mardaniningrum, R., & Hidayati, N. D. (2019). Studi In Silico dan Bioaktivitas Turunan N'-Benzoylisonicotinohydrazide (4-methyl, 4-chloro dan 3,5-dinitro) pada Mycobacterium Tuberculosis (H37RV) Bakteri Gram Positif Serta bakteri Gram Negatif. *Pharmacoscript*, 2(1), 37–48.
- Sanacora, G., & Saricicek, A. (2008). GABAergic Contributions to the Pathophysiology of Depression and the Mechanism of Antidepressant Action. *CNS & Neurological Disorders - Drug Targets*, 6(2), 127–140. <https://doi.org/10.2174/187152707780363294>
- Sari, I. W., Junaidin, & Pratiwi, D. (2020). *STUDI MOLECULAR DOCKING SENYAWA FLAVONOID HERBA KUMIS KUCING (Orthosiphon stamineus B.) PADA RESEPTOR α-GLUKOSIDASE SEBAGAI ANTIDIABETES TIPE 2. VII(2)*, 54–60.
- Skupa, O. O., Voloshchuk, N. I., Khairulin, A. R., Georgiyants, V. A., & Severina, H. I. (2020). Design, synthesis, in vivo and in silico anticonvulsant activity studies of derivatives of 6-amino-4-hydroxy-2-thio-pyrimidine. *Acta Pharmaceutica Sciencia*, 58(3), 371–393. <https://doi.org/10.23893/1307-2080.APS.05821>
- Teachman, B. A., Joormann, J., Steinman, S., & Gotlib, I. H. (2012). Automaticity in Anxiety Disorders and Major Depressive Disorder. In *Bone* (Vol. 32, Issue 6). [https://doi.org/10.1016/j.cpr.2012.06.004.Automaticity](https://doi.org/10.1016/j.cpr.2012.06.004)

- Ulfa, A. S. Y., & Mahadewa, T. G. B. (2016). *Sawar Darah Otak*. 1–21.
- Wang, J., Zhao, D., Tiano, S., Esteban-Fernández, A., Yuan, B., Smith, C., Brathwaite, J., Jlayer, Z., Wu, Q., Simon, J. E., Trageser, K. J., & Pasinetti, G. M. (2020). Prophylactic effect of flavanol rich preparation metabolites in promoting resilience to a mouse model of social stress. *Translational Psychiatry*, 10(1). <https://doi.org/10.1038/s41398-020-0859-x>
- Wardhan, R., & Mudgal, P. (2017). *Textbook of Membrane Biology*.
- WHO. (2020a). *COVID-19 disrupting mental health services in most countries, WHO survey*. <https://www.who.int/news-room/detail/05-10-2020-covid-19-disrupting-mental-health-services-in-most-countries-who-survey>
- WHO. (2020b). *Depression*. WHO.Int. <https://www.who.int/news-room/fact-sheets/detail/depression>
- Widowati, L., Dwi Sampurno, O., Siswoyo, H., Sasanti, R., Nurhayati, & Delima. (2020). The Utilization of Traditional Medicines in Health Service Facilities in the Era of National Health Assurance: A Policy Study. *Buletin Penelitian Sistem Kesehatan*, 23(4), 246–255. <https://doi.org/10.22435/hsr.v23i4.3379>
- Xiong, G., Wu, Z., Yi, J., Fu, L., Yang, Z., Hsieh, C., Yin, M., Zeng, X., Wu, C., Lu, A., Chen, X., Hou, T., & Cao, D. (2021). ADMETlab 2.0: An integrated online platform for accurate and comprehensive predictions of ADMET properties. *Nucleic Acids Research*, 49(W1), W5–W14. <https://doi.org/10.1093/nar/gkab255>
- Zhang, J. D., & Wiemann, S. (2009). KEGGgraph: A graph approach to KEGG PATHWAY in R and bioconductor. *Bioinformatics*, 25(11), 1470–1471. <https://doi.org/10.1093/bioinformatics/btp167>
- Zhang, X., Qiao, L., Chen, Y., Zhao, B., Gu, Y., Huo, X., Zhang, Y., & Li, G. (2018). In silico analysis of the association relationship between neuroprotection and flavors of traditional chinese medicine based on the mglurs. *International Journal of Molecular Sciences*, 19(1). <https://doi.org/10.3390/ijms19010163>
- Zhivkova, Z., & Doytchinova, I. (2012). Quantitative Structure—Plasma Protein Binding Relationships of Acidic Drugs. *Journal of Pharmaceutical Sciences*, 101(12), 4627–4641. <https://doi.org/10.1002/jps>