

DAFTAR PUSTAKA

- Agu, P.C., Afiukwa, C.A., Orji, O.U., Ezech, E.M., Ofoke, I.H., Ogbu, C.O., Ugwuja, E.I. and Aja, P.M., 2023. Molecular docking as a tool for the discovery of molecular targets of nutraceuticals in diseases management. *Scientific Reports*, 13(1), p.13398.
- Amyrgialaki, E., Makris, D.P., Mauromoustakos, A. and Kefalas, P. 2014. Optimisation of the extraction of pomegranate (*Punica granatum*) husk phenolics using water/ethanol solvent systems and response surface methodology. *Industrial Crops and Products*, 59 (2014), pp.216-222.
- Andersen, J., Kristensen, A.S., Bang-Andersen, B. and Strømgaard, K., 2009. Recent advances in the understanding of the interaction of antidepressant drugs with serotonin and norepinephrine transporters. *Chemical communications*, (25), pp.3677-3692.
- Baldwin, D. S., & Palazzo, M. C. 2015. Paroxetine: a review of its pharmacology, clinical efficacy and tolerability in the treatment of anxiety disorders. *Expert Opinion on Drug Metabolism & Toxicology*, 11(10), pp. 1581-1592.
- Benet, L.Z., Hosey, C.M., Ursu, O. and Oprea, T.I., 2016. BDDCS, the Rule of 5 and drugability. *Advanced drug delivery reviews*, 101, pp.89-98.
- Bissantz, C., Kuhn, B. and Stahl, M. 2010. A medicinal chemist's guide to molecular interactions. *Journal of medicinal chemistry*, 53(14), pp.5061-5084.
- Drisya, M.K. and Shrikumar, S. 2022. GC-MS analysis of ethylacetate extract of leaves of *Clitoria ternatea* Linn. *Asian Journal of Pharmaceutical Analysis*, 12(1), pp.49-52.
- Freire, E. 2000. Thermodynamic integration: Interpreting the binding of multiple ligands to biological molecules. *Chemical Reviews*.
- Gabrielsen, M., Kurczab, R., Siwek, A., Wolak, M., Ravna, A.W., Kristiansen, K., Kufareva, I., Abagyan, R., Nowak, G., Chilmonczyk, Z. and Sylte, I., 2014. Identification of novel serotonin transporter compounds by virtual screening. *Journal of chemical information and modeling*, 54(3), pp.933-943.
- García-Muñoz, R. A., & Gómez-Alonso, S. 2020. Analysis of Phenolic Compounds in Red Wine Using High-Performance Liquid Chromatography Coupled to Mass Spectrometry. *Journal of Agricultural and Food Chemistry*, 68(15), 4405-4415.
- Giorgetti, A. M., Souza-Chies, C. G. A., & de Queiroz, L. P. 2005. Molecular Phylogeny of the Genus *Clitoria* (Leguminosae): Evidence from trnL Intron and trnL-F Intergenic Spacer Sequence Data. *Systematic Botany*, 30(4), 829-844.
- Gujar, A., Anderson, T., Cavagnino, D. & Patel, A. 2018. Comparative analysis of mass spectral matching for confident compound identification using the Advanced Electron Ionization source for GC-MS. *Thermo Scientific*, pp. 1-4.
- He, P. and Aga, D.S., 2019. Comparison of GC-MS/MS and LC-MS/MS for the

- analysis of hormones and pesticides in surface waters: advantages and pitfalls. *Analytical methods*, 11(11), pp.1436-1448.
- Honig, B., & Nicholls, A. 1995. Classical electrostatics in biology and chemistry. *Science*.
- Indriawan, R. B. 2021. *Karakteristik Fisik Pengeringan Bunga Telang (Clitoria ternatea L.) dengan Metode Pengeringan Dehumidifier* (Undergraduate Thesis, Universitas Brawijaya).
- Israelachvili, J.N., 2011. *Intermolecular and surface forces*. Academic press.
- Jeyakodi, J., & Mary, P. M. 2016. Antidepressant-like activity of aqueous and ethanol extracts of *Clitoria ternatea* Linn in mice. *Journal of Ayurveda and Integrative Medicine*, 7(1), 22-28.
- Jiji, K.N. and Muralidharan, P. 2021. Identification and characterization of phytoconstituents of ethanolic root extract of *Clitoria ternatea* L. utilizing HR-LCMS analysis. *Plant Science Today*, 8(3), pp.535-540.
- Kavitha, R. 2017. Fluorescence, FT-IR and GC-MS determination of bioactive constituents of leaf extract of *Clitoria ternatea*. *Int J Pharm Bio Sci*, 8(2), pp.299-307.
- Kementerian Kesehatan RI. 2018. *Laporan Nasional RISKESDAS 2018*. Jakarta.
- Kristensen, A.S., Andersen, J., Jørgensen, T.N., Sørensen, L., Eriksen, J., Loland, C.J., Strømgaard, K. and Gether, U., 2011. SLC6 neurotransmitter transporters: structure, function, and regulation. *Pharmacological reviews*, 63(3), pp.585-640.
- Koshland, D. 1995. The Key–Lock Theory and the Induced Fit Theory. *Angewandte Chemie*, 33, pp. 2375-2378.
- Kyzar, E. J., Nichols, C. D., Gainetdinov, R. R., Nichols, D. E., & Kalueff, A. V. 2017. Psychopharmacology of serotonin receptor ligands: recent developments and therapeutic directions. *International Journal of Neuropsychopharmacology*, 20(7), pp. 705-714.
- Lee, D.K., Yoon, M.H., Kang, Y.P., Yu, J., Park, J.H., Lee, J. and Kwon, S.W. 2013. Comparison of primary and secondary metabolites for suitability to discriminate the origins of *Schisandra chinensis* by GC/MS and LC/MS. *Food chemistry*, 141(4), pp.3931-3937.
- Lee, R. X. Hassan, Z., Subramaniam, S., and Chew, B. L. 2021. Adventitious root cultures of *Clitoria ternatea* L. and its potential as a memory enhancer alternative. *Plant Biotechnology Reports*, 15(2), pp.163–176.
- Lijon, M.B., Meghla, N.S., Jahedi, E., Rahman, M.A. and Hossain, I., 2017. Phytochemistry and pharmacological activities of *Clitoria ternatea*. *International Journal of Natural and Social Sciences*, 4(1), pp.1-10.
- Lipinski, C.A., Lombardo, F., Dominy, B.W. and Feeney, P.J., 2001. Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings. *Advanced drug delivery reviews*, 46(1-3), pp.3-26.
- Lohvina, H., Sándor, M. and Wink, M. 2022. Effect of ethanol solvents on total phenolic content and antioxidant properties of seed extracts of fenugreek (*Trigonella foenum-graecum* L.) varieties and determination of phenolic composition by HPLC-ESI-MS. *Diversity*, 14(7), pp.1-21.
- Margret, A. A., Begum, T. N., Parthasarathy, S., and Suvaithenamudhan, S. 2015. A strategy to employ *Clitoria ternatea* as a prospective brain drug confronting

- monoamine oxidase (MAO) against neurodegenerative diseases and depression. *Natural Products and Bioprospecting*, 5(6), pp.293–306.
- Meyers, R. A. (Ed.). (2005). *Handbook of Petrochemicals Production Processes*. McGraw-Hill Professional.
- Muhammed, M.T. and Aki-Yalcin, E., 2024. Molecular docking: principles, advances, and its applications in drug discovery. *Letters in Drug Design & Discovery*, 21(3), pp.480-495.
- Nafi, P. A., Heratri, A. & Pratiwi, R. 2024. Tantangan pertanian tropis: mengungkap potensi ekstrak metanolik daun telang (*Clitoria ternatea* L.) sebagai nanobiopestisida melawan bakteri *Xanthomonas oryzae* pv. *Oryzae*. *Berkala Ilmiah Biologi*, pp. 1-14.
- National Center for Biotechnology Information. 2022. *PubChem Compound Summary for CID 702, Ethanol*. <https://pubchem.ncbi.nlm.nih.gov/compound/Ethanol>. Accessed on November 15, 2022.
- National Institute of Mental Health. *Depression*. 2018.
NIMH » Depression (nih.gov). Accessed on February 27th, 2022.
- Ngadni, M. A. Akhtar, M. T., Ismail, I. S., Norazhar, A. I., Lee, S. Y., Maulidiani, M., and Shaari, K. 2021. Clitorienolactones and isoflavonoids of *Clitoria ternatea* roots alleviate stress-like symptoms in a reserpine-induced zebrafish model. *Molecules*, 26(14), pp.1-17.
- Oguis, G. K. Gilding, E. K., Jackson, M. A., and Craik, D. J. 2019. Butterfly pea (*Clitoria ternatea*), a cyclotide-bearing plant with applications in agriculture and medicine. *Frontiers in Plant Science*, 10(645), pp.1–23.
- Olasupo, S. B. Uzairu, A., Shallangwa, G. A., and Uba, S. 2020. Profiling the antidepressant properties of phenyl piperidine derivatives as inhibitors of serotonin transporter (SERT) via cheminformatics modeling, molecular docking and ADMET predictions. *Scientific African*, 9 (2020), pp.1-12.
- Parasuraman, S., 2011. Prediction of activity spectra for substances. *Journal of pharmacology & pharmacotherapeutics*, 2(1), p.52.
- Parvathi, M. and Ravishankar, K. 2013. Evaluation of antidepressant, motor coordination and locomotor activities of ethanolic root extract of *Clitoria ternatea*. *Journal of Natural Remedies*, 13(1), pp.19–24.
- Plenge, P., Yang, D., Salomon, K., Laursen, L., Kalenderoglou, I. E., Newman, A. H., Gouaux, E., Coleman, J. A., and Loland, C.J. 2021. The antidepressant drug vilazodone is an allosteric inhibitor of the serotonin transporter. *Nature Communications*, 12(1), pp1-12.
- Prance, G. T. (1969). Taxonomic study of *Clitoria* L. (Leguminosae) in Malesia. *Blumea - Biodiversity, Evolution and Biogeography of Plants*, 17, 191-208.
- Purba, E. C. 2020. Kembang telang (*Clitoria ternatea* L.): Pemanfaatan dan bioaktivitas. *EduMatSains*, 4(2), pp.111–124.
- Putra, A. F. 2021. *Analisis Drug Related Problem (DRPs) dari Penggunaan Antidepresan* (Undergraduate Thesis, Universitas Islam Negeri Alauddin Makassar).
- Sharp, K. A., & Honig, B. 1990. Calculating total electrostatic energies with the nonlinear Poisson-Boltzmann equation. *Journal of Physical Chemistry*, 94 (19), pp. 7684-7692.
- Singh, S.K., Piscitelli, C.L., Yamashita, A. and Gouaux, E., 2008. A competitive

- inhibitor traps LeuT in an open-to-out conformation. *Science*, 322(5908), pp.1655-1661.
- Speight, J. G. 2014. *The Chemistry and Technology of Petroleum*. CRC Press.
- Sruthi, D.R. and Indira, G., 2016. A comparative evaluation of maceration, soxhlation and ultra sound assisted extraction for the phytochemical screening of the leaves of *Nephelium lappaceum*. L.(Sapindaceae). *Journal of pharmacognosy and phytochemistry*, 5(5), pp.386-389.
- Tan, Z.Q., Leow, H.Y., Lee, D.C.W., Karisnan, K., Song, A.A.L., Mai, C.W., Yap, W.S., Lim, S.H.E. and Lai, K.S. 2019. Co-culture Systems for the production of secondary metabolites: Current and future prospects. *The Open Biotechnology Journal*, 13(1), pp18-26.
- Torres, P.H., Sodero, A.C., Jofily, P. and Silva-Jr, F.P., 2019. Key topics in molecular docking for drug design. *International journal of molecular sciences*, 20(18), p.4574.
- Tuan Putra, T.N.M., Zainol, M.K., MohdIsa, N.S. and MohdMaidin, N. 2021. Chemical characterization of ethanolic extract of Butterfly pea flower (*Clitoria ternatea*). *Food Research*, 5(4), pp.127-134.
- Wang, H., Goehring, A., Wang, K.H., Penmatsa, A., Ressler, R. and Gouaux, E., 2013. Structural basis for action by diverse antidepressants on biogenic amine transporters. *Nature*, 503(7474), pp.141-145.
- Warshel, A., & Russell, S. T. 1984. Calculations of electrostatic interactions in biological systems and in solutions. *Quarterly Reviews of Biophysics*, 17(3), pp. 283-422.
- World Health Organization. (Updated 2021). Depression. Depression (who.int) Accessed on February 27th, 2022.
- Zheng, M. Fan, Y., Shi, D. and Liu, C. 2013. Antidepressant-like effect of flavonoids extracted from *Apocynum venetum* leaves on brain monoamine levels and dopaminergic system. *Journal of Ethnopharmacology*. Elsevier, 147(1), pp.108–113.
- Zhou, H.-X., & Pang, X. 2018. Electrostatic interactions in protein structure, folding, binding, and condensation. *Chemical Reviews*, 118(4), pp. 1691–1741.