

DAFTAR PUSTAKA

- Abdillah, M. Y., Amalia, Y., & Novita, D. (2023). Studi In Silico: Potensi Senyawa Aktif Daun Serai (*Cymbopogon citratus*) Sebagai Obat Herbal Antiinflamasi Dengan Mekanisme Aktivasi COX-1 Dan Penghambatan COX-2. *Jurnal Kedokteran Komunitas (Journal of Community Medicine)*, *11*(1), 1–10.
- Abdulkhaleq, L. A., Assi, M. A., Abdullah, R., Zamri-Saad, M., Taufiq-Yap, Y. H., & Hezmee, M. N. M. (2018). The crucial roles of inflammatory mediators in inflammation: A review. *Veterinary World*, *11*(5), 627–635. <https://doi.org/10.14202/vetworld.2018.627-635>
- Ahyar, H. (2020). *Metode Penelitian Kualitatif & Kuantitatif* (H. Abadi (ed.); Issue March). CV. Pustaka Ilmu Group.
- Al-Khayri, J. M., Sahana, G. R., Nagella, P., Joseph, B. V., Alessa, F. M., & Al-Mssallem, M. Q. (2022). Flavonoids as Potential Anti-Inflammatory Molecules: A Review. *Molecules*, *27*(9). <https://doi.org/10.3390/molecules27092901>
- Alika, K. B. (2022). *Skrining Potensi Senyawa Bioaktif Ikan Sidat (Anguilla bicolor bicolor) Sebagai Imunomodulator Menggunakan Pendekatan In Silico*. Universitas Pendidikan Indonesia.
- Annisa, Y., Lestari, S. R., Rohman, F., Utomo, D. H., Purwanto, Arifah, S. N., & Mohamad, J. Bin. (2020). In silico study of physalis angulata active compound from bromo tengger semeru nasional park as anti-inflammation. *AIP Conference Proceedings*, *2231*(April). <https://doi.org/10.1063/5.0002529>
- Apriali, K. D., Triana, E., Farhani, M. I., Khoirunnisa, A., & Nur'aini, Y. A. (2022). Studi Penambatan Molekul Dan Prediksi Admet Senyawa Metabolit Sekunder Tanaman Kelor (*Moringa oleifera* L.) Sebagai Inhibitor Bace1 Pada Penyakit Alzheimer. *FITOFARMAKA: Jurnal Ilmiah Farmasi*, *12*(1), 58–67. <https://doi.org/10.33751/jf.v12i1.4351>
- Apriyeni, O., & Gusti, U. A. (2021). Urgensi Pengembangan Booklet tentang Materi Bakteri untuk Siswa Kelas X SMA. *Journal Of Biology Education*, *4*(1), 23. <https://doi.org/10.21043/job.v4i1.10164>
- 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. <https://doi.org/10.29244/cb.1.1.11-19>
- Astika, R. Y., Fathnur, S. K., & Elisma. (2022). Uji Aktivitas Antiinflamasi Daun Kayu Manis (*Cinnamomum burmanni*) pada Mencit Putih Jantan. *Jurnal Ilmiah Manuntung*, 8(1), 14–23.
- Badi'ah, B. A., Sobir, Syukur, M., & Wahyu E.K, Y. (2022). *Respon Morfo-fisiologi dan Analisis Profil Metabolit Cabai Rawit (Capsicum frutescens L.) terhadap Cekaman Salinitas*. IPB University.
- Bai, R., Yao, C., Zhong, Z., Ge, J., Bai, Z., Ye, X., Xie, T., & Xie, Y. (2021). Discovery of natural anti-inflammatory alkaloids: Potential leads for the drug discovery for the treatment of inflammation. *European Journal of Medicinal Chemistry*, 213, 113165. <https://doi.org/10.1016/j.ejmech.2021.113165>
- Bambai, B., Rogge, C. E., Stec, B., & Kulmacz, R. J. (2004). Role of Asn-382 and Thr-383 in Activation and Inactivation of Human Prostaglandin H Synthase Cyclooxygenase Catalysis. *Journal of Biological Chemistry*, 279(6), 4084–4092. <https://doi.org/10.1074/jbc.M304762200>
- Banerjee, P., Eckert, A. O., Schrey, A. K., & Preissner, R. (2018). ProTox-II: A webserver for the prediction of toxicity of chemicals. *Nucleic Acids Research*, 46(W1), W257–W263. <https://doi.org/10.1093/nar/gky318>
- Basu, S., Plot, R., & Plot, C. (2023). *Plot-Tools in Protein Structure Ramachandran Plot to the A Commentary on Plot-Tools in Protein Structure Validations : From the Ramachandran Plot to the Complementarity Plot*. <https://doi.org/10.20944/preprints202311.07>
- Bhowmik, A., Biswas, S., Hajra, S., & Saha, P. (2021). In silico validation of potent phytochemical orientin as inhibitor of SARS-CoV-2 spike and host cell receptor GRP78 binding. *Heliyon*, 7(1), e05923. <https://doi.org/10.1016/j.heliyon.2021.e05923>
- Buana, K. D. M., Dewi, K. N. M., Pratiwi, N. K. R., Permatahati, D. M., Putri, P. R. J., Yanti, L. P. D., & Swastini, D. A. (2020). Uji Aktivitas Antiinflamasi Gel Ekstrak Kulit Manggis Dengan Variasi Konsentrasi. *Jurnal Ilmiah*

- Medicamento*, 6(2), 89–93. <https://doi.org/10.36733/medicamento.v6i2.1033>
- Bussmann, R. W., Paniagua-zambrana, N. Y., & Njoroge, G. N. (2021). *Physalis peruviana* L. In *Ethnobotany of the Mountain Regions of Africa*. Springer Nature Switzerland. https://doi.org/https://doi.org/10.1007/978-3-030-38386-2_121
- Candraningrat, I. D. A. A. D., Santika, A. A. G. J., Dharmayanti, I. A. M. S., & Prayascita, P. W. (2021). Review Kemampuan Metode GC-MS Dalam Identifikasi Flunitrazepam Terkait Dengan Aspek Forensik dan Klinik. *Jurnal Kimia (Journal Of Chemistry)*, 15(1).
- Chagas, C. M., Moss, S., & Alisaraie, L. (2018). Drug metabolites and their effects on the development of adverse reactions: Revisiting Lipinski's Rule of Five. *International Journal of Pharmaceutics*, 549(1–2), 133–149. <https://doi.org/10.1016/j.ijpharm.2018.07.046>
- Chen, L., Deng, H., Cui, H., Fang, J., Zuo, Z., Deng, J., Li, Y., Wang, X., & Zhao, L. (2018). Inflammatory responses and inflammation-associated diseases in organs. *Oncotarget*, 9(6), 7204–7218. www.impactjournals.com/oncotarget/
- Cizmarova, B., Hubkova, B., Bolerazska, B., Marekova, M., & Birkova, A. (2020). Caffeic acid: A brief overview of its presence, metabolism, and bioactivity. *Bioactive Compounds in Health and Disease*, 3(4), 74–81. <https://doi.org/10.31989/bchd.v3i4.692>
- Consortium, T. U. (2023). UniProt: the Universal Protein Knowledgebase in 2023. *Nucleic Acids Research*, 1–9. https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=UniProt%3A+the+Universal+Protein+Knowledgebase+in+2023&btnG=
- Coumar, M. S. (2021). Molecular Docking for Computer-Aided Drug Design: Fundamentals, Techniques, Resources and Applications. In *Molecular Docking for Computer-Aided Drug Design: Fundamentals, Techniques, Resources and Applications*. <https://doi.org/10.1016/B978-0-12-822312-3.01001-8>
- Daina, A., Michielin, 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>
- Delgoda, R., & Murray, J. E. (2017). Evolutionary Perspectives on the Role of Plant Secondary Metabolites. In *Pharmacognosy: Fundamentals, Applications and Strategy*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-802104-0.00007-X>
- Devitria, R. (2020). Uji Aktivitas Antioksidan Ekstrak Metanol Daun Ciplukan menggunakan Metode 2,2-Diphenyl 1-Picrylhydrazyl (DPPH). *Jurnal Penelitian Farmasi Indonesia*, 9(1), 31–36. <https://doi.org/10.51887/jpfi.v9i1.800>
- Dewi, B., Hamidah, A., & Sukmono, T. (2020). Pengembangan Booklet Keanekaragaman Kupu-Kupu Di Kabupaten Kerinci dan Sekitarnya Sebagai Sumber Belajar Pada Materi Animalia Kelas X SMA. *Biodik*, 6(4), 492–506. <https://doi.org/10.22437/bio.v6i4.9979>
- Dian Wulan Dari, Andika, & Mirajunnisa. (2022). Uji Potensi Senyawa Metabolit Sekunder Tanaman Putri Malu (*Mimosa pudica* L.) Sebagai Inhibitor Xanthine Oxidase Secara In Silico. *Jurnal Ilmu Kefarmasian*, 3(2), 171–183.
- Dibha, A. F., Wahyuningsih, S., Kharisma, V. D., Ansori, A. N. M., Widyananda, M. H., Parikesit, A. A., Rebezov, M., Matrosova, Y., Artyukhova, S., Kenijz, N., Kiseleva, M., Jakhmola, V., & Zainul, R. (2022). Biological activity of kencur (*Kaempferia galanga* L.) against SARS-CoV-2 main protease. *International Journal of Health Sciences*, 6(S1), 468–480. <https://doi.org/10.53730/ijhs.v6ns1.4779>
- Diliarosta, S., Prima Sari, M., Ramadhani, R., & Efendi, A. (2022). Ethnomedicine Study on Medicinal Plants Used by Communities in West Sumatera, Indonesia. *Natural Medicinal Plants*. <https://doi.org/10.5772/intechopen.96810>
- 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), 1–11. <https://doi.org/10.1186/s13321-018-0283-x>
- Dwi Yamika, W. S., Aini, N., & Waluyo, B. (2019). *Physalis peruviana* L.: Growth,

- Yield and Phytochemical Content- A Review. *Agricultural Reviews*, 40(04).
<https://doi.org/10.18805/ag.r-130>
- Earlia, N., Muslem, Suhendra, R., Amin, M., Prakoeswa, C. R. S., Khairan, & Idroes, R. (2019). GC/MS Analysis of Fatty Acids on Pliek U Oil and Its Pharmacological Study by Molecular Docking to Filaggrin as a Drug Candidate in Atopic Dermatitis Treatment. *Scientific World Journal*, 2019. <https://doi.org/10.1155/2019/8605743>
- Effendi, N., Saputri, N. A., Purnomo, H., & Aminah. (2023). In Silico ADME-T dan Molekular Docking Analog Tamoxifen Sebagai Kandidat Agen Terapi Kanker Payudara. *Media Farmasi*, 19(1), 10–19.
- Ekawasti, F., Sa'diah, S., Cahyaningsih, U., Dharmayanti, N. L. P. I., & Subekti, D. T. (2021). Molecular Docking Senyawa Jahe Merah dan Kunyit pada Dense Granules Protein-1Toxoplasma gondii dengan Metode In Silico. *Jurnal Veteriner*, 22(4), 474–484. <https://doi.org/10.19087/jveteriner.2021.22.4.474>
- El-Beltagi, H. S., Mohamed, H. I., Safwat, G., Gamal, M., & Megahed, B. M. H. (2019). Chemical Composition and Biological Activity of Physalis peruviana L. *Gesunde Pflanzen*. <https://doi.org/10.1007/s10343-019-00456-8>
- El-Gengaihi, S. E., Hassan, E. E., Hamed, M. A., Zahran, H. G., & Mohammed, M. A. (2013). Chemical composition and biological evaluation of Physalis peruviana root as hepato-renal protective agent. *Journal of Dietary Supplements*, 10(1), 39–53. <https://doi.org/10.3109/19390211.2012.760509>
- El Houda Lezoul, N., Belkadi, M., Habibi, F., & Guillén, F. (2020). Extraction processes with several solvents on total bioactive compounds in different organs of three medicinal plants. *Molecules*, 25(20). <https://doi.org/10.3390/molecules25204672>
- Elfita, L., Apriadi, A., Supandi, & Dianmurdedi, S. (2022). Studi Penambatan Molekuler dan Simulasi Dinamika Molekuler Senyawa Turunan Furanokumarin terhadap Reseptor Estrogen Alfa (ER- α) Sebagai Anti Kanker Payudara. *Jurnal Sains Farmasi & Klinis*, 9(3), 255–264. <https://doi.org/10.25077/jsfk.9.3.255-264.2022>
- Emelda, E., Nugraeni, R., & Damayanti1, K. (2022). Eksplorasi Tanaman Herbal

- Indonesia sebagai Anti Inflamasi. *INPHARNMED Journal (Indonesian Pharmacy and Natural Medicine Journal)* ISSN: <https://doi.org/http://dx.doi.org/10.21927/inpharnmed.v6i2.1938>
- Ertürk, Ö., Çol Ayvaz, M., Can, Z., Karaman, Ü., & Korkmaz, K. (2017). Antioxidant, antimicrobial activities and phenolic and chemical contents of *Physalis peruviana* L. from Trabzon, Turkey. *Indian Journal of Pharmaceutical Education and Research*, *51*(3), S213–S216. <https://doi.org/10.5530/ijper.51.3s.15>
- Fadhilla, G., Adnyana, I. K., & Chaniago, R. (2020). Analgetic Activity Of Ethanol Extract Of Ciplukan Leaves (*Physalis peruviana* L.) On Male Swiss Webster Mice By Streching Method (Sigmund). *Junal Ilmiah Farmako Bahari*, *11*(1), 75–88.
- Fadlan, A., Warsito, T., & Sarmoko, S. (2021). Pendekatan in Silico Dalam Menyingkap Potensi Antikanker Meciadanol. *Jurnal Kimia Riset*, *6*(2), 163. <https://doi.org/10.20473/jkr.v6i2.31071>
- Fakhrusy, Kasim, A., Asben, A., & Anwar, A. (2020). Review: Optimalisasi Metode Maserasi Untuk Ekstraksi Tanin Rendemen Tinggi. *Menara Ilmu*, *14*(2)(02), 38–41.
- Fakih, T. M., Hazar, N., Dewi, M. L., Syarza, T. M., & Arumsari, A. (2021). Studi in Silico Mekanisme Aksi Senyawa Ftalosianina Sebagai Kandidat Fotosensitizer Dalam Terapi Covid-19 Berbasis Fotodinamika. *Jurnal Ilmiah Farmasi Farmasyifa*, *4*(1), 57–66. <https://doi.org/10.29313/jiff.v4i1.6784>
- Fang, S. T., Liu, J. K., & Li, B. (2012). Ten new withanolides from *Physalis peruviana*. *Steroids*, *77*(1–2), 36–44. <https://doi.org/10.1016/j.steroids.2011.09.011>
- Fariesca, P. F. F., & Astuti, K. W. (2023). Potensi Aktivitas Antiinflamasi Tumbuhan Obat Terpilih Dalam Usada Tenung Tanyalara. *4*(1), 84–90.
- Fitriasih, R., Kasrina, I., & Kasrina, K. (2019). Pengembangan Booklet Keanekaragaman Pteridophyta Di Kawasan Suban Air Panas Untuk Siswa Sma. *Diklabio: Jurnal Pendidikan Dan Pembelajaran Biologi*, *3*(1), 100–108. <https://doi.org/10.33369/diklabio.3.1.100-108>

- Flamandita, D., Lischer, K., Pratami, D. K., Aditama, R., & Sahlan, M. (2020). Molecular docking analysis of podophyllotoxin derivatives in Sulawesi propolis as potent inhibitors of protein kinases. *AIP Conference Proceedings*, 2230(May). <https://doi.org/10.1063/5.0002596>
- Fransiska, A. N., Odhia, F. N., Putri, G. K., Setyasna, P., Tyasna, P. S., Putri, T. R., & Nurfadhila, L. (2023). Molecular docking aktivitas senyawa antioksidan alami pada beberapa tanaman di indonesia. *Jurnal Farmasetis*, 12(1), 55–60.
- Fristiohady, A., Ningsih, M. B., & Malik, F. (2020). Review Artikel : Peran Faktor Transkripsi Nuclear Factor Kappa-Light-Chain-Enhancer of Activated B Cells (NF- κ B) Terhadap Sel Kanker Payudara. *Jurnal Mandala Pharmacon Indonesia*, 6(2), 81–90. <https://doi.org/10.35311/jmpi.v6i1.59>
- Guaadaoui, A., Benaicha, S., Elmajdoub, N., Bellaoui, M., & Hamal, A. (2014). What is a bioactive compound? A combined definition for a preliminary consensus. *International Journal of Food Sciences and Nutrition*, 3(3), 17–179. <https://doi.org/10.11648/j.ijnfs.20140303.16>
- Habibah, N. (2021). *Etnobotani Tumbuhan Obat Tradisional Pada Masyarakat Desa Wanasuka Kecamatan Pangalengan Sebagai Suplemen Bahan Ajar Biologi*. Universitas Siliwangi.
- 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.
- Hasanah, U., Setyowati, M., Efendi, R., Muslem, M., Md Sani, N. D., Safitri, E., Heng, L. Y., & Idroes, R. (2019). Preparation and characterization of a pectin membrane-based optical pH sensor for fish freshness monitoring. *Biosensors*, 9(2). <https://doi.org/10.3390/bios9020060>
- Hidayatullah, J. A., Widiyana, A. P., & Damayanti, D. S. (2022). Studi In Silico : Analisis Potensi Kacang Merah (*Phaseolus vulgaris*) Sebagai Anti-Alzheimer Dengan Aktivasi Alfa Sekretase Dan Penghambatan Beta Sekretase. *Jurnal Bio Komplementer Medicine*, 9(1), 1–12. introduction: Kidney bean (*Phaseolus vulgaris*) contains various of active compounds, that have the potential as Anti-alzheimer's. This study aims to predict the potential of

kidney bean active compounds as anti-alzheimer's with mechanism activation alpha

- Hotmian, E., Suoth, E., Fatimawali, F., & Tallei, T. (2021). Analisis GC-MS (Gas Chromatography - Mass Spectrometry) Ekstrak Metanol Dari Umbi Rumput Teki (*Cyperus rotundus* L.). *Pharmacon*, *10*(2), 849. <https://doi.org/10.35799/pha.10.2021.34034>
- Intika, T. (2018). Pengembangan Media Booklet Science for Kids Sebagai Sumber Belajar Di Sekolah Dasar. *JRPD (Jurnal Riset Pendidikan Dasar)*, *1*(1), 10–17. <https://doi.org/10.26618/jrpd.v1i1.1234>
- Ivanova, T., Popova, V., Mazova, N., Stoyanova, A., & Damyanova, S. (2019). Extracts from physalis leaves (*Physalis peruviana* L.) for prospective application in medicine and cosmetics. *Ukrainian Food Journal*, *8*(1), 34–44. <https://doi.org/10.24263/2304-974x-2019-8-1-5>
- Julianti, W. P., Ikrawan, Y., Iwansyah, A. C., Pangan, T., Pasundan, U., Penelitian, P., & Tepat, T. (2019). *Pengaruh Jenis Pelarut Terhadap Kandungan Total Fenolik, Aktivitas Antioksidan dan Toksisitas Ekstrak Buah Ciplukan (Physalis angulata L)*. *50*, 70–79.
- Jyothi, S., & Bhargavi, P. (2017). Data science and computational biology. *Deep Learning Innovations and Their Convergence With Big Data*, 152–172. <https://doi.org/10.4018/978-1-5225-3015-2.ch009>
- Kai, Q. X. A., Rumengan, I. F. M., Lintang, R. A. J., Wullur, S., Sumilat1, D. A., Pangkey, H., & Luntungan, dan H. A. (2021). Penambatan Molekul Glutation Fauna Laut Terhadap Reseptor Dari Beberapa Penyakit Virus. *Jurnal Pesisir Dan Laut Tropis*, *9*, 53–58.
- Kasali, F. M., Tusiimire, J., Kadima, J. N., Tolo, C. U., Weisheit, A., & Agaba, A. G. (2021). Ethnotherapeutic Uses and Phytochemical Composition of *Physalis peruviana* L.: An Overview. *Scientific World Journal*, 2021. <https://doi.org/10.1155/2021/5212348>
- Kasali, F. M., Tuyiringire, N., Peter, E. L., Ahoegbe, L. Y., Ali, M. S., Tusiimire, J., Ogwang, P. E., Kadima, J. N., & Agaba, A. G. (2022). Chemical constituents and evidence-based pharmacological properties of *Physalis*

- peruviana L.: An overview. *Journal of HerbMed Pharmacology*, 11(1), 35–47. <https://doi.org/10.34172/jhp.2022.04>
- 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>
- Khade, O. S., Sruthi, K., Sonkar, R. M., Gade, P. S., & Bhatt, P. (2023). *Plant secondary metabolites : Extraction , screening , analysis and their bioactivity. March*. <https://doi.org/10.22271/flora.2023.v11.i2a.855>
- Khaerunnisa, A., Djamil, R., Sulastri, L., & Simanjuntak, P. (2022). Aktivitas Fraksi Air Kulit Batang Mahoni (*Swietenia macrophylla* King.) Dan Studi In Silico Senyawa Kimia Penghambat Enzim α -Glukosidase. *Jurnal Fitofarmaka Indonesia*, 9(1), 6–14. <https://doi.org/10.33096/jffi.v9i1.807>
- Khariz, F. (2016). *Screening database tanaman herbal indonesia sebagai thyroid peroxidase inhibitor pada hipertiroidisme dengan metode molecular docking* [Universitas Sebelas Maret]. <https://digilib.uns.ac.id/dokumen/detail/78136/Screening-database-tanaman-herbal-indonesia-sebagai-thyroid-peroxidase-inhibitor-pada-hipertiroidisme-dengan-metode-molecular-docking>
- Kubwabo, C., Rollmann, B., & Tilquin, B. (1993). Analysis of alkaloids from *Physalis peruviana* by capillary GC, capillary GC-MS, and GC-FTIR. *Planta Medica*, 59(2), 161–163. <https://doi.org/10.1055/s-2006-959634>
- Kurniawati, A. (2019). Pengaruh Jenis Pelarut Pada Proses Ekstraksi Bunga Mawar Dengan Metode Maserasi Sebagai Aroma Parfum. *Journal of Creativity Student*, 2(2), 74–83. <http://journal.unnes.ac.id/nju/index.php/jcs>
- Kusumastuti, E., Handajani, J., & Susilowati, H. (2014). Ekspresi COX-2 dan Jumlah Neutrofil Fase Inflamasi pada Proses Penyembuhan Luka Setelah Pemberian Sistemik Ekstrak Etanolik Rosela (*Hibiscus sabdariffa*) (studi in vivo pada Tikus Wistar). *Majalah Kedokteran Gigi Indonesia*, 21(1), 13. <https://doi.org/10.22146/majkedgiind.8778>

- Lagunin, A., Stepanchikova, A., Filimonov, D., & Poroikov, V. (2000). PASS: Prediction of activity spectra for biologically active substances. *Bioinformatics*, *16*(8), 747–748. <https://doi.org/10.1093/bioinformatics/16.8.747>
- Laskowski, R. A. (2022). PDBsum1: A standalone program for generating PDBsum analyses. *Protein Science*, *31*(12), 1–5. <https://doi.org/10.1002/pro.4473>
- Laskowski, R. A., Jabłońska, J., Pravda, L., Vařeková, R. S., & Thornton, J. M. (2018). PDBsum: Structural summaries of PDB entries. *Protein Science*, *27*(1), 129–134. <https://doi.org/10.1002/pro.3289>
- Lawrence, T. (2009). The nuclear factor NF-kappaB pathway in inflammation. *Cold Spring Harbor Perspectives in Biology*, *1*(6), 1–10. <https://doi.org/10.1101/cshperspect.a001651>
- Lipinski, C. A., Lombardo, F., Dominy, B. W., & Feeney, P. J. (2001). Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings. *Advanced Drug Delivery Reviews*, *46*, 3–26. <https://doi.org/10.1016/j.addr.2012.09.019>
- Lipinski, C. A., Lombardo, F., Dominy, B. W., & Feeney, P. J. (2012). Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings. *Advanced Drug Delivery Reviews*, *64*, 4–17. <https://doi.org/10.1016/j.addr.2012.09.019>
- Listyani, T. A., Herowati, R., & Djaliasrin, A. (2018). Analisis Docking Molekuler Senyawa Derivat Phthalimide sebagai Inhibitor Non-Nukleosida HIV-1 Reverse Transcriptase. *Jurnal Farmasi Indonesia*, *15*(2), 123–134. <https://doi.org/http://dx.doi.org/10.31001/jfi.v15i2.445>
- Liu, S. Q., Xie, Y., Gao, X., Wang, Q., & Zhu, W. Y. (2020). Inflammatory response and MAPK and NF-κB pathway activation induced by natural street rabies virus infection in the brain tissues of dogs and humans. *Virology Journal*, *17*(1), 1–11. <https://doi.org/10.1186/s12985-020-01429-4>
- Liu, T., Zhang, L., Joo, D., & Sun, S. C. (2017). NF-κB signaling in inflammation. *Signal Transduction and Targeted Therapy*, *2*(March). <https://doi.org/10.1038/sigtrans.2017.23>

- Mahrus, Lalu Zulkifli, Saprizal Hadisaputra, & Ida Ayu Putu Armyani. (2021). Penggunaan Bioinformatika dalam Pembelajaran Sains Untuk Menyelesaian Kesulitan Belajar Siswa pada Materi Genetika di SMPN 20 Mataram. *Jurnal Pengabdian Magister Pendidikan IPA*, 4(4), 290–295. <https://doi.org/10.29303/jpmpi.v4i4.1128>
- Main, E., & Dari, P. (2023). Analisis In Silico Interaksi Senyawa Kurkuminoid Terhadap Enzim Main Protease 6lu7 Dari Sars-Cov-2. *Duta Pharma Journal*, 3(1), 1–7.
- Manzoor, Z., & Koh, Y. S. (2012). Mitogen-activated protein kinases in inflammation. *Journal of Bacteriology and Virology*, 42(3), 189–195. <https://doi.org/10.4167/jbv.2012.42.3.189>
- Maria Angelina Genere Koban, Sri Rahayu Lestari, & Frida Kunti Setiowati. (2022). Analisis In Silico Naringenin dari Umbi Akar Batu (*Gerrardanthus macrorhizus* Harv.ex Benth. & Hook.f.) sebagai Antitusif terhadap Reseptor N-methyl-D-aspartate. *Biota : Jurnal Ilmiah Ilmu-Ilmu Hayati*, 7(3), 172–182. <https://doi.org/10.24002/biota.v7i3.5912>
- Masula, A. F., Puspitasari, D., Supriatin S.W, E., Ummah, K., Rokhmatin, D., Mubarrok, M. M., Hariza, A. T., Isnawati, I., & Purnama, E. R. (2018). Docking Molekuler Senyawa Metabolit Sekunder Lantana Camara Sebagai Antiinflamasi Terhadap Enzim COX-1. *Jurnal Biota*, 4(2), 79–83. <https://doi.org/10.19109/biota.v4i2.2172>
- Mazova, N., Popova, V., & Stoyanova, A. (2020). Phytochemical composition and biological activity of *Physalis* spp.: A mini-review. *Food Science and Applied Biotechnology*, 3(1), 56. <https://doi.org/10.30721/fsab2020.v3.i1.80>
- Mier-Giraldo, H., Díaz-Barrera, L. E., Delgado-Murcia, L. G., Valero-Valdivieso, M. F., & Cáez-Ramírez, G. (2017). Cytotoxic and Immunomodulatory Potential Activity of *Physalis peruviana* Fruit Extracts on Cervical Cancer (HeLa) and Fibroblast (L929) Cells. *Journal of Evidence-Based Complementary and Alternative Medicine*, 22(4), 777–787. <https://doi.org/10.1177/2156587217718751>
- Mochsen, I. I., Bintari, Y. R., & Risandiansyah, R. (2022). Kaempferol-3-O-

- Sambubioside Dari Bunga Hibiscus Sabdariffa Mampu Menghambat Protein Binding Galactose (Leca) Dan Transcriptional Activator (Lasr) Pseudomonas Aeruginosa : Studi In Silico. *Jurnal Kedokteran Komunitas*, 10(2).
- Mukhtarini. (2014). Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif. *Jurnal Kesehatan*, 7(2), 361. <https://doi.org/10.1007/s11293-018-9601-y>
- Muslikh, F. A., Samudra, R. R., & Ma, B. (2023). Prediksi Senyawa Fraksi Etil Asetat Daun Semanggi (*Marsilea crenata* Presl .) Sebagai Agen Antineuroinflamasi (agonis ER α). *JIKSN: Jurnal Ilmu Kesehatan Dan Sains Nusantara*, 01(01), 10–21.
- N. Christi, S. R., & Rajiman, W. (2023). Pentingnya Berpikir Komputasional dalam Pembelajaran Matematika. *Journal on Education*, 5(4), 12590–12598. <https://doi.org/10.31004/joe.v5i4.2246>
- Ningsih, U. P., & Novianty, R. (2022). Studi In Silico Senyawa Arecoline (Areca cathecu L.) Sebagai Kandidat Obat Antidepresan. *Prosiding Universitas Riau*, 20(1), 105–123.
- Nur, A. V., Slamet, Rizqi, I. I., & Salsabila, S. F. (2022). Molecular Docking Metabolit Sekunder Buah Buas-Buas (*Premna pubescens* Blume) sebagai Antiinflamasi pada Aterosklerosis: Pendekatan In-Silico. *INPHARMED Journal (Indonesian Pharmacy and Natural Medicine Journal)*, 6(2), 73–81. <https://doi.org/http://dx.doi.org/10.21927/inpharmmed.v6i2.2653>
- Nurfadillah, H., Arumsari, A., & Faqih, T. M. (2020). Analisis Mekanisme Interaksi Senyawa Turunan Ftalosianin terhadap Reseptor HasAp pada *Pseudomonas aeruginosa* dengan Metode in Silico. <http://dx.doi.org/10.29313/.v6i2.23801>
- Oh, J., Liu, H., Park, H. B., Ferreira, D., Jeong, G., Hamann, M. T., Doerksen, R. J., Na, M., States, U., States, U., States, U., Haven, N., States, U., Haven, W., States, U., Sciences, B., & States, U. (2018). *In silico investigation of lavandulyl flavonoids for the development of potent fatty acid synthase-inhibitory prototypes.* 1861, 3180–3188. <https://doi.org/10.1016/j.bbagen.2016.08.001>.In

- Oktavia, A., Indriani, S., & Batoro, J. (2017). Ethnobotanical Study of Toxic Plants in Ngadiwono Village, Tosari District, Pasuruan Regency, East Java. *Jurnal Pembangunan Dan Alam Lestari*, 8(2), 83–88. <https://doi.org/10.21776/ub.jpal.2017.008.02.04>
- Öztürk, H., Ozkirimli, E., & Özgür, A. (2016). A comparative study of SMILES-based compound similarity functions for drug-target interaction prediction. *BMC Bioinformatics*, 17(1), 1–11. <https://doi.org/10.1186/s12859-016-0977-x>
- Panche, A., Diwan, A. D., & Chandra, S. R. (2017). Flavonoids: an overview. *Journal of Nutritional Science*, 5, 1–15. <https://doi.org/10.1017/jns.2016.41>
- Parhiz, H., Roohbakhsh, A., Soltani, F., Rezaee, R., & Iranshahi, M. (2015). Antioxidant and anti-inflammatory properties of the citrus flavonoids hesperidin and hesperetin: An updated review of their molecular mechanisms and experimental models. *Phytotherapy Research*, 29(3), 323–331. <https://doi.org/10.1002/ptr.5256>
- Park, H. A., Kwon, O. K., Ryu, H. W., Min, J. H., Park, M. W., Park, M. H., Paik, J. H., Choi, S., Paryanto, I., Yuniato, P., Oh, S. R., Ahn, K. S., & Lee, J. W. (2019). *Physalis peruviana* L. Inhibits ovalbumin-induced airway inflammation by attenuating the activation of NF- κ B and inflammatory molecules. *International Journal of Molecular Medicine*, 43(4), 1830–1838. <https://doi.org/10.3892/ijmm.2019.4110>
- Peñaloza, E. M. C., Costa, S. S., & Herrera-Calderon, O. (2023). Medicinal Plants in Peru as a Source of Immunomodulatory Drugs Potentially Useful Against COVID-19. *Revista Brasileira de Farmacognosia*, 33(2), 237–258. <https://doi.org/10.1007/s43450-023-00367-w>
- Praceka, M. S., N. Yunita, E., D. Semesta, C., N. Putri, R., N. Mikdar, N., N. Sitingjak, E., U. Setyawati, L., & Muchtaridi, M. (2022). Molecular Docking and Toxicity from Temulawak Rhizome (*Curcuma xanthorrhiza* Roxb.) against COX-2. *Indonesian Journal of Pharmaceutical Science and Technology*, 1(1), 106. <https://doi.org/10.24198/ijpst.v1i1.43808>
- Pramudhita, A. N., Firdaus, V. A. H., Odhitya Desta Triswidrananta, & Rozi, I. F.

- (2022). Peningkatan Kemampuan Computational Thinking Untuk Guru Pendidikan Dasar di Malang. *Jurnal Pengabdian*, 7, 72–83. <http://jurnal.polinema.ac.id/index.php/j-indeks/article/view/382>
- Prasetiawati, R., Suherman, M., Permana, B., & Rahmawati, R. (2021). Molecular Docking Study of Anthocyanidin Compounds Against Epidermal Growth Factor Receptor (EGFR) as Anti-Lung Cancer. *Indonesian Journal of Pharmaceutical Science and Technology*, 8(1), 8. <https://doi.org/10.24198/ijpst.v8i1.29872>
- Pratama, A. B., Herowati, R., & Ansory, H. M. (2021). Studi Docking Molekuler Senyawa Dalam Minyak Atsiri Pala (*Myristica fragrans* H.) Dan Senyawa Turunan Miristisin Terhadap Target Terapi Kanker Kulit. *Majalah Farmaseutik*, 17(2), 233. <https://doi.org/10.22146/farmaseutik.v17i2.59297>
- Priyadarshini, M. N., Preetha, S. P., Sujatha, P. L., & Thangapandiyani, M. (2019). A computer aided approach to develop herbal acaricide using *Leucas aspera* and *Cassia alata* against the cattle tick *Rhipicephalus (Boophilus) microplus*. *The Pharma Innovation Journal*, 8(11), 79–87.
- Pubchem. (2023). *Pubchem*. <https://pubchem.ncbi.nlm.nih.gov/>
- Puspitasari, A. D., & Proyogo, L. S. (2017). Perbandingan Metode Ekstraksi Maserasi dan Sokletasi Terhadap Kadar Fenolik Total Ekstrak Etanol Daun Kersen (*Muntingia calabura*). *Jurnal Ilmiah Cendekia Eksakta*, 1(2), 1–8.
- Rachmania, R. A., Hariyanti, H., Zikriah, R., & Sultan, A. (2018). Studi In Silico Senyawa Alkaloid Herba Bakung Putih (*Crinum asiaticum* L.) pada Penghambatan Enzim Siklooksigenase (COX). *Jurnal Kimia VALENSI*, 4(2), 124–136. <https://doi.org/10.15408/jkv.v4i2.7686>
- Rahman, M., Rahaman, S., Islam, R., Rahman, F., Mithi, F. M., Alqahtani, T., Almikhlaifi, M. A., Alghamdi, S. Q., Alruwaili, A. S., Hossain, S., Ahmed, M., Das, R., Emran, T. Bin, & Uddin, S. (2022). Role of Phenolic Compounds in Human Disease : Current. *Molecules*, 27(233), 1–36.
- Ramírez, D., & Caballero, J. (2018). Is It Reliable to Take the Molecular Docking Top Scoring Position as the Best Solution without Considering Available Structural Data? *Molecules*, 23(5), 1–17.

<https://doi.org/10.3390/molecules23051038>

- Rasheed, E. A. (2020). *Pathophysiology: Chemical Mediators of Inflammation. 1*, 1–14.
- Rezki, M. N., Andika, & Rahmawati. (2022). Studi Penambatan Molekuler Senyawa Metabolit Sekunder Buah Semangka (*Citrullus lanatus*) yang Berpotensi sebagai Antiinflamasi Melalui Inhibisi COX-2. *Medical Sains : Jurnal Ilmiah Kefarmasian*, 7(3), 609–620. <https://doi.org/10.37874/ms.v7i3.341>
- Rolta, R., Yadav, R., Salaria, D., Trivedi, S., Imran, M., Sourirajan, A., Baumler, D. J., & Dev, K. (2021). In silico screening of hundred phytochemicals of ten medicinal plants as potential inhibitors of nucleocapsid phosphoprotein of COVID-19: an approach to prevent virus assembly. *Journal of Biomolecular Structure and Dynamics*, 39(18), 7017–7034. <https://doi.org/10.1080/07391102.2020.1804457>
- Rosmainar, L. (2018). Metabolit Sekunder Dari Batang *Physalis peruviana* (Solanaceae). *Jurnal Kimia (Journal of Chemistry)*, 12(2), 152–158.
- Roy, A. (2017). A review on the alkaloids an important therapeutic compound from plants Dye degradation using nanoparticles View project Biosurfactant Production View project. *International Journal of Plant Biotechnology*, 3(2), 1–9. www.journalspub.com
- Rumata, N. R., Nursamsiar, N., & Arifin, M. P. (2022). Studi Penambatan Senyawa Dari Tanaman Kembang Bulan (*Tithonia Diversifolia* (Hemsley) A. Gray) Terhadap Peroxisome Proliferator-Activated Receptor-Gamma (PPAR γ) Untuk Penyakit Diabetes Melitus. *Journal of Pharmaceutical and Medicinal Sciences*, 7(2), 28–32.
- Ruswanto, R., Mustaqim, I., & Tuslinah, L. (2018). *Kuersetin : Penghambat Uridin 5-Monofosfat Sintase sebagai Kandidat Antikanker Berdasarkan Data Global Burden Cancer (GLOBOCAN)*, *International Agency for*. 14(2), 236–252. <https://doi.org/10.20961/alchemy.14.2.14396.236-254>
- Sambavekar, P. P., Aitawade, M. M., Patil, D. R., Kolekar, G. B., Deshmukh, M. B., & Anbhule, P. V. (2013). In-silico, in-vitro antibacterial activity and

- toxicity profile of new quinoline derivatives. *Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry*, 52(12), 1521–1526.
- Schjerning, A. M., McGettigan, P., & Gislason, G. (2020). Cardiovascular effects and safety of (non-aspirin) NSAIDs. *Nature Reviews Cardiology*, 17(9), 574–584. <https://doi.org/10.1038/s41569-020-0366-z>
- Sekali, E. E. K., Wartini, N. M., & Suhendra, L. (2020). Karakteristik Ekstrak Aseton Pewarna Alami Daun Singkong (*Manihot Esculenta* C.) pada Perlakuan Ukuran Partikel Bahan dan Lama Maserasi. *Jurnal Ilmiah Teknologi Pertanian*, 5(2), 49–58.
- Semis, H. S., Gur, C., Ileriturk, M., Kaynar, O., & Kandemir, F. M. (2021). Investigation of the anti-inflammatory effects of caffeic acid phenethyl ester in a model of λ -Carrageenan-induced paw edema in rats. *Human and Experimental Toxicology*, 40(12_suppl), S721–S738. <https://doi.org/10.1177/09603271211054436>
- Sharma, V., Wakode, S., & Kumar, H. (2021). Structure- and ligand-based drug design: Concepts, approaches, and challenges. *Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences*, August, 27–53. <https://doi.org/10.1016/B978-0-12-821748-1.00004-X>
- Sheikh, S. Y., Ansari, W. A., Hassan, F., Khan, M. F., Faiyaz, S. S. M., Akhter, Y., Khan, A. R., & Nasibullah, M. (2023). Drug Repurposing against Phosphomannomutase for the Treatment of Cutaneous Leishmaniasis. *Oriental Journal Of Chemistry*, 39(1), 01–10. <https://doi.org/10.13005/ojc/390101>
- Silalahi, M. (2018). *Physalis peruviana* : Food and Its Bioactivity. *Bioma*, 14(2), 70–78. [https://doi.org/10.21009/Bioma14\(2\).3](https://doi.org/10.21009/Bioma14(2).3)
- Silalahi, M., & Nisyawati. (2018). The ethnobotanical study of edible and medicinal plants in the home garden of Batak Karo sub-ethnic in north Sumatra, Indonesia. *Biodiversitas*, 19(1), 229–238. <https://doi.org/10.13057/biodiv/d190131>
- Sottriffer, C. A. (2016). In Silico Drug Discovery and Design: Theory, Methods, Challenges, and Applications. In C. N. Cavasotto (Ed.), *In Silico Drug*

Discovery and Design: Theory, Methods, Challenges, and Applications. CRC Press Taylor & Francis Group.

- Sugiyono. (2022). *Metode Penelitian Kualitatif* (S. Yustiyani (ed.); 3rd ed.). CV Alfabeta.
- Surahmaida, S., Sudarwati, T. P. L., & Junairiah, J. (2019). Analisis GCMS terhadap Senyawa Fitokimia Ekstrak Metanol *Ganoderma lucidum*. *Jurnal Kimia Riset*, 3(2), 147. <https://doi.org/10.20473/jkr.v3i2.12060>
- Thahara, C. A., Rizarullah*, R., Atika, R. A., & Wahab, A. (2022). Potensi Pendekatan in Silico Sebagai Penghambat Aktivitas Protein Protease Utama SARS-CoV-2 dari Tiga Senyawa Tanaman Obat Jahe Merah. *Jurnal IPA & Pembelajaran IPA*, 6(3), 207–218. <https://doi.org/10.24815/jipi.v6i3.24914>
- Thandra, D. R., Bojja, R. R., & Allikayala, R. (2020). Synthesis, spectral studies, molecular structure determination by single crystal X-ray diffraction of (E)-1-(((3-fluoro-4-morpholinophenyl)imino)methyl)naphthalen-2-ol and computational studies by Austin model-1(AM1), MM2 and DFT/B3LYP. *SN Applied Sciences*, 2(11). <https://doi.org/10.1007/s42452-020-03525-0>
- Timotius, K. H., Tjajaindra, A., & Sudradjat, S. E. (2021). Potential anti-inflammation of *Physalis angulata* L. *International Journal of Herbal Medicine*, 9(5), 50–58. www.florajournal.com
- Tu, M., Cheng, S., Lu, W., & Du, M. (2018). Advancement and prospects of bioinformatics analysis for studying bioactive peptides from food-derived protein: Sequence, structure, and functions. *TrAC - Trends in Analytical Chemistry*, 105, 7–17. <https://doi.org/10.1016/j.trac.2018.04.005>
- Valdés-Tresanco, M. S., Valdés-Tresanco, M. E., Valiente, P. A., & Moreno, E. (2020). AMDock: a versatile graphical tool for assisting molecular docking with Autodock Vina and Autodock4. *Biology Direct*, 15(1), 1–12. <https://doi.org/10.1186/s13062-020-00267-2>
- Verdiana, M., Widarta, I. W. R., & Permana, I. D. G. M. (2018). Pengaruh Jenis Pelarut Pada Ekstraksi Menggunakan Gelombang Ultrasonik Terhadap Aktivitas Antioksidan Ekstrak Kulit Buah Lemon (*Citrus limon* (Linn.) Burm F.). *Jurnal Ilmu Dan Teknologi Pangan (ITEPA)*, 7(4), 213.

<https://doi.org/10.24843/itepa.2018.v07.i04.p08>

- Wakefield, D., & Kumar, R. K. (2003). Inflammation: Chronic. *ELS: Encyclopedia of Life Sciences, January*. <https://doi.org/10.1038/npg.els.0000944>
- Wang, B., Wu, L., Chen, J., Dong, L., Chen, C., Wen, Z., Hu, J., Fleming, I., & Wang, D. W. (2021). Metabolism pathways of arachidonic acids: mechanisms and potential therapeutic targets. *Signal Transduction and Targeted Therapy*, 6(1). <https://doi.org/10.1038/s41392-020-00443-w>
- Ward, P. A. (2014). Acute and Chronic Inflammation. *Fundamentals of Inflammation*, 1–16. <https://doi.org/10.1017/cbo9781139195737.002>
- Warnasih, S., Ishlah, T. S., Novitasari, Azzahra, D. N., & Syahputra, G. (2023). Aktivitas Immunostimulan Ekstrak Metanol Biji Kurma (*Phoenix dactylifera*) secara In Silico terhadap Reseptor GIF dan COX-2 serta Uji In Vitro melalui Proliferasi Sel Limfosit Mencit. *Alchemy: Journal of Chemistry*, 10(2), 48–59.
- Williams, M. A. (2013). *Protein-Ligand Interactions* (J. Walker (ed.); 2nd ed.). Humana Press. <https://doi.org/10.1007/978-1-62703-398-5>
- Winardi, D. O., Alliyah, S. A., Fadilah, S. N., & Sirait, J. (2023). In Silico and In Vitro Studies on Compounds in Turmeric (*Curcuma domestica*) as Anti-inflammatory for Cyclooxygenase-2 (COX-2) Studi In Silico dan In Vitro Senyawa Aktif pada Rimpang Kunyit (*Curcuma domestica*) sebagai Antiinflamasi pada Cyclooxygenas. *Indonesian Journal of Pharmaceutical Science and Technology*, 1(1).
- Wu, S. J., Chang, S. P., Lin, D. L., Wang, S. S., Hou, F. F., & Ng, L. T. (2009). Supercritical carbon dioxide extract of *Physalis peruviana* induced cell cycle arrest and apoptosis in human lung cancer H661 cells. *Food and Chemical Toxicology*, 47(6), 1132–1138. <https://doi.org/10.1016/j.fct.2009.01.044>
- Yahfoufi, N., Alsadi, N., Jambi, M., & Matar, C. (2018). The immunomodulatory and anti-inflammatory role of polyphenols. *Nutrients*, 10(11), 1–23. <https://doi.org/10.3390/nu10111618>
- Yıldız, G., İzli, N., Ünal, H., & Uylaşer, V. (2015). Physical and chemical characteristics of goldenberry fruit (*Physalis peruviana* L.). *Journal of Food Science and Technology*, 52(4), 2320–2327. <https://doi.org/10.1007/s13197->

014-1280-3

- Yuliana, A., Wulandari, W. T., & Ratnasari, I. (2022). Uji Aktivitas Antivirus dari Senyawa Turunan Katekin terhadap M-Protease SARS-COV 2 secara In Silico. *Prosiding Seminar Nasional Diseminasi*, 2, 407–420.
- Yunita, E., Fatimah, S., Yulianto, D., Trikuncahyo, V., & Khodijah, Z. (2019). Potensi Daun Asam Jawa (*Tamarindus indica* L.) Sebagai Alternatif Antiinflamasi: Studi In Silico. *Jurnal Kefarmasian Akfarindo*, 4(2), 42–50. <https://doi.org/10.37089/jofar.v0i0.68>
- Yusuf, M., Hardianto, A., Muchtaridi, M., Nuwarda, R. F., & Subroto, T. (2018). Introduction of docking-based virtual screening workflow using desktop personal computer. In *Encyclopedia of Bioinformatics and Computational Biology: ABC of Bioinformatics* (Vols. 1–3). Elsevier Ltd. <https://doi.org/10.1016/B978-0-12-809633-8.20277-X>
- Zhai, Z., Tao, X., Alami, M. M., Shu, S., & Wang, X. (2021). Network pharmacology and molecular docking combined to analyze the molecular and pharmacological mechanism of pinellia ternata in the treatment of hypertension. *Current Issues in Molecular Biology*, 43(1), 65–78. <https://doi.org/10.3390/cimb43010006>
- Zong, F., & Zhao, Y. (2021). Alkaloid leonurine exerts anti-inflammatory effects via modulating MST1 expression in trophoblast cells. *Immunity, Inflammation and Disease*, 9(4), 1439–1446. <https://doi.org/10.1002/iid3.493>
- Zulnawati, A., Dahelmi, & Rahayu, R. (2018). Pemilihan Pakan Larva Papilio memnon Linnaeus, 1758 (Lepidoptera) terhadap Tumbuhan Inang Citrus aurantifolia dan Citrus hystrix (Rutaceae). *Journal of Biological Sciences*, 5(2), 266–272. <https://doi.org/10.2307/2257356>