

DAFTAR PUSTAKA

- Abdul-Rahman, A. M., Elwekeel, A., Alruhaimi, R. S., Kamel, E. M., Bin-Ammar, A., Mahmoud, A. M., Moawad, A. S., & Zaki, M. A. (2023). Multi-target action of *Garcinia livingstonei* extract and secondary metabolites against fatty acid synthase, α -glucosidase, and xanthine oxidase. *Saudi Pharmaceutical Journal*, 31(10), 101762. <https://doi.org/10.1016/j.jsps.2023.101762>
- Afriyeni, H., Rizal, R., Armenia, A., Esfika, M., & Dillasamola, D. (2023). Uji Efektifitas Ekstrak Etanol Daun Arbei (*Rubus rosifolius* Sm.) Terhadap Penurunan Kadar Glukosa Darah pada Mencit Diabetes. *Jurnal Sains Farmasi & Klinis*, 10(2), 248. <https://doi.org/10.25077/jsfk.10.2.248-255.2023>
- Alatas, Haidar. (2021). hubungan hiperurisemia dan xo. *Herb-Medicine Journal*, 1–19.
- Chen, Y., Li, C., Duan, S., Yuan, X., Liang, J., & Hou, S. (2019). Curcumin attenuates potassium oxonate-induced hyperuricemia and kidney inflammation in mice. *Biomedicine and Pharmacotherapy*, 118. <https://doi.org/10.1016/j.biopha.2019.109195>
- Desideri, G., & Borghi, C. (2023). Xanthine oxidase inhibition and cardiovascular protection: Don't shoot in the dark. *European Journal of Internal Medicine*, 113, 10–12. <https://doi.org/10.1016/j.ejim.2023.04.006>
- Dianati, N. A. (2015). Gout And Hyperuricemia. In *J MAJORITY* | (Vol. 4).
- Duong, N. T., Vinh, P. D., Thuong, P. T., Hoai, N. T., Thanh, L. N., Bach, T. T., Nam, N. H., & Anh, N. H. (2017). Xanthine oxidase inhibitors from *Archidendron clypearia* (Jack.) I.C. Nielsen: Results from systematic screening of Vietnamese medicinal plants. *Asian Pacific Journal of Tropical Medicine*, 10(6), 549–556. <https://doi.org/10.1016/j.apjtm.2017.06.002>
- Edo, G. I., Ugbune, U., Onoharigho, F. O., Ezekiel, G. O., Ugbuwe, E., & Agbo, J. J. (2023). Investigation of the metal complexes and bioactive compound formed by coordination of bioactive phytochemical from ginger (*Zingiber officinale*) extracts to metal ions. *Food Chemistry Advances*, 3, 100337. <https://doi.org/10.1016/j.focha.2023.100337>
- Fathiah, F. (2022). Identifikasi Tanaman Jahe (*Zingiber officinale*) Berdasarkan Morfologi. *Agrifor: Jurnal Ilmu Pertanian Dan Kehutanan*, 2(21), 341–352.
- Hardisari, R., & Koiriyah, B. (2016). Gambaran Kadar Trigliserida (Metode Gpo-Pap) Pada Sampel Serum dan Plasma EDTA. In *www.teknolabjournal.com* (Vol. 5). www.teknolabjournal.com
- Haryudin, W., & Rostiana, O. (2016). Karakteristik Morfologi Bunga Kencur (*Kaempferia galanga* L.). *Buletin Penelitian Tanaman Rempah Dan Obat*, 109–116.
- Hasimun, P., Mulyani, Y., Rehulina, E., & Zakaria, H. (2020). Impact of Black Garlic on Biomarkers of Arterial Stiffness and Frontal QRS-T Angle on Hypertensive Animal Model. *Journal of Young Pharmacists*, 12(4), 338–342. <https://doi.org/10.5530/jyp.2020.12.88>

- Hasimun, P., & Zakaria, H. (2020). Pengaruh Kadar Trigliserida Terhadap Kekakuan Arteri Pada Model Hewan Tikus Wistar Jantan. *Kartika : Jurnal Ilmiah Farmasi*, 7(2), 102. <https://doi.org/10.26874/kjif.v7i2.307>
- Hayes, P. E., Matzke, G. R., & Talbert, R. (n.d.). *Past Editors OF Pharmacotherapy*.
- Helget, L. N., & Mikuls, T. R. (2022). Environmental Triggers of Hyperuricemia and Gout. *Rheumatic Disease Clinics of North America*, 48(4), 891–906. <https://doi.org/10.1016/j.rdc.2022.06.009>
- Jahromy, M. H., Baghchesara, B., & Javanshir, S. (2022). Effects of Allopurinol as a xanthine oxidase inhibitor on depressive-like behavior of rats and changes in serum BDNF level. *IBRO Neuroscience Reports*, 13, 373–377. <https://doi.org/10.1016/j.ibneur.2022.10.004>
- Kim, S. C., Neogi, T., Kang, E. H., Liu, J., Desai, R. J., Zhang, M., & Solomon, D. H. (2018). Cardiovascular Risks of Probenecid Versus Allopurinol in Older Patients With Gout. *Journal of the American College of Cardiology*, 71(9), 994–1004. <https://doi.org/10.1016/j.jacc.2017.12.052>
- Kojima, S., Matsui, K., Ogawa, H., Jinnouchi, H., Hiramitsu, S., Hayashi, T., Yokota, N., Kawai, N., Tokutake, E., Uchiyama, K., Sugawara, M., Kakuda, H., Wakasa, Y., Mori, H., Hisatome, I., Waki, M., Ohya, Y., Kimura, K., & Saito, Y. (2017). Rationale, design, and baseline characteristics of a study to evaluate the effect of febuxostat in preventing cerebral, cardiovascular, and renal events in patients with hyperuricemia. *Journal of Cardiology*, 69(1), 169–175. <https://doi.org/10.1016/j.jjcc.2016.02.015>
- laporan risquesdas 2018 nasional*. (2018).
- Li, K., Li, K., Yao, Q., Shui, X., Zheng, J., He, Y., & Lei, W. (2023). The potential relationship of coronary artery disease and hyperuricemia: A cardiometabolic risk factor. In *Heliyon* (Vol. 9, Issue 5). Elsevier Ltd. <https://doi.org/10.1016/j.heliyon.2023.e16097>
- Lin, L., Liu, X., & Zhao, M. (2018). Screening of xanthine oxidase inhibitor from selected edible plants and hypouricemic effect of Rhizoma Alpiniae Officinarum extract on hyperuricemic rats. *Journal of Functional Foods*, 50, 26–36. <https://doi.org/10.1016/j.jff.2018.09.024>
- Liu, C.-M., Kao, C.-L., Tseng, Y.-T., Lo, Y.-C., & Chen, C.-Y. (2017a). Ginger Phytochemicals Inhibit Cell Growth and Modulate Drug Resistance Factors in Docetaxel Resistant Prostate Cancer Cell. *Molecules*, 22(9), 1477. <https://doi.org/10.3390/molecules22091477>
- Liu, C.-M., Kao, C.-L., Tseng, Y.-T., Lo, Y.-C., & Chen, C.-Y. (2017b). Ginger Phytochemicals Inhibit Cell Growth and Modulate Drug Resistance Factors in Docetaxel Resistant Prostate Cancer Cell. *Molecules*, 22(9), 1477. <https://doi.org/10.3390/molecules22091477>
- Meng, Y., Hu, Y., Wei, M., Wang, K., Wang, Y., Wang, S., Hu, Q., Wei, H., & Zhang, Z. (2023). Amelioration of hyperuricemia by Lactobacillus acidophilus F02 with uric acid-lowering ability via modulation of NLRP3 inflammasome and gut microbiota homeostasis. *Journal of Functional Foods*, 111. <https://doi.org/10.1016/j.jff.2023.105903>

- Metias, Y. M., Hosny, M. M., Ayad, M. M., & Kaji, N. (2022). High - throughput spectrofluorimetric approach for one-step, sensitive, and green assays of alfuzosin hydrochloride using a 96-well microplate reader: Application to tablet formulations and human urine. *Talanta Open*, 6, 100139. <https://doi.org/10.1016/j.talo.2022.100139>
- Mukjerjee, S., & Karati, D. (2022). A mechanistic view on phytochemistry, pharmacognostic properties, and pharmacological activities of phytocompounds present in *Zingiber officinale*: A comprehensive review. *Pharmacological Research - Modern Chinese Medicine*, 5, 100173. <https://doi.org/10.1016/j.prmcm.2022.100173>
- Murugesan, S., Venkateswaran, M. R., Jayabal, S., & Periyasamy, S. (2020). Evaluation of the antioxidant and anti-arthritis potential of *Zingiber officinale* Rosc. by in vitro and in silico analysis. *South African Journal of Botany*, 130, 45–53. <https://doi.org/10.1016/j.sajb.2019.12.019>
- Nguyen, T. D., Thuong, P. T., Hwang, I. H., Hoang, T. K. H., Nguyen, M. K., Nguyen, H. A., & Na, M. (2017). Anti-Hyperuricemic, Anti-Inflammatory and Analgesic Effects of *Siegesbeckia orientalis* L. Resulting from the Fraction with High Phenolic Content. *BMC Complementary and Alternative Medicine*, 17(1), 191. <https://doi.org/10.1186/s12906-017-1698-z>
- Nile, S. H., & Park, S. W. (2015). Chromatographic analysis, antioxidant, anti-inflammatory, and xanthine oxidase inhibitory activities of ginger extracts and its reference compounds. *Industrial Crops and Products*, 70, 238–244. <https://doi.org/10.1016/j.indcrop.2015.03.033>
- Nur, M. U. (2022). Systematic Review Pemilihan Obat Asam Urat untuk Peradangan pada Persendian. *JOURNAL OF NONCOMMUNICABLE DISEASE*, 2(1), 1. <https://doi.org/10.52365/jond.v2i1.412>
- Ou, R., Lin, L., Zhao, M., & Xie, Z. (2020). Action mechanisms and interaction of two key xanthine oxidase inhibitors in galangal: Combination of in vitro and in silico molecular docking studies. *International Journal of Biological Macromolecules*, 162, 1526–1535. <https://doi.org/10.1016/j.ijbiomac.2020.07.297>
- Pertamawati & Mutia Hardhiyuna. (2015). Uji Penghambatan Aktivitas Enzim Xantin Oksidase Terhadap Ekstrak Kulit Kayu Secang (*Caesalpinia sappan* L.). *KARTIKA-JURNAL ILMIAH FARMASI*, 3(2), 13–16.
- PIAO, W., BO, Y. C., ZHAO, L. Y., & YU, D. M. (2022). Status of Serum Uric Acid and Hyperuricemia among Adults in China: China Nutrition and Health Surveillance (2015). *Biomedical and Environmental Sciences*, 35(10), 911–920. <https://doi.org/10.3967/bes2022.118>
- Riswana, I., & Mulyani, N. S. (2022). Faktor risiko yang mempengaruhi kadar asam urat pada penderita hiperurisemia di wilayah kerja Puskesmas Muara Satu Kota Lhokseumawe. *Darussalam Nutrition Journal*, 6(1), 29. <https://doi.org/10.21111/dnj.v6i1.6909>
- SETIAWAN, N. C. E. N. A. (2018). Inhibisi Xantin Oksidase oleh Ekstrak Daun Salam (*Syzygium polyanthum*). *JC-T (Journal Cis-Trans): Jurnal Kimia Dan Terapannya*, 2(1), 2(1), 26.
- Sinto, R., & I. A. W. (n. d.). (n.d.). *Challenges and opportunities h Editor*.

- Siska Ratna Dewi, Eko Sri Wahyuningsih, & Neni Sri Gunarti. (2023). obat obatan. *Jurnal Buana Farma*.
- Suharti, T. (2017). *Dasar-dasar spektrofotometri UV-Vis dan spektrometri massa untuk penentuan struktur senyawa organik*.
- Sulistyaningsih, T., Harjunowibowo, D., Wulandari, R., Rizka, A., Ika, U., Putri, R., Widya, A., Futri, R., & Rindiani, A. (2023). *TANAMAN HERBAL (JAHE, KATUK)*.
- Sulistyaningsih, T., Harjunowibowo, D., Wulandari, R., Ulfana, A. R., Putri, I. R., Rahmawati, A. W., & Rindiani, F. A. (2023). *Tanaman Herbal (Jahe, Katuk)*. Penerbit Tahta Media.
- Talebi, M., İlgün, S., Ebrahimi, V., Talebi, M., Farkhondeh, T., Ebrahimi, H., & Samarghandian, S. (2021). Zingiber officinale ameliorates Alzheimer's disease and Cognitive Impairments: Lessons from preclinical studies. In *Biomedicine and Pharmacotherapy* (Vol. 133). Elsevier Masson s.r.l. <https://doi.org/10.1016/j.biopha.2020.111088>
- Vargas-Santos, A. B., & Neogi, T. (2017). Management of Gout and Hyperuricemia in CKD. *American Journal of Kidney Diseases*, 70(3), 422–439. <https://doi.org/10.1053/j.ajkd.2017.01.055>
- Wang, H., Zhang, H., Zhang, X., Yin, Y., Ding, G., Tang, X., Hou, P., Sun, S., & Wang, W. (2023). Identification of coniferyl ferulate as the bioactive compound behind the xanthine oxidase inhibitory activity of Chuanxiong Rhizome. *Journal of Functional Foods*, 100. <https://doi.org/10.1016/j.jff.2022.105378>
- Wang, Y., Chinnathambi, A., Nasif, O., & Alharbi, S. A. (2021). Green synthesis and chemical characterization of a novel anti-human pancreatic cancer supplement by silver nanoparticles containing Zingiber officinale leaf aqueous extract. *Arabian Journal of Chemistry*, 14(4), 103081. <https://doi.org/10.1016/j.arabjc.2021.103081>
- Wu, X.-H., Wang, C.-Z., Wang, S.-Q., Mi, C., He, Y., Zhang, J., Zhang, Y.-W., Anderson, S., & Yuan, C.-S. (2015). Anti-hyperuricemia effects of allopurinol are improved by Smilax riparia, a traditional Chinese herbal medicine. *Journal of Ethnopharmacology*, 162, 362–368. <https://doi.org/10.1016/j.jep.2015.01.012>
- Xu, J., Tu, M., Fan, X., Guo, Y., Zhang, T., Zeng, X., Cai, Z., Wu, Z., & Pan, D. D. (2024). A novel strain of *Levilactobacillus brevis* PDD-5 isolated from salty vegetables has beneficial effects on hyperuricemia through anti-inflammation and improvement of kidney damage. *Food Science and Human Wellness*, 13(2), 898–908. <https://doi.org/10.26599/FSHW.2022.9250077>
- Yu, Z., Cao, Y., Kan, R., Ji, H., Zhao, W., Wu, S., Liu, J., & Shiuan, D. (2022). Identification of egg protein-derived peptides as xanthine oxidase inhibitors: virtual hydrolysis, molecular docking, and in vitro activity evaluation. *Food Science and Human Wellness*, 11(6), 1591–1597. <https://doi.org/10.1016/j.fshw.2022.06.017>
- Yunita, E. P., Fitriana, D. I., & Gunawan, A. (2018). Associations between Obesity, High Purine Consumptions, and Medications on Uric Acid Level with the Use

- of Allopurinol in Hyperuricemia Patients. *Indonesian Journal of Clinical Pharmacy*, 7(1), 1–9. <https://doi.org/10.15416/ijcp.2018.7.1.1>
- Yunitasari, N., Swasono, R. T., Pranowo, H. D., & Raharjo, T. J. (2022). Phytochemical screening and metabolomic approach based on Fourier transform infrared (FTIR): Identification of α -amylase inhibitor metabolites in *Vernonia amygdalina* leaves. *Journal of Saudi Chemical Society*, 26(6). <https://doi.org/10.1016/j.jscs.2022.101540>
- Zeng, N., Zhang, G., Hu, X., Pan, J., Zhou, Z., & Gong, D. (2018). Inhibition mechanism of baicalein and baicalin on xanthine oxidase and their synergistic effect with allopurinol. *Journal of Functional Foods*, 50, 172–182. <https://doi.org/10.1016/j.jff.2018.10.005>
- Zhao, Q., Meng, Y., Liu, J., Hu, Z., Du, Y., Sun, J., & Mao, X. (2022). Separation, identification and docking analysis of xanthine oxidase inhibitory peptides from pacific cod bone-flesh mixture. *LWT*, 167. <https://doi.org/10.1016/j.lwt.2022.113862>