

DAFTAR PUSTAKA

- Abelira, R. 2020. Peran Kurkumin Sebagai Terapi Pada Osteoarthritis. *Journal of Health Science and Physiotherapy*. 2(1): 106-110.
- Afriyana R., & Junando M. 2023. Potensial Ekstrak Herbal Kunyit (*Curcuma longa*) Sebagai Anti Bakteri dan Anti Inflamasi. *Agromedicine*. 10(1):128–132.
- Aggarwal ML, Chacko KM, Kuruvilla BT. 2016. Systematic And Comprehensive Investigation of The Toxicity Of Curcuminoid-Essential Oil Complex: A Bioavailable Turmeric Formulation. *Molecular Medicine Reports*. 13(1):592–604.
- Alfaro, R., A., & Davis, D., D. 2023. *Diclofenac*. StatPearls, Rockville Pike.
- Alzarea S., I., Alasmari A., F., Alanazi, A., S., Alzarea, A., I., Alharbi, M., Alshammari, A., *et al.* 2022. Butin Attenuates Arthritis in Complete Freund's Adjuvant-Treated Arthritic Rats: Possibly Mediated by Its Antioxidant and Anti-Inflammatory Actions. *Frontiers in Pharmacology*. 13:1–10.
- Amalraj, A, Pius, A, Gopi, S. 2017. Biological Activities Of Curcuminoids, Other Biomolecules From Turmeric and Their Derivatives – A Review. *Journal of Traditional and Complementary Medicine*. 7(2):205–233.
- Anuar A., H., B., S., Levita J. 2018. Review: Seledri *Apium graveolens*. Linn. Sebagai Tablet Anti-Inflamasi. *Farmaka*. 16(1):72–82.
- Apley A., G, & Solomon L. 2018. *Apley and Solomon's System of Orthopaedics and Trauma*. 10th Edition. Taylor & Francis Group, Boca Raton.
- Badan Pusat Statistik. 2023. Produksi Tanaman Biofarmaka (Obat), 2021-2022. [diunduh 2024 Apr 9]. Tersedia pada: <https://www.bps.go.id/id/statistics-table/2/NjMjMg==/produksi-tanaman-biofarmaka--obat-.html>.
- Badaring DR, Puspitha S, Sari M, Nurhabiba S, Wulan W, Anugrah S, *et al.* 2020. Uji Ekstrak Daun Maja (*Aegle marmelos* L.) terhadap Pertumbuhan Bakteri *Escherichia coli* dan *Staphylococcus aureus*. *Indonesian Journal of Fundamental Sciences*. 6(1):16–26.
- Ballester P, Cerdá B, Arcusa R, Marhuenda J, Yamedjeu K, Zafrilla P. 2022. Effect of Ginger on Inflammatory Diseases. *Molecules*. 27(21):1–13.
- Bashir N, Ahmad SB, Rehman MU, Muzamil S, Bhat RR, Mir M., *et al.* 2021. Zingerone (4-(four-hydroxy-3-methylphenyl) butane-two-1) modulates adjuvant-induced rheumatoid arthritis by regulating inflammatory cytokines and antioxidants. *Redox Report*. 26(1):62–70.
- Bhamidipati K, & Wei K. 2022. Precision medicine in rheumatoid arthritis. *Best Practice and Research: Clinical Rheumatology*. 36(1):1–18.
- Bischoff-Kont, I., Furst, R. 2021. Benefits of Ginger and Its Constituent 6-Shogaol

- in Inhibiting Inflammatory Processes. *Pharmaceuticals*. 14(6): 571.
- Bischoff-Kont I, Primke T, Niebergall LS, Zech T, Fürst R. 2022. Ginger Constituent 6-Shogaol Inhibits Inflammation- and Angiogenesis-Related Cell Functions in Primary Human Endothelial Cells. *Frontiers in Pharmacology*. 13:1–16.
- Burek DJ, Massaly N, Yoon HJ, Doering M, Morón JA. 2022. Behavioral Outcomes of Complete Freund Adjuvant-Induced Inflammatory Pain in The Rodent Hind Paw: A Systematic Review And Meta-Analysis. *Pain*. 163(5):809–819.
- Chauhan K, Jandu J., Brent L., Al-Dhahir MA. 2023. *Rheumatoid Arthritis*. StatPearls, Rockville Pike.
- Chen Y, Chen H, Li XC, Mi WL, Chu YX, Wang YQ, *et al.* 2022. Neuronal toll like receptor 9 contributes to complete Freund’s adjuvant-induced inflammatory pain in mice. *Frontiers in Molecular Neuroscience*. 15:1–11.
- Darekar SU, Nagrale DSN, Babar DVB, Pondkule A. 2023. Review On Ginger: Chemical Constituents & Biological Effects. *Journal of Pharmacognosy and Phytochemistry*. 12(6):267–271.
- Dellal A, Toumi-Benali F, Dif MM, Bouazza S, Brikhou S, Mekhfi N. 2018. Anti-inflammatory, analgesic and antioxidant activities of the hydroalcoholic extract from celery (*Apium graveolens*) leaves. *Phytotherapie*. 16(1):237–S244.
- Doyle L, Desomayanandam P, Bhuvanendran A, Thanawala S, Shah R, Somepalli V, *et al.* 2023. Safety and Efficacy of Turmeric (*Curcuma longa*) Extract and Curcumin Supplements in Musculoskeletal Health: A Systematic Review and Meta-Analysis. *Doyle-Safety and Efficacy of Turmeric Extract 12 Alternative Therapies*. 29(6):12–24.
- El-Ghany A, El-Ghany MA, Haniem A-, Ramadan M, Ghozy S. 2012. Nutraceutical Effects of Curcuma, Ginger, Celery, Yeast and Honey on Side Effects of Gentamicin Induced Nephrotoxicity in Rats. *World Applied Sciences Journal*. 16(5):646–655.
- Faridah, F., Junaidi, A.S., Hadi, P. 2023. Pemanfaatan Tanaman Obat Keluarga (TOGA) sebagai Alternatif Pengobatan Mandiri Nyeri Sendi. *Jurnal Abdimas Kesehatan*. 5(3): 611.
- Fernández-Lázaro D, Mielgo-Ayuso J, Calvo JS, Martínez AC, García AC, Fernandez-Lazaro CI. 2020. Modulation Of Exercise-Induced Muscle Damage, Inflammation, and Oxidative Markers By Curcumin Supplementation In A Physically Active Population: A Systematic Review. *Nutrients*. 12(2):1–20.
- Fuloria S, Mehta J, Chandel A, Sekar M, Rani NNIM, Begum MY, *et al.* 2022. A Comprehensive Review on the Therapeutic Potential of *Curcuma longa* Linn. in Relation to its Major Active Constituent Curcumin. *Frontiers in Pharmacology*. 13:1–27.doi:10.3389/fphar.2022.820806.

- Ghlichloo I, & Gerriets V. 2023. *Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)*. StatPearls, Rockville Pike.
- Gutiérrez RMP, Muñiz-Ramirez A, Garcia-Campoy AH, Flores JMM. 2021. Evaluation of The Antidiabetic Potential of Extracts of *Urtica dioica*, *Apium graveolens*, and *Zingiber officinale* in Mice, Zebrafish, and Pancreatic β -cell. *Plants*. 10(7):1438–1455.
- Hamman LL, Garba SH, Jacks TW, Zirahei JV, Dibal NI, Attah MOO. 2022. Acute Toxicity and Effect of Prolonged Oral administration of *Zingiber officinale* ethanol extract on Liver and Kidney Histology in Rats. *Arid Zone Journal of Basic and Applied Research*. 1(3):17–23.
- Handayani F, Adelina F, Tojang D, Syadiah EA. 2023. Pertumbuhan dan Produksi Tanaman Seledri (*Apium graveolens* L.) dengan Aplikasi Nutrisi Organik Melalui Sistem Hidroponik Growth and Production of Celery Plants (*Apium graveolens* L.) with the Application of Organic Nutrients Through Hydroponic Systems. *Jurnal Sumberdaya Hayati*. 9(4):134–137.
- Hassan AS, Hofni A, Abourehab MAS, Abdel-Rahman IAM. 2023. Ginger Extract–Loaded Transethosomes for Effective Transdermal Permeation and Anti-Inflammation in Rat Model. *International Journal of Nanomedicine*. 18:1259–1280.
- Hidayat R, Suryana BPP, Wijaya LK, Ariane A, Hellmi RY, Adnan E, *et al.* 2021. *Diagnosis dan Pengelolaan Arthritis Reumatoid*. Perhimpunan Reumatologi Indonesia, Jakarta.
- Hong, S., Dia, V.P., Zhong, Q. 2021. Synergistic Anti-Inflammatory Activity Of Apigenin and Curcumin Co-Encapsulated In Caseins Assessed With Lipopolysaccharide-Stimulated RAW 264.7 Macrophages. *International Journal of Biology Macromolecule*. 193: 702-12.
- Hujjatusnaini N, Ardiansyah, Indah B, Afritri E, Widyastuti R. 2021. *Buku Referensi Ekstraksi*. Insitut Agama Islam Negeri, Palangkaraya.
- Idacahyati K, Nofianti T, Aswa GA, Nurfatwa M. 2019. Hubungan Tingkat Kejadian Efek Samping Antiinflamasi Non Steroid dengan Usia dan Jenis Kelamin. *Jurnal Farmasi Dan Ilmu Kefarmasian Indones*. 6(2):56–61.
- Ilyas, S., Ishfaq, I., Fatima, K., Tariq, A., Shahzadi, K., Rashid, M., *et al.* 2024. Synergistic Effect of *Zingiber officinale* (Ginger) And *Curcuma longa* L. (Curcumin Analogs) For Anti- Inflammatory, Anti-Nociceptive Activity And Analgesic Potentials. *Journal of Population Therapeutics & Clinical Pharmacology*. 31(3): 1363-1369.
- Jabczyk M, Nowak J, Hudzik B, Zubelewicz-Szkodzińska B. 2021. Curcumin In Metabolic Health And Disease. *Nutrients*. 13(12):1–12.
- Kamankesh F, Ganji A, Ghazavi A. 2023. The Anti-inflammatory Effect of Ginger Extract on the Animal Model of Multiple Sclerosis. *Iranian Journal of Immunology*. 20(2):211–218.

- Kementerian Kesehatan Republik Indonesia. 2016. *Peraturan Menteri Kesehatan Republik Indonesia Nomor 6 Tahun 2016 Tentang Formularium Obat Herbal Asli Indonesia*. Kementerian Kesehatan Republik Indonesia, Jakarta.
- Kementerian Kesehatan Republik Indonesia. 2019. *Laporan Riskesdas 2018 Nasional*. Badan Penelitian dan Pengembangan Kesehatan, Jakarta.
- Lakhan, S., Ford, C., Tepper, D. 2015. Zingiberaceae Extracts For Pain: A Systematic Review and Meta-Analysis. *Nutrition Journal*. 14(1): 50.
- Larasati SP, & Jusnita N. 2020. Nanoemulsion Formulation Of Turmeric Extract (*Curcuma longa* L.) as an Antioxidant. *Journal of Pharmaceutical and Sciences*. 3(1):33–41.
- Lau H, Ni N, Dayal H, Lim SY, Ren Y, Li SFY. 2021. Evaluation Of Anti-Inflammatory Effects of Celery Leaf and Stem Extracts in Lps-Induced Raw 264.7 Cells Using Nitric Oxide Assay and Lc-Ms Based Metabolomics. *Current Issues in Molecular Biology*. 43(3):1876–1888.
- Letarouilly JG, Sanchez P, Nguyen Y, Sigaux J, Czernichow S, Flipo RM, *et al.* 2020. Efficacy of spice supplementation in rheumatoid arthritis: A systematic literature review. *Nutrients*. 12(12):1–12.
- Lin YJ, Anzaghe M, Schülke S. 2020. Update on the Pathomechanism, Diagnosis, and Treatment Options for Rheumatoid Arthritis. *Cells*. 9(4):1–43.
- Lingga IS, Citraningtyas G, Lolo WA. 2014. Uji Efek Ekstrak Etanol Patikan Kebo (*Euphorbia hirta* Linn.) Sebagai Diuretik pada Tikus Putih Jantan Galur Wistar (*Rattus norvegicus* sp.). *Pharmakon Jurnal Ilmiah Farmasi-Unsrat*. 3(3):287–293.
- Liu C, Li Y, Wen C, Yan Z, Olatunji OJ, Yin Z. 2022. Dehydrozingerone Alleviates Hyperalgesia, Oxidative Stress and Inflammatory Factors in Complete Freund's Adjuvant-Induced Arthritic Rats. *Drug Design, Development and Therapy*. 16:3015–3022.
- Luh N, Dewi PS, Kindang IW, Urbaningrum V. 2023. Hubungan Pengetahuan dengan Sikap Keluarga dalam Merawat Anggota Keluarga Pada Penderita Rheumatoid Arthritis Di Puskesmas Desa Balinggi. *Jurnal Ilmu Kesehatan Mandira Cendikia*. 2(9):340–348.
- Mao QQ, Xu XY, Cao SY, Gan RY, Corke H, Beta T, Li H Bin. 2019. Bioactive compounds and bioactivities of ginger (*Zingiber officinale* roscoe). *Foods*. 8(6):1–21.
- Marbaniang C, Malemnganbi Chanu T, Chanu TM. 2023. Determination of the Safe Dose of Aqueous Extract of *Apium graveolens* L. By Acute and Sub-Acute Toxicity Study. *Journal of Plant Science and Research*. 10(2):1–7.
- Mehrzadi, S., Khalili, H., Fatemi, I., Malayeri, A., Siahpoosh, A., Goudarzi, M. 2020. Zingerone Mitigates Carrageenan-Induced Inflammation Through Antioxidant and Anti-inflammatory Activities. *Inflammation*. 44: 186-193.
- Modlinska K, & Pisula W. 2020. The Natural History Of Model Organisms The

- Norway Rat, From An Obnoxious Pest To A Laboratory Pet. *Elife*. 9:1–13.
- Mueller AL, Payandeh Z, Mohammadkhani N, Mubarak SMH, Zakeri A, Bahrami AA, *et al.* 2021. Recent advances in understanding the pathogenesis of rheumatoid arthritis: New treatment strategies. *Cells*. 10(11):1–38.
- Mukhriani. 2014. Ekstraksi, Pemisahan, dan Identifikasi Senyawa Aktif. *Jurnal Kesehatan*. 7(2):361–367.
- Mulyani Y, Hasimun P, Nurjanah S. 2022. Subchronic Toxicity of *Curcuma longa* (Turmeric) Rhizoma Extract on Rats. *Majalah Obat Tradisional*. 27(2):111–119.
- Mus NM, Supriatno S, Arifuddin M, Samsul E. 2023. Aktivitas Antiinflamasi Ekstrak Metanol Kulit Batang Sengkuang pada Tikus Wistar yang Diinduksi CFA (Complete Freund's Adjuvant). *Jurnal Sains dan Kesehatan*. 5(3):268–274.
- Ngelu FY, Marbun FD, Sihombing AM, Manalu Y, Ate VRKM, Riswanto FDO. 2022. Potensi Ekstrak Seledri (*Apium graveolens* L.) Sebagai Antibakteri. *Jurnal Jamu Kusuma*. 2(1):23–29.
- Nishidono Y, Saifudin A, Nishizawa M, Fujita T, Nakamoto M, Tanaka K. 2018. Identification of the Chemical Constituents in Ginger (*Zingiber officinale*) Responsible for Thermogenesis. *Natural Product Communication*. 13(7):869–873.
- Nitiyoso N. 2020. Pilihan Pengobatan Arthritis Rematoid. *Cermin Dunia Kedokteran*. 47(4):251–255.
- Noh MA, Khir MN, Can I, Aishah Nazariah Ismail C. 2022. A Review on Complete Freund's Adjuvant-Induced Arthritic Rat Model: Factors Leading to its Success. *IMJM*. 21(4):3–12.
- Osmosis. 2019. *Osmosis High-Yield Pathology: Volume 1*. Osmosis, Washington DC.
- Öz B, Orhan C, Tuzcu M, Şahin N, Özercan İH, Demirel Öner P, *et al.* 2021. Ginger extract suppresses the activations of NF-κB and Wnt pathways and protects inflammatory arthritis. *Anatolian Journal Of Cardiology*. 8(4):196–201.
- Peng Y, Ao M, Dong B, Jiang Y, Yu L, Chen Z, *et al.* 2021. Anti-Inflammatory Effects Of Curcumin In The Inflammatory Diseases: Status, Limitations And Countermeasures. *Drug Design, Development and Therapy*. 15:4503–4525.
- Powanda MC, Whitehouse MW, Rainsford KD. 2015. Celery Seed And Related Extracts With Antiarthritic, Antiulcer, and Antimicrobial Activities. *Progress in Drug Research*. 70:133–153.
- Pubchems. 2023. Chemical Compound. [diunduh 2024 Apr 9]. Tersedia pada: <https://pubchem.ncbi.nlm.nih.gov/>
- Radu AF, & Bungau SG. 2021. Management of rheumatoid arthritis: An overview.

Cells. 10(11):1–33.

- Rahayu, MT, Afifah, Muflikhah, K. 2022. Efek Pemberian Ekstrak Etanol Seledri (*Apium graveolens* L.) Terhadap Kadar Asam Urat Pada Tikus Putih (*Sprague dawley*) Model Chronic Kidney Disease. *Mandala of Health*. 15(1): 30-40.
- Romão VC, & Fonseca JE. 2021. Etiology and Risk Factors for Rheumatoid Arthritis: A State-of-the-Art Review. *Frontiers in Medicine*. 8:1–20.
- Saleem A, Saleem M, Akhtar MF, Shahzad M, Jahan S. 2020. *Moringa rivae* Leaf Extracts Attenuate Complete Freund's Adjuvant-Induced Arthritis In Wistar Rats Via Modulation Of Inflammatory And Oxidative Stress Biomarkers. *Inflammopharmacology*. 28(1):139–151.
- Schweinfurth MK. 2020. The Social Life Of Norway Rats (*Rattus norvegicus*). *Elife*. 9:1–26.
- Seba, M.C, Matthew, A.T., Rekha, S., Prasobh, G.R. 2020. 6-Paradol, a Vital Compound of Medicinal Significance: A Concise Report. *International Journal of Research and Review*. 7(10): 2454-2237.
- Septiana E, Rahmawati SI, Izzati FN, Ahmadi P, Wulandari DA, Bustanussalam B, et al. 2023. Biological Activity of Celery Extract Using Different Extraction Methods. *Proceedings of the 1st International Conference for Health Research – BRIN (ICHR 2022)*. P:312–326.
- Shandy AD, Fauziah F, Hafizah Azzahro N, Tunnur Siregar W. 2023. Studi Literatur: Efektivitas Rimpang Indonesia Sebagai Anti Inflamasi. *Jurnal Inovasi Kesehatan Adaptif*. 5(5):177–188.
- Shep, D., Khanwelkar, C., Gade, P., Karad, S. 2019. Safety and Efficacy Of Curcumin Versus Diclofenac in Knee Osteoarthritis: A Randomized Open-Label Parallel-Arm Study. *Cellular and Molecular Immunology*. 20: 2014.
- Singhal S, Hasan N, Nirmal K, Chawla R, Chawla S, Kalra BS, et al. 2021. Bioavailable Turmeric Extract For Knee Osteoarthritis: A Randomized, Non-Inferiority Trial Versus Paracetamol. *Trials*. 22(1):1–11.
- Styawan AA, Susidarti RA, Purwanto, Windarsih A, Rahmawati N, Sholikhah IKM, et al. 2022. Review on Ginger (*Zingiber officinale* Roscoe): Phytochemical Composition, Biological Activities And Authentication Analysis. *Food Research*. 6(4):443–454.
- Sulistyaningsih T, Harjunowibowo D, Wulandari R, Rizka A, Ika U, Putri R, et al. 2023. *Tanaman Herbal (Jahe, Katuk)*. Tahta Media Group, Semarang.
- Sun S, Du Y, Li S, Gao B, Xia R, Cao W, et al. 2021. Anti-Inflammatory Activity Of Different Isolated Sites Of *Chloranthus serratus* In Complete Freund's Adjuvant-Induced Arthritic Rats . *Experimental and Therapeutic Medicine*. 22(2):848–860.
- Susanto Y, Solehah FA, Fadya A, Khaerati K. 2023. Potensi Kombinasi Ekstrak Rimpang Kunyit (*Curcuma longa* L.) dan Kapur Sirih Sebagai Anti

- Inflamasi dan Penyembuh Luka Sayat. *JPSCR: Journal of Pharmaceutical Science and Clinical Research*. 8(1):32–45.
- Susila AH, Sumarno, Dewi SLI D. 2014. Efek Ekstrak Jahe (*Zingiber officinale* Rosc.) terhadap Penurunan Tanda Inflamasi Eritema pada Tikus Putih (*Rattus novergicus*) Galur Wistar dengan Luka Bakar Derajat II. *Majalah Kesehatan FKUB*. 1(4):214–222.
- Uchio R, Kawasaki K, Okuda-Hanafusa C, Saji R, Muroyama K, Murosaki S, *et al.* 2021. *Curcuma longa* Extract Improves Serum Inflammatory Markers And Mental Health In Healthy Participants Who Are Overweight: A Randomized, Double-Blind, Placebo-Controlled Trial. *Nutrition Journal*. 20(1):1–14.
- Uthia, R., Oktaviani, I., Jannah, F., Arifin, H., Afdhal H. 2023. Efek Antiinflamasi Ekstrak Etanol Daun Kersen (*Muntingia Calabura L.*) pada Tikus Putih Jantan Galur Wistar. *Jurnal Proteksi Kesehatan*. 12(1): 1-6.
- Wakhidah, AZ. 2021. Review: Seledri (*Apium Graveolens L.*): Botani, Ekologi, Fitokimia, Bioaktivitas, dan Pemanfaatan. *Journal Pro-Life*. 8(2):156–167.
- Wali AF, Rehman MU, Raish M, Kazi M, Rao PGM, Alnemer O, *et al.* 2020. Zingerone [4-(3-Methoxy-4-hydroxyphenyl)-butan-2] Attenuates Lipopolysaccharide-Induced Inflammation and Protects Rats from Sepsis Associated Multi Organ Damage. *Molecules*. 25(21):1–15.
- Wang Y ting, Lu K, Yao D dan, Zhang S xia, Chen G. 2023. Anti-Inflammatory and Analgesic Effect of Forsythiaside B on Complete Freund's Adjuvant-Induced Inflammatory Pain in Mice. *Biochemical and Biophysical Research Communications*. 645:55–60.
- Wardani NK, & Masduchi RH. 2019. Rheumatoid Arthritis. *Surabaya Physical Medicine and Rehabilitation Journal*. 1(1):33–37.
- Wati DP. 2024. *Prinsip Dasar Tikus sebagai Model Penelitian*. USUpress, Medan.
- West SG. 2015. *Rheumatology Secrets*. 3rd Edition. Elsevier, Philadelphia.
- WHO. 2023 Jun 28. Rheumatoid arthritis. [diunduh 2024 Apr 9]. Tersedia pada: <https://www.who.int/news-room/fact-sheets/detail/rheumatoid-arthritis>.
- Winardi, D.O., Alliyah, S.A., Fadilah, S.N., Sirait, J., Putra, H.B.A., Neli, N., *et al.* 2023. In Silico and In Vitro Studies on Compounds in Turmeric (*Curcuma domestica*) as Anti-inflammatory for Cyclooxygenase-2 (COX-2). *Indonesian Journal of Pharmaceutical Science and Technology*. 1(1): 100-111.
- Worasing, K., Sungthong, B., Phimarn, W. 2023. Effectiveness of Zingiber montanum Herbal Compress Remedy for Pain Management: An Updated Systematic Review and Meta-Analysis. *Scientia Pharmaceutica*. 91(24):1-12.
- Wu D, Luo Y, Li T, Zhao X, Lv T, Fang G, *et al.* 2022. Systemic Complications Of Rheumatoid Arthritis: Focus On Pathogenesis And Treatment. *Frontiers in*

Immunology. 13:1–13.

- Wulandari DI, Fitriainingsih SP, Mulqie L, Farmasi P, Matematika F, Ilmu D, *et al.* 2016. Uji Aktivitas Antiinflamasi Ekstrak Etanol Herba Seledri (*Apium graveolens* L.) terhadap Tikus Wistar Jantan. *Prosiding Farmasi*. 2(1):59–66.
- Xia Z B, Meng FR, Fang YX, Wu X, Zhang CW, Liu Y, *et al.* 2018. Inhibition of NF-Kb Signaling Pathway Induces Apoptosis And Suppresses Proliferation And Angiogenesis of Human Fibroblast-Like Synovial Cells in Rheumatoid Arthritis. *Medicine (United States)*. 97(23):1–7.
- Zam ANZ, Ida N, Irfayanti NA, Radiatunnisa. 2023. Pengaruh Variasi Konsentrasi Kombinasi Ekstrak Etanol Rimpang Kunyit (*Curcuma longa* Linn.) dan Ekstrak Etanol Kunyit Putih (*Curcuma zedoaria* Rosc.) terhadap Mutu Fisik Gel Effect of Variation Concentration Combination of Turmeric Rhizome Ethanol Extract (*Curcuma longa* Linn.) and White Turmeric Ethanol Extract (*Curcuma zedoaria* Rosc.) on the Physical Quality of Gel. *Jurnal Novem Medika Farmasi*. 1(3):62–74.
- Zeng, Z., Gong, X., Hu, Z. 2020. L-3-n-butylphthalide Attenuates Inflammation Response and Brain Edema in Rat Intracerebral Hemorrhage Model. *Impact Journal on Aging*. 12(12): 11768-11780.
- Zeng L, Yang T, Yang K, Yu G, Li J, Xiang W, *et al.* 2022a. Efficacy and Safety of Curcumin and *Curcuma longa* Extract in the Treatment of Arthritis: A Systematic Review and Meta-Analysis of Randomized Controlled Trial. *Frontiers in Immunology*. 13:1–20.
- Zeng L, Yu G, Hao W, Yang K, Chen H. 2021. The Efficacy and Safety of Curcuma Longa Extract and Curcumin Supplements on Osteoarthritis: A systematic Review and Meta-Analysis. *Bioscience Reports*. 41(6):1–20.
- Zeng Z, Yan K, Liu W. 2022b. Specneuzhenide Ameliorate Complete Freund Adjuvant Induced Arthritis in Rats: Involvement of NF-κB and HO-1/Nrf-2 Pathway. *Journal of Oleo Science*. 71(4):551–561.
- Zhang, S., Li, Y., Tu, Y. 2021a. Lidocaine Attenuates CFA-Induced Inflammatory Pain in Rats by Regulating The MAPK/ERK/NF-Kb Signaling Pathway. *Experimental and Therapeutic Medicine*. 21: 211.
- Zhang W, Lyu J, Xu J, Zhang P, Zhang S, Chen Y, *et al.* 2021b. The Related Mechanism of Complete Freund's Adjuvant-Induced Chronic Inflammation Pain Based on Metabolomics Analysis. *Biomedical Chromatography*. 35(4):1–19.
- Zhou X, Afzal S, Wohlmuth H, Münch G, Leach D, Low M, *et al.* 2022. Synergistic Anti-Inflammatory Activity of Ginger and Turmeric Extracts in Inhibiting Lipopolysaccharide and Interferon-γ-Induced Proinflammatory Mediators. *Molecules*. 27(12):1–17.