

DAFTAR PUSTAKA

- Amitjitraresmu, 1995. Penelitian Tanaman Obat di beberapa Perguruan Tinggi di Indonesia (29), 113–114.
- Ariyanti, T., Fazrina, R.I., Darmono, 2007. Pengaruh Ekstrak Etanol Daun Iler (*Coleus atropurpureus* L. Benth) Terhadap Infeksi *Salmonella enteritidis* Pada Mencit (*Mus Musculus*). *Seminar Nasional Teknologi Peternakan Dan Veteriner*, 799–806.
- Ashley, N.T., Weil, Z.M., Nelson, R.J., 2012. Inflammation: Mechanisms, Costs, and Natural Variation. *Annual Review of Ecology, Evolution, and Systematics*, 43, 385–406.
- Asiamaya, 2021. Iler (*Coleus atropurpureus* L. Benth) http://www.asimaya.comjamuisiilr_coleusatropurpureus.htm, accessed tanggal 5 September 2021.
- Baggiolini, M., Sorgh, C., 1992. Interleukin-8 (NAP-1) and Related Chemotactic Cytokines., Perspectives in Public Health. Karger Medical and Scientific Publishers.
- Bani, S., Kaul, A., Khan, B., Gupta, V.K., Satti, N.K., Suri, K.A., Qazi, G.N., 2007. Anti-arthritis Activity of a Biopolymeric Fraction from *Euphorbia Tirucalli*. *Journal of Ethnopharmacology*, 110(1), 92–98.
- Basha, F.Y.S., Rajeshkumar, S., Raj, S.S., 2020. Uses of Medicinal Plants for Anti-Inflammatory Activity. *European Journal of Molecular & Clinical Medicine*, 07(1), 1839–1843.
- Biddle, K., & Sofat, N. 2020. Rheumatoid Arthritis-Other Perspectives Towards a Better Practice. In IntechOpen, London.
- Billiau, A., Matthys, P., 2001. Modes of action of Freund's adjuvants in experimental models of autoimmune diseases. *Journal of Leukocyte Biology*, 70(6), 849–860.
- Campbell, L.M., Maxwell, P.J., Waugh, D.J.J., 2013. Rationale and Means to Target Pro-Inflammatory Interleukin-8 (CXCL8) Signaling In Cancer, *Pharmaceuticals*. 6, 929–959.
- Chen, C., Su, X., Hu, Z., 2019. Immune Promotive Effect of Bioactive Peptides May Be Mediated by Regulating The Expression of SOCS1/Mir-155. *Experimental and Therapeutic Medicine*, 18, 1850–1862.
- Chiadak, J.D., Arsenijevic, T., Verstrepen, K., Gregoire, F., Bolaky, N., Delforge, V., Flamand, V., Perret, J., Delporte, C., 2016. Forskolin Inhibits Lipopolysaccharide-Induced Modulation Of MCP-1 and GPR120 In 3T3-L1 Adipocytes Through an Inhibition of Nfk B. *Mediators of Inflammation*, 2016.
- Chillingworth, N.L., Donaldson, L.F., 2003. Characterisation of a Freund's complete adjuvant-induced model of chronic arthritis in mice. *Journal of Neuroscience Methods*, 128(1–2), 45–52.

- Choudhary, M., Kumar, V., Gupta, P., Singh, S., 2014. Investigation of Antiarthritic Potential of *Plumeria Alba* L. Leaves In Acute And Chronic Models of Arthritis. *BioMed Research International*, 1-11.
- Cragg, G.M., Newman, D.J., 2013. Natural Products: A Continuing Source of Novel Drug Leads. *Biochimica et Biophysica Acta*, 1830(6), 3670-3695.
- Cui, X., Wang, R., Bian, P., Wu, Q., Seshadri, V.D.D., Liu, L., 2019. Evaluation of Antiarthritic Activity of Nimbolide Against Freund's Adjuvant Induced Arthritis In Rats. *Artificial Cells, Nanomedicine and Biotechnology*, 47(1), 3391-3398.
- Deshmane, S.L., Kremlev, S., Amini, S., Sawaya, B.E., 2009. Monocyte Chemoattractant Protein-1 (MCP-1): An Overview. *Journal of Interferon and Cytokine Research*, 29(6), 313-325.
- Detrick, B.N., Naginemi, C., Hook, J., 2008, Cytokines: Regulators of Immune Responses and Key Therapeutic Targets, dalam O'Gorman, M.R.G., Donnenberg, A.D. (Eds.), *Handbook of Human Immunology*, second edition, CRC Press.
- Djunarko, I., Fakhrudin, N., Nurrochmad, A., Wahyuono, S., 2022. In vivo Anti-Inflammatory Activity of *Coleus atropurpureus* Leaves Extract and Fractions. *Tropical Journal of Natural Product Research*, 6(1), 40-43.
- El-Tanbouly, G.S., Abdelrahman, R.S., 2022. Novel Anti-Arthritic Mechanisms of Trans-Cinnamaldehyde Against Complete Freund's Adjuvant-Induced Arthritis In Mice: Involvement Of NF-Kb/TNF-A And IL-6/IL-23/ IL-17 Pathways In The Immuno-Inflammatory Responses. *Inflammopharmacology*, 30(5), 1769-1780.
- Faisal, R., Ahmad, N., Fahad, Y.S., Chiragh, S., 2018. Anti-Arthritic Effect of Thymoquinone In Comparison With Methotrexate on Pristane Induced Arthritis in Female Sprague Dawley Rats. *Journal of Ayub Medical College, Abbottabad : JAMC*, 30(1), 3-7.
- Fakhrudin N, Khairunnisa SY, Azzahra A, Ajiningtyas RJ. Study of radical scavenger activity, total phenol and flavonoid contents of *Artocarpus altilis* leaves extracts. *Int J Pharm Clin Res*. 2016; 8:352-356.
- Fakhrudin, N., Pertiwi, K.K., Takubessi, M.I., Susiani, E.F., Nurrochmad, A., Widyarini, S., Sudarmanto, A., Nugroho, A.A., Wahyuono, S., 2020. A Geranylated Chalcone with Antiplatelet Activity from The Leaves of Breadfruit (*Artocarpus altilis*). *Pharmacia*, 67(4), 173-180.
- Fan, A.Y., Lao, L., Zhang, R.X., Zhou, A.N., Wang, L.B., Moudgil, K.D., Lee, D.Y.W., Ma, Z.Z., Zhang, W.Y., Berman, B.M., 2005. Effects of an Acetone Extract of *Boswellia Carterii* Birdw. (Burseraceae) Gum Resin on Adjuvant-Induced Arthritis in Lewis Rats. *Journal of Ethnopharmacology*, 101, 104-109.
- Fox, D.A., 2000. Cytokine Blockade as a New Strategy to Treat Rheumatoid Arthritis: Inhibition of Tumor Necrosis Factor. *Archives of Internal Medicine*, 160(4), 437-444.
- Gabay, C., 2006. Interleukin-6 and Chronic Inflammation. *Arthritis Research and Therapy*, 8 (2), 1-6.
- Goldsby, R., Kindt, T.J., Orbone, B.S., 2002. Adult T cell leukemia/lymphoma, 5th ed. W H Freeman.

- Guyton, A.C., 2006. Medical Physiology, 11th ed, Physiology. Elsevier Inc., Philadelphia.
- He, Y., Zhou, M., Jian, Z., Fang, L., Huang, L., Song, J., 2022. C-Reactive Protein Knockout Attenuates Temporomandibular Joint Inflammation in Rats. *Journal of Immunology Research*, 1-20.
- Heilborn, U., Berge, O.G., Arborelius, L., Brodin, E., 2007. Spontaneous Nociceptive Behaviour in Female Mice With Freund's Complete Adjuvant- and Carrageenan-Induced Monoarthritis. *Brain Research*, 1143(1), 143-149.
- Heldin CH, Lu B, Evans R, Gutkind JS. Signals and receptors. Cold Spring Harb Perspect Biol. 2016; 8(4):a005900.
- Iqbal H. and Singh D. Antioxidants: A Brief Review. South Asian Res J Med Sci. 2019; 1:36-39.
- Jazayeri, J.A., Carroll, G.J., Vernallis, A.B., 2010. Interleukin-6 Subfamily Cytokines and Rheumatoid Arthritis: Role of Antagonists. *International Immunopharmacology* 10(1), 1-8.
- Ji, W.T., Chen, H.R., Lin, C.H., Lee, J.W., Lee, C.C., 2014. Monocyte Chemotactic Protein 1 (MCP-1) Modulates Pro- Survival Signaling to Promote Progression of Head and Neck Squamous Cell Carcinoma. *PLoS ONE*, 9(2), 1-8.
- Karthika, K., Jamuna, S., Abinaya, G., Venkatachalapathi, A., Thenmozhi, K., Paulsamy, S., 2016. Evaluation of Antiinflammatory and Antioxidant Properties of Crude Extract and Forskolin from Solena Amplexicaulis Leaf. *Indian Journal of Pharmaceutical Sciences*, 78(3), 377-387.
- Khan, F.A., Khan, M.F., 2010. Inflammation and Acute Phase Response. *International Journal of Applied Biology and Pharmaceutical Technology*, 1(2), 312-321.
- Kumar, V.L., Roy, S., Sehgal, R., Padhy, B.M., 2006. A Comparative Study on The Efficacy of Rofecoxib In Monoarticular Arthritis Induced by Latex of Calotropis Procera and Freund's Complete Adjuvant. *Inflammopharmacology*, 14, 17-21.
- Kumar, V., Abbas, A.K., Aster, J.C., 2007, *Robbins Basic Pathology*, Elsevier Health Sciences
- Laird, J.M.A., Carter, A.J., Grauert, M., Cervero, F., 2001. Analgesic Activity of a Novel Use-Dependent Sodium Channel Blocker, Crobenetine, in Mono-Arthritic Rats. *British Journal of Pharmacology*, 134(8), 1742-1748.
- Lenny, S., Barus, T., Marpaung, L., Pandapotan Nasution, M., 2013. Structure Elucidation of Flavonoid Compound from The Leaves Of *Coleus atropurpureus* Benth Using 1D- And 2D-NMR Techniques. *Malaysian Journal of Analytical Sciences*, 17(2), 255-261.
- Maseda, D., Ricciotti, E., 2020. NSAID-Gut Microbiota Interactions. *Frontiers in Pharmacology*, 11(August), 1-20.
- Matsuno, H., Yudoh, K., Katayama, R., Nakazawa, F., Uzuki, M., Sawai, T., Yonezawa, T., Saeki, Y., Panayi, G.S., Pitzalis, C., Kimura, T., 2002. The Role of TNF-A in The Pathogenesis of Inflammation and Joint Destruction in Rheumatoid Arthritis (RA): A Study Using a Human RA/SCID Mouse Chimera. *Rheumatology*, 41(3), 329-337.

- Mpila, D., Fatimawali, Wiyono, W.I., 2012. Uji Aktivitas Antibakteri Daun Mayana (*Coleus atropurpureus* [L] Benth) terhadap *Staphylococcus aureus*, *Escherichia coli* dan *Pseudomonas aeruginosa* Secara in-vitro. *Pharmakon*, 1(1), 13-21.
- Murakami, M., Hirano, T., 2012. The Molecular Mechanisms of Chronic Inflammation Development. *Frontiers in Immunology*, 3, 1-2.
- Nallasamy, P., Si, H., Babu, P.V.A., Pan, D., Fu, Y., Brooke, E.A.S., Shah, H., Zhen, W., Zhu, H., Liu, D., Li, Y., Jia, Z., 2014. Sulforaphane Reduces Vascular Inflammation in Mice and Prevents TNF- α -Induced Monocyte Adhesion to Primary Endothelial Cells Through Interfering with The NF- κ B Pathway Palanisamy. *J Nutr Biochem*, 25(8), 824-833.
- Negm, A.A., Furst, D.E., 2022. Nonsteroidal Anti-Inflammatory Drugs, Disease-Modifying Antirheumatic Drug, Nonopioid Analgesics dan Drug Used in Gout, McGraw-Hill Medical.
- Newton, R.C., Decicco, C.P., 1999. Therapeutic Potential and Strategies for Inhibiting Tumor Necrosis Factor- α . *Journal of Medicinal Chemistry*, 42(13), 2295-2314.
- Niki, Y., Yamada, H., Kikuchi, T., Toyama, Y., Matsumoto, H., Fujikawa, K., Tada, N., 2004. Membrane-Associated IL-1 Contributes to Chronic Synovitis and Cartilage Destruction in Human IL-1 α Transgenic Mice. *The Journal of Immunology*, 172(1), 577-584.
- Noh, A.S.M., Chuan, T.D., Khir, N.A.M., Zin, A.A.M., Ghazali, A.K., Long, I., Ab Aziz, C.B., Ismail, C.A.N., 2021. Effects of Different Doses of Complete Freund's Adjuvant on Nociceptive Behaviour and Inflammatory Parameters in Polyarthritic Rat Model Mimicking Rheumatoid Arthritis. *PLoS ONE*, 16, 1-24.
- Nourshargh, S., Alon, R., 2014. Leukocyte Migration Into Inflamed Tissues. *Immunity*, 41(5), 694-707.
- Okamoto, H., Cujec, T.P., Yamanaka, H., Kamatani, N., 2008. Molecular Aspects of Rheumatoid Arthritis: Role of Transcription Factors. *FEBS Journal*, 275(18), 4463-4470.
- National Aboriginal Health Organization, 2012. Integrating Traditional Medicines Into Western Medical Treatment.
- Patel, R., Kadri, S., Gohil, P., Deshpande, S., Shah, G., 2021. Amelioration of Complete Freund's Adjuvant-Induced Arthritis by Calotropis Procera Latex in Rats. *Future Journal of Pharmaceutical Sciences*, 7(1), 1-11.
- Popa, C., Netea, M.G., Van Riel, P.L.C.M., Van Der Meer, J.W.M., Stalenhoef, A.F.H., 2007. The Role Of TNF- α in Chronic Inflammatory Conditions, Intermediary Metabolism, and Cardiovascular Risk. *Journal of Lipid Research*, 48(4), 751-752.
- Porth, C.M., 2006. Essentials of Pathophysiology: Concepts of Altered Health States, 2nd ed. Lippincott Williams & Wilkins.
- Qian, H., Yuan, H., Wang, J., Du, Y., Zhang, X., Sun, Y., Li, Z., Zhao, W., 2014. A Monoclonal Antibody Ameliorates Local Inflammation and Osteoporosis By Targeting TNF- α and RANKL. *International Immunopharmacology*, 20(2), 370-376.

- Raker VK, Becker C, Steinbrink K. The cAMP pathway as therapeutic target in autoimmune and inflammatory diseases. *Front Immunol.* 2016; 7:123. 26.
- Ramsay, R.R., Popovic-Nikolic, M.R., Nikolic, K., Uliassi, E., Bolognesi, M.L., 2018. A Perspective on Multi-Target Drug Discovery and Design for Complex Diseases. *Clinical and Translational Medicine*, 7(1).
- Sagala, N., 2013. Efek Antiinflamasi Kombinasi Infusa Daun Iler Infusa Daun Iler (*Coleus atropurpureus* L. Benth) Dosis 140 mg/KgBB dengan Bunga Telang (*Clitoria ternatea* L.) Dosis 328; 655; 1310 mg/KgBB pada Udemata Telapak Kaki Mencit Betina Terinduksi Karagenin dengan Pengukuran Jangka Sorong. *Skripsi*, Universitas Sanata Dharma.
- Saragih, R.M., 2011. Isolasi Senyawa Flavonoid dari Tumbuhan Iler (*Coleus atropurpureus* Benth). *Skripsi*, Universitas Sumatera Utara.
- Saritha, T., Balaji, A., A, J., 2015. Design and Evaluation of Flurbiprofen mucoadhesive microspheres. *International Journal of Current Pharmaceutical Research*, 7(3), 17-21.
- Scheller, J., Chalaris, A., Schmidt-Arras, D., Rose-John, S., 2011. The pro- and anti-inflammatory properties of the cytokine interleukin-6. *Biochimica et Biophysica Acta - Molecular Cell Research*, 1813(5), 878-888.
- Serhan, C.N., Ward, P.A., Gilroy, D.W., 2010. *Fundamentals of Inflammation*, Cambridge University Press.
- Singh, B., Bani, S., Gupta, D.K., Chandan, B.K., Kaul, A., 2003. Anti-Inflammatory Activity of "TAF" an Active Fraction from The Plant *Barleria Prionitis* Linn. *Journal of Ethnopharmacology*, 85(2-3), 187-193.
- Stills, H.F., 2005. Adjuvants and Antibody Production: Dispelling The Myths Associated with Freund's Complete and Other Adjuvants. *ILAR Journal*, 46(3), 280-293.
- Tulandi, T. dan Redwine, D., 2003, *Endometriosis: Advances and Controversies*, CRC Press.
- Verawati, V., Aria, M., Dira, D., Maisa, S., & Maharani, A. 2016. Chemical Characterization and Anti-inflammatory Activity of Piladang Leaf (*Coleus Atropurpureus*) Extract. *Journal of Chemical and Pharmaceutical Sciences*, 9(4), 2496-2499.
- Yang, J., Cai, H. Da, Zeng, Y.L., Chen, Z.H., Fang, M.H., Su, Y.P., Huang, H.H., Xu, Y., Yu, C.X., 2016. Effects of Koumine on Adjuvant and Collagen-Induced Arthritis in Rats. *Journal of Natural Products*, 79(10), 2635-2643.
- Zhang, A., Lee, Y.C., 2018. Mechanisms for Joint Pain in Rheumatoid Arthritis (RA): from Cytokines to Central Sensitization. *Current Osteoporosis Reports*, 16(5), 603-610.