

DAFTAR PUSTAKA

- Abbas, A.K., Lichtman, A.H., Pillai, S. 2016, *Basic Immunology: Functions and Disorders of The Immune System 5th Edition*, Elsevier, California, 15-18.
- Amdekar, S., Purabi, R., Vinod, S., Avnish, K., Rambir, S., Poonam, S., 2011, Anti-inflammatory Activity of Lactobacillus on Carragenan-Induced Paw Edema in Male Wistar Rats, *International Journal of Inflammation*, 2012: 1-6.
- Arsiningtyas, I.S., 2009, Pengaruh Stress Terhadap Daya Antiinflamasi Kalium Diklofenak pada Mencit Putih Betina, *Skripsi*, Jurusan Farmasi Universitas Santa Dharma, Yogyakarta.
- Aryaeian, N., Hajar, T., 2015, Ginger and Its Effect on Inflammatory Disease, *Advanced in Food Technology and Nutritional Sciences*, 1(4): 97-101.
- Azizah, B., Salamah, N., 2013, Standarisasi Parameter Non Spesifik dan Perbandingan Kadar Kurkumin Ekstrak Etanol dan Ekstrak Terpurifikasi Rimpang Kunyit, *Jurnal Ilmiah Kefarmasian*, 1 (3): 21-30.
- Bacchi, S., Palumbo, P., Sponta, A., Coppolino, C., 2012, Clinical Pharmacology of Non-Steroidal Anti-Inflammatory Drugs: A Review, *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry*, 11(1): 52-66.
- Barth, C.R., Funchal, G.A., Luft, C., Oliveria, J.R.D., Porto, B.N., Donadio, M.F., 2016, Carrageenan-Induced Promotes ROS Generation And Neutrophil Extraceluller Trap Formation In A Mouse Model of Peritonitis, *European Journal of Immunology*, 46(4): 964-970.
- Blumenthal, K.G., Kenneth, H.L., Mingshu, H., Zachary, S.W., Paige, G.W., Li, Z., 2017., Adverse and Hypersensitivity Reaction to Prescription Nonsteroidal Anti-Inflammatory Agents in a Large Health Care System. *Journal of Allergy Clinnic Immunology Practice*, 5(3): 737-748.
- CAB Internatioan, 2020, Invasive Species Compendium: *Zingiber officinale* (ginger), diakses pada 14 Januari 2020, pukul 12.40 WIB, <https://www.cabi.org/isc/datasheet/57537>.

- Caughey, G.E., Cleland, L.G., Penglis, P.S., Gamble, J.R., dan James, M.J., 2001 Roles of Cyclooxygenase (COX)-1 and COX-2 in Prostanoid Production by Human Endothelial Cells: Selective Up-Regulation of Prostacyclin Synthesis by COX-2, *J Immunol*, 167(5): 1-8.
- Chaiwongsa, R., Siriwan, O., Phorani, B., Prachya, K., Ampai, P., Vichai, R., 2013, Active Compound of Zingiber cassamunar roxb Down Regulates The Expression of Genes Involved In Joint Erosion In A Human Synovial Fibroblast Cell Line, *Afr J Tradit Complement Altern Med*, 10(1): 40-48.
- Chen, L., Huidan, D., Hengmin, C., Jin, F., Zhicai, Z., Junliang, D., Yinglun, L., Xun, W, m Ling Z., 2018, Inflammatory Responses and Inflammation-Associated Diseases in Organs, *Oncotarget*, 9(6): 7204-7218.
- Datiles, M.J., Pedro, A.R. 2014. *Zingiber montanum (Cassumunar ginger)*, diakses pada 7 November 2019, Pukul 22:31 WIB, <https://www.cabi.org/isc/datasheet/57536>.
- Departemen Kesehatan Republik Indonesia, 2011, *Farmakope Herbal Indonesia*, Jakarta: Departemen Kesehatan Republik Indonesia.
- [Fitriani, H., Ria, D. J., Mareta, W., 2018, Karakteristik Morfologi dan Anatomi Jahe \(*Zingiber officinale*\) Berdasarkan Perbedaan Ketinggian Tempat Sebagai Booklet untuk Mata Kuliah Morfologi dan Anatomi Tumbuhan, *STKIP-PGRI-Lubuklingau*, 1-10.](#)
- Galanakis, C.M., 2017, *Handbook of Grape Processing by-Products: Sustainable Solutions*, Elsevier books, 118.
- Hanahan, D., Weinberg, R.A., 2011, Hallmarks of Cancer: The Next Generation, *Cell*, 144 (5), 646-74.
- Handrianto, P, 2016, Uji Anti Bakteri Ekstrak Jahe Merah (*Zingiber officinale var rubrum*) Terhadap *Staphylococcus aureus* dan *Eschericia Coli*, *Journal of Research Technology*, 2(1): 1-4.
- Ikawati, Z., 2019, *Farmakologi Molekuler*, Gadjah Mada University Press, Yogyakarta, 41, 141.
- Jin, J., 2015, Patient Page: Nonsteroidal Anti-Inflammatory Drugs, *JAMA*, 314: 1088.

- Kandy, A.P 2016, Uji Aktivitas Antiinflamasi Kombinasi Ekstrak Etanol Jahe Merah (*Zingiber officinale* var rubrum) dan Daun Sidaguri (*Sida rhombifolia* L.) Terhadap Jumlah Neutrofil Tikus yang Diinduksi Karagenan, *Skripsi*, Jurusan Farmasi Universitas Jember, Jember.
- Katzung, B. G., Masters, S. B., dan Trevor, A. J., 2009, *Basic and Clinical Pharmacology 11st Edition*, New York: McGraw-Hill.
- Katzung, B.G., Masters, S. b. & Trevor, A.J. 2012. *Basic & Clinical Pharmacology 12th Edition*, USA : Mc Graw Hill Companies.
- Katzung, B.G, 2018, *Basic and Clinical Pharmacology 14th Edition*, Mc Graw Hill, California, 591-645.
- Kementerian Kesehatan Republik Indonesia, 2018, *Laporan Nasional Riskesdas 2018*, Kementerian Kesehatan Republik Indonesia, Jakarta, 71, 118, 121.
- Khedir, S.B., Mzid, M., Bardaa, S., Moalla, D., Zouheir, S., Rebai, T., 2016, In Vivo Evaluation of The Anti-Inflammatory Effect of Pistacia lentiscus Fruit Oil and Its Effects on Oxidative Stress, *Evidence-Based Complementary and alternative Medicine*, 2016(1): 1-12.
- Khemawood, P., Natthapon, H., Tosapol, A., kunan, B., Boonsri, O., Weena, J., Ruedee, S., Thanakorn, I., Thaweephol, D.N.A., Sitichai, K., Orapan. P., 2016, Pharmacokinetic of Compound D, The Major Bioactive Component of *Zingiber cassumunar*, in Rats, *Planta Med*, 13(11): 86-91.
- Leelarungrayub, J., Jidarej, M., Aranya, M., 2017, Anti-Inflammatory activity of Miosomes Entrapped With Plai Oil (*Zingiber cassamunar* Roxb.) by Therapeutic Ultrasound in A Rat Model, *Int J Nanomedicine*, 12: 2469-2476.
- Luliana, S., Sussanti, R., Agustiana, E., 2017, Uji Aktivitas Ekstrak Air Herba Ciplukan (*Physalis angualata* L.) Terhadap Tikus Putih (*Rattus norvegicus* L.) Jantan Galur Wistar Yang Diinduksi Karagenan, *Trad Med J*, 22(3): 199-205.
- Malita, F.N.M., 2019, Uji Efek Antiinflamasi Kombinasi Ekstrak Etanol Rimpang Kunyit (*Curcuma longa*) dan Rimpang Lengkuas (*Alpina galanga*) pada Tikus yang Diinduksi Karagenan, *Skripsi*, Jurusan Farmasi Universitas Jenderal Soedirman, Purwokerto

- Mansouri, M.T., Hemmati, A.S., Bahareh, N., Seyyed, A.L., Anahita, r., Behnam, G., 2015, A Study of The Mechanism Underlying The Anti-Inflammatory Effect of Ellagic Acid in Carrageenan-Induced Paw Edema in Rats, *Indian Journal of Pharmacology*, 47(3): 292-300.
- Mao, Q.-Q., Xu, X.-Y., Cao, S.-Y., Gan, R.-Y., Corke, H., Beta, T., dan Li, H.-B., 2019, Bioactive Compounds and Bioactivities of Ginger (*Zingiber officinale* Roscoe). *Foods*, 8(6): 1-21.
- Marianne., Patilaya, P., Barus, B.T., 2018, Aktivitas Antioksidan Kombinasi Ekstrak Etanol Rimpang Temu Giring (*Curcuma heyneana*) dan Daun Pugun Tanoh (*Curanga felterrae*) Menggunakan Metode Diphenyl Picrylhydrazil (DPPH), *TM Conference Series*, 1 (2) : 398-404.
- Meiriana, A., 2007, Uji Efek Antiinflamasi Ekstrak Etanol Akar Krokot Belanda (*Talinum triangulare* J. W.) pada Mencit Betina, *Skripsi*, Fakultas Farmasi Universitas Sanata Dharma, Yogyakarta.
- Necas, J., Bartosikova, L., 2013, Carragenan : A review, *Veterinari Medicina*, 58 (4) : 187-205.
- Pairul, P.P.B., 2018, Perbedaan Efek Antiinflamasi Jahe Merah (*Zingiber officinale* Rosc. Var. Rubrum) dan Jahe Putih Besar (*Zingiber officinale* Rosc. Var. Officinarum) Terhadap Ulkus Gaster Tikus Jantan Galur *Sprague dawley* yang Diinduksi Piroksikan, *Skripsi*, Jurusan Pendidikan Dokter, Universitas Lampung.
- Patrono, C., 2016, Cardiovascular Effects of Cyclooxygenase-2 Inhibitors: A Mechanistic and Clinical Perspective, *Br J Clin Pharmacol*, 82(2): 957-964.
- Purnamasari, E., 2013, Uji Efek Antiinflamasi Ekstrak Etanol Lumut Hati *Mastigophora dicloidas*, *Skripsi*, Program Studi Farmasi UIN Syarif Hidayatullah, Jakarta.
- Rizkiani, S., 2019, Uji Aktivitas Sitotoksik Kombinasi Ekstrak Etanol *Zingiber officinale* dan *Zingiber montanum* pada Sel Kanker Payudara MCF-7 Secara *In vitro*, *Skripsi*, Jurusan Farmasi Universitas Jenderal Soedirman, Purwokerto.
- Qu, X., Tang, Y., dan Hua, S., 2018, Immunological Approaches Towards Cancer and Inflammation: A Cross Talk, *Front Immunol*, 20(9): 563.

- Rowe, R.C., Sheskey, P.J., Quinn, M.E., 2009, *Handbook of Pharmaceutical Excipient, sixth edition*, London, The Pharmaceutical Press. 122-125.
- Royado, G.G., Mercedes, N., Angel L., 2018, NSAID Induces Gastrointestinal Damage and Designing GI-Sparing NSAID, *Expert Review of Clin Phar*, 1(1): 1-50.
- Shallangwa, G.A., Haliru, M., Gift, T.N., 2015, In -Vitro Evaluation of Ethanolic Extracts of *Zingiber Officinale*, *Sygzium Aromaticum* and Their 1:1 Extracts Blend on Protein Denaturation During Acute Inflammation, *JPRC*, 1(1): 1-8.
- Sharifi-Rad, M., Elena, M.V., Bahare, S., Javad, S.R., Karl, R.M., Seyed, A.A., Farzad, K., Salam, A.I., Dima, M., Zainul, A.Z., Majid, S.R., Zubaida, Y., Marcello, I., Adriana, B., Daniela, R., 2017, Plants of The Genus *Zingiber* as a Source of bioactive Phytochemicals: From Tradition to Pharmacy, *Molecules*, 22(2145): 1-20.
- Shim, S., Sokho, K., Dea, S.C., Young, B.K., Jungkee, K., 2011, Anti-Inflammatory Effects of [6]-Shogaol: Potential Roles of HDAC inhibition and HSP70 Induction, *Food and Chemical Toxicology*, 49(1): 2737-2740.
- Smith, W.L., Urade, Y., Jakobsson, P-J., 2011, Enzymes of the Cyclooxygenase Pathways of Prostanoid Biosynthesis, *Chem Rev*, 111(10): 61–5865.
- Soleha, M., Anny, V.P., 2013, Uji Daya Antelmektika Ekstrak n-Heksan Rimpang Bangle (*Zingiber cassumunar*) pada Cacing *Ascaris suum* Secara In Vitro, *Jurnal Kefarmasian Indonesia*, 3 (1): 19-25.
- Sweetman, S.C., 2009, *Martindale: The Complete Drug Reference 36th edition*, Pharmaceutical Press, London, Hal : 44-47.
- Tangyuenyongwatana, P., Keeratinijakal, V. dan Gritsanapan, W., 2012, Thin-Layer Chromatography-Densitometry Analysis of Dimethoxyphenylbutadiene Content in *Zingiber cassumunar* Rhizomes, *Journal of AOAC International*, 95(6):1614–1619.
- Teng, H., Kemueli, T.S., Won, Y.L., Lein, C., 2019, Comparing The Effects of Microwave Radiation on 6-gingerol and 6-shogaol From Ginger Rhizomes (*Zingiber officinale* Rosc), *PloS ONE*, 14(6): 1-16.

- Thaweboon, A., Thaweboon, B., Kaypetch, R., 2018, Antifungal, Anti-Inflammatory and Cytotoxic Effects of *Zingiber cassumunar Gel*, *Key Engineering Materials*, 773(1): 360-364.
- Walker, Chris., 2018, Are All Oral COX-2 Selective Inhibitors The Same? A Consideration of Celecoxib, Etericoxib, and Diclofenac, *International Journal of Rheumatology*, 2018(1): 1-13.
- Widiantoro, E., 2019, Uji Aktivitas Antiinflamasi Hasil Sintesis Senyawa Kalkon (4,4' dimetoksikalkon, 4' metoksikalkon, dan 3,4,4' trimetoksikalkon) Secara in Vivo. *Skripsi*, Jurusan Farmasi, Universitas Jenderal Soedirman.
- Wilmana, P.F., 2007, Farmakologi dan Terapi, Edisi V, Jakarta: Bagian Farmakologi Fakultas Kedokteran Universitas Indonesia, hal 230-246, 500-506.
- Wulansari, E.D., Subagus, W., Marchaban., Sitarina, W., 2018, Aktivitas Antiinflamasi Topikal Ekstrak Etanolik Rimpang Bangle (*Zingiber cassumunar* Roxb.) pada Mencit yang Diinduksi Karagenin, *Trad Med J*, 23(2): 122-126.
- Zhang, F.L., Bo, W.Z., Zheng, Z.Y., Jin, Z., Bing, C.Z., Wei, F.L., Cai, L., Ke, X.L., 2020. 6-Gingerol Attenuates Macrophages Pyroptosis Via The Inhibition of MAPK Signaling Pathways and Predicts a Good Prognosis in Sepsis, *Cytokine*, 125: 1-9.