

DAFTAR PUSTAKA

- Abdulla, A., Adams, N., Bone, M., Elliott, A.M., Gaffin, J., and Jones, D. 2013. Guidance on the Management of Pain in Older People. *Age Ageing* 42 Suppl. 1: 41-57
- Abraham, J. and Mathew, S. 2019. Merkel Cells: A Collective Review of Current Concepts. *Int J Appl Basic Med Res.* Vol. 9:9–13.
- Adriani. 2018. Prediksi senyawa Bioaktif Dari Tanaman Sanrego (Lunasia Amara Blanco) Sebagai Inhibitor Enzim Siklooksigenase-2 (Cox-2) Melalui Pendekatan Molecular Docking. *Jurnal Ilmiah Pena.* Vol. 1(1): 9-10.
- Agoes, G. 2006. *Pengembangan Sediaan Farmasi.* ITB. Bandung.
- Ahmed, Afsar. 2011. An Overview of Inflammation: Mechanism and Consequences. *Frontiers in Biology.* Vol. (10).6:123-129.
- Ahmed, A., Tamimi, D.M., Isab, A.A., Alkhawajah, A.M.M.,and Shawarby, M.A. 2012. Histological Changes in Kidney and Liver of Rats Due to Gold (III) Compound. *PLOS ONE.* Vol.7(12): 51889.
- Akira, S., Uematsu, S., and Takeuchi, O. 2006. Pathogen Recognition and Innate Immunity. *Cell.* Vol. 124, 783– 801.
- Alexander, L. and Barankin,B. 2015. Seborrheic Dermatitis. *International Journal of Pediatric Health Care & Advancements.* Vol. 10:7-9.
- Almasio, P., Anna, L., and Claudia, R. 2011. *Drugs and Toxins Effects on the Liver.* Intech Open.
- Amita, K., Balqis, U., and Iskandar, D.C. 2017. Gambaran Histopatologi Penyembuhan Luka Sayat Pada Mencit (*Mus musculus*) Menggunakan Ekstrak Daun Binahong (*Anredera cordifolia* (Tenore) Steenis). *JIMVET.* Vol.1(3).
- Anand, A., Sharma, N., and Khurana, N. 2017. Prediction Of Activity Spectra Of Substances Assisted Prediction of Biological Activity Spectra Of Potential Anti-Alzheimer's Phytoconstituents. *Asian Journal of Pharmaceutical and Clinical Research.* Vol. 10(22159): 13-14.
- Andrie, M. and Dies, S. 2017. Efektivitas Sediaan Salep mengandung Ekstrak Ikan Gabus (*Channa striata*) pada Proses Penyembuhan Luka Akut Stadium II Terbuka pada Tikus Jantan Galur Wistar. *Jurnal Kedokteran.* Vol. 4(2).
- Anief. 2007. *Farmasetika 2.* Gadjah Mada University Press. Yogyakarta.

- Atukorala, I. and Hunter, D.J. 2013. Valdecoxib : the Rise and Fall of a COX-2 Inhibitor. *Expert Opin Pharmacother.* Vol. 14: 1077-1086
- Bain, B.J. 2015. *Hematologi*. Jakarta. EGC
- Bala, V., Debnath, A., Shill, A.K., and Bose, U. 2011. Anti-Inflammatory, Diuretic, and Antibacterial Activities of Aerial Parts of *Mucuna pruriens* Linn. *International Journal of Pharmacy*. Vol. 7(4):498-503.
- Bayraktaroglu, A., Didem, B.E., Meltem, U., and Salih, C. 2013. Treatment Results Of Chilhood Constipation In Two Different Departments. *Yeditepe Medical Journal*. Vol. 7(28):682-685
- Belgorlov, A., Bornikova, S.A., Eremin, Y.S., and Grekhov, A.M. 2015. Investigation of Permeability of Liquid trogh Nanoporus Membrane bg DPD Method. *Procedia*. Vol. 72: 29-32.
- Betts, J.G., Desaix, P., Johnson, E., Johnson, J.E., Korol, O., Kruse, D., Poe, B., Wise, J.A., Womble, M., and Young, K.A. 2017. *Anatomy and Physiology*. OpenStax. Texas.
- Bintoro, A., Agus, M.I., and Boima, S. 2017. Analisis dan Identifikasi Senyawa Saponin dari daun Bidara. *Jurnal Itekimia*. Vol. 2(1):84-94.
- Boer, M., Duchnik, E., Maleszka, R., and Marchlewicz, M. 2016. Structural and Biophysical Characteristics of Human Skin in Maintaining Proper Epidermal Barrier Function. *Postep Dermatol Alergol*. Vol. 33:1–5.
- Bohling, A., Bielfeldt, S., Himmelmann, A., Keskin, M., and Wilhelm, K.P. 2014. Comparison of the Stratum Corneum Thickness Measured in Vivo with Confocal Raman Spectroscopy and Confocal Reflectance Microscopy. *Ski Res Technol*. Vol. 20:50–57.
- Bonecchi, R., Emanuela, G., Elena, M.B., Massimiliano, M.C., Massimo, L., and Alberto, M. 2009. *Front Biosci*. Vol. 14: 540–551.
- Bosscher, K.D., Vanden, W.B., and Haegeman, G. 2003. The Interplay Between the Glucocorticoid Receptor and Nuclear Factor κ B and Steroid Receptor Signalling Pathways. *Endocrine Reviews*. Vol. 24(4):488-522.
- Bratawidjaja, K. 2001. *Imunologi Dasar*. Jakarta. Balai Penerbit FKUI.
- Ceriana, R., Saslina, F., and Widya, S. 2018. Change in the Weight of Liver Organ, Kidney, Lymph, Brain, Stomach, Heart and Lung Mice Given a Cissus quadrangular Stem Extract. *Journal of Healthcare Technology and Medicine*. Vol. 4(1):127-134.
- Chen, L., Deng, H., Cui, H., Fang, J., Zuo, Z., Deng, J., Li, Y., Wang, X., and Zhao, L. 2017. Inflammatory Responses and Inflammation-Associated Diseases in Organs. *Oncotarget*. Vol. 9(6):7204-7218.

- Chen, Z., Kexin, S., Wenjie, K., and Lei, H. 2021. Exploration of the Optimal Strategy for Dietary Calcium Intervention Against the Toxicity of Liver and Kidney Induced by Cadmium in Mice. *PLoS ONE*. Vol. 16 (5).
- Clayton, K., Vallejo, A.F., Davies, J., Sirvent, S., and Polak, M.E. 2017. Langerhans Cells-Programmed by The Epidermis. *Front Immunol*. Vol. 8:1–14.
- Connell, K.E., Mikkola, A.M., Stepanek, A.M., Vernet, A., Hall, C.D., Sun, C.C., Yildirim, E., Staropoli, J.F., Lee, J.T., and Brown, D.E. 2015. Practical Murine Hematopathology: A Comparative Review and Implications for Research. *Comp Med*. Vol. 65(2):96-113.
- Corwin, E.J. 2000. *Buku Saku Patofisiologi*. EGC. Jakarta.
- Darmawan, P.E., Putu, O.K.Y.N., and Ketut, S. 2019. Hubungan Lamanya menjalani Hemodialisis Fatigue pada Pasien Chronic Kidney Disease. *Community of Publishing in Nursing*. Vol. 7(3): 139-146.
- Davidson, C., Yu-Wen, L., Ke, L., and Weiming. 2013. Prostaglandins and Neural Functions: A Review. *Advance in Medicine and Biology*. Vol. 69.
- Du, X., Li, Y., Xia, Y., Ai, S., Liang, J., Sang, P., and Ji, X. 2016. *Insights into Protein – Ligand Interactions : Mechanisms, Model, and Methods*. Vol. 17(144): 1–34.
- Ericson, W.N. and Kaye, D. 2014. Steroid Pharmacology, Complications, and Practice Delivery Issues. *The Ochsner Journal*. Vol. 14(2):203-207.
- Fadilaturrahmah, F. 2021. Efek Antiinflamasi Ekstrak Daun Kacang Miang (*Mucuna pruriens* L.(DC.)) terhadap Mencit (*Mus musculus*) yang Diinduksi Karagenan. *Skripsi*. Universitas Andalas. Padang.
- Faqih, K., Yahmin., and Suharti. 2019. Skrining Turunan Flavonoid Sebagai Kandidat Inhibitor Protease nsP2 dari Virus Chikungunya Menggunakan Molecular Docking. *Jurnal Kimia dan Terapannya*. Vol. 3(1): 38
- Fauci, A. S., and Longo, D. L. 2005. Jaundice and Evaluation of Liver Function. *Harrison's Principles of Internal Medicine. 16th Edition*. Mc Graw Hill. New York.
- Ferrero, M.L., Nielsen, O., Andersen, P., and Girardin, S. 2007. Chronic inflammation: Importance of NOD2 and NALP3 in Interleukin-1 β Generation. *Clin Exp Immunol*. Vol. 147:227–235.
- Fitriyani, A., Winarti, L., Muslichah, S., and Nuri. 2011. Uji Antiinflamasi Ekstrak Methanol Daun Sirih Merah (*Piper crocatum* ruiz & pav) pada Tikus Putih. *Jurnal Majalah Obat Tradisional*. Vol. 16(1):34-42.

- Fragoulis, G., Iain, B.M., and Stefan, S. 2019. JAK-inhibitors. New Players in the Field of Immune-Mediated Diseases, Beyond Rheumatoid Arthritis. *Rheumatology*. Vol. 58: 43-54.
- Frimayanti, N., Lukman, A., and Nathania, L. 2021. Studi Molecular Docking Senyawa 1,5-Benzothiazepine Sebagai Inhibitor Dengue SDEN-2 NS2B / NS3 Serine Protease. *Chempublish Journal*. Vol 6(1): 54–62
- Gebrehiwot, M., Kalaeb, A., Daniel, B., Avijit, M., Peter, L., and Feans, B. 2015. Evaluation of the Wound Healing Property of *Commiphora guidottii* Chiov. Ex. Guid. *BMC Complementary and Alternative Medicine*. Vol. 15(282):1-11.
- Ghasemian, M., Sina, O., and Mohammad, O. 2016. Review of Anti-Inflammatory Herbal Medicines. *Advances in Pharmacological Sciences*. 2016. Vol. 1:1-11.
- Ghlichloo, I. and Gerriets, V. 2021. *Nonsteroidal Anti-inflammatory Drugs (NSAIDs)*. StatPearls Publishing. Treasure Island.
- Guo, S. and Dipietro, L.A. 2010. Factors Affecting Wound Healing. *J Dent Res*. Vol. 89(3):219-229.
- Gusti, A. 2020. Efektivitas Gel Ekstrak Bunga Kecombrang (*Eplingera elatior*) sebagai Antiinflamasi terhadap Mencit yang Diinduksi Keragenan. *Jurnal Ilmiah Medicament*. Vol. 6(1):66-71.
- Hagemann, J.H., Haegele, H., Muller, S., and Anders, J. 2013. Danger Control Program Cause Tissue Injury and Remodelling. *International Journal of Molecular Science*. Vol. 14(6):11319-11346.
- Harianto, C. E. W., Hasian, T., and Widyaningsih, T. D. 2018. Uji Hepatoprotektor Ekstrak Bawang Lanang Pada Tikus Wistar Jantan yang Diinduksi Paracetamol. *Jurnal Pangan dan Agroindustri*. 6.(04):1-10.
- Harirforoosh, S., Asghar, W., and Jamali, F. 2013. Adverse Effects of Nonsteroidal Anti-Inflammatory Drugs: an Update of Gastrointestinal, Cardiovascular and Renal Complications. *J Pharm Pharm Sci*. Vol. 16(5):821-847.
- Hassan S.K. and Sultana S. 2015. Geraniol Attenuates 2- Acetylaminofluorene Induced Oxidative Stress, Inflammation and Apoptosis In The Liver Of Wistar Rats. *Toxicol Mech Methods*. Vol. 25:559–73.
- Hassani, M.K. 2022. Liver Structure, Function, and its Interrelationships with Other Organs. *International Journal Dental and Medical Sciences Research*. Vol. 4(1):88-92.

- Heidelbaugh, J., Nicole, M.A., David, P., and David, P. 2021. Diagnosing Constipation Spectrum Disorders in a Primary Care Setting. *Journal of Clinical Medicine*. 10. 1092. Vol. 10(5):1-15.
- Heo, J.K., Yoonki, H., Hee, J.L., Minjee, K., and Ha, Y.S. 2018. Topical Antiinflammatory and Antioxidative Effects of porcine Placenta Extracts on 2,4-dinitrochlorobenzene induced Contact Dermatitis. *BMC Complementary and Alternative Medicine*. Vol. 18(1):1-9.
- Hernani, M.Y., Mufrod, M., and Sugiyono, S. 2012. Formulasi Salep Ekstrak Air Tokek (*Gekko gecko* L.) untuk Penyembuhan Luka. *Majalah Farmaseutik*. Vol. 8(1):120-124.
- Hoffbrand, A.V. 2013. *Kapita Selekta Hematologi*. Jakarta. ECG.
- Hu, M.S., Moore, A.L., and Longaker, M.T. 2018. A Fibroblast Is Not a Fibroblast Is Not a Fibroblast. *J Invest Dermatol*. Vol. 138(4):729-730.
- Hyden, M.S. and Ghosh, S. 2004. Signalling to NF κ B. *Genes Development*. Vol. 18(18):2195-2224.
- Ibanez, M., Ortiz, A.M., and Castrejon, I. A Rational Use of Glucocorticoids in Patients with Early Arthritis has a Minimal Impact on Bone Mass. *Arthritis Research Therapy*. Vol. 12(2):50-70.
- Ikawati, Z., Supradjan, A.M., and Asmara, L.S. 2007. Pengaruh Senyawa Heksagamavunon-1 (HGV-1) terhadap Inflamasi Akut Akibat Reaksi Anafilaksis Kutaneus Aktif pada Tikus Wistar Jantan Terinduksi Ovalbumin. *Skripsi*. Universitas Gadjah Mada. Yogyakarta.
- Indillah, A. 2016. Uji Toksisitas Akut Gelatin Sapi Terhadap Tikus Betina Galur Sprague dawley. *Skripsi*. UIN Syarif Hidayatullah. Jakarta.
- Iwasaki, A. and Medzhitov, R. 2004. Toll-like Receptor Control of the Adaptive Immune Responses. *Nature Immunology*. Vol. 5: 987-995.
- James, W.D., Berger, T.G., and Elston, D.M. 2006. *Andrews' diseases of the skin: Clinical dermatology* 10th ed. Elsevier Saunders. Philadelphia.
- Kakel S.J. 2013. The Evaluation of Traditional and Automatic Coulter Method in Estimation Haematological Parameters in Adult Rats. *Beni-Suef University Journal of Basic and Applied Sciences*. 2(1): 31 –35.
- Kanatikis, J. 2002. Anatomy, Histology and Immunohistochemistry of Normal Human Skin. *European Journal of Dermatology*. Vol. 12(4): 390–401.
- Kaplan, L. and Pesce, J. 2005. *Clinical Chemistry : Theory Analysis and Correlation*. Edisi ke-3. Mosby Year Book. New York.

- Kate, R.J., Perez, R.M., Mazumdar, D., Pasupathy, K.S., and Nilakantan, V. 2016. Prediction and Detection Models for Acute Kidney Injury in Hospitalized Older Adults. *BMC Med Inform Decis Mak.* Vol. 16: 39.
- Kavitha, C. and Thangamani, C. 2014. Amazing Bean “*Mucuna pruriens*”: A Comprehensive Review. *Journal of Medical Plant Research.* Vol. 8(2):138-143.
- Kee, J. L. 2007. *Pedoman pemeriksaan laboratorium & diagnostik.* Ed 6. EGC. Jakarta.
- Kelutur, F.J., Mustarichie, R., and Umar, A.K. 2020. Penyaringan Virtual Kandungan Senyawa Kipas Laut (*Gorgonia mariae*) sebagai Antiasma. *Jurnal Penelitian Kimia.* Vol. 16(2): 207-208.
- Khirsna, A.B., Hemanth, K.M., Vinay, K.S., and Niti, S. 2016. Acute Oral Toxicity Study in Rats with *Mucuna pruriens* Seed Extract. *Asian Journal of Plant Science and Research.* Vol. 6(2):1-5.
- Kim, E.Y., Sooyeon, H., Jae-Hyun, K., Minsun, K., Yujin, L., Yongjoo, S., and Hyuk-Sang, J. 2021. Effect of Chloroform Fraction of *Fritillariae thunbergii* Bulbus on Atopic Symptoms in a DNCB Induced Atopic Dermatitis Like Skin Lesion Model and In Vitro Models. *Journal of Ethnopharmacology.* Vol. 281(2021):1-14.
- Kim, S.R., Han-Soek, C., Hye, S.S., Youn, K.C., Yong, C.S., and Seong-Gyu, K. 2012. Topical Application of Herbal Mixture Extract Inhibit Ovalbumin or 2,4 Dinitrochlorobenzene Induced Atopic Dermatitis. *Evidence Based Complementary and Alternative Medicine.* Vol. 2012:1-9.
- Krishna, A.B., Hemanth, K.M., Vinay, K.S., and Niti, S. 2016. Acute Oral Toxicity Study in Rats with *Mucuna pruriens* Seed Extract. *Asian Journal of Plant Science and Research.* Vol. 6(2):1-5.
- Ku, J.M., Se, H.H., Soon, R.K., Han-Soek, C., Hyo, I.K., Dong, U.K., So, M.O., Hye, S.S., Tai, Y.K., Yong, C.S., Chuncoo, C., and Seong, G.K. 2018. The Prevention 2,4 Dinitrochlorobenzene Induced Inflammation in Atopic Dermatitis Like Skin Lesions in Balb/c Mice by Jowoongo.
- Kubes, P. and Mehal WZ. 2012. Sterile Inflammation in the Liver. *Gastroenterology.* Vol. 143:1158–1172.
- Kumar, B. and Swee, M.L. 2015. Nonsteroidal Antiinflammatory Drug Use in a Patient With Hypertension: A Teachable Moment. *JAMA Intern Med.* 175: 892-893
- Kwon, B., Soon, Y.H., Eun, Y.K., Jae, H.K., Minsun, K., Jae, H.P., Youngjoo, S., and Hyuk, S.J. 2021. Effect of Cone of *Pinus densiflora* on DNCB Induced

- Allergic Contact Dermatitis Like Skin Lesion in Balb/c Mice. *Nutrients*. Vol. 13(839):1-16.
- Lee, Amanda. 2015. Combating the Causes of Constipation. *Nursing and Residential Care*. Vol. 17. 327-331.
- Leick, M., Azcutia, V., Newton, G., and Luscinskas, F.W. 2014. Leukocyte Recruitment in Inflammation: Basic Concepts And New Mechanistic Insights Based on New Models and Microscopic Imaging Technologies. *Cell Tissue Res*. Vol. 355(3):647-66.
- Levey, A.S., Coresh, J., Greene, T., and Marsh, J. 2007. Expressing the Modification of Diet in Renal Disease Study Equation for Creatinin Value. *Clin Chem*. Vol. 53(4):766-772.
- Li, C., Samuel, L., Pedro, L., Manando, N., Shih-Wei, C., Kenshi, Y., and Richard, L.G. 2010. Development of Atopic Dermatitis Like Skin Disease from the Chronic of Epidermal Caspase-8. *PNAS*. Vol. 107(51):22249-22254.
- Lipinski, C.A., Franco, L., Beryl, W.D., and Paul, J.F. 2001. Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development. *Advanced Drug Delivery Reviews*. Vol. 46 (1-3): 3-26.
- Markiewski, M. and John, L. 2007. The Role of Complement in Inflammatory Diseases From Behind the Scenes into the Spotlight. *The American journal of pathology*. Vol. 171:715-727.
- Mathieu, D., Linke, J.C., and Wattel, F. 2006. Non-Healing Wounds. In: Handbook On Hyperbaric Medicine. Springer. Netherlands.
- Mazzon E., Tiziana G., Rosanna D.P., and Carmelo M. 2006. Effects of 3-Aminobenzamide, an Inhibitor of Poly (ADP-Ribose) Polymerase, in a Mouse Model of Acute Pancreatitis Induced by Cerulein. *European Journal of Pharmacology*. Vol. 549: 149-56.
- Mekonnen, A.A., Solomon, T.E., Selam, G.C., Kassahun, D., Tizazu, Z., Nigus, Z., Yoseph, S., and Ermias, L. 2019. Evaluation of Skin Irritation and Acute and Subacute Oral Toxicity of *Landula angustifolia* Essential Oils in Rabbit and Mice. *Journal of Toxicology*. Vol 1:1-8.
- Moehammed, A.S., Arafa, M., Marwa, A.B., and Hatem, S.A. 2019. Anti Eczematic and Molecular Modeling of Antraquinones Isolated from the Seed of the *Asphodelus microcarpus* in Egypt. *Pharmacognosy Magazine*. Vol. 15(65):586-591.
- Moelyono, L.A., Akhmad, I., and Neli, S. 2017. Pengaruh Pemberian Ekstrak Daun Sirih Merah (*Piper crocatum*) terhadap Gambaran Limfosit Darah

- pada Mencit Balb/c yang diinfeksi *Salmonella typhimurium*. *Jurnal Kedokteran Diponegoro*. Vol. 6(2):748-757.
- Mosca, M., Tani, C., Carli, L., and Bombardieri, S. 2011. Glucocorticoids in Systemic Lupus Erythematosus. *Clinical and Experimental Rheumatology*. Vol. 29(5):126-129.
- Mulyono, A., Ristiyanto., and Soesanti, N. 2006. Karakteristi Histopatologi Hepar Tikus Got *Rattus norvegicus* Infektif Leptospira Sp. *Jurnal Vektora*. 1(2):84-92
- Nauli, T. 2014. Penentuan Sisi Aktif Selulase *Aspergillus niger* dengan Docking Ligan. *JKTI*. Vol. 16(2).
- Nayak, B. and Kumar, A. 2017. Activity Of Leukotrienes In Inflammation. *European Journal Of Pharmaceutical And Medical Research*. Vol.4: 207-215.
- Nemzek, J.A., Siddiqui, J., and Remick, D.G. 2001. Development and Optimazation of Cytokine ELISAs Using Commercial Antibody Pairs. *Journal Immunol Methods*. Vol. 255:149-157.
- Nencini, S., Jenny, T., and Jason, J. 2018. Sequestration of Aremin Reduce Inflammation Induced Activation and Sensitization of Bone Marraow Nociceptors in a Rodent Model of Carrageenan Induced Inflammatory Bone Pain. *Europen Journal of Pain*. Vol. 23(10):1315.
- Netea, M.G., Frances, B., Michel, C., Fabio, C., and March, Y.D. 2017. A Guiding Map for Inflammation. *Nature Immunology*. Vol. 18(8):826-831.
- Nguyen, A.V. and Soulka, A.M. 2019. The Dynamics of The Skin's Immune System. *Int J Mol Sci*. Vol. 20:1-53.
- Nijveldt, R.J., Van, E.,Van, D.E.C., Boelens, P.G., Van, N. K., and Van, L.P.A.M. 2001. Flavonoid : a Review of Probable Mechanisms of Action and Potential Applications. *American Journal of Clinical and Nutrition*. Vol. 74:418-425.
- Nugroho, D. A., and Armalina, D. 2019. Pengaruh pemberian kombinasi vitamin C dan E terhadap gambaran histologi hepar tikus wistaryang dipapar gelombang elektromagnetik ponsel. *Jurnal Kedokteran Diponegoro*. 8(1): 133-141.
- Nurdiana, Ikhda, U., and Putu, R.A.P. 2016. Pengaruh Pemberian Gel Ekstrak Daun Melati (*Jasmine sambac*) terhadap Jumlah Fibroblas Kulit Dalam Penyembuhan Luka Bakar Derajat II A pada Tikus Putih. *Jurnal Ilmu Keperawatan*. Vol. 4(1):1-11.

- Nurfazri, A, Shintya, S., Elis, S. 2020. Acute Toxicity Test Ethanol of Kerehau Leaf (*Callicarpa longifolia* Lamk) using OECD 420 Method. *Jurnal Ilmiah Farmasi*. Vol. 16(2):105-111.
- Nurqolbiah, E., Indri, K., and Siti, N.N. 2014. Uji Toksisitas Fraksi Air *Impatient balsamina* pada Tikus Betina Galur Sprague Dawley. *Pharm Sci Res.* Vol. 1(1):16-29.
- OECD. 2002. *Testing Guideline 404: OECD Guidelines for Testing of Chemicals.* Dermal Irritation/ Corrosion.
- Olsen, A.S., Fosbol, E.L., and Lindhardsen, J. 2012. Long-term Cardiovascular Risk of Nonsteroidal Anti-inflammatory Drug Use According to Time passed After First-time Myocardial Infarction. *Circulation.* Vol.126(16):1955-1963.
- Oneill LA, Golenbock D, and Bowie AG. The History of Toll-like Receptors—Redefining Innate Immunity. *Nat Rev Immunol* (2013) **13**(6):453–60.
- Onkar, P., Kulkarni, Julia, L., Hans, J.A., and Shrikant, R.M. 2016. The Immune System in Tissue Environments Regaining Homeostasis after Injury: Is Inflammation Always Inflammation. *Mediators of Inflammation.* Vol. 10: 1-9.
- Otani, N., Akimoto, T., Yamazaki, T., Honma, S., and Nagata, D. 2015. Atopic Dermatitis, Cyclosporine, and Nephrotoxicity. *CEN Case Rep.* Vol. 4(1):117-118.
- Ozougwu, J. 2017. Physiology of the Liver. *International Journal of Research in Pharmacy and Biosciences.* Vol. 4(8):13-24.
- Parwanto, E., Hardy, S., and Hosea, J. 2013. Formulasi Salep Antibakteri Ekstrak Etanol Daun Tembelekan. *Pharmacon.* Vol.2(3):104-108.
- Paul, A.T., Gohil, V.M., and Bhutani, K.K. 2006. Modulating TNF- α Signaling with Natural Products. *Drug Discovery Today.* Vol. 11(15):725-732.
- Phelps, R.G., Miller, M.K., and Singh, F. 2003. The varieties of “eczema”: Clinicopathologic correlation. *Clin Dermatol.* Vol.21:95 - 100.
- Pratiwi, D. 2016. Uji Efek Antiinflamasi Topikal Ekstrak Etanol Daun Jambu Biji (*Psidium guajava* Linn.) pada Edema Kulit Punggung Mencit Galur Swiss Terinduksi Karagenan. *Skripsi.* Universitas Sanata Dharma. Yogyakarta.
- Pratoko, D.K. 2012. Molecular Docking Senyawa Fitokimia *Piper longum* terhadap Reseptor Siklooksigenase-2 sebagai Antiinflamasi. *Chemistry Progress.* Vol. 5(1): 31-36.

Pubchem. 2021. National Library of Medicine, website, <https://pubchem.ncbi.nlm.nih.gov/> , Diakses pada tanggal 29 November 2021.

Purwanto, D.S., Susanti, H., and Sugihartini, N. 2021. Molecular Docking as Potential Anti-Inflamed Quersetin of Moringa Leaf (*Moringa oleifera* L.) with Autodock-Vina. *Jurnal Ilmiah Manusia dan Kesehatan*. Vol. 4 (2):309-313.

Putri, Dita, M., Busman, and Nurcahyani, N. 2013. Gambaran Tubulus Proksimal Mencit Jantan yang Terpapar Kebisingan. *Seminar Nasional Sains dan Teknologi V*. Lembaga Penelitian Universitas Lampung.

Qodriyati, N. L. Y., Sulistyani, E., and Yuwono B. 2016. Kadar Serum Glutamic Oxaloacetic Transaminase (SGOT) pada Tikus Wistar (*Rattus norvegicus*) Jantan yang Dipapar Stresor Rasa Sakit Electrical Foot Shock selama 28 Hari.e-Jurnal Pustaka Kesehatan.Vol. 4 (1): 73-77.

Qu, L., Zhu, Y., Liu, Y., Yang, H., Zhu, C., Ma, P., Jianjun, D., and Fan, D. 2019. Protective effects of ginsenoside Rk3 against chronic alcohol-induced liver injury in mice through inhibition of inflammation, oxidative stress, and apoptosis. *Food and Chemical Toxicology*. 126 : 277–284.

Ramadan, A. and Sophie, P. 2015. Various Form of Tissue Demage and Danger Signals Folloeing Hematopoietic Stem-Cell Transplantation.*Frontiers in Immunology*. Vol. 6(14):1-20.

Ramadon, D., Maeliosa, T.C., aaroan, C., and Ryan, F.D. 2021. Enhancement Strategies for Transdermal Drug Delivery Systems : Current Trend and Applications. *Drug Selivery and Translational research*. Vol. 12 (4)

Rankainen, J., Huusko, T.J., Soininen, R., Mondini, E., Cinti, F., Makela, K.A., Kovalainen, M., Herzig, K.H., Ja rvelin, M.R., Sebert, S., Savolainen, M.J., and Salonurmi, T. 2015.Fat mass- and obesity-associated gene Fto affects the dietary response in mouse white adipose tissue. *Scie. Report*. 5: 9233.

Ravi, and Raman. 2011. *Natural aphrodisiacs: myth or reality*. Xlibris Corporation. United States of America.

Robb, C.T., Regan, K.H., Dorward, D.A., and Rossi, A.G. 2016. Key Mechanisms Governing Resolution of Lung Inflammation. *Semin Immunopathol*. Vol. 38:425–448.

Robert, L., Cindy, L., Davy, C., Tristan, J., Bonnie, K., Micheal, S., Anne, S., robin, J., and Joan, L. 2016. Drug That May Cause or Exacerbate Heart Failure (A Scientific Statement from the American heart Association). *Circulation*. Vol. 134:32-69.

- Rollando. 2017. *Pengantar Kimia Medisinal*. CV. Seribu Bintang. Malang.
- Romanovsky, A.A. 2014. Skin Temperature: Its Role in Thermoregulation. *Acta Physiol.* Vol. 210:498–507.
- Rose, P.W., Prlic, A., Bi, C., Bluhm, W.F., Christie, C.H., Dutta, S., Gree, R. K., Goodsell, D.S., Westbook, J.D., Wo, J., Young, J., Zardecki, C., Berman, H.m., Bourne, P.E., and Burley, S.K. 2015. The RCSB Protein Data Bank: Views Of Structural Biology For Basic And Applied Research And Education. *Nucleic Acids Research*. 43(D1): D345-D356.
- Rowe, R.C. 2006. *Handbook of Pharmaceutical Excipients*, 5 Ed. The Pharmaceutical Press. London.
- Rukmana, W. 2017. Formulasi dan Uji Stabilitas Fisik Sediaan Salep Antifungi Ekstrak Daun Ketepeng Cina (*Cassia alata* L.). Skripsi. UIN Alauddin. Makassar.
- Ruslin, Yana, N.R., Leorita, M. 2020. Desain Turunan Senyawa Leonurin Sebagai Kandidat Obat AntiInflamasi. *Jurnal Farmasi Galenika*. Vol 6(1): 189.
- Russell, L.M. and Wiedersberg, S., Delgado-Charro, M.B. 2008. The Determination of Stratum Corneum Thickness - An Alternative Approach. *Eur J Pharm Biopharm*. Vol. 69:861–870.
- Sabzwari, S.R., Qidwai, W., and Bhanji, S. 2013. Polypharmacy in Elderly: A Cautious Trail to Tread. *J Pak Med Assoc*. Vol. 63: 624-627
- Sahaji, P.S. 2011. Acute Oral Toxicity of *Mucuna pruriens* in Albino Mice. *Int. Res. J. Pharm.* Vol. 2(1):593-600.
- Sandby, M.J., Poulsen, T., and Wulf, H.C. 2003. Epidermal Thickness at Different Body Sites: Relationship to Age, Gender, Pigmentation, Blood Content, Skin Type and Smoking Habits, *Acta Derm Venereol*. Vol. 83:410–3.
- Saputri, K.E., Fakhmi, N., Kusumaningtyas, E., Priyatama, D., and Santoso, B. 2016. Docking Molekular Potensi Anti Diabetes Melitus Tipe 2 Turunan Zerumbon sebagai Inhibitor Aldosa Reduktase dengan Autodock-Vina. *Chimica et Natura Acta*. Vol. 4 (1): 16-20.
- Sardjono, R.E., Iqbal, M., Sholihin, Atun, Q., and Rahmi, R. 2017. Acute Toxicity of Ethanol Extract of Indonesian Velvet Bean. *International Journal of Pharmacy and Pharmaceutical Sciences*. Vol.9(5):161-165.
- Sastray, A.M., Matvey, A., Tyler, D., Ramakrishna, A., and Woody, S. 2013. Protein and Ligand Preparation. *Journal Computer Aided Molecular Design*. Vol. 27(2):221-234.

- Scapini, P., Marini, O., Tecchio, C., and Cassatella, M.A. 2016. Human Neutrophils in the Saga of Cellular Heterogeneity. *Immunol Reviews*. Vol. 273(1): 48–60.
- Schellack, N., Gustav, S., and Johani, F. 2015. A Review of Nonsteroidal Anti Inflammatory Drugs. *S Afr Pharm Journal*. Vol. 82(3):10-18.
- Schwartz, A.R., Gerin, W., and Davidson, K.W. 2003. Toward a Causal Model of Cardiovascular Responses to Stress and The Development of Cardiovascular Disease. *Psychosom Med*. Vol. 65:22–35.
- Seino, S., Tanaka, Y., Honma, T., Yanaka, M., Sato, K., Shinohara, N., Ito, J., Tsuduki, T., Nakagawa, K., Miyazawa, T., and Ikeda, I. 2012. Atopic Dermatitis Causes Lipid Accumulation in The Liver of NC/Nga Mouse. *J Clin Biochem Nutr*. Vol.50(2):152-157.
- Shahrbaf, G. and Farahnak, A. 2015. Drug-Induced Renal Disorders. *J Renal Inj Prev*. Vol. 4(3):57-60.
- Sherwood, L. 2016. Fisiologi Manusia dari Sel ke Sistem. EGC. Jakarta.
- Shirshin, E.A., Gurfinkel, Y.I., Priezzhev, A.V., Fadeev, V.V., Lademann, J., and Darvin, M.E. 2017. Two-Photon Autofluorescence Lifetime Imaging of Human Skin Papillary Dermis in Vivo: Assessment of Blood Capillaries and Structural Proteins Localization. *Sci Rep*. Vol. 7:1–10.
- Siddiq, M. N. A. A., Marliyati, S. A., Riyadi, H., and Winarsih, W. 2019. Effects of Kersen Leaves Extract (*Muntingia calabura* L.) on SGOT and SGPT Levels of Soft Drink Induced Mice. *J. Gizi Pangan*. 14(2):69-76.
- Simanjuntak. 2008. Identifikasi Senyawa Kimia dalam Buah Mahkota Dewa (*Phaleria macrocarpa*), Tymelaceae. *Jurnal Ilmu Kefarmasian Indonesia*. Vol. 6:23-28.
- Singh, A.P., Muthuraman, A., Jaggi, A.S., Singh, N., Gover, K. and Dhawan, R. 2012. Animal Model of Acute Renal Failure. *Pharmacol Rep*. Vol. 64:31-34.
- Siswandono. 2000. *Kimia Medisinal*. Pers Universitas Airlangga. Surabaya.
- Sriuttha, P., Sirichanchuen, B., and Permsuwan, U. 2018. Hepatotoxicity of Nonsteroidal Anti-Inflammatory Drugs: A Systematic Review of Randomized Controlled Trials. *Int J Hepatol*. 2018:5253623.
- Stockham, S. L., and Scott, M. A. 2008. *Fundamentals of Clinical Veterinary Pathology*. Iowa State University Press. Iowa.
- Suharna, S. 2012. Studi In Siliko Senyawa Turunan Flavonoid terhadap Penghambatan Enzim Tirosinase. *Skripsi*. Universitas Islam Negeri Alauddin Makassar. Makassar.

- Suryaningsih, N.M., Dewi, I., suksmawati, N., Putri, N., Febrianti, N., and Warditiani, N. Pengaruh Kadar SGOT SGPT dan Morfologi hepar Tiksu Putih Betina Wistar pada Pemberian Isolat Andrografolid. *Jurnal Farmasi Udayana*. Vol. 6(1):34-38.
- Szabo, G., Mandrekar, P., and Dolganiuc, A. 2007. Innate Immune Response and Hepatic Inflammation. *Seminars in Liver Disease*. Vol. 27:339–350.
- Tiwari, A. and Sakshi, S. 2022. *Bioinformatics- Computational Approaches in Drug Designing*. Academic Press.
- Tuckermann, J.P., Kleiman, A., McPherson, K.G., and Reichardt, H.M. 2005. Molecular Mechanisms of Glucocorticoids in the Control of Inflammation and Lymphocyte Apoptosis. *Critical Reviews in Clinical Laboratory Science*. Vol. 42(1):71-104.
- Ujowundu, C.O., Kalu, F.N., Emejulu, A.A., Okafor, O.E., Nkwonta, C.G., and Nwosunjoku, E.C. 2010. Evaluation of the Chemical Composition of *Mucuna utilis* Leaves in Herbal Medicine in Southeastern Nigeria. *African Journal of Pharmacology*. Vol. 4(11):811-816.
- Ungprasert, P., Cheungpasitporn, W., Crowson, C.S., and Matteson, E.L. 2015. IndividualNon-Steroidal Anti-Inflammatory Drugs and Risk of Acute Kidney Injury: A Systematic Review and Meta-Analysis of Observational Studies. *Eur J Intern Med*. 26: 285-291.
- Verdiansah. 2016. Pemeriksaan Fungsi Ginjal. *CDK*. Vol. 43(2):148-154.
- Vetelainen, R., Roelof, J.B., Kora, D.B., Arlene, V.V., and Thomas, M.V.G. 2006. Hepatobiliary Function Assessed by Tc-mebrofenin Cholescintigraphy in the Evaluation of Severy of Steatosis in a Rat Model. *Eur Journal Nucl Med Mol Imaging*. Vol. 33(10):1107-1114.
- Wegh, C., Hermes, G., Schoterman, M., Vaughan, E., Smidt, H., Belzer, C., and Benninga, M. 2021. The Modified Bristol Stool Form Scale: A Reliable And Valid Tool To Score Stool Consistency In Dutch (Non) Toilet Trained Toddlers. *Journal of Pediatric Gastroenterology and Nutrition*. Publish Ahead of Print. Vol. 72 (2):210-216.
- Wicitra, R.P. 2017. Uji Toksisitas Akut Ekstrak Metanol Batang Kayu Kuning terhadap Kadar Kreatinin dan Histopatologi Ginjal Mencit Galur Balb/c. *Skripsi*. Jember. Universitas Jember.
- Wickett, R.R. and Visscher, M.O. 2006. Structure and Function of The Epidermal Barrier. *Am J Infect Control*. Vol. 34:98–110.
- Wientarsih, I., R., Madyastuti, B. F., Prasetyo, D., and Firnanda. 2012. Gambaran Serum Ureum dan Kreatinin pada Tikus Putih yang Diberi Fraksi Etil Asetat Daun Alpukat. *Jurnal Veteriner*. Vol. 13(1): 57-62

- Wilson, B.D., Moon, S., and Armstrong, F. 2012. Comprehensive Review of Ultraviolet Radiation and The Current Status on Sunscreens. *J Clin Aesthet Dermatol.* Vol. 5:18–23.
- Wong, R., Geyer, S., Weninger, W., Guimberteau, J.C., and Wong, J.K. 2016. The Dynamic Anatomy and Patterning of Skin. *Exp Dermatol.* Vol. 25:92–98.
- Wongrakpanich, S., Wongrakpanich, A., Melhado, K., and Rangaswami, J. 2018. A Comprehensive Review of Non-Steroidal Anti-Inflammatory Drug Use in The Elderly. *Aging and disease.* Vol. 9(1): 143–150.
- Young, D.S. 2001. Effect of Drugs on Laboratory Test. The American Association for Clinical Chemistry Press. Washington.
- Yuliandra, Y., Armenia, N., Annisa, N.S., and Friadi, I. 2015. Uji Toksisitas Subkronis Ekstrak Etanol Tali Putri terhadap Fungsi Ginjal Tikus. *Jurnal Sains Farmasi dan Klinis*. Vol. 2(1):54-59.
- Zachary, J. F. and Gavin, M. D. 2014. *Pathologic Basis Of Veterinary Disease* (5th ed.). Elsevier Mosby. Missouri.
- Zakroysky, P., Thai, W., and Deano, R.C. 2015. Steroid Exposure Acute Coronary Syndrome, and Inflammatory Bowel Disease. *The American Journal of Medicine.* Vol. 128(3):303-311.
- Zayac, O. and Adam, O. 2020. Burkitt lymphoma: bridging the gap between advances in molecular biology and therapy. *Leukemia & Lymphoma.* Vol. 61:1-13.
- Zhang, C., Y. Li, Y. Wu, L. Wang, X. Wang, and J. Du. 2009. Molecular bases of disease: Interleukin-6/STAT3 pathway is essential for macrophage infiltration and myoblast proliferation during muscle regeneration. *Journal of Biological Chemistry.* Vol. 18(1):1-9.
- Zubair, M.S, Maulana, S., and Mukaddas, A. 2020. Penambatan Molekuler dan Simulasi Dinamika Molekuler Senyawa dari Genus Nigella Terhadap Penghambatan Aktivitas Enzim Protease HIV-1. *Jurnal Farmasi Galenika.* Vol. 6 (1): 132-140.