



## DAFTAR PUSTAKA

- Abuelo, A., Hernández, J., Benedito, J. L., & Castillo, C. (2015). The importance of the oxidative status of dairy cattle in the periparturient period: Revisiting antioxidant supplementation. *Journal of Animal Physiology and Animal Nutrition*, 99(6), 1003–1016.
- Adam, O. A. O., Abadi, R. S. M., & Ayoub, S. M. H. (2019). The effect of extraction method and solvents on yield and antioxidant activity of certain sudanese medicinal plant extracts. *The Journal of Phytopharmacology*, 8(5), 248-252.
- Agustina, O. R., Rocio, A., Gabriela, R., Sofia, G. M., & Ester, V. G. M. (2020). Alterations in oxidative metabolism in liver of female rats: Effects of long-term vitamin A deficiency. *GSC Biological and Pharmaceutical Sciences*, 13(1), 267-278.
- Alhayaza, R., Haque, E., Karbasiafshar, C., Sellke, F. W., & Abid, M. R. (2020). The Relationship Between Reactive Oxygen Species and Endothelial Cell Metabolism. *Frontiers in Chemistry*, 8(592688), 1-24.
- Alhassan, A. J., Sule, M. J., Aliyu, S. A., & Aliyu, M. D. (2009). Ideal hepatotoxicity model in rats using Carbon Tetrachloride (CCl<sub>4</sub>). *Bayero Journal of Pure and Applied Sciences*, 2(2), 185-187.
- Alkreathy, H. M., Khan, R. A., Khan, M. R., & Sahreen, S. (2014). CCl<sub>4</sub> induced genotoxicity and DNA oxidative damages in rats: hepatoprotective effect of *Sonchus arvensis*. *BMC Complementary and Alternative Medicine*, 14(1), 1-7.
- Almatroodi, S. A., Almatroodi, A., Anwar, S., Yousif Babiker, A., Khan, A. A., Alsahli, M. A., & Rahmani, A. H. (2020). Antioxidant, anti-inflammatory and hepatoprotective effects of olive fruit pulp extract: *in vivo* and *in vitro* study. *Journal of Taibah University for Science*, 14(1), 1660-1670.
- Asmah, R., Yeboah, G., Asare-Anane, H., Antwi-Baffour, S., Archampong, T., Brown, C., Amegatcher, G., Adjei, D., Dzudzor, B., Akpalu, J., & Ayeh-Kumi, P. (2015). Relationship between oxidative stress and haematological indices in patients with diabetes in the Ghanaian population. *Clinical Diabetes and Endocrinology*, 1(1), 1-7.
- Arief, H., & Widodo, M. A. (2018). Peranan stres oksidatif pada proses penyembuhan luka. *Jurnal Ilmiah Kedokteran Wijaya Kusuma*, 5(2), 22-28.
- Benchaachoua, A., Bessam, H. M., Saidi, I., & Bel-abbes, S. (2018). Effects of different extraction methods and solvents on the phenolic composition and antioxidant activity of *Silybum marianum* leaves extracts. *International Journal of Medical Science and Clinical Invention*, 5(3), 3641-3647.
- Bhadauria, M. (2012). Propolis prevents hepatorenal injury induced by chronic exposure to carbon tetrachloride. *Evidence-Based Complementary and Alternative Medicine*, 2012.1-12.
- Bolliger, A. P. & Everds, N. (2012). *The laboratory mouse* (Second edition). AP, Elsevier. p. 331-347.



- Boriskin, P., Gulenko, O., Deviatkin, A., Pavlova, O., & Toropovskiy, A. (2019). Correlation of superoxide dismutase activity distribution in serum and tissues of small experimental animals. *IOP Conference Series: Earth and Environmental Science*, 403, (1), 012112. 1-8.
- Bouayed, J., & Bohn, T. (2010). Exogenous antioxidants—double-edged swords in cellular redox state: health beneficial effects at physiologic doses versus deleterious effects at high doses. *Oxidative Medicine and Cellular Longevity*, 3(4), 228-237.
- Braga, P. A. C., Dos Santos, D. A. P., Da Silva, M. F. D. G. F., Vieira, P. C., Fernandes, J. B., Houghton, P. J., & Fang, R. (2007). In vitro cytotoxicity activity on several cancer cell lines of acridone alkaloids and N-phenylethyl-benzamide derivatives from *Swinglea glutinosa* (Bl.) Merr. *Natural Product Research*, 21(1), 47-55.
- Burton, G. J., & Jauniaux, E. (2011). Oxidative stress. *Best Practice & Research Clinical Obstetrics & Gynaecology*, 25(3), 287–299.
- Cacique, A. P., Barbosa, É. S., Pinho, G. P. D., & Silvério, F. O. (2020). Maceration extraction conditions for determining the phenolic compounds and the antioxidant activity of *Catharanthus roseus* (L.) G. Don. *Ciência e Agrotecnologia*, 44.1-12.
- Celi, P., & Gabai, G. (2015). Oxidant/Antioxidant Balance in Animal Nutrition and Health: The Role of Protein Oxidation. *Frontiers in Veterinary Science*, 2(48), 1-13.
- Chan, P. H. (2001). Reactive oxygen radicals in signaling and damage in the ischemic brain. *Journal of Cerebral Blood Flow & Metabolism*, 21(1), 2-14.
- Chávez-González, M. L., Sepúlveda, L., Verma, D. K., Luna-García, H. A., Rodríguez-Durán, L. V., Ilina, A., & Aguilar, C. N. (2020). Conventional and Emerging Extraction Processes of Flavonoids. *Processes*, 8(4), 434, 1-29.
- Choi, Y. J., Kim, H. S., Lee, J., Chung, J., Lee, J. S., Choi, J. S., Yoon, T. R., Kim, H. K., & Chung, H. Y. (2014). Down-regulation of oxidative stress and COX-2 and iNOS expressions by dimethyl lithospermate in aged rat kidney. *Archives of Pharmacal Research*, 37(8), 1032-1038.
- Cosgun, B. E., Erdemli, M. E., Gul, M., Gul, S., Bag, H. G., Erdemli, Z., & Altinoz, E. (2019). Crocin (active constituent of saffron) improves CCl<sub>4</sub>-induced liver damage by modulating oxidative stress in rats. *Turkish Journal of Biochemistry*, 44(3), 370-378.
- DeKock, R.L. & Gray, H.B. (1998). *Chemical Structure and Bonding*. University Science Books : United States. p. 124.
- Dewatisari, W. F., Rumiyanti, L., & Rakhmawati, I. (2017). Rendemen dan Skrining Fitokimia pada Ekstrak Daun Sansevieria sp. *Jurnal Penelitian Pertanian Terapan*, 17(3), 197-202.
- Dewi, I.G.A.M.A., Adi, A.A.A.M. & Setiasih, N.L.E. (2022). Fluktuasi Profil Hematologi Tikus Putih Hewan Model Fibrosarkoma yang Diinduksi Benzo(a)piren. *Indonesia Medicus Veterinus*. 11(2), 267-281.



- de Carvalho, A.C., De Camillis Rodrigues, L., Ribeiro, A. I., Fernandes da Silva, M. F. D. G., Soman de Medeiros, L., & Moura Veiga, T. A. (2019). Integrated Analytical Tools for Accessing Acridones and Unrelated Phenylacrylamides from *Swinglea glutinosa*. *Molecules*, 25(1), 153, 1-9.
- Di Meo, S., Reed, T. T., Venditti, P., & Victor, V. M. (2016). Role of ROS and RNS Sources in Physiological and Pathological Conditions. *Oxidative Medicine and Cellular Longevity*, 2016, 1–44.
- Dobutovic, B., Sudar, E., Tepavcevic, S., Djordjevic, J., Djordjevic, A., Radojcic, M., & Isenovic, E. R. (2014). Experimental research Effects of ghrelin on protein expression of antioxidative enzymes and iNOS in the rat liver. *Archives of Medical Science*, 10(4), 806-816.
- Domitrović, R., Jakovac, H., Marchesi, V. V., Vladimir-Knežević, S., Cvijanović, O., Tadić, Ž., Romić, Ž & Rahelić, D. (2012). Differential hepatoprotective mechanisms of rutin and quercetin in CCl<sub>4</sub>-intoxicated BALB/cN mice. *Acta Pharmacologica Sinica*, 33(10), 1260-1270.
- Doshi, S. B., Khullar, K., Sharma, R. K., & Agarwal, A. (2012). Role of reactive nitrogen species in male infertility. *Reproductive Biology and Endocrinology*, 10(1), 1-11.
- Dos Santos, D. A., Vieira, P. C., Silva, M. F. G. F., Fernandes, J. B., Rattray, L., & Croft, S. L. (2009). Antiparasitic activities of acridone alkaloids from *Swinglea glutinosa* (Bl.) Merr. *Journal of the Brazilian Chemical Society*, 20(4) : 644-651.
- Dutta, S., Chakraborty, A. K., Dey, P., Kar, P., Guha, P., Sen, S., Kumar, A., Sen, A., & Chaudhuri, T. K. (2018). Amelioration of CCl<sub>4</sub> induced liver injury in swiss albino mice by antioxidant rich leaf extract of *Croton bonplandianus* Baill. *PLOS ONE*, 13(4), e0196411. 1-30.
- Elsawy, H., Badr, G. M., Sedky, A., Abdallah, B. M., Alzahrani, A. M., & Moneim, A. M. A. (2019). Rutin ameliorates carbon tetrachloride (CCl<sub>4</sub>)-induced hepatorenal toxicity and hypogonadism in male rats. *PeerJ*, 7, e7011. 1-15.
- Environmental Protection Agency (EPA). (2018). Extract of *Swinglea glutinosa*; Exemption from the Requirement of a Tolerance. In : *Federal Register (Rules & Regulation)*. 83(115) : 27711-27713.
- Fathima, S. J. & Khanum, F. (2017). Blood Cells and Leukocyte Culture—A Short Review. *Open Access Blood Research & Transfusion Journal*, 1(2). 1-2.
- Garibyan, L., & Avashia, N. (2013). Research techniques made simple: polymerase chain reaction (PCR). *The Journal of Investigative Dermatology*, 133(3), e6. 1-8.
- Goya E, Jorge E, Saucedo Y., Vander, H. Y. & Le, T. C. T. (2015) Antioxidant capacity and fatty acid profile of *Swinglea glutinosa* (Blanco) Merr, cultivated in Cuba. In : 4<sup>th</sup> International Symposium on Pharmacology of Natural Products FAPRONATURA 2015. *Journal of Pharmacy & Pharmacognosy Research*.
- Guerriero, G., Berni, R., Muñoz-Sánchez, J. A., Apone, F., Abdel-Salam, E. M., Qahtan, A. A., Alatar, A.A., Cantunu, C., Cal, G., Hausman, J. & Faisal, M. (2018). Production of plant secondary metabolites: Examples, tips and suggestions for biotechnologists. *Genes*, 9(6), 1-22.



- Guler, G., Seyhan, N., & Aricioglu, A. (2006). Effects of static and 50 Hz alternating electric fields on superoxide dismutase activity and TBARS levels in guinea pigs. *General Physiology and Biophysics*, 25(2), 177-193.
- Halliwell, B. (2006). Reactive species and antioxidants. Redox biology is a fundamental theme of aerobic life. *Plant Physiology*, 141(2), 312-322.
- Hameister, R., Kaur, C., Dheen, S. T., Lohmann, C. H., & Singh, G. (2020). Reactive oxygen/nitrogen species (ROS/RNS) and oxidative stress in arthroplasty. *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, 108(5), 2073–2087.
- Happell, J. D., & Roche, M. P. (2003). Soils: A global sink of atmospheric carbon tetrachloride. *Geophysical research letters*, 30(2), 1-4.
- Hardiningtyas, S. D., Purwaningsih, S., & Handharyani, E. (2014). Aktivitas antioksidan dan efek hepatoprotektif daun bakau api-api putih. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 17(1), 80-91.
- Hasan, A. E. Z., Nashrianto, H., Juhaeni, R. N., & Artika, I. M. (2016). Optimization of conditions for flavonoids extraction from mangosteen (*Garcinia mangostana* L.). *Der. Pharmacia Lettre*, 8(18), 114-120.
- Hickey, M. J., Granger, D. N., & Kubes, P. (2001). Inducible nitric oxide synthase (iNOS) and regulation of leucocyte/endothelial cell interactions: studies in iNOS-deficient mice. *Acta Physiologica Scandinavica*, 173(1), 119-126.
- Hikmawanti, N. P.E., Fatmawati, S., & Asri, A. W. (2021). The Effect of Ethanol Concentrations as The Extraction Solvent on Antioxidant Activity of Katuk (*Sauvagesia androgynus* (L.) Merr.) Leaves Extracts. *IOP Conference Series: Earth and Environmental Science*, 755(1), 012060. 1-8.
- Ighodaro, O. M., & Akinloye, O. A. (2018). First line defence antioxidants-superoxide dismutase (SOD), catalase (CAT) and glutathione peroxidase (GPX): Their fundamental role in the entire antioxidant defence grid. *Alexandria Journal of Medicine*, 54(4), 287–293.
- Ihedioha, J. I., Okafor, C., & Ihedioha, T. E. (2004). The haematological profile of the Sprague-Dawley outbred albino rat in Nsukka, Nigeria. *Animal Research International*, 1(2), 125-132.
- Ilavenil, S., Kaleeswaran, B., & Ravikumar, S. (2012). Protective effects of lycorine against carbon tetrachloride induced hepatotoxicity in Swiss albino mice. *Fundamental & Clinical Pharmacology*, 26(3), 393-401.
- Islam, M. O., Bacchetti, T., & Ferretti, G. (2019). Alterations of Antioxidant Enzymes and Biomarkers of Nitro-oxidative Stress in Tissues of Bladder Cancer. *Oxidative Medicine and Cellular Longevity*, 2019, 1–10.
- Jamal, Y., & Sulianti, S. B. (2008). Konstituen Kimia Minyak Atsiri Tiga Jenis Tumbuhan Famili Rutaceae. *Berita Biologi*, 9(3), 285-290.
- Katerji, M., Filippova, M., & Duerksen-Hughes, P. (2019). Approaches and methods to measure oxidative stress in clinical samples: Research applications in the cancer field. *Oxidative Medicine and Cellular Longevity*, 2019 : 1-29.
- Khan, I.A. (2007). *Citrus Genetics, Breeding and Biotechnology*. CABI : United Kingdom. p. 74.



- Kim, H. S., Jung, Y. Y., & Do, S. I. (2014). Hepatic inducible nitric oxide synthase expression increases upon exposure to hypergravity. *Brazilian Journal of Medical and Biological Research*, 47, 940-946.
- Kocyigit, A., & Selek, S. (2016). Exogenous Antioxidants are Double-edged Swords. *Bezmialem Science*, 4(2), 70–75.
- Kralik, P., & Ricchi, M. (2017). A Basic Guide to Real Time PCR in Microbial Diagnostics: Definitions, Parameters, and Everything. *Frontiers in Microbiology*, 8(108). 1-9.
- Kurutas, E. B. (2016). The importance of antioxidants which play the role in cellular response against oxidative/nitrosative stress: Current state. *Nutrition Journal*, 15(71). 1-22.
- Kuyumcu, F., & Aycan, A. (2018). Evaluation of Oxidative Stress Levels and Antioxidant Enzyme Activities in Burst Fractures. *Medical Science Monitor*, 24, 225–234.
- Lechner, M., Lirk, P., & Rieder, J. (2005). Inducible nitric oxide synthase (iNOS) in tumor biology: the two sides of the same coin. *Seminars in cancer biology* (Vol. 15, No. 4, pp. 277-289). Academic Press.
- Lestari, D. A. (2019). Storage Techniques of Recalcitrant Seeds: *Mesua ferrea* L. and *Swinglea glutinosa* (Blanco) Merr. *Jurnal Perbenihan Tanaman Hutan*, 7(1) : 31-44.
- Lezoul, N. E. H., Belkadi, M., Habibi, F., & Guillén, F. (2020). Extraction processes with several solvents on total bioactive compounds in different organs of three medicinal plants. *Molecules*, 25(20), 4672. 1-15.
- Lin, S.-Y., Dan, X., Du, X.-X., Ran, C.-L., Lu, X., Ren, S.-J., Tang, Z.-T., Yin, L.-Z., He, C.-L., Yuan, Z.-X., Fu, H.-L., Zhao, X.-L., & Shu, G. (2019). Protective Effects of Salidroside against Carbon Tetrachloride (CCl<sub>4</sub>)-Induced Liver Injury by Initiating Mitochondria to Resist Oxidative Stress in Mice. *International Journal of Molecular Sciences*, 20(13), 3187. 1-14.
- Li, R., Yang, W., Yin, Y., Ma, X., Zhang, P., & Tao, K. (2021). 4-OI attenuates carbon tetrachloride-induced hepatic injury via regulating oxidative stress and the inflammatory response. *Frontiers in Pharmacology*, 12(1238), 1-13.
- Makni, M., Chtourou, Y., Garoui, E. M., Boudawara, T., & Fetoui, H. (2012). Carbon tetrachloride-induced nephrotoxicity and DNA damage in rats: protective role of vanillin. *Human & Experimental Toxicology*, 31(8), 844-852.
- Maleki, D., Rad, A. H., Khalili, L., & Alipour, B. (2015). Antioxidants and natural compounds. In Basic Principles and Clinical Significance of Oxidative Stress. *IntechOpen*, 5 : 89-106.
- Marklund, S., & Marklund, G. (1974). Involvement of the superoxide anion radical in the autoxidation of pyrogallol and a convenient assay for superoxide dismutase. *European Journal of Biochemistry*, 47(3), 469-474.
- Munhoz, C. D., Garcia-Bueno, B., Madrigal, J. L. M., Lepsch, L. B., Scavone, C., & Leza, J. C. (2008). Stress-induced neuroinflammation: mechanisms and new pharmacological targets. *Brazilian Journal of Medical and Biological Research*, 41, 1037-1046.
- Mo, Y., Wan, R., & Zhang, Q. (2012). *Nanotoxicity*. Humana Press, Totowa, pp. 99-112.



- Nadzir, M. M., Idris, F. N., & Yi, C. J. (2020). Phenolic Compounds and Antioxidant Activities of Macerated Alpinia Galanga Stems and Leaves. *ASEAN Engineering Journal*, 10(1), 40-48.
- Nahor, E. M., Rumagit, B. I., & Tou, H. Y. (2020). Perbandingan Rendemen Ekstrak Etanol Daun Andong (*Cordyline futicosa* L.) Menggunakan Metode Ekstraksi Maserasi dan Sokhletasi. *PROSIDING Seminar Nasional Tahun 2020 ISBN: 978-623-93457-1-6* (pp. 40-44).
- National Institute of Health. (1974). *Environmental Health Perspective Supplements*. DHHS : United States. p. 35.
- Ngestiningsih, D., Rahayu, R. A., & Batubara, L. (2019). Effect of superoxide dismutase (SOD) supplementation on plasma levels of malondialdehyde (MDA), total cholesterol and LDL cholesterol in the elderly. *Journal of Biomedicine and Translational Research*, 5(2), 29-33.
- Nimse, S. B., & Pal, D. (2015). Free radicals, natural antioxidants, and their reaction mechanisms. *Royal Society of Chemistry Advances*, 5(35), 27986–28006.
- Ozturk, F., Ucar, M., Ozturk, I. C., Vardi, N., & Batcioglu, K. (2003). Carbon tetrachloride-induced nephrotoxicity and protective effect of betaine in Sprague-Dawley rats. *Urology*, 62(2), 353-356.
- Patlolla, A. K., Barnes, C., Yedjou, C., Velma, V. R., & Tchounwou, P. B. (2009). Oxidative stress, DNA damage, and antioxidant enzyme activity induced by hexavalent chromium in Sprague-Dawley rats. *Environmental Toxicology*, 24(1), 66-73.
- Phaniendra, A., Jestadi, D. B., & Periyasamy, L. (2015). Free radicals: properties, sources, targets, and their implication in various diseases. *Indian journal of Clinical Biochemistry*, 30(1) : 11-26.
- Pizzino, G., Irrera, N., Cucinotta, M., Pallio, G., Mannino, F., Arcoraci, V., Squadrito, F., Altavilla, D., & Bitto, A. (2017). Oxidative Stress: Harms and Benefits for Human Health. *Oxidative Medicine and Cellular Longevity*, 2017, 1–13.
- Ranjbar, A., Sharifzadeh, M., Karimi, J., Tavilani, H., Baeeri, M., & Abdollahi, M. (2014). Propofol attenuates toxic oxidative stress by CCl<sub>4</sub> in liver mitochondria and blood in rat. *Iranian Journal of Pharmaceutical Research*, 13(1), 253-262.
- Ramos-Tovar, E., & Muriel, P. (2020). Molecular mechanisms that link oxidative stress, inflammation, and fibrosis in the liver. *Antioxidants*, 9(12), 1-21.
- Roesler, R. (2011). Effect of extracts from araticum (*Annona crassiflora*) on CCl<sub>4</sub>induced liver damage in rats. *Food Science and Technology*, 31(1), 93-100.
- Rodriguez, C., Mayo, J. C., Sainz, R. M., Antolín, I., Herrera, F., Martín, V., & Reiter, R. J. (2004). Regulation of antioxidant enzymes: a significant role for melatonin. *Journal of Pineal Research*, 36(1), 1-9.
- Rosales, C. (2018). Neutrophil: A Cell with Many Roles in Inflammation or Several Cell Types. *Frontiers in Physiology*, 9(113). 1-17.
- Safitri, I., Handayani, V. & Waris, R. (2018). Identification and Antioxidant Activity of Alamanda Leaf (*Allamanda Cathartica* L.) Based on Solvent Variations. *International Journal of Advances in Science Engineering and Technology*. 6(3). 5-10.



- Sari, F. K., Nabawiyah, H., Putri, S. A., & Nurhayatun, R. A. (2021). Alteration in the Levels of Neutrophils and Lymphocytes in Male Wistar Rats (Second-Hand Smoker) with Marigold Leaves (*Cosmos caudatus* Kunth.). *Proceeding International Conference on Engineering, Technology and Social Science (ICONETOS 2020)* (pp. 234-238). Atlantis Press.
- Scholten, D., Trebicka, J., Liedtke, C., & Weiskirchen, R. (2015). The carbon tetrachloride model in mice. *Laboratory Animals*, 49(S1), 4-11.
- Septiani, G., Susanti, S., & Sucitra, F. (2021). Effect of Different Extraction Method on Total Flavonoid Contents of *Sansevieria trifasciata* P. Leaves Extract. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy)*, 7(2), 143-150.
- Shah, G., Zhang, G., Chen, F., Cao, Y., Kalyanaraman, B., & See, W. A. (2014). iNOS expression and NO production contribute to the direct effects of BCG on urothelial carcinoma cell biology. *Urologic Oncology: Seminars and Original Investigations*, 32(1), 45.e1-45.e9.
- Sharifi-Rad, M., Kumar, N. V. A., Zucca, P., Varoni, E. M., Dini, L., Panzarini, E., Rajkovic, J., Tsouh Fokou, P. V., Azzini, E., Peluso, I., Prakash Mishra, A., Nigam, M., El Rayess, Y., Beyrouthy, M. E., Polito, L., Iriti, M., Martins, N., Martorell, M., Docea, A. O., Setzer, W.N., Calina, D., Cho, W.C. & Sharifi-Rad, J. (2020). Lifestyle, Oxidative Stress, and Antioxidants: Back and Forth in the Pathophysiology of Chronic Diseases. *Frontiers in Physiology*, 11(694). 1-21.
- Sharma, R. K., Pasqualotto, F. F., Nelson, D. R., & Agarwall, A. (2001). Relationship between seminal white blood cell counts and oxidative stress in men treated at an infertility clinic. *Journal of Andrology*, 22(4), 575-583.
- Shields, H. J., Traa, A., & Van Raamsdonk, J. M. (2021). Beneficial and Detrimental Effects of Reactive Oxygen Species on Lifespan: A Comprehensive Review of Comparative and Experimental Studies. *Frontiers in Cell and Developmental Biology*, 9(628157). 1-27.
- Silitonga, M., & Silitonga, P. M. (2017). Haematological profile of rats (*Rattus norvegicus*) induced BCG and provided leaf extract of *Plectranthus amboinicus* Lour Spreng. *AIP Conference Proceedings*. 1868:(1) p. 090008-1 - 090008-7.
- Soto, M. E., Soria-Castro, E., Guarner Lans, V., Muruato Ontiveros, E., Iván Hernández Mejía, B., Jorge Martínez Hernandez, H., Garcia, R.B., Herrera, V. & Pérez-Torres, I. (2014). Analysis of oxidative stress enzymes and structural and functional proteins on human aortic tissue from different aortopathies. *Oxidative Medicine and Cellular Longevity*, 2014(760694). 1-13.
- Stachon, T., Latta, L., Seitz, B., & Szentháry, N. (2021). Hypoxic stress increases NF-κB and iNOS mRNA expression in normal, but not in keratoconus corneal fibroblasts. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 259(2), 449-458.
- Stashenko, E., Martínez, J. R., Medina, J. D., & Durán, D. C. (2015). Analysis of essential oils isolated by steam distillation from *Swinglea glutinosa* fruits and leaves. *Journal of Essential Oil Research*, 27(4), 276-282.



- Stephenie, S., Chang, Y. P., Gnanasekaran, A., Esa, N. M., & Gnanaraj, C. (2020). An insight on superoxide dismutase (SOD) from plants for mammalian health enhancement. *Journal of Functional Foods*, 68(103917). 1-10.
- Suarsana, I. N., Wresdiyati, T., & Suprayogi, A. (2013). Respon stres oksidatif dan pemberian isoflavon terhadap aktivitas enzim superoksida dismutase dan peroksidasi lipid pada hati tikus. *Jurnal Ilmu Ternak dan Veteriner*, 18(2), 146-152.
- Sule, O. J., Abdu, A. R., & Kiridi, K. (2016). Effect of *Carica papaya* (L) Leaves on Haematological Parameters in Ccl4-induced Wistar Albino Rats. *British Journal of Medicine & Medical Research*, 16(3), 1-6.
- Sultana, B., Anwar, F., & Ashraf, M. (2009). Effect of Extraction Solvent/Technique on the Antioxidant Activity of Selected Medicinal Plant Extracts. *Molecules*, 14(6), 2167–2180.
- Susanti, G. (2017). Efek anti inflamasi ekstrak daun binahong [anredera cordifolia (ten.) steenis] topikal terhadap jumlah pmn neutrofil pada tikus jantan sprague dawley. *Jurnal Kesehatan*, 8(3), 351-357.
- Susanty, S., & Bachmid, F. (2016). Perbandingan metode ekstraksi maserasi dan refluks terhadap kadar fenolik dari ekstrak tongkol jagung (*Zea mays* L.). *Jurnal Konversi*, 5(2), 87-92.
- Swan, M. P., & Hickman, D. L. (2014). Evaluation of the neutrophil-lymphocyte ratio as a measure of distress in rats. *Lab animal*, 43(8), 276-282.
- Syamsul, E. S., Anugerah, O., & Supriningrum, R. (2020). Penetapan Rendemen Ekstrak Daun Jambu Mawar (*Syzygium jambos* L. Alston) Berdasarkan Variasi Konsentrasi Etanol dengan Metode Maserasi. *Jurnal Riset Kefarmasian Indonesia*, 2(3), 147-157.
- Szyller, J., Kozakiewicz, M., Siermontowski, P., & Kaczerska, D. (2022). Oxidative Stress, HSP70/HSP90 and eNOS/iNOS Serum Levels in Professional Divers during Hyperbaric Exposition. *Antioxidants*, 11(5), 70-75.
- Tae, K. S., & Kim, S. J. (2012). Inhibition of iNOS and DNA oxidation by methanol extract of *Schizonepeta tenuifolia*. *Tropical Journal of Pharmaceutical Research*, 11(3), 397-404.
- Tangkas, P. J. W., Suarsana, I. N., & Gunawan, I. W. N. F. (2021). Profil Hematologi Tikus Putih yang Diberi Latihan Intensif dan Ekstrak Kulit Pisang Kepok. *Buletin Veteriner Udayana Volume*, 13(2), 206-216.
- Tvedten, H., & Raskin, R. E. (2012). Leukocyte Disorders. *Small Animal Clinical Diagnosis by Laboratory Methods*, 63–91.
- Unsal, V., Cicek, M., & Sabancilar, İ. (2021). Toxicity of carbon tetrachloride, free radicals and role of antioxidants. *Reviews on Environmental Health*, 36(2), 279–295.
- Valko, M., Leibfritz, D., Moncol, J., Cronin, M. T., Mazur, M., & Telser, J. (2007). Free radicals and antioxidants in normal physiological functions and human disease. *The International Journal of Biochemistry & Cell Biology*, 39(1), 44-84.



- Vladimir-Knežević, S., Cvijanović, O., Blažeković, B., Kindl, M., Štefan, M. B., & Domitrović, R. (2015). Hepatoprotective effects of Micromeria croatica ethanolic extract against CCl<sub>4</sub>-induced liver injury in mice. *BMC Complementary and Alternative Medicine*, 15(1), 1-12.
- Wang, Y., Branicky, R., Noë, A., & Hekimi, S. (2018). Superoxide dismutases: Dual roles in controlling ROS damage and regulating ROS signaling. *Journal of Cell Biology*, 217(6), 1915-1928.
- Washington, I.M. and Van Hoosier, G. (2012). *Clinical Biochemistry and Hematology* (Third edition). AP, Elsevier. p. 57-116.
- Weniger, B., Um, B. H., Valentin, A., Estrada, A., Lobstein, A., Anton, R., Maille, M. & Sauvain, M. (2001). Bioactive Acridone Alkaloids from *Swinglea glutinosa*. *Journal of Natural Products*, 64(9), 1221-1223.
- Widyastuti, D. A. (2013). Profit Darah Tikus Putih Wistar pada Kondisi Subkronis Pemberian Natrium Nitrit= Blood Profiles of Wistar RatS due to Subchronic Condition Caused by Sodium Nitrite. *Jurnal Sain Veteriner*, 31(2013). 201-215.
- Wirth, M. D., Sevoyan, M., Hofseth, L., Shivappa, N., Hurley, T. G., & Hébert, J. R. (2018). The Dietary Inflammatory Index is associated with elevated white blood cell counts in the National Health and Nutrition Examination Survey. *Brain, Behavior, and Immunity*, 69, 296–303.
- Wong, M. L., & Medrano, J. F. (2005). Real-time PCR for mRNA quantitation. *Biotechniques*, 39(1), 75-85.
- Yan, G. H., & Choi, Y. H. (2014). Sparassis crispa attenuates carbon tetrachloride-induced hepatic injury in rats. *Korean Journal of Physical Anthropology*, 27(3), 113-122.
- Zengin, E., Sinning, C., Zeller, T., Rupprecht, H. J., Schnabel, R. B., Lackner, K. J., Blankenberg, S., Westermann, D. & Bickel, C. (2015). Activity of superoxide dismutase copper/zinc type and prognosis in a cohort of patients with coronary artery disease. *Biomarkers in Medicine*, 9(6), 597-604.
- Zhafira, A. (2021). Potensi Ekstrak Etanolik Daun *Swinglea glutinosa* (Blanco) Merr. Sebagai Imunomodulator. Skripsi. Fakultas Biologi Universitas Gadjah Mada. Yogyakarta.
- Zhang, Q. W., Lin, L. G., & Ye, W. C. (2018). Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine*, 13(1), 1-26.
- Zhen, J., Lu, H., Wang, X. Q., Vaziri, N. D., & Zhou, X. J. (2008). Upregulation of endothelial and inducible nitric oxide synthase expression by reactive oxygen species. *American Journal of Hypertension*, 21(1), 28-34.