

DAFTAR PUSTAKA

- Adan, A., Kiraz, Y., & Baran, Y. 2016, 'Cell Proliferation and Cytotoxicity Assays.' *Current Pharmaceutical Biotechnology*, Vol. 17, No. 14, pp. 1213–1221.
- Adegbaju, O.D., Otunola, G.A., Afolayan, A.J. 2020, 'Anti-inflammatory and cytotoxic evaluation of extracts from the flowering stage of celosia argentea.' *BMC Complement Med Ther*, Vol. 20, No. 1, pp. 1-7.
- Alba, T.M., de Pelegrin, C.M.G., Sobottka, A.M. 2020, 'Ethnobotany, ecology, pharmacology, and chemistry of Anredera cordifolia (basellaceae): a review.' *Rodriguesia*, Vol. 71
- Andrabi, S.M., Sharma, N.S., Karan, A., Shahriar, S.M.S., Cordon, B., Ma, B., Xie, J. 2023, 'Nitric oxide: physiological functions, delivery, and biomedical applications.' *Advanced Science*, Vol. 10
- Arief, H., Aris, M. 2018, 'Peranan stres oksidatif pada proses penyembuhan luka, online.' *Jurnal Ilmiah Kedokteran Wijaya Kusuma*, Vol. 5, No. 2, pp. 22-29
- Arkiya, S., Hesampour, A., Esrafil, A., Arasteh, J. 2024, 'Effect of chitosan nanogels loaded with vancomycin and gamma interferon on TNF- α gene expression in macrophage cell line activated with methicillin-resistant Staphylococcus aureus (MRSA)' *Iranian Journal of Microbiology*, Vol. 16, No. 5, pp. 614-623
- Assays kits Reactive Oxygen Species Assay Kit.
- Ayu, P., Surbakti, A., De Queljoe, E., Boddhi, W. 2018, 'Skrining fitokimia dan uji toksisitas ekstrak etanol daun binahong (andredra cordifolia (ten.) Steenis) dengan metode brine shrimp lethality test (bslt).' *Pharmacon Jurnal Ilmiah Farmasi-UNSRAT*, Vol. 7, No. 3, pp. 22-31
- Baek, S.H., Park, T., Kang, M.G., Park, D. 2020, 'Anti-inflammatory activity and ROS regulation effect of sinapaldehyde in LPS-stimulated RAW 264.7 macrophages.' *Molecules*, Vol. 25, No. 4089
- Bahtiar, A., Utami, P.S., Noor, M. 2021, 'The antioxidant effects of the ethanolic extract of binahong leaves unilateral ureteral obstruction rat model.' *Pharmacognosy Journal*, Vol. 13, pp. 185–188
- Betriksia, D., Syahril Hamid, I., Suyatmiatun L. 2018, *Journal Of Pharmacy Science And Practice*, Vol. 5, No. 1, pp. 11-17
- Bhattacharyya, A., Chattopadhyay, R., Mitra, S., Crowe, S.E. 2014, 'Essential factor in the pathogenesis of gastrointestinal mucosal diseases.' *Physiol Rev*, Vol. 94, pp. 329–354.

- Body, M.S.C., Hartigan, M.P.M., Shernan, M.S.K., Formanek MD V., Hurford MD W.E. 1995, 'Nitric oxide: Delivery, measurement, and clinical application.' *J Cardiothorac Vasc Anesth* Vol. 9, pp. 748–763.
- Buhian, W.P.C., Rubio, R.O., Valle, D.L., Martin-Puzon, J.J. 2016, 'Bioactive metabolite profiles and antimicrobial activity of ethanolic extracts from *Muntingia calabura* L. leaves and stems.' *Asian Pac J Trop Biomed*, Vol. 6, pp. 682–685.
- Camargo, L.L., Harvey, A.P., Rios, F.J., Tsiropoulou, S., Da Silva, R.D.N.O., Cao, Z., Graham, D., McMaster, C., Burchmore, R.J., Hartley, R.C., Bulleid, N., Montezano, A.C., Touyz, R.M. 2018, 'Vascular nox (nadph oxidase) compartmentalization, protein hyperoxidation, and endoplasmic reticulum stress response in hypertension.' *Hypertension*, Vol. 72, pp 235–246.
- Candra, A., Santi, T. 2017, 'Efektivitas Esktrak Daun Pepaya sebagai Antiinflamasi' *Jurnal Aceh Medika*, Vol 1, No. 2, pp. 63-66
- Chan, M. M., Fong, D., Ho, T., Huang, H. 1997, 'Inhibition of inducible nitric oxide synthase gene expression and enzyme activity by epigallocatechin gallate a natural product from green tea' *Biochem Pharmacol*, Vol. 54, pp. 1281-286.
- Chen, L., Deng, H., Cui, H., Fang, J., Zuo, Z., Deng, J., Li, Y., Wang, X., Zhao, L. 2018, 'Inflammatory responses and inflammation-associated diseases in organ' *Oncotarget*, Vol. 9, No. 6 pp: 7204-7218
- Chibuike Ozougwu, J. 2016 'The role of reactive oxygen species and antioxidants in oxidative stress.' *Sryahwa Publications*, Vol. 3, No. 6, pp: 1-8
- Cinelli, M.A., Do, H.T., Miley, G.P., Silverman, R.B. 2020, 'Inducible nitric oxide synthase: Regulation, structure, and inhibition.' *HHS Public Access*, Vol. 40, No. 1, pp: 158-189.
- Czaja, A.J. 2014, 'Hepatic inflammation and progressive liver fibrosis in chronic liver disease.' *World J Gastroenterol*, Vol. 20, pp. 2515–2532
- Darwin, E., Elvira, D., Elfi, E.F. 2021, *Imunologi dan Infeksi*. Andalas University Press, Padang
- Davis. 2020, 'RAW 264.7 Cells.' Animal Cells, American Tissue Culture Collection, dilihat 8 September <<https://www.atcc.org/products/tib-71>>
- Damies. 2017, Heart Diseases. American Diabetes Association, dilihat 20 Agustus <<https://heart.org/>>
- Dhanasekar, C., Kalaiselvan, S., Rasool, M. 2015, 'Morin, a bioflavonoid suppresses monosodium urate crystal-induced inflammatory immune response in RAW 264.7 macrophages through the inhibition of inflammatory mediators, intracellular ROS levels and NF-κB activation.' *PLoS One*, Vol. 10, No. 12

- Djamil, R., Winarti, W., Zaidan, S., Abdillah, S. 2017, 'Antidiabetic activity of flavonoid from binahong leaves (*Anredera cordifolia*) extract in alloxan induced mice.' *J Pharmacognosy & Natural Products*, Vol. 03, No, 2
- Elliott. 2017. Diabetes. American Diabetes Association, dilihat 20 Agustus <<https://diabetes.org/>>
- Facchin, B.M., dos Reis, G.O., Vieira, G.N., Mohr, E.T.B., da Rosa, J.S., Kretzer, I.F., Demarchi, I.G., Dalmarco, E.M. 2022, 'Inflammatory biomarkers on an LPS-induced RAW 264.7 cell model: a systematic review and meta-analysis.' *Inflammation Research*, Vol. 71, pp: 741-758
- Fachriyah, E., Ayu, T., Kusriani, D. 2019, 'Identification of phenolic acid from ethanol extract leaves binahong (*Anredera cordifolia* (ten) stennis) and antioxidant activity test.' *Journal of Physics: Conference Series*. Institute of Physics Publishing, Vol. 1217
- Fernando, V., Zheng, X., Walia, Y., Sharma, V., Letson, J., Furuta, S. 2019, 'S-nitrosylation: An emerging paradigm of redox signaling.' *Antioxidants*, Vol. 8, No. 404
- Garmana, A.N., Sukandar, E.Y., Fidrianny, I. 2014, 'Activity of several plant extracts against drug-sensitive and drug-resistant microbes.' *Procedia Chem*, Vol. 13, pp. 164–169.
- Gede, I.P., Purwa Hita, A., Putu, I., Ardinata, R., Firdaus Wardhana, Z. 2023, 'Optimalisasi aktivitas antibakteri ekstrak etanol 70% daun binahong terhadap bakteri staphylococcus aureus' *Studi Klinis Farmasi Kesehatan Internasional*, Vol. 12, pp. 58–66.
- Giulia Battelli, M., Polito, L., Bortolotti, M., Bolognesi, A. 2016, 'Current medicinal chemistry the international journal for timely in-depth Reviews in Medicinal Chemistry' *Bentham Science*, Vol. 23, pp: 4027-403.
- Guijarro-Muñoz, I., Compte, M., Álvarez-Cienfuegos, A., Álvarez-Vallina, L., & Sanz, L. 2014, 'Lipopolysaccharide activates Toll-like receptor 4 (TLR4)-mediated NF- κ B signaling pathway and proinflammatory response in human pericytes.' *The Journal of biological chemistry*, Vol. 289, No. 4, pp. 2457–2468
- Goshi, E., Zhou, G., He, Q. 2019, 'Nitric oxide detection methods in vitro and in vivo.' *Med Gas Res*, Vol 9, No. 4, pp. 192-207
- Harshitha, R., Arunraj, D.R. 2021, 'Real-time quantitative PCR: A tool for absolute and relative quantification.' *Biochemistry and Molecular Biology Education* Vol. 49, pp. 800–812.
- Hendrayani, S.-F., Al-Harbi, B., Al-Ansari, M.M., Silva, G., Aboussekhra, A. 2016, 'The inflammatory/cancer-related IL-6/STAT3/NF- κ B positive feedback loop includes

- AUF1 and maintains the active state of breast myofibroblasts.' *Oncotarget*, Vol. 7, No. 27
- Ignarro, L.J., Buga, G.M., Wood, K.S., Byrns, R.E., Chaudhuri, G. 1987, 'Endothelium-derived relaxing factor produced and released from artery and vein is nitric oxide (endothelium-dependent relaxation/vascular smooth muscle/cyclic GMP).' *Medical Sciences*, Vol. 84, pp. 9265-9269
- Imananta, F.P., Sulistyaningsih. 2018, 'Penggunaan NSAIDs menginduksi peningkatan tekanan darah pada pasien arthritis.' *Farmaka*, Vol. 16, pp. 72–79.
- Kalay, S. Bodhi, W., Yamlean, P.V.Y. 2014, 'Uji efek antipiretik ekstrak etanol daun prasman ((*eupatorium triplinerve* vahl.) pada tikus jantan galur wistar (*rattus norvegicus* l.) yang diinduksi vaksin dtp hb).' *Pharmacon Jurnal Ilmiah Farmasi Unsrat*, Vol. 3 pp. 182-187.
- Kang, C.-H., Choi, Y.H., Choi, I.-W., Lee, J.-D., Kim, G.-Y. 2011, 'Inhibition of lipopolysaccharide-induced iNOS, COX-2, and TNF- α expression by aqueous extract of *Orixa japonica* in RAW 264.7 cells via suppression of NF- κ B activity' *Tropical Journal of Pharmaceutical Research*, Vol. 10, No. 2, pp. 161-168.
- Kang, C.H., Kim, J.S., Kim, H., Park, H.M., Paek, N.S. 2021, 'Heat-killed lactic acid bacteria inhibit nitric oxide production via inducible nitric oxide synthase and cyclooxygenase-2 in raw 264.7 cells.' *Probiotics Antimicrob Proteins*, Vol. 13, pp. 1530–1538.
- Karlina, Y 2024, 'Pengaruh variasi pelarut etanol-air terhadap aktivitas antioksidan ekstrak tempe.' *Jurnal Kartika Kimia* 7, Vol. 7, No. 2, pp. 113-120
- Kell, D.B., Pretorius, E 2015, 'On the translocation of bacteria and their lipopolysaccharides between blood and peripheral locations in chronic, inflammatory diseases: the central roles of LPS and LPS-induced cell death.' *Integrative Biology (United Kingdom)*, Vol. 7, pp. 1339–1377.
- Kurniawan, B., Ferly Aryana, W 2015, 'Cassia alata l for inhibiting the growth of bacteria.' *Escherichia coli J Majority*, Vol. 4, No. 4, pp. 100-104
- Laksmiawati, D.R., Widyastuti, A., Karami, N., Afifah, E., Rihibiha, D.D., Nufus, H., Widowati, W 2017, 'Anti-inflammatory effects of *Anredera cordifolia* and *Piper crocatum* extracts on lipopolysaccharide-stimulated macrophage cell line.' *Bangladesh J Pharmacol*, Vol. 12, pp. 35–40.
- Liang, Y., C., Huang, Y., T., Tsai, S., H., Lin-Shiau, S., Y., Chen, C., F., Lin, J., K. 1999, 'Suppression of inducible COX and nitric NO synthase by apigenin and related flavonoids in mouse macrophages,' *Carcinogenesis*, Vol. 20, pp. 1945–1952.
- Li, S., Liang, T., Zhang, Y., Huang, K., Yang, S., Lv, H., Chen, Y., Zhang, C., & Guan, X. 2021, 'Vitexin alleviates high-fat diet induced brain oxidative stress and

- inflammation via anti-oxidant, anti-inflammatory and gut microbiota modulating properties.' *Free radical biology & medicine*, Vol. 171, pp. 332–344.
- Maksum, I.M. 2018, *Patogenetika Investigasi Terapi Penyakit Mitokondria*, edk 1, BITREAD Publisher, Bandung.
- Marletta, M.A. 2021, 'Revisiting nitric oxide signaling: where was it, and where is it going?' *Biochemistry*, Vol. 60, pp. 3491-3496
- Mikkelsen, R. B., & Wardman, P. 2003, 'Biological chemistry of reactive oxygen and nitrogen and radiation-induced signal transduction mechanisms.' *Oncogene*, Vol. 22, No. 37, pp. 5734–5754.
- Musyaropah, R., Supriyatna, A. 2023, 'Efektivitas daun binahong (*Anredera scandens* (L.) Moq) sebagai obat penyembuhan berbagai luka the effectiveness of binahong leaves *Anredera scandens* (L.) Moq as a medicine for healing various wounds.' *An Idea Health Journal*, Vol. 3, No. 2, pp. 49-54
- Mutiara, G.P., Wiji Utami, Y. 2015, 'Efektifitas hidrogel binahong (*Anredera cordifolia* (ten.) Steenis) terhadap penurunan jumlah makrofag pada penyembuhan luka fase proliferasi tikus putih (*rattus norvegicus*) galur wistar kondisi hiperglikemia the effectiveness of binahong hydrogel (*anredera cordifolia* (ten) steenis) to reduce macrophages number in proliferation phase of wound on hyperglycemia rats (*rattus norvegicus*) wistar strain.' *Majalah Kesehatan FKUB*, Vol. 2, No. 1, pp. 29-40
- Nego, A., Sebayang, O. 2019, 'Efek kardi toksik obat kemoterapi doxorubicin.' *Jimki*, Vol. 7, No. 1
- Ng, R.F.L., Zainal Abidin, N., Shuib, A.S., Israf Ali, D.A. 2015, 'Inhibition of nitric oxide production by *Solanum melongena* and *Solanum macrocarpon* on RAW 264.7 cells.' *Front Life Sci*, Vol. 8, pp. 241–248
- Ningrum, I.S., Mujayanto, R., Rahman, E. 2022, 'Pengaruh Ekstrak Daun Binahong (*Anredera cordifolia* (Ten) Steenis) Terhadap Ekspresi Tumor Necrosis Factor- α (TNF- α) pada Ulkus Mulut.' *Konstelasi Ilmiah Mahasiswa UNISSULA*. pp. 21–28.
- Ningsih, I.S., Chatri, M., Advinda, L. 2023, 'Flavonoid Active Compounds Found In Plants Senyawa Aktif Flavonoid yang Terdapat Pada Tumbuhan.' *Serambi Biologi*, Vol 8, pp. 126–132.
- Ong W., Herr D., Sun G., Lin T. 2022, 'Anti-Inflammatory Effects of Phytochemical Components of *Clinacanthus nutans*.' *Molecules*.
- O'Shea, J., Schwartz, D., Villarino, A., Gadina, M., McInnes, B., Laurence, A. 2015, 'The JAK-STAT pathway: Impact on human disease and therapeutic intervention.' *Annu Rev*, Vol. 66, pp. 311–328.

- Page, M.J., Kell, D.B., Pretorius, E. 2022, 'The role of lipopolysaccharide-induced cell signalling in chronic inflammation.' *Chronic Stress*, Vol. 6, pp. 1-18
- Pahwa, R., Goyal, A., Jialal. 2023, 'Chronic Inflammation.' *StatPearls* <<https://www.ncbi.nlm.nih.gov/books/NBK493173/>>
- Perkasa, A.Y. 2023, 'An introduction to binahong (*Anredera cordifolia* (ten.) steenis) as a source of antioxidant compounds.' *Erciyes Tarım ve Hayvan Bilimleri Dergisi*, Vol. 6, pp. 16–20.
- Piacenza, L., Zeida, A., Trujillo, M., Radi, R. 2022, 'The superoxide radical switch in the biology of nitric oxide and peroxynitrite.' *Physiol Reviews*, Vol. 102, pp. 1881-1906
- Pisoschi, A., Pop, A. 2015, 'The role of antioxidants in the chemistry of oxidative stress: A review.' *European Journal of Medicinal Chemistry*, Vol. 97, pp. 55–74.
- Prakash, V. 2017, 'Terpenoids as Source of Anti-inflammatory compounds' *Asian Journal of Pharmaceutical and Clinical Research*, Vol. 10, No. 3
- Qi J, Pan Z, Wang X, Zhang N, He G, Jiang X.. 2024. 'Research advances of *Zanthoxylum bungeanum* Maxim. polyphenols in inflammatory diseases.' *Front Immunol*, Vol. 15
- Rahmawati, J., Maryati, M. 2021, 'Aktivitas sitotoksik dan antiproliferasi fraksi n-heksan biji alpukat (*Persea americana* mill.) terhadap sel T47D cytotoxic and antiproliferation activity of n-hexane fraction of avocado seed (*persea americana* mill) on T47D cell. *Jurnal Farmasi Indonesia*, Vol. 18, No. 1. pp. 38-46
- Rebecca, R., Hendrawan, S. 2023, 'Kapasitas Total Antioksidan dan Uji Toksisitas Ekstrak Daun Binahong (*Anredera cordifolia* (Ten.) Steenis).' *Jurnal Ilmiah Biologi*, Vol. 11, pp. 889.
- Ridnour, L., Thomas, D., Mancardi, D., Espey, M., Miranda, K., Paolocci, N., Feelisch, M., Fukuto, J. and Wink, D. 2004, 'The chemistry of nitrosative stress induced by nitric oxide and reactive nitrogen oxide species. Putting perspective on stressful biological situations.' *Biological Chemistry*, Vol. 385, No 1, pp. 1-10.
- Riss, T.L., Moravec, R.A., Niles, A.L. 2016, *Cell viability assays*, Eli Lilly & Company, New York
- Rizki A., Sitompul, T.. 2023, *Stres Oksidatif dan Penyakitnya*. Universitas Padjadjaran, Bandung
- Ryan, M., Rahardhian, R., Utami, D.. 2018, 'Uji sitotoksik dan antiproliferasi ekstrak eter daun binahong (*Andredera cordifolia* (tenore) steen.) terhadap sel HeLa' *Media Farmasi Indonesia*, Vol. 13, No. 1, pp. 1284-1293

- Sàadah, H., Nurhasnawati, H. 2015, 'Perbandingan pelarut etanol dan air pada pembuatan ekstrak umbi bawang tiwai (*Eleutherine americana merr*) menggunakan metode maserasi.' *Jurnal Ilmiah Manuntung*, Vol. 1, pp. 149–153.
- Santiago, L., Neto, R., Santos, C. 2021, 'Flavonoids, alkaloids and saponins: are these plant-derived compounds an alternative to the treatment of rheumatoid arthritis? A literature review.' *Clin Phytosci* Vol. 7, pp. 58.
- Senja, R.Y., Issusilaningtyas, E., Nugroho, A.K., Setyowati, E.P. 2014, 'The comparison of extraction method and solvent variation on yield and antioxidant activity of *Brassica oleracea* l. var. capitata f. rubra extract.' *Traditional Medicine Journal*, Vol. 19, No. 1, pp. 43-48
- Senoner, T., Dichtl, W.. 2019, 'Oxidative stress in cardiovascular diseases: Still a therapeutic target?' *Nutrients*, Vol. 11, No. 90
- SensiFAST™ qPCR Guide Superior Fast Gene Expression Analysis. Meridian Bioscience, New York
- Singh, N., Baby, D., Rajguru, J., Patil, P., Thakkannavar, S., Pujari, V.. 2019, 'Inflammation and cancer.' *Ann Afr*, Vol. 18, pp. 121–126.
- Sjahid, L.R., Aqshari, A., Sediarto, S.. 2020, 'Penetapan kadar fenolik dan flavonoid hasil ultrasonic assisted extraction daun binahong (*Anredera cordifolia* [ten] steenis).' *Jurnal Riset Kimia*, Vol. 11, pp. 16–23.
- Soleha, W.. 2020, 'Uji toksisitas ekstrak metanol daun binahong (*anredera cordifolia* (ten.) steenis) dengan metode brine shrimp lethality test (BSLT).' (Skripsi) Sekolah Tinggi Ilmu Kesehatan Muhammadiyah.
- Song, S.-Y., Matzinger, P. 2004, 'Hydrophobicity: an ancient damage associated molecular pattern that initiates innate immune responses.' *Nat Rev Immunol*, Vol. 4, pp. 469–478.
- Stuehr, D.J., Haque, M.M. 2019, 'NO synthase enzymology in the. 20 years after the Nobel Prize.' *Br J Pharmacol*, pp. 177–188.
- Sudiono, J., Gunawan, M., Maharani, R., Aipassa Stephanie. 2014, 'Efektifitas ekstrak daun binahong (*Anredera cordifolia* (tenore) steenis) terhadap candida albicans.' *Ebers Papyrus*, Vol. 2, pp. 9–18.
- 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*, Vol. 8, pp. 351–357.
- Tedjakusuma, F., Lo, D. 2022, 'Functional properties of *Anredera cordifolia* (Ten.) Steenis' *Earth and Environmental Science*, Vol. 5

- Virlando Suryadinata, R. 2018, 'Pengaruh radikal bebas terhadap proses inflamasi pada penyakit paru obstruktif kronis (PPOK)' *Nutrition*, Vol. 2, pp. 317-324
- Waage, A., & Bakke, O. (1988). 'Glucocorticoids suppress the production of tumour necrosis factor by lipopolysaccharide-stimulated human monocytes.' *Immunology*, Vol. 63, No. 2, pp. 299–302.
- Wang, Q., Xu, B., Fan, K., Wu, J., Wang, T. 2020, 'Inflammation suppression by dexamethasone via inhibition of CD147-mediated NF- κ B pathway in collagen-induced arthritis rats.' *Mol Cell Biochem*, Vol. 473, pp. 63–76.
- Werawati, A., Mumpuni, E., Ratih Laksmiawati, D., Abdillah, S. 2019, 'Pengaruh crude fukoidan dari ekstrak *Sargassum crassifolium* terhadap kadar icam-1 dan vcam-1 pada sel RAW 264.7 yang diinduksi lipopolisakarida.' *Jurnal Ilmu Kefarmasian Indonesia*, Vol. 17, No. 1, pp: 95-102
- Wu, X. 2024, 'Guidelines for anti-inflammatory assays in RAW 264.7 cells.' *Food Safety and Health*, Vol. 3, No. 1, pp. 1-9
- Wulandari, N. 2023, 'Uji Fitokimia dan Perbandingan Aktivitas Antiinflamasi Ekstrak Etanol Daun Muda dan Daun Tua Kopi Robusta Pupuan pada Tikus Putih Jantan Galur Wistar yang Diinduksi Karagenan.' (Skripsi) *Institut Teknologi dan Kesehatan Bali*, Denpasar.
- Yusmeiliza, Sintawati, K., Tumbol, M.L. 2016, 'Anredera cordifolia (Ten.) Steenis.' Badan Pengawas Obat dan Makanan, Jakarta. <
https://sim.uniqhba.ac.id/assets/upload/ebook/Binahong_Anredera_cordifolia.pdf>
- Yuswantina, R. 2009, 'Uji Aktivitas Penangkap Radikal dari Ekstrak Petroleum Eter, Etil Asetat, dan Etanol Rhizoma Binahong (*Anredera cordifolia* (Tenore) Steen) dengan Metode DPPH (2,2-difenil-1-pikrihidrazil).' (Skripsi) Universitas Muhammadiyah Surakarta, Surakarta.
- Yuziani, Harahap, U., Karsono. 2014 'Evaluation of Analgesic Activities of Ethanolic Extract of *Anredera Cordifolia* (Ten) Steenis Leaf.' *International Journal of PharmTech Research*, Vol. 6, No. 5, pp. 1
- Zhang, J., Liu, N., Sun, C., Sun, D., Wang, Y. 2019, 'Polysaccharides from: *Polygonatum sibiricum* Delar. ex Redoute induce an immune response in the RAW264.7 cell line via an NF- κ B/MAPK pathway.' *RSC Adv*, Vol. 9, pp. 17988–17994.
- Zhang, D., Ning, T., & Wang, H. 2022, 'Vitexin alleviates inflammation and enhances apoptosis through the regulation of the JAK/STAT/SOCS signaling pathway in the arthritis rat model.' *Journal of biochemical and molecular toxicology*, Vol. 36, No. 12
- Zigterman, B., Dubois, L. 2022 'Inflammation and infection: cellular and biochemical processes.' *Ned Tijdschr Tandheelkd*, Vol. 129, pp. 125–129.