

DAFTAR PUSTAKA

- Abubakar, A.R. and Haque, M., 2020. Preparation of medicinal plants: Basic extraction and fractionation procedures for experimental purposes. *Journal of pharmacy & bioallied sciences*, 12(1), p.1.
- Adan, A., Alizada, G., Kiraz, Y., Baran, Y. and Nalbant, A., 2017. Flow cytometry: basic principles and applications. *Critical reviews in biotechnology*, 37(2), pp.163-176.
- Alarifi, S., Ali, D., Ahamed, M., Siddiqui, M.A. and Al-Khedhairi, A.A., 2013. Oxidative stress contributes to cobalt oxide nanoparticles-induced cytotoxicity and DNA damage in human hepatocarcinoma cells. *International journal of nanomedicine*, pp.189-199.
- Apriani, R., Gaffar, S. and Herlina, T., 2019. Cytotoxic Activity of Ethyl Acetate Fraction *Moringa oleifera* Leaves and Its Effect on Apoptosis Induction Against T47D Breast Cancer Cell Line. *Jurnal Farmakobahari*, 10(1), pp.9-16.
- Arzumanian, V.A., Kiseleva, O.I. and Poverennaya, E.V., 2021. The curious case of the HepG2 cell line: 40 years of expertise. *International journal of molecular sciences*, 22(23), p.13135.
- Aykul, S. and Martinez-Hackert, E., 2016. Determination of half-maximal inhibitory concentration using biosensor-based protein interaction analysis. *Analytical biochemistry*, 508, pp.97-103.
- Brauchle, E., Thude, S., Brucker, S.Y. and Schenke-Layland, K., 2014. Cell death stages in single apoptotic and necrotic cells monitored by Raman microspectroscopy. *Scientific reports*, 4(1), pp.1-9.
- Bray, F., Ferlay, J., Soerjomataram, I., Siegel, R.L., Torre, L.A. and Jemal, A., 2018. Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: a cancer journal for clinicians*, 68(6), pp.394-424.
- Carneiro, B.A. and El-Deiry, W.S., 2020. Targeting apoptosis in cancer therapy. *Nature reviews Clinical oncology*, 17(7), pp.395-417.
- Chandramouli, B & K. Malliakrjuna. 2018. Studies on Phytochemistry and Biological Activities af Methanolic Extracts of Black Rice (*Oryza Sativa* L.) Reported in An Ancient Telugu Palm-Leaf Manuscript. *World Journal of Pharmaceutical Research*, 7(8): 1137-1172.
- Chen, P.N., Kuo, W.H., Chiang, C.L., Chiou, H.L., Hsieh, Y.S. and Chu, S.C., 2006. Black rice anthocyanins inhibit cancer cells invasion via repressions of MMPs and u-PA expression. *Chemico-biological interactions*, 163(3), pp.218-229.
- Choi, M.J., Kim, H.Y., and Cho, E.J. 2012. Anti-aging Effect of Black Rice Againsts H₂O₂-induced Premature Senescence. *Journal of Medicinal Plant Research*, 8(20): 3672-3680.

- Christanto, D.R., Mose, J.C., Yuniarti, T., Bestari, M.B., Fauziah, P.N., Purwestri, Y.A. and Munthe, J.N., 2021. Anti-angiogenic Effect of Black Rice Bran (*Oryza Sativa* L. 'Sembada Hitam') on Soluble Fms-Like Tyrosine Kinase and Placental Growth Factor in Preeclampsia. *Measurement*, 14, p.16.
- Christidi, E. and Brunham, L.R., 2021. Regulated cell death pathways in doxorubicin-induced cardiotoxicity. *Cell death & disease*, 12(4), p.339.
- Conara, F.C., 2022. Aktivitas Sitotoksik dan Induksi Apoptosis Ekstrak Etanolik Bekatul Beras Hitam (*Oryza sativa* L. 'Sembada Hitam') terhadap Sel Kanker Payudara T47D. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada. Yogyakarta.
- Damasuri, A.R. and Sholikhah, E.N., 2020. Cytotoxicity of ((E)-1-(4-aminophenyl)-3-phenylprop-2-en-1-one)) on hela cell line. *Indonesian Journal of Pharmacology and Therapy*, 1(2).
- Deng, G.F., Xu, X.R., Zhang, Y., Li, D., Gan, R.Y. and Li, H.B., 2013. Phenolic compounds and bioactivities of pigmented rice. *Critical reviews in food science and nutrition*, 53(3), pp.296-306.
- Dewatisari, W.F., 2020, September. Perbandingan pelarut kloroform dan etanol terhadap rendemen ekstrak daun lidah mertua (*Sansevieria trifasciata*. Prain) menggunakan metode maserasi. In *Prosiding Seminar Nasional Biologi* (Vol. 6, No. 1, pp. 127-132).
- Djati, M.S. and Rifa'i, M., 2013. Analisa Flow Cytometry pada Subpopulasi Sel T-Limfosit Bursa Fabricius Ayam Pedaging Pasca Infeksi *Salmonella typhimurium* dan Pemberian Pakan Tambahan *Polyscias obtusa*. *Biotropika: Journal of Tropical Biology*, 1(5), pp.206-210.
- Donato, M.T., Tolosa, L. and Gómez-Lechón, M.J., 2015. Culture and functional characterization of human hepatoma HepG2 cells. In *Protocols in In Vitro Hepatocyte Research* (pp. 77-93). Humana Press, New York, NY.
- Dubbelboer, I.R., Pavlovic, N., Heindryckx, F., Sjögren, E. and Lennernäs, H., 2019. Liver cancer cell lines treated with doxorubicin under normoxia and hypoxia: cell viability and oncologic protein profile. *Cancers*, 11(7), p.1024.
- Emam, M.A., Khattab, H.I. and Hegazy, M.G., 2019. Assessment of anticancer activity of *Pulicaria undulata* on hepatocellular carcinoma HepG2 cell line. *Tumor Biology*, 41(10), p.1010428319880080.
- Enaru, B., Dreţcanu, G., Pop, T.D., Stănilă, A. and Diaconeasa, Z., 2021. Anthocyanins: Factors affecting their stability and degradation. *Antioxidants*, 10(12), p.1967.
- Fitzmaurice, C., Allen, C., Barber, R.M., Barregard, L., Bhutta, Z.A., Brenner, H., Dicker, D.J., Chimed-Orchir, O., Dandona, R., Dandona, L. and Fleming, T., 2017. Global, regional, and national cancer incidence, mortality, years of life lost, years lived with disability, and disability-adjusted life-years for 32 cancer groups, 1990 to 2015: a systematic analysis for the global burden of disease study. *JAMA oncology*, 3(4), pp.524-548.

- Fong, D., Duceppe, N. and Hoemann, C.D., 2017. Mesenchymal stem cell detachment with trace trypsin is superior to EDTA for in vitro chemotaxis and adhesion assays. *Biochemical and biophysical research communications*, 484(3), pp.656-661.
- Forster, G.M., Raina, K., Kumar, A., Kumar, S., Agarwal, R., Chen, M.H., Bauer, J.E., McClung, A.M. and Ryan, E.P., 2013. Rice varietal differences in bioactive bran components for inhibition of colorectal cancer cell growth. *Food chemistry*, 141(2), pp.1545-1552.
- Ghasemi, M., Turnbull, T., Sebastian, S. and Kempson, I., 2021. The MTT assay: utility, limitations, pitfalls, and interpretation in bulk and single-cell analysis. *International journal of molecular sciences*, 22(23), p.12827.
- Gong, E.S., Luo, S.J., Li, T., Liu, C.M., Zhang, G.W., Chen, J., Zeng, Z.C. and Liu, R.H., 2017. Phytochemical profiles and antioxidant activity of brown rice varieties. *Food chemistry*, 227, pp.432-443.
- Górska-Warsewicz, H., Laskowski, W., Kulykovets, O., Kudlińska-Chylak, A., Cieczotko, M. and Rejman, K., 2018. Food products as sources of protein and amino acids—The case of Poland. *Nutrients*, 10(12), p.1977.
- Green, D.R. and Llamby, F., 2015. Cell death signaling. *Cold Spring Harbor perspectives in biology*, 7(12), p.a006080.
- Hidayat, R. and Adnindya, M.R., 2021. The Potential of CO2 Incubator" Sriwijaya CO2 Incubator" Against Cell Culture Proliferation In Invitro Study As Smart Controlling-Based CO2 Incubator For Cell Culture. *Bioscientia Medicina: Journal of Biomedicine and Translational Research*, 5(3), pp.268-271.
- Hoang, V.T., Stępniewski, G., Czarnecka, K.H., Kasztelanic, R., Long, V.C., Xuan, K.D., Shao, L., Śmietana, M. and Buczyński, R., 2019. Optical properties of buffers and cell culture media for optofluidic and sensing applications. *Applied Sciences*, 9(6), p.1145.
- Jablonská, E., Kubásek, J., Vojtěch, D., Ruml, T. and Lipov, J., 2021. Test conditions can significantly affect the results of in vitro cytotoxicity testing of degradable metallic biomaterials. *Scientific Reports*, 11(1), p.6628.
- Jenie, R.I., Handayani, S., Susidarti, R.A., and Meiyanto, E. 2020. The Effect of Brazilin from *Caesalpinia sappan* on Cell Cycle Modulation and Cell Senescence of T47D Cells. *Indonesian Journal of Pharmacy*, 31(2): 84- 91.
- Jun, H.I., Shin, J.W., Song, G.S. and Kim, Y.S., 2015. Isolation and identification of phenolic antioxidants in black rice bran. *Journal of food science*, 80(2), pp.C262-C268.
- Kaur, G. and Dufour, J.M., 2012. Cell lines: Valuable tools or useless artifacts. *Spermatogenesis*, 2(1), pp.1-5.
- Kntayya, S.B., Ibrahim, M.D., Ain, N.M., Iori, R., Ioannides, C., and Razis, A.F.A. 2018. Induction of Apoptosis and Cytotoxicity by Isothiocyanate Sulforaphene in Human Hepatocarcinoma HepG2 Cells. *Nutrients*, 10(718): 1-15.

- Kristamtini., Taryono., Basunanda, P., dan Murti, R.H. 2017. Korelasi Kandungan Antosianin Total dengan Peubah Warna (L^* , a^* , dan b^*) dan Penanda Mikrosatelit pada Beras Hitam. *Penelitian Pertanian Tanaman Pangan*, 1(2): 115-124.
- Kullenberg, F., Degerstedt, O., Calitz, C., Pavlović, N., Balgoma, D., Gråsjö, J., Sjögren, E., Hedeland, M., Heindryckx, F. and Lennernäs, H., 2021. In vitro cell toxicity and intracellular uptake of doxorubicin exposed as a solution or liposomes: Implications for treatment of hepatocellular carcinoma. *Cells*, 10(7), p.1717.
- Kumar, N. and Murali, R.D., 2020. Black Rice: A Novel Ingredient in Food Processing. *J Nutr Food Sci*, 10(2), p.771.
- Kumar, V., Abbas, A.K., Fausto, N. and Aster, J.C., 2014. *Robbins and Cotran pathologic basis of disease*, professional edition e-book. Elsevier health sciences.
- Kumar, V., Abbas, A.K., and Aster, J.C. 2015. *Robbins and Cotran Pathologic Basis of Disease*, 9th Ed. Philadelphia, PA: Elsevier Saunders. p 31-68.
- Kurashina, Y., Imashiro, C., Hirano, M., Kuribara, T., Totani, K., Ohnuma, K., Friend, J. and Takemura, K., 2019. Enzyme-free release of adhered cells from standard culture dishes using intermittent ultrasonic traveling waves. *Communications biology*, 2(1), p.393.
- Larsson, P., Engqvist, H., Biermann, J., Werner Rönnerman, E., Forssell-Aronsson, E., Kovács, A., Karlsson, P., Helou, K. and Parris, T.Z., 2020. Optimization of cell viability assays to improve replicability and reproducibility of cancer drug sensitivity screens. *Scientific reports*, 10(1), pp.1-12.
- Laube, R., Sabih, A.H., Strasser, S.I., Lim, L., Cigolini, M. and Liu, K., 2021. Palliative care in hepatocellular carcinoma. *Journal of Gastroenterology and Hepatology*, 36(3), pp.618-628.
- Le, X.T., Huynh, M.T., Pham, T.N., Than, V.T., Toan, T.Q., Bach, L.G. and Trung, N.Q., 2019. Optimization of total anthocyanin content, stability and antioxidant evaluation of the anthocyanin extract from Vietnamese *Carissa carandas* L. fruits. *Processes*, 7(7), p.468.
- Li, W., Zhou, J. and Xu, Y., 2015. Study of the in vitro cytotoxicity testing of medical devices. *Biomedical reports*, 3(5), pp.617-620.
- Liu, K., Liu, P.C., Liu, R. and Wu, X., 2015. Dual AO/EB staining to detect apoptosis in osteosarcoma cells compared with flow cytometry. *Medical science monitor basic research*, 21, p.15.
- Llovet, J.M., Kelley, R.K., Villanueva, A., Singal, A.G., Pikarsky, E., Roayaie, S., Lencioni, R., Koike, K., Zucman-Rossi, J. and Finn, R.S., 2021. Hepatocellular carcinoma. *Nat Rev Dis Primers*, pp.6-6.

- Lu, B., Chen, H.D. and Hong-Guang, H.G., 2012. The relationship between apoptosis and aging. *Advances in Bioscience and Biotechnology*, 3(06), pp.705-711.
- Lu, X., Zhou, Y., Wu, T., and Hao, L. 2014. Ameliorative Effect of Black Rice Anthocyanin on Senescent Mice Induced by D-galactose. *Food & Function*: 1-25.
- McKinnon, K.M., 2018. Flow cytometry: an overview. *Current protocols in immunology*, 120(1), 5.1.1-5.1.11. doi: 10.1002/cpim.40.
- Moko, E.M., Purnomo, H., Kusnadi, J. and Ijong, F.G., 2014. Phytochemical content and antioxidant properties of colored and non colored varieties of rice bran from Minahasa, North Sulawesi, Indonesia. *International Food Research Journal*, 21(3), p.1017.
- Nair, S.V., Hettihewa, M. and Rupasinghe, H.P., 2014. Apoptotic and inhibitory effects on cell proliferation of hepatocellular carcinoma HepG2 cells by methanol leaf extract of *Costus speciosus*. *BioMed research international*, 2014.
- Nguyen, N.T.L., Nguyen, B.D.T., Dai, T.T.X., Co, S.H., Do, T.T., Tong Thi, A.N., Oladapo, I.J. and Nguyen Cong, H., 2021. Influence of germinated brown rice-based flour modified by MAse on type 2 diabetic mice and HepG2 cell cytotoxic capacity. *Food Science & Nutrition*, 9(2), pp.781-793.
- Oktavya, G., Purwestri, Y.A., Saragih, H.T. and Nuriliani, A., 2023. Ethanolic Extract of Black Rice 'Sembada Hitam' Bran Protects the Cytotoxic Effect of H₂O₂ on NIH3T3 Cells. *Current Research in Nutrition and Food Science Journal*, 11(1), pp.389-400.
- Pal, I., 2018. Black Rice-An Extensive Review. *Paragon International Publishers*, p.126.
- Phetpornpaisan, P., Tippayawat, P., Jay, M. and Sutthanut, K., 2014. A local Thai cultivar glutinous black rice bran: A source of functional compounds in immunomodulation, cell viability and collagen synthesis, and matrix metalloproteinase-2 and-9 inhibition. *Journal of functional foods*, 7, pp.650-661.
- Pojer, E., Mattivi, F., Johnson, D. and Stockley, C.S., 2013. The case for anthocyanin consumption to promote human health: a review. *Comprehensive reviews in food science and food safety*, 12(5), pp.483-508.
- Prasad, B.J., Sharavanan, P.S., and Sivaraj, R. 2019. Health Benefits of Black Rice A Review. *Grain & Oil Science and Technology*, 2: 109-113.
- Pratiwi, R., Amalia, A.R. and Tunjung, W.A.S., 2019. Active Fractions of Black Rice Bran cv Cempo Ireng Inducing Apoptosis and S-phase Cell Cycle Arrest in T47D Breast Cancer Cells. *Journal of Mathematical & Fundamental Sciences*, 50(1).
- Pratiwi, R. and Purwestri, Y.A., 2017. Black rice as a functional food in Indonesia. *Functional Foods in Health and Disease*, 7(3), pp.182-194.

- Putra, B., Wahyuningsih, M.S.H., and Solikhah, E.N. 2017. Cytotoxic Activity of Simvastatin in T47D Breast Cancer Cell Lines and Its Effect on Cyclin D1 Expression and Apoptosis. *Journal Medical Science*, 49(2): 47-55.
- Rahim, M.A., Umar, M., Habib, A., Imran, M., Khalid, W., Lima, C.M.G., Shoukat, A., Itrat, N., Nazir, A., Ejaz, A. and Zafar, A., 2022. Photochemistry, Functional Properties, Food Applications, and Health Prospective of Black Rice. *Journal of Chemistry*, 2022.
- Rukmana, R.M., Soesilo, N.P. and Pratiwi, R., 2017. Chemopreventive activities of 'Woja Laka' black rice bran fractions on liver carcinoma HepG2 cells. *Biomedical and Pharmacology Journal*, 10(4), pp.1677-1684.
- Rukmana, R.M., Soesilo, N.P. and Rumiati, P.R., 2016. The effect of ethanolic extract of black and white rice bran (*Oryza sativa* L.) on cancer cells. *Indones J Biotechnol*, 21(1), pp.63-69.
- Savitri, I., Suhendra, L., dan Wartini, N.M. 2017. Pengaruh Jenis Pelarut Pada Metode Maserasi Terhadap Karakteristik Ekstrak *Sargassum polycystum*. *Jurnal REKAYASA DAN MANAJEMEN AGROINDUSTRI*, 5(3): 93-101.
- Segeritz, C.P. and Vallier, L., 2017. Cell culture: Growing cells as model systems in vitro. In *Basic science methods for clinical researchers* (pp. 151-172). Academic Press.
- Sharma, P., Shri, R. and Kumar, S., 2022. Phytochemical and In Vitro Cytotoxic Screening of Chloroform Extract of *Ehretia microphylla* Lamk. *Stresses*, 2(4), pp.384-394.
- Siregar, F. and Hadijono, B.S., 2000. Uji Sitotoksitas Dengan Esei MTT. *Journal of Dentistry Indonesia*, 7(1), pp.28-32.
- Sjafaraenan, S., Johannes, E. and Wulandari, S.N., 2019. Pengaruh Interval Dosis 2, 44-19, 53 μ G/ml Ekstrak N-heksana Dari Hydroid *Aglaopheniapressinalamoureux* Terhadap Aktivitas Pertumbuhan Selhela. *BIOMA: JURNAL BIOLOGI MAKASSAR*, 4(1), pp.11-19.
- Sladowski, D., Steer, S.J., Clothier, R.H. and Balls, M., 1993. An improved MIT assay. *Journal of immunological methods*, 157(1-2), pp.203-207.
- Srinivasan, R., Aruna, A., Lee, J.S., Kim, M., Shivakumar, M.S. and Natarajan, D., 2020. Antioxidant and antiproliferative potential of bioactive molecules ursolic acid and thujone isolated from *Memecylon edule* and *Elaeagnus indica* and their inhibitory effect on topoisomerase II by molecular docking approach. *BioMed research international*, 2020.
- Sugesh, S., Mayavu, P. and Sharma, S., 2014. Cytotoxic effects of two edible bivalves *Meretrix meretrix* and *Meretrix casta*. *African Journal of Pharmacy and Pharmacology*, 8(34), pp.832-840.
- Sumida, K., Igarashi, Y., Toritsuka, N., Matsushita, T., Abe-Tomizawa, K., Aoki, M., Urushidani, T., Yamada, H. and Ohno, Y., 2011. Effects of DMSO on gene

- expression in human and rat hepatocytes. *Human & experimental toxicology*, 30(10), pp.1701-1709.
- Susanty, S. and Bachmid, F., 2016. Perbandingan metode ekstraksi maserasi dan refluks terhadap kadar fenolik dari ekstrak tongkol jagung (*Zea mays* L.). *Jurnal Konversi*, 5(2), pp.87-92.
- Taghavi, T., Patel, H. and Rafie, R., 2023. Extraction Solvents Affect Anthocyanin Yield, Color, and Profile of Strawberries. *Plants*, 12(9), p.1833.
- Tang, W.H., Wang, C.F. and Liao, Y.D., 2021. Fetal bovine serum albumin inhibits antimicrobial peptide activity and binds drug only in complex with α 1-antitrypsin. *Scientific Reports*, 11(1), pp.1-13.
- Thanuja, B., and Parimalavalli, R. 2018. Role of Black Rice in Health and Diseases. *International Journal of Health Sciences and Research*, 8(2): 241-248.
- Thepthanee, C., Liu, C.C., Yu, H.S., Huang, H.S., Yen, C.H., Li, Y.H., Lee, M.R. and Liaw, E.T., 2022. Antioxidant Activity and Inhibitory Effects of Black Rice Leaf on the Proliferation of Human Carcinoma Cells. *BioMed Research International*, 2022.
- Thoppil, R.J. and Bishayee, A., 2011. Terpenoids as potential chemopreventive and therapeutic agents in liver cancer. *World journal of hepatology*, 3(9), p.228.
- Tsania, L., 2022. Aktivitas Sitotoksik dan Induksi Apoptosis Ekstrak Etanolik Bekatul Beras Hitam (*Oryza sativa* L. 'Sembada Hitam') terhadap Sel Kanker Serviks HeLa. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada. Yogyakarta.
- Tunjung, W.A., and Sayekti, P.R. 2019. Apoptosis Induction of Human Breast Cancer T47D Cell Line by Extracts of Ancorina sp. *F1000Research*, 8(168): 1-16.
- Verheijen, M., Lienhard, M., Schrooders, Y., Clayton, O., Nudischer, R., Boerno, S., Timmermann, B., Selevsek, N., Schlapbach, R., Gmuender, H. and Gotta, S., 2019. DMSO induces drastic changes in human cellular processes and epigenetic landscape in vitro. *Scientific reports*, 9(1), pp.1-12.
- Vichit, W. and Saewan, N., 2015. Antioxidant activities and cytotoxicity of Thai pigmented rice. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(7), pp.329-334.
- Wangen, R., Aasebø, E., Trentani, A., Døskeland, S.O., Bruserud, Ø., Selheim, F. and Hernandez-Valladares, M., 2018. Preservation method and phosphate buffered saline washing affect the acute myeloid leukemia proteome. *International Journal of Molecular Sciences*, 19(1), p.296.
- Wei, Z., Liu, X., Cheng, C., Yu, W. and Yi, P., 2021. Metabolism of amino acids in cancer. *Frontiers in cell and developmental biology*, 8, p.603837.
- Whika, F.D., Leni, R. and Ismi, R., 2017. Rendemen dan Skrining Fitokimia pada Ekstrak Daun Sansevieria sp. *Jurnal Penelitian Pertanian Terapan*, 17(3), pp.197-202.

- Widiyastuti, Y., Pratiwi, R., Riyanto, S. and Wahyuono, S., 2018. Cytotoxic activity and apoptosis induction of avocado *Persea americana* Mill. seed extract on MCF-7 cancer cell line. *Indonesian Journal of Biotechnology*, 23(2), pp.61-67.
- Widyaningtias, L.A.M., Yudono, P., dan Supriyanta. 2020. Identifikasi Karakter Morfologi dan Agronomi Penentu Kehampaan Malai Padi (*Oryza sativa* L.). *Vegetalika*, 9(2): 399-413.
- Xue, Y., Wang, J., Huang, Y., Gao, X., Kong, L., Zhang, T. and Tang, M., 2018. Comparative cytotoxicity and apoptotic pathways induced by nanosilver in human liver HepG2 and L02 cells. *Human & Experimental Toxicology*, 37(12), pp.1293-1309.
- Yang, J.D., Hainaut, P., Gores, G.J., Amadou, A., Plymoth, A. and Roberts, L.R., 2019. A global view of hepatocellular carcinoma: trends, risk, prevention and management. *Nature reviews Gastroenterology & hepatology*, 16(10), pp.589-604.
- Yoon, J., Ham, H., Sung, J., Kim, Y., Choi, Y., Lee, J.S., Jeong, H.S., Lee, J. and Kim, D., 2014. Black rice extract protected HepG2 cells from oxidative stress-induced cell death via ERK1/2 and Akt activation. *Nutrition research and practice*, 8(2), pp.125-131.
- Yulianingtyas, A., dan Kusmartono, B. 2016. Optimisasi Volume Pelarut dan Waktu Maserasi Pengambilan Flavonoid Daun Belimbing Wuluh (*Averrhoa bilimbi* L.). *Jurnal Teknik Kimia*, 10(2): 58-64.
- Zerbinati, N., Lotti, T., Monticelli, D., Rauso, R., González-Isaza, P., D'Este, E., Calligaro, A., Sommatis, S., Maccario, C., Mocchi, R. and Lotti, J., 2018. In vitro evaluation of the biosafety of hyaluronic acid PEG cross-linked with micromolecules of calcium hydroxyapatite in low concentration. *Open access Macedonian journal of medical sciences*, 6(1), p.15.
- Zhang, H., Kai, G., Xia, Y., Wang, G. and Ai, L., 2020. Antioxidant and in vitro digestion property of black rice (*Oryza sativa* L.): a comparison study between whole grain and rice bran. *International Journal of Food Engineering*, 16(9).
- Zhang, Q.W., Lin, L.G., and Ye, W.C. 2018. Techniques for Extraction and Isolation of Natural Products: a Comprehensive Review. *Chinese Medicine*, 13(20): 1-26.
- Zhang, Q., Bao, J. and Yang, J., 2019. Genistein-triggered anticancer activity against liver cancer cell line HepG2 involves ROS generation, mitochondrial apoptosis, G2/M cell cycle arrest and inhibition of cell migration and inhibition of cell migration. *Archives of Medical Science*, 15(4), pp.1001-1009.
- Zhang, S., Liu, X., Bawa-Khalfe, T., Lu, L.S., Lyu, Y.L., Liu, L.F. and Yeh, E.T., 2012. Identification of the molecular basis of doxorubicin-induced cardiotoxicity. *Nature medicine*, 18(11), pp.1639-1642.
- Zulfafamy, K.E. and Budijanto, S., 2018. Antioxidative properties and cytotoxic activity against colon cancer cell WiDr of *Rhizopus oryzae* and *Rhizopus*

oligosporus-fermented black rice bran extract. *Current Research in Nutrition and Food Science Journal*, 6(1), pp.23-34.