

## DAFTAR PUSTAKA

- Abbas, P., Hasyim, Y.Z.H.-Y. dan Salleh, H.M. 2019. Uninfected agarwood branch extract possess cytotoxic and inhibitory effects on MCF-7 breast cancer cells. *Journal of Research in Pharmacy*, 23(1): 120-129.
- Abbas, P., Hashim, Y.Z.H.-Y., Salleh, H.M. dan Azzizz, S.S.S.A. 2020. Agarwood branch ethanolic extract: Optimal extraction process conditions and cytotoxic effects. *Biological and Natural Resources Engineering Journal*, 3(2): 7-26.
- Abubakar, A.R. dan Haque, M. 2020. Preparation of medicinal plants: Basic extraction and fractionation procedures for experimental purposes. *Journal of Pharmacy and Bioallied Sciences*, 12(1): 1-10.
- Ahmad, I. dan Shagufta. 2015. Recent developments in steroidal and nonsteroidal aromatase inhibitors for the chemoprevention of estrogen-dependent breast cancer. *European Journal of Medicinal Chemistry*, 102: 375–386.
- Akindele, A.J., Wani, Z.A., Sharma, S., Mahajan, G., Satti, N.K., Adeyemi, O.O., Mondhe, D.M. dan Saxena, A.K. 2015. In vitro and in vivo anticancer activity of root extracts of *Sansevieria liberica* Gerome and Labroy (Agavaceae). *Evidence-Based Complementary and Alternative Medicine*, 560404: 1-11.
- Akter, M., Huda, M.K. dan Hoque, M.M. 2018. Investigation of secondary metabolites of nine medicinally important orchids of Bangladesh. *Journal of Pharmacognosy and Phytochemistry*, 7(5): 602-606.
- Alkandahri, M.Y., Siahaan, P.N., Salim, E. dan Fatimah, C. 2018. Anti inflammatory activity of cep-cepan leaves (*Castanopsis costata* (Blume) ADC). *International Journal of Current Research in Medical Sciences*, 8: 424–429.
- Ammerman, N.C., Beier-Sexton, M. dan Azad, A.F. 2008. Growth and maintenance of Vero cell lines. *Current Protocols in Microbiology*: 1-10.
- Aziz, A., Taha, H., Mohebbali, M., Chung, Y.L., Ismail, N.H., Bakar, M.Z.A. dan Yusof, F.Z.M. 2016. Anti-cancer potential of *Pseuduvaria macrophylla* in human cancer cell lines. *Journal of Advanced Research in Applied Sciences and Engineering Technology*, 4(1): 1-11
- Azwanida, N.N. 2015. A Review on the extraction methods use in medicinal plants, principle, strength and limitation. *Medicinal and Aromatic Plants*, 4(3): 1-6.
- Bamodu, O.A., Huang, W.C., Tzeng, D.T., Wu, A., Wang, L.S., Yeh, C.T. dan Chao, T.Y. 2015. Ovatodiolide sensitizes aggressive breast cancer cells to doxorubicin anticancer activity, eliminates their cancer stem cell-like phenotype, and reduces doxorubicin-associated toxicity. *Cancer Letters*, 364: 125–134.
- Barstow, M. dan Kartawinata, K. 2018. *Castanopsis argentea* (Sarangan).

<https://www.iucnredlist.org/species/62004506/62004510>. Diakses pada tanggal 2 Februari 2022 pukul 10.59.

- Bele, A.A. dan Khale, A. 2011. An overview on thin layer chromatography. *International Journal of Pharmaceutical Science and Research*, 2(2): 256-267.
- Cacique, A.P., Barbosa, É.S., Pinho, G.P.de. dan 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.
- Chasteen, T.G. 2009. *Split/Splitless Gas Chromatography Injection*. Sam Houston State University. Huntsville.
- Cheuk, M.L. dan Fischer, G.A. 2021. The impact of climate change on the distribution of *Castanopsis* (Fagaceae) species in South China and Indo China region. *Global Ecology and Conservation*, 26: 1-14.
- Correia, R., Duarte, M.P., Maurício, E.M., Brinco, J., Quintela, J.C., da Silva, M.G. dan Gonçalves, M. 2022. Chemical and functional characterization of extracts from leaves and twigs of *Acacia dealbata*. *Processes*, 10(2429): 1-21.
- Damasuri, A.R., Sholikhah, E.N. dan Mustofa. 2020. Cytotoxicity of ((E)-1-(4-aminophenyl)-3-phenylprop-2-en-1-one)) on Helacell line. *Indonesian Journal of Pharmacology and Therapy*, 1(2): 54-59
- Dewi, M. K., Trusda, S.A.D. dan Yuniarti, L. 2021. Antagonic effect of soursop leaf aqueous extract and doxorubicin combination in MCF7 and T47D breast cancer cell. *Global Medical and Health Communication*, 9(3): 233-238.
- Dhaniaputri, R., Suwono, H., Amin, M. dan Lukiat, B. 2022. Introduction to plant metabolism, secondary metabolites biosynthetic pathway, and in-silico molecular docking for determination of plant medicinal compounds: An overview. *Advances in Biological Sciences Research*, 22: 373-382
- Dhar, M.L., Dhawan, B.N., Prasad, C.R., Rastogi, R.P., Singh, K.K. dan Tandon, J.S. 1974. Screening of Indian plants for biological activity: Part V. *Indian Journal of Experimental Biology*, 12: 512-523.
- Direktorat Jenderal Konservasi Sumber Daya Alam dan Ekosistem. 2018. *Saninten Riwayatmu Kini*. <http://ksdae.menlhk.go.id/info/4674/saninten-riwayatmu-kini.html>. Diakses pada tanggal 6 Maret 2022 pukul 22.10.
- Do, Q.D., Angkawijaya, A.E., Tran-Nguyen, P.L., Huynh, L.H., Soetaredjo, F.E., Ismadji, S. dan Ju, Y. 2014. Effect of extraction solvent on total phenol content, total flavonoid content, and antioxidant activity of *Limnophila aromatica*. *Journal of Food and Drug Analysis*, 22(3): 296-302.
- Dolai, N., Karmakar, I., Kumar, R.B., Bala, A., Mazumder, U.K. dan Haldar, P.K. 2012. Antitumor potential of *Castanopsis indica* (Roxb. ex Lindl.) A. DC. leaf extract against Ehrlich's ascites carcinoma cell. *Indian Journal of Experimental Biology*, 50(5): 359-365.

- Dolai, N., Karmakar, I., Kumar, R.B.S., Kar, B., Bala, A. dan Haldar, P.K. 2012. Free radical scavenging activity of *Castanopsis indica* in mediating hepatoprotective activity of carbon tetrachloride intoxicated rats. *Asian Pacific Journal of Tropical Biomedicine*, Supplement: S242-S251.
- Dwira, S., Fadhillah, M.R., Fadilah, F., Azizah, N.N., Putrianingsih, R. dan Kusmardi, K. 2019. Cytotoxic activity of ethanol and ethyl acetate extract of kenikir (*cosmos caudatus*) against cervical cancer cell line (HELA). *Research Journal of Pharmacy and Technology*, 12(3): 1225-1229
- Dwira, S., TP, A., Fadilah, F., Azizah, N.N. dan Erlina, L. 2020. Comparison of cytotoxicity between ethyl acetate and ethanol extract of white turmeric (*Kaempferia rotunda*) rhizome extract against HeLa cervical cancer cell activity. *Pharmacognosy Journal*, 12(6): 1297-1302.
- Fajarina, S., Prabowo, B.H., Damayanti, F., Widyasari, A., Sasongko, A.B., Indrianto, A., Semiarti, E., Hidayati, L. dan Tunjung, W.A.S. 2021. Evaluation of anticancer bioactive compounds and cytotoxicity of *Citrus hystrix* Dc. callus extract post preservation. *Indonesian Journal of Pharmacy*, 32(2): 179-192
- Ferlay, J., Laversanne, M., Ervik, M., Lam, F., Colombet, M., Mery, L., Piñeros, M., Znaor, A., Soerjomataram, I. dan Bray, F. 2020. *Global Cancer Observatory: Cancer Tomorrow*. Lyon, France: International Agency for Research on Cancer. <https://gco.iarc.fr/tomorrow>. Diakses pada tanggal 23 Maret 2022 pukul 11.29.
- Figueiredo, C.R., Matsuo, A.L., Massaoka, M.H., Girola, N., Azevedo, R.A., Rabaca, A.N., Farias, C.F., Pereira F.V., Matias, N.S., Silva L.P., *et al.* 2014. Antitumor activity of *Kielmeyera coriacea* leaf constituents in experimental melanoma, tested in vitro and in vivo in syngeneic mice. *Advanced Pharmaceutical Bulletin*, 4(Supplement 1): 429-436
- Global Biodiversity Information Facility (GBIF). 2015. *Castanopsis argentea* (Blume) A.DC. <https://www.gbif.org/species/176837937>. Diakses pada tanggal 2 Februari 2022 pukul 11.00.
- Handayani, S. 2012. *Identifikasi Golongan Senyawa Potensial Penghambat Pertumbuhan Sel Kanker Payudara (T47D) Organ Vegetatif Dendrobium lasianthera J.J. Sm.* Tesis. Yogyakarta. Hal: 31-40, 50-81.
- Haryanti, S. dan Widiyastuti, Y. 2017. Aktivitas sitotoksik pada sel MCF-7 dari tumbuhan Indonesia untuk pengobatan tradisional kanker payudara. *Media Litbangkes*, 27(4): 247-254.
- Haryoto, Irjayanti, A.N., Suhendi, A., Muhtadi dan Sujono, T.A. 2015. Cytotoxic activity of polar, semipolar, and non polar fraction of ethanol extract of Sala (*Cynometra ramiflora* Linn.) plant leaves againsts WiDr cell. *Chemistry*, 60-64.
- Hidayat, R. dan Wulandari, P. 2021. Methods of extraction: Maceration, percolation and decoction. *Eureka Herba Indonesia*, 2(1): 68-74.

- Hotmian, E., Suoth, E., Fatimawali dan Tallei, T. 2021. Analisis GC-MS (Gas chromatography-mass spectrometry) ekstrak metanol dari umbi rumput teki (*Cyperus rotundus* L.). *Pharmacon*, 10(2): 849-856
- Hsiung, W.Y. dan Kadir, H.A. 2011. *Leea indica* ethyl acetate fraction induces growth-inhibitory effect in various cancer cell lines and apoptosis in ca ski human cervical epidermoid carcinoma cells. *Evidence-Based Complementary and Alternative Medicine*: 1-13.
- Hussain, S.Z. dan Maqbool, K. 2014. GC-MS: Principle, technique, and its application in food science. *International Journal of Current Science*, 13: 116-126.
- Imran, A., Qamar, H.Y., Ali, Q. dan Naeem, H. 2017. Role of molecular biology in cancer treatment: A review article. *Iranian Journal of Public Health*, 46(11): 1475-1485.
- Ingle, K.P., Deshmukh, A.G., Padole, D.A., Dudhare, M.S., Moharil, M.P. dan Khelurkar, V.C. 2017. Phytochemicals: Extraction methods, identification, and detection of bioactive compounds from plant extracts. *Journal of Pharmacognosy and Phytochemistry*, 6: 32-36.
- International Tropical Timber Organization (ITTO). 2017. *ITTO: Lesser Used Species Database*. <http://www.tropicaltimber.info/>. Diakses pada tanggal 6 Maret 2022 pukul 22.00.
- Kabera, J.N., Semana, E., Mussa, A.R. dan He, X. 2014. Plant secondary metabolites: Biosynthesis, classification, function and pharmacological properties. *Journal of Pharmacy and Pharmacology*, 2: 377-392.
- Kayali, D., Korhan, B.E., Cavdaroglu, S., Sen, A. dan Aktas, R.G. 2022. Assesment of cytotoxic and apoptotic effects of extracts of *Tanacetum argenteum* Subsp. *Argenteum* in liver and breast cancer cell lines. *Research and Science Today Journal*, 2(24): 307-321.
- Ko, E.Y. dan Moon, A. 2015. Natural products for chemoprevention of breast cancer. *Journal Cancer of Prevention*, 20(4): 223–231.
- Kumar, S., Baldi, A. dan Sharma, D.K. 2021. In vitro antioxidant assay guided ex vivo investigation of cytotoxic effect of phytosomes assimilating taxifolin rich fraction of *Cedrus deodara* bark extract on human breast cancer cell lines (MCF7). *Journal of Drug Delivery Science and Technology*, 63(2021): 1-15.
- Lee, A.V., Oesterreich, S. dan Davidson, N.E. 2015. MCF-7 cells—Changing the course of breast cancer research and care for 45 years. *Journal of the National Cancer Institute*, 107(7): 1-4.
- Lica, J.J., Wieczór, M., Grabe, G.J., Heldt, M., Jancz, M., Misiak, M., Gucwa, K., Brankiewicz, W., Maciejewska, N., Stupak, A., Bagiński, M., Rolka, K., Hellmann, A. dan Składanowski, A. 2021. Effective drug concentration and selectivity depends on fraction of primitive cells. *International Journal of Molecular Sciences*, 22(9): 4931.

- Marjoka, A., Alam, O. dan Huda, M.K. 2016. Phytochemical screening of three medicinally important epiphytic orchids of Bangladesh. *Jahangirnagar University Journal Biology Science*, 5(1): 95-99.
- Maurya, A., Kalani, K., Verma, S.C., Singh, R. dan Srivastava, A. 2018. Vacuum liquid chromatography: Simple, efficient and versatile separation technique for natural products. *Organic and Medicinal Chemistry International Journal*, 7(2): 1-3.
- Nabilla, I.I. dan Indrayudha, P. 2019. Aktivitas sitotoksik ekstrak etanol, fraksi etanol, etil-asetat, dan heksana kulit jeruk purut (*Citrus hystrix* DC.) terhadap sel kanker payudara T47D. *Pharmacon: Jurnal Farmasi Indonesia*, 16(1): 11-17.
- Nakamura, M., Ra, J-H., Jee, Y. dan Kim, J-S. 2017. Impact of different partitioned solvents on chemical composition and bioavailability of *Sasa quelpaertensis* Nakai leaf extract. *Journal of Food and Drug Analysis*, 25(2): 316-326.
- Nelson, V.K., Sahoo, N.K., Sahu, M., Sudhan, H.H., Pullaiah, C.P. dan Muralikrishna, K.S. 2020. In vitro anticancer activity of *Eclipta alba* whole plant extract on colon cancer cell HCT-116. *BMC Complementary Medicine and Therapies*, 20(355): 1-8
- Nurdiana, D.R. dan Buot, I.E. 2021. Vegetation community and species association of *Castanopsis* spp. at its habitat in the remnant forest of Cibodas Botanical Garden, Indonesia. *Biodiversitas*, 22(11): 4799-4807.
- Nuringtyas, T.R., Pratama, Y., Galih, Wahyuono, S. dan Moeljopawiro, S. 2014. Cytotoxicity of buah Merah (*Pandanus conoideus* Lamk.) extract on breast cancer cell line (T47D). *Indonesian Journal of Biotechnology*, 19(1): 71-78.
- Oh, J.M., Jang, H., Kang, M., Song, S., Kim, D., Kim, J., Noh, J., Park, J.E., Park, D., Yee, S., *et al.* 2021. Acetylcholinesterase and monoamine oxidase-B inhibitory activities by ellagic acid derivatives isolated from *Castanopsis cuspidata* var. *Sieboldii*. *Scientific Reports*, 11(13953): 1-15.
- Pamungkas, A. dan Indrayudha, P. 2019. Aktivitas sitotoksik ekstrak etanol, fraksi etanol-air, etil asetat serta n-heksana buah pare (*Momordica Charantia*) pada sel MCF-7 secara in-vitro. *Pharmacon: Jurnal Farmasi Indonesia*, 16(2): 73-82.
- Pant, P. dan Rastogi, R.R. 1977. Castonopsone and castonopsol two new triterpenoids from *Castanopsis indica*. *Phytochemistry*, 17: 1787-1789.
- Pearce, A., Haas, M., Viney, R., Pearson, S.A., Haywood, P., Brown, C. dan Wars, R. 2017. Incidence and severity of self-reported chemotherapy side effects in routine care: A prospective cohort study. *PLOS ONE*, 12(10): e0184360.
- Priyadi, M., Haryoto, H., Anggraeni, A.D. dan Khong, H.Y. 2021. Phytochemical and cytotoxic test of *Durio kutejensis* root bark on MCF-7 cells. *Borneo Journal of Pharmacy*, 4(1): 1-5



- Purwaningsih dan Polosakan, R. 2016. Keanekaragaman jenis dan sebaran Fagaceae di Indonesia. *Ethos (Jurnal Penelitian dan Pengabdian Masyarakat)*, 4(1): 85-92.
- Razak, N.A., Abu, N., Ho, W.Y., Zamberi, N.R., Tan, S.W., Alitheen, N.B., Long, K. dan Yeap, S.K. 2019. Cytotoxicity of eupatorin in MCF-7 and MDA-MB-231 human breast cancer cells via cell cycle arrest, anti-angiogenesis and induction of apoptosis. *Scientific Reports*, 9(1514): 1-12.
- Rubiyanto, D. 2016. *Teknik Dasar Kromatografi*. Deepublish: Yogyakarta, pp. 29-32.
- Rueda, E.M.S., Restrepo, R.A., Loango, N., Restrepo, B., Landazuri, P. dan Rai, M. 2019. Potential anti-cancer, cytotoxic and antioxidant of polar and non-polar extracts of *Origanum majorana* Linn. *Indian Journal of Science and Technology*, 12(1): 1-6.
- Salim, M., Susanto, A. dan Stefanus, D. 2014. Terapi nanopartikel albumin kurkumin atasi kanker payudara multidrug resistant. *Continuing Professional Development*, 41(9): 710-714.
- Sharma, M., Grewal, K., Jandrotia, R., Batish, D.R., Singh, H.P. dan Kohli, R.K. 2022. Essential oils as anticancer agents: Potential role in malignancies, drug delivery mechanisms, and immune system enhancement. *Biomedicine & Pharmacotherapy*, 146: 112514.
- Shikov, A.N., Mikhailovskaya, I.Y., Narkevich, I.A., Flisyuk, E.V. dan Pozharitskaya, O.N. 2022. *Evidence-Based Validation of Herbal Medicine: Translational Research on Botanicals*. Elsevier Inc. Boston.
- Sianipar, N.F., Maarisit, W. dan Valencia, A. 2013. Toxic activities oc hexane extract and column chromatography fractions of rodent tuber plant (*Typhonium flagelliforme* Lodd.) on *Artemia salina*. *Indonesian Journal of Agricultural Science*, 14(1): 1-6.
- Soule, H.S., Vazquez, J., Long, A., Albert S. dan Brennan, M. 1973. A human cell line from a pleural effusion derived from a breast carcinoma. *Journal of the National Cancer Institute*, 51(5): 1409-1416.
- Stone, S.C., Vasconcellos, F.A., Lenardao, E.J., do Amaral, R.C., Jacob, R.G. dan Leivas, L.P.F. 2013. Evaluation of potential use of *Cymbopogon* sp. essential oils, (R)-citronellal and N-citronellylamine in cancer chemotherapy. *International Journal of Applied Research in Natural Product*, 6(4): 11-15.
- Striegel, M. dan Hill, J. 1996. *Thin Layer Chromatography for Binding Media Analysis*. The Getty Conversation Institute. Los Angeles. P. 25-28.
- Sundararajan, R. 2014. *Electroporation-Based Therapies for Cancer From Basics to Clinical Applications*. Woodhead Publishing. Cambridge.
- Tatara, A.M. 2022. *Modeling Viral Infection with Tissue Engineering: COVID-19 and the Next Outbreaks*. Elsevier Inc. Boston.
- Teonata, N., Wijaya, V., Vitaloka, V., Attamimi, M. dan Kartikawati, M. 2021. An introduction of different types of gas chromatography. *Jurnal Sains dan*

*Terapan Kimia*, 15(1): 8-17.

- TGR BioScience. 2014. *MCF7 Cells*. <https://tgrbio.com/cellular-models/mcf7-cells/>. Diakses pada tanggal 15 Maret 2022 pukul 08.52.
- Tolosa, L., Donato, M.T. dan Gómez-Lechón, M.J. 2015. General cytotoxicity assessment by means of the MTT assay. *Methods in Molecular Biology*, 2015(1250): 333-348.
- Torre, L.A., Siegel, R.L., Ward, E.M. dan Jemal, A. 2016. Global cancer incidence and mortality rates and trends: an update. *Cancer Epidemiology, Biomarkers & Prevention*, 25(1): 16–27.
- Tuyen, P.T., Khang, D.T., Minh, T.H., Minh, T.N., Ha, P.T.T., Elzaawely, A.A. dan Xuan, T.D. 2016. Phenolic compounds and antioxidant activity of *Castanopsis phuthoensis* and *Castanopsis grandicaticata*. *International Letters of Natural Sciences*, 55: 77-87.
- Triadi, R., Rudiyansyah dan Alimuddin, A.H. 2021. Karakterisasi struktur triterpenoid dari akar tanaman langsung (*Lansium domesticum*). *Indonesian Journal of Pure and Applied Chemistry*, 4(1): 40-50
- Varma, A., Kost, G. dan Oelmuller, R. 2013. *Piriformospora indica: Sebacinales and their Biotechnology Applications*. Berlin: Springer Science and Business Media.
- Verma, N. dan Shukla, S. 2015. Impact of various factors responsible for fluctuation in plant secondary metabolites. *Journal of Applied Research on Medicinal and Aromatic Plants*, 2: 105–113
- Wakeel, A., Jan, S.A., Ullah, I., Shinwari, Z.K. dan Xu, M. 2019. Solvent polarity mediates phytochemical yield and antioxidant capacity of *Isatis tinctoria*. *Peer Journal*, 7: e7857
- WHO (World Health Organization). 2022. *Cancer*. <https://www.who.int/health-topics/cancer>. Diakses pada tanggal 7 Maret 2022 pukul 21.01.
- Wu., S., Lv, G. dan Lou, R. 2012. Applications of chromatography hyphenated techniques in the field of lignin pyrolysis. *Applications of Gas Chromatography*: 41-64
- Yang, Y., Luo, X., Wei, W., Fan, Z., Huang, T. dan Pan, X. 2020. Analysis of leaf morphology, secondary metabolites and proteins related to the resistance to *Tetranychus cinnabarinus* in cassava (*Manihot esculenta* Crantz). *Scientific Reports*, 10(14197): 1-13.
- Yusof, W.N.S.W. dan Abdullah, H. 2020. Phytochemicals and cytotoxicity of *Quercus infectoria* ethyl acetate extracts on human cancer cells. *Tropical Life Sciences Research*, 31(1): 69-84.
- Zhang, Q.W., Lin, L.G. dan Ye, W.C. 2018. Techniques for extraction and isolation of natural products: a comprehensive review. *Chinese Medicine*, 13(20): 1-26.