

DAFTAR PUSTAKA

- Ahmed, S. A., Mendonca, P., Messeha, S. S., & Soliman, K. F. A. (2023). Anticancer Effects of Fucoxanthin through Cell Cycle Arrest, Apoptosis Induction, and Angiogenesis Inhibition in Triple-Negative Breast Cancer Cells. *Molecules*, 28(18). <https://doi.org/10.3390/molecules28186536>
- Al-oqail, M. M. (2021). Anticancer efficacies of Krameria lappacea extracts against human breast cancer cell line (MCF-7): Role of oxidative stress and ROS generation. *Saudi Pharmaceutical Journal*, 29(3), 244–251. <https://doi.org/10.1016/j.jsps.2021.01.008>
- Alhoshani, A., Alotaibi, M., As Sobeai, H. M., Alharbi, N., Alhazzani, K., Al-Dhfyar, A., Alanazi, F. E., & Korashy, H. M. (2021). In vivo and in vitro studies evaluating the chemopreventive effect of metformin on the aryl hydrocarbon receptor-mediated breast carcinogenesis. *Saudi Journal of Biological Sciences*, 28(12), 7396–7403. <https://sdoi.org/10.1016/j.sjbs.2021.08.051>
- Alotaibi, M. R., Hassan, Z. K., Al-Rejaie, S. S., Alshammari, M. A., Almutairi, M. M., Alhoshani, A. R., Alanazi, W. A., Hafez, M. M., & Al-Shabanah, O. A. (2018). Characterization of apoptosis in a breast cancer cell line after IL-10 silencing. *Asian Pacific Journal of Cancer Prevention*, 19(3), 777–783. <https://doi.org/10.22034/APJCP.2018.19.3.777>
- American Cancer Society. (2024). 2024-Cancer-Facts-and-Figures-Acs. In *Cancer Facts and Figures* (pp. 4–5). <https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2024/2024-cancer-facts-and-figures-acsc.pdf>
- Anam, S., Khumaidi, A., Nurdinah, Nur'afia, & Yuyun, Y. (2023). Standardization of Eleutherine bulbosa Urb. Bulbs Extract from Lampo, Donggala, Central Sulawesi. *Natural Science: Journal of Science and Technology*, 12(1), 29–34. <https://bestjournal.untad.ac.id/index.php/ejurnal/fmipa/article/view/16146>
- Arulmohi, M., Vinayagamoorthy, V., & R., D. A. (2024). Physical Violence Against Doctors: A Content Analysis from Online Indian Newspapers. *Indian Journal of Community Medicine*, 42(1), 147–150. <https://doi.org/10.4103/ijcm.IJCM>
- Asiva Noor Rachmayani. (2023). *KANKER dan KARSINOGENESIS*.
- Aubrey, B. J., Kelly, G. L., Janic, A., Herold, M. J., & Strasser, A. (2018). How does p53 induce apoptosis and how does this relate to p53-mediated tumour suppression? *Cell Death and Differentiation*, 25(1), 104–113. <https://doi.org/10.1038/cdd.2017.169>
- Barba, D., León-Sosa, A., Lugo, P., Suquillo, D., Torres, F., Surre, F., Trojman, L., & Caicedo, A. (2021). Breast cancer, screening and diagnostic tools: All you need to know. *Critical Reviews in Oncology/Hematology*, 157.

<https://doi.org/10.1016/j.critrevonc.2020.103174>

- Bertheloot, D., Latz, E., & Franklin, B. S. (2021). Necroptosis, pyroptosis and apoptosis: an intricate game of cell death. *Cellular and Molecular Immunology*, 18(5), 1106–1121. <https://doi.org/10.1038/s41423-020-00630-3>
- Bottone, M. G., Santin, G., Aredia, F., Bernocchi, G., Pellicciari, C., & Scovassi, A. I. (2013). Morphological features of organelles during apoptosis: An overview. *Cells*, 2(2), 294–305. <https://doi.org/10.3390/cells2020294>
- Bozorgi, A., Khazaei, S., Khademi, A., & Khazaei, M. (2020). Natural and herbal compounds targeting breast cancer, a review based on cancer stem cells. *Iranian Journal of Basic Medical Sciences*, 23(8), 970–983. <https://doi.org/10.22038/IJBMS.2020.43745.10270>
- Bray, F., Laversanne, M., Sung, H., Ferlay, J., Siegel, R. L., Soerjomataram, I., & Jemal, A. (2024). Global cancer statistics 2022: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, 74(3), 229–263. <https://doi.org/10.3322/caac.21834>
- Burguin, A., Diorio, C., & Durocher, F. (2021). Breast cancer treatments: Updates and new challenges. *Journal of Personalized Medicine*, 11(8), 1–54. <https://doi.org/10.3390/jpm11080808>
- Cavalcante, G. C., Schaan, A. P., Cabral, G. F., Santana-da-Silva, M. N., Pinto, P., Vidal, A. F., & Ribeiro-dos-Santos, Â. (2019). *A Cell's Fate: An Overview of the Molecular Biology and Genetics of Apoptosis. Figure 1*, 1–20. <https://doi.org/doi:10.3390/ijms20174133>
- Cells, G. C., Jes, A., Ferreira, D. P., Dayanne, D., Santos, M., Ramos, N. F., Pimenta, R. S., Mario, R., Burbano, R., Bernardo, C., Sena, C., Macchi, B. M., Ferreira, I. M., Silva, E. O., & Martins, L. (2022). *In Vitro Cytotoxic Effects and Mechanisms of Action of Eleutherine Isolated from Eleutherine plicata Bulb in Rat*.
- Chen, D., Qiao, J., Sun, Z., Liu, Y., Sun, Z., Zhu, N., Xu, X., Yang, J., & Ma, G. (2019). New naphtoquinones derivatives from the edible bulbs of *Eleutherine americana* and their protective effect on the injury of human umbilical vein endothelial cells. *Fitoterapia*, 132(November 2018), 46–52. <https://doi.org/10.1016/j.fitote.2018.11.009>
- de Alencar, M. V. O. B., Islam, M. T., de Lima, R. M. T., Paz, M. F. C. J., dos Reis, A. C., da Mata, A. M. O. F., Filho, J. W. G. de O., Cerqueira, G. S., Ferreira, P. M. P., e Sousa, J. M. de C., Mubarak, M. S., & Melo-Cavalcante, A. A. de C. (2019). Phytol as an anticarcinogenic and antitumoral agent: An in vivo study in swiss mice with DMBA-Induced breast cancer. *IUBMB Life*, 71(2), 200–212. <https://doi.org/10.1002/iub.1952>
- Dee, E. C. C., Eala, M. A., Laversanne, M., Ginsburg, O., Gomez, S. L., Feliciano, E. J. G., Ng, K., Matsuda, T., Sangrajrang, S., Bhoo Pathy, N., Suzanna, E.,

Bui, T. D., Wei, W.-Q., Won, Y.-J., Foo, L. L., Ling, A., Mery, L., Soerjomataram, I., & Bray, F. (2024). Cancer in Southeast Asia: A comparative analysis of 2022 incidence and mortality data. *Journal of Clinical Oncology*, 42(16_suppl), 10564–10564. https://doi.org/10.1200/jco.2024.42.16_suppl.10564

Djamaris, A., Ardiansyah, Sari, D. A. P., & Novianti, M. D. (2024). *Desain Percobaan: Teori dan Aplikasi*.

Efrem, D. G., Ilmiawan, M. I., & Pratiwi, S. E. (2024). Chemopreventive effect of dayak onion [*Eleutherine bulbosa*, Mill. (Urb)] against 7,12-dimethylbenz [a] anthracene (DMBA)-induced breast cancer in rats: study on cancer antigen 15-3 (CA 15-3). In *Indonesian Journal of Biomedicine and Clinical Sciences* (Vol. 56, Issue 3, pp. 208–216). <https://doi.org/10.22146/inajbcs.v56i3.12245>

Erawati, H. E. N. Y. H., Usbiantoro, B. R. A. M. K., & Ia, D. A. N. N. (2018). *Bawang Dayak Sebagai Pangan Fungsional*. 112–119.

Feng, Y., Spezia, M., Huang, S., Yuan, C., Zeng, Z., Zhang, L., Ji, X., Liu, W., Huang, B., Luo, W., Liu, B., Lei, Y., Du, S., Vuppapapati, A., Luu, H. H., Haydon, R. C., He, T. C., & Ren, G. (2018). Breast cancer development and progression: Risk factors, cancer stem cells, signaling pathways, genomics, and molecular pathogenesis. *Genes and Diseases*, 5(2), 77–106. <https://doi.org/10.1016/j.gendis.2018.05.001>

Fidianingsih, I., Aryandono, T., Widyarini, S., & Herwiyanti, S. (2022). Profile of Histopathological Type and Molecular Subtypes of Mammary Cancer of DMBA-induced Rat and its Relevancy to Human Breast Cancer. *Open Access Macedonian Journal of Medical Sciences*, 10(A), 71–78. <https://doi.org/10.3889/oamjms.2022.7975>

Guerrieri-Gonzaga, A., Serrano, D., Gnagnarella, P., Johansson, H., Zovato, S., Nardi, M., Pensabene, M., Buccolo, S., DeCensi, A., Briata, I. M., Pistelli, L., Sansone, C., Mannucci, S., Aristarco, V., Macis, D., Lazzeroni, M., Aurilio, G., Accornero, C. A., Gandini, S., & Bonanni, B. (2024). Low dose TamOxifen and Lifestyle changes for bReast cANcer prevention (TOLERANT study): Study protocol of a randomized phase II biomarker trial in women at increased risk for breast cancer. *PLoS ONE*, 19(9 September). <https://doi.org/10.1371/journal.pone.0309511>

Gul, H. F., Ilhan, N., Ilhan, N., Ozercan, I. H., & Kuloglu, T. (2021). The combined effect of pomegranate extract and tangeretin on the DMBA-induced breast cancer model. *Journal of Nutritional Biochemistry*, 89, 1–33. <https://doi.org/10.1016/j.jnutbio.2020.108566>

Hammarström, M., Gabrielson, M., Crippa, A., Discacciati, A., Eklund, M., Lundholm, C., Bäcklund, M., Wengström, Y., Borgquist, S., Bergqvist, J., Eriksson, M., Tapia, J., Czene, K., & Hall, P. (2023a). Side effects of low-dose tamoxifen: results from a six-armed randomised controlled trial in healthy women. *British Journal of Cancer*, 129(1), 61–71.

<https://doi.org/10.1038/s41416-023-02293-z>

- Hammarström, M., Gabrielson, M., Crippa, A., Discacciati, A., Eklund, M., Lundholm, C., Bäcklund, M., Wengström, Y., Borgquist, S., Bergqvist, J., Eriksson, M., Tapia, J., Czene, K., & Hall, P. (2023b). Side effects of low-dose tamoxifen: results from a six-armed randomised controlled trial in healthy women. *British Journal of Cancer*, 129(1), 61–71. <https://doi.org/10.1038/s41416-023-02293-z>
- Harbeck, N., Penault-Llorca, F., Cortes, J., Gnant, M., Houssami, N., Poortmans, P., Ruddy, K., Tsang, J., & Cardoso, F. (2019). Breast cancer. In *Nature Reviews Disease Primers* (Vol. 5, Issue 1). <https://doi.org/10.1038/s41572-019-0111-2>
- Hassin, O., & Oren, M. (2023). Drugging p53 in cancer: one protein, many targets. *Nature Reviews Drug Discovery*, 22(2), 127–144. <https://doi.org/10.1038/s41573-022-00571-8>
- He, Z., Chen, Z., Tan, M., Elingarami, S., Liu, Y., Li, T., Deng, Y., He, N., Li, S., Fu, J., & Li, W. (2020). A review on methods for diagnosis of breast cancer cells and tissues. *Cell Proliferation*, 53(7), 1–16. <https://doi.org/10.1111/cpr.12822>
- I Wayan Sindhu Wahyu Prasetya. (2023). Potensi Kandungan Fitokimia Bawang Dayak (*Eleutherine palmifolia*) sebagai Sumber Antioksidan. *Prosiding Workshop Dan Seminar Nasional Farmasi*, 2, 345–355. <https://doi.org/10.24843/wsnf.2022.v02.p27>
- Jahan, S., Al-saigul, A. M., & Abdelgadir, M. H. (2016). Breast Cancer Breast Cancer. *Journal of the Royal Society of Medicine*, 70(8), 515–517.
- Jan Rehmat, C. G. (2019). Understanding Apoptosis and Apoptotic Pathways Targeted Cancer Therapeutics. *Journal of Cardiovascular and Thoracic Research*, 7(3), 113–117. <https://doi.org/10.15171/jcvtr.2015.24>
- Kamarudin, A. A., Mohd. Esa, N., Saad, N., Sayuti, N. H., & Nor, N. A. (2020). Heat assisted extraction of phenolic compounds from *Eleutherine bulbosa* (Mill.) bulb and its bioactive profiles using response surface methodology. *Industrial Crops and Products*, 144(August 2019), 1–8. <https://doi.org/10.1016/j.indcrop.2019.112064>
- Kamarudin, A. A., Sayuti, N. H., Saad, N., Razak, N. A. A., & Esa, N. M. (2021). *Eleutherine bulbosa* (Mill.) urb. bulb: Review of the pharmacological activities and its prospects for application. *International Journal of Molecular Sciences*, 22(13), 1–20. <https://doi.org/10.3390/ijms22136747>
- Khan, H., Ullah, H., Martorell, M., Valdes, S. E., Belwal, T., Tejada, S., Sureda, A., & Kamal, M. A. (2021). Flavonoids nanoparticles in cancer: Treatment, prevention and clinical prospects. *Seminars in Cancer Biology*, 69(June), 200–211. <https://doi.org/10.1016/j.semcancer.2019.07.023>
- Kunci, K. (2018). Urgensi Etika Medis Dalam Penanganan Mencit Pada

Penelitian Farmakologi. *Jurnal Kesehatan Madani Medika*, 9(2), 51–61.
<https://doi.org/10.36569/jmm.v9i2.11>

- Liambo, I. S., Frisitionady, A., & Malaka, M. H. (2022). Payudara Review: Pathophysiology, Epidemiology, and Cell Line of Breast Cancer. *Jurnal Farmasi, Sains, Dan Kesehatan*, 8(1), 17–22.
<https://doi.org/10.33772/pharmauho.v8i>
- Lim, B., Greer, Y., Lipkowitz, S., Takebe, N., Ahmed, S. A., Mendonca, P., Messeha, S. S., & Soliman, K. F. A. (2023). Novel apoptosis-inducing agents for the treatment of cancer, a new arsenal in the toolbox. *Cancers*, 11(18), 1–39. <https://doi.org/10.3390/cancers11081087>
- Liu, S., Chen, X., & Lin, T. (2022). Emerging strategies for the improvement of chemotherapy in bladder cancer: Current knowledge and future perspectives. *Journal of Advanced Research*, 39, 187–202.
<https://doi.org/10.1016/j.jare.2021.11.010>
- Łukasiewicz, S., Czezelewski, M., Forma, A., Baj, J., Sitarz, R., & Stanislawek, A. (2021). Breast Cancer—Epidemiology, Risk Factors, Classification, Prognostic Markers, and Current Treatment Strategies— An Updated Review. *Cancers*, 13, 4287.
<https://doi.org/https://doi.org/10.3390/cancers13174287>
- Lyon, F. (2010). IARC monographs on the evaluation of carcinogenic risks to humans. *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans*, 93, 9–38. <https://doi.org/10.1136/jcp.48.7.691-a>
- Machida, Y., & Imai, T. (2021). Different properties of mammary carcinogenesis induced by two chemical carcinogens, DMBA and PhIP, in heterozygous BALB/c Trp53 knockout mice. *Oncology Letters*, 22(4), 1–11.
<https://doi.org/10.3892/ol.2021.12999>
- Marvalim, C., Datta, A., & Lee, S. C. (2023). Role of p53 in breast cancer progression: An insight into p53 targeted therapy. *Theranostics*, 13(4), 1421–1442. <https://doi.org/10.7150/thno.81847>
- Milliana, A., Listiyana, A., Mutiah, R., Annisa, R., Firadusi, A. F., Faradila, V. A., Febriani, A., Ainina, E. I., Kirana, N. L. N., & Yueniwati, Y. (2023). The Potential of Eleutherine bulbosa in Inducing Apoptosis and Inhibiting Cell Cycle in Breast Cancer: A Network Pharmacology Approach and In Vitro Experiments. *Asian Pacific Journal of Cancer Prevention : APJCP*, 24(11), 3783–3794. <https://doi.org/10.31557/APJCP.2023.24.11.3783>
- Milliana, A., Listiyana, A., Mutiah, R., Annisa, R., Firdausi, A. F., Faradila, V. A., Febriani, A., Ainina, E. I., Kirana, N. L. N., & Yueniwati, Y. (2023). The Potential of Eleutherine bulbosa in Inducing Apoptosis and Inhibiting Cell Cycle in Breast Cancer: A Network Pharmacology Approach and In Vitro Experiments. *Asian Pacific Journal of Cancer Prevention*, 24(11), 3783–3794. <https://doi.org/10.31557/APJCP.2023.24.11.3783>
- Muhtar.T.A, R. A. I. A. S. M. (2020). Konsep Medis dan dasar Keperawatan pada

Gangguan Sistem Onkologi. In *jariah Publishing Intermedia* (Vol. 44, Issue 8). <https://doi.org/10.1088/1751-8113/44/8/085201>

- Mutiah, R., Listiyana, A., Suryadinata, A., Annisa, R., Hakim, A., Anggraini, W., & Susilowati, R. (2018). Activity of inhibit the cell cycle and induct apoptosis in HeLa cancer cell with combination of Sabrang onion (*Eleutherine palmifolia* (L.) Merr) and Starfruit Mistletoe (*Macrosolen cochinchinensis* (Lour.) Tiegh). *Journal of Applied Pharmaceutical Science*, 8(10), 122–128. <https://doi.org/10.7324/JAPS.2018.81016>
- Mutiah, R., Muzazanah, Z., Annisa, R., Rachmawati, E., & Fitrianiingsih, A. A. (2024). *Comparative metabolite profiling of Eleutherine bulbosa ethanol and water extracts by UPLC-MS / MS and their cytotoxic effects on*. 14(04), 52–62. <https://doi.org/10.7324/JA>
- Neophytou, C. M., Trougakos, I. P., Erin, N., & Papageorgis, P. (2021). Apoptosis deregulation and the development of cancer multi-drug resistance. *Cancers*, 13(17), 1–26. <https://doi.org/10.3390/cancers13174363>
- Nurkolis, F., Kurniatanty, I., Wiyarta, E., Permatasari, H. K., Mayulu, N., Taslim, N. A., Tjandrawinata, R. R., Hardinsyah, H., Tallei, T. E., Tsopmo, A., Radu, S., Hadinata, E., Kim, B., Ribeiro, R. I. M. A., & Syahputra, R. A. (2024). Identification of novel functional compounds from forest onion and its biological activities against breast cancer. *Journal of Agriculture and Food Research*, 18(August), 1–14. <https://doi.org/10.1016/j.jafr.2024.101362>
- Plante, I. (2021). Dimethylbenz(a)anthracene-induced mammary tumorigenesis in mice. In *Methods in Cell Biology* (1st ed., Vol. 163). Elsevier Inc. <https://doi.org/10.1016/bs.mcb.2020.09.003>
- Ramlagan, P., Labib, R. M., Farag, M. A., & Neergheen, V. S. (2022). Advances towards the analysis, metabolism and health benefits of punicalagin, one of the largest ellagitannin from plants, with future perspectives. *Phytomedicine Plus*, 2(3), 100313. <https://doi.org/10.1016/j.phyplu.2022.100313>
- Ramos, P. S., Ferreira, C., Passos, C. L. A., Silva, J. L., & Fialho, E. (2024). Effect of quercetin and chrysin and its association on viability and cell cycle progression in MDA-MB-231 and MCF-7 human breast cancer cells. *Biomedicine and Pharmacotherapy*, 179, 1–9. <https://doi.org/10.1016/j.biopha.2024.117276>
- Rosdianto, A. M., Kurniawan, A., Gunadi, J. W., Mahendra, I., Setiawan, I., Goenawan, H., Sylviana, N., Pratiwi, Y. S., Syamsunarno, M. R. A. A., Wahyudianingsih, R., Supratman, U., & Lesmana, R. (2022). DMBA-induced Modulate Estrogen Receptors α and β Breast Cancer's Animal Model. *Majalah Kedokteran Bandung*, 54(1), 37–42. <https://doi.org/10.15395/mkb.v54n1.2479>
- Sandra, F., Suryajaya, K., Chouw, A., Celinna, M., Ranggaini, D., Lee, K. H., & Sartika, C. R. (2023). *Eleutherine bulbosa bulb extract induces apoptosis and inhibits cell migration by downregulating Sonic hedgehog in human*

tongue cancer cells: An in vitro study. 60(October), 763–769.
<https://doi.org/10.56042/ijbb.v60i10.1293>

- Saraste, A., & Pulkki, K. (2000). Morphologic and biochemical hallmarks of apoptosis. *Cardiovascular Research*, 45(3), 528–537.
[https://doi.org/10.1016/S0008-6363\(99\)00384-3](https://doi.org/10.1016/S0008-6363(99)00384-3)
- Septian Hardi, R., Slamet, S., & Kamilla, L. (2019). Uji Aktivitas Anti Inflamasi Ekstrak Bawang Dayak (Eleutherine Americana L. Merr) terhadap Stabilisasi Membran Sel Darah Merah. *Jurnal Laboratorium Khatulistiwa*, 2(1), 30. <https://doi.org/10.30602/jlk.v2i1.324>
- Shirjang, S., Mansoori, B., Asghari, S., Duijf, P. H. G., Mohammadi, A., Gjerstorff, M., & Baradaran, B. (2019). MicroRNAs in cancer cell death pathways: Apoptosis and necroptosis. *Free Radical Biology and Medicine*, 139(February), 1–15. <https://doi.org/10.1016/j.freeradbiomed.2019.05.017>
- Siddiqui, R. A., Harvey, K. A., Walker, C., Altenburg, J., Xu, Z., Terry, C., Camarillo, I., Jones-Hall, Y., & Mariash, C. (2013). Characterization of synergistic anti-cancer effects of docosahexaenoic acid and curcumin on DMBA-induced mammary tumorigenesis in mice. *BMC Cancer*, 13, 1–16. <https://doi.org/10.1186/1471-2407-13-418>
- Sindhu, R. K., Verma, R., Salgotra, T., Rahman, M. H., Shah, M., Akter, R., Murad, W., Mubin, S., Bibi, P., Qusti, S., Alshammari, E. M., Batiha, G. E. S., Tomczyk, M., & Al-Kuraishy, H. M. (2021). Impacting the remedial potential of nano delivery-based flavonoids for breast cancer treatment. *Molecules*, 26(17), 1–21. <https://doi.org/10.3390/molecules26175163>
- Smolarz, B., Zadrożna Nowak, A., & Romanowicz, H. (2022). Breast Cancer—Epidemiology, Classification, Pathogenesis and Treatment (Review of Literature). *Cancers*, 14(10), 1–27. <https://doi.org/10.3390/cancers14102569>
- Subramaniam, K., Suriyamoorthy, S., Wahab, F., Sharon, F. B., & Rex, G. R. (2012). Antagonistic activity of Eleutherine palmifolia Linn. *Asian Pacific Journal of Tropical Disease*, 2(SUPPL.1), S491–S493. [https://doi.org/10.1016/S2222-1808\(12\)60208-4](https://doi.org/10.1016/S2222-1808(12)60208-4)
- Sultan, A. S., Marie, M. A., & Sheweita, S. A. (2018). Novel mechanism of cannabidiol-induced apoptosis in breast cancer cell lines. *Breast*, 41, 34–41. <https://doi.org/10.1016/j.breast.2018.06.009>
- Sun, Y. S., Zhao, Z., Yang, Z. N., Xu, F., Lu, H. J., Zhu, Z. Y., Shi, W., Jiang, J., Yao, P. P., & Zhu, H. P. (2017). Risk factors and preventions of breast cancer. *International Journal of Biological Sciences*, 13(11), 1387–1397. <https://doi.org/10.7150/ijbs.21635>
- Tong, X., Tang, R., Xiao, M., Xu, J., Wang, W., Zhang, B., Liu, J., Yu, X., & Shi, S. (2022). Targeting cell death pathways for cancer therapy: recent developments in necroptosis, pyroptosis, ferroptosis, and cuproptosis research. In *Journal of Hematology and Oncology* (Vol. 15, Issue 1). BioMed

Central. <https://doi.org/10.1186/s13045-022-01392-3>

- Ummah, M. S. (2020). KANKER PAYUDARA. *PT. Freeline Cipta Granesia*, 11(1), 1–14. http://scioteca.caf.com/bitstream/handle/123456789/1091/RED2017-Eng-8ene.pdf?sequence=12&isAllowed=y%0Ahttp://dx.doi.org/10.1016/j.regsciurbeco.2008.06.005%0Ahttps://www.researchgate.net/publication/305320484_SISTEM_PEMBETUNGAN_TERPUSAT_STRATEGI_MELESTARI
- van Nijnatten, R. Y. M., Buijs, S. M., Agema, B. C., Fischer, R. M. J., Moghaddam-Helmantel, I. G., Contant, C. M. E., de Jongh, F. E., Huijben, A. M. T., Kop, M., van der Padt-Pruijsten, A., Zuetenhorst, H. J. M., van Schaik, R. H. N., Koch, B. C. P., Jager, A., Koolen, S. L. W., & Mathijssen, R. H. J. (2025). Implementation of model-informed precision dosing for tamoxifen therapy in patients with breast cancer: A prospective intervention study. *The Breast*, 79(January), 1–7. <https://doi.org/10.1016/j.breast.2025.103880>
- Viale, G. (2012). The current state of breast cancer classification. *Annals of Oncology*, 23(SUPPL. 10). <https://doi.org/10.1093/annonc/mds326>
- Vieira, A. F., & Schmitt, F. (2018). An update on breast cancer multigene prognostic tests-emergent clinical biomarkers. *Frontiers in Medicine*, 5(SEP), 1–12. <https://doi.org/10.3389/fmed.2018.00248>
- Wang, H., Guo, M., Wei, H., & Chen, Y. (2023). Targeting p53 pathways: mechanisms, structures, and advances in therapy. *Signal Transduction and Targeted Therapy*, 8(1), 1–35. <https://doi.org/10.1038/s41392-023-01347-1>
- Wang, L. (2017). Early diagnosis of breast cancer. *Sensors (Switzerland)*, 17(7). <https://doi.org/10.3390/s17071572>
- Williams, P. A., Zaidi, S. K., & Sengupta, R. (2022). AACR Cancer Disparities Progress Report 2022. In *Cancer Epidemiology Biomarkers and Prevention* (Vol. 31, Issue 7). <https://doi.org/10.1158/1055-9965.EPI-22-0542>
- Yue, W., Wang, Z., Chen, H., Payne, A., & Liu, X. (2018). Machine learning with applications in breast cancer diagnosis and prognosis. *Designs*, 2(2), 1–17. <https://doi.org/10.3390/designs2020013>
- Yunani, R. (2018). Kajian Peran Gen P53 dalam Tumorigenesis. *VITEK : Bidang Kedokteran Hewan*, 6, 11–16. <https://doi.org/10.30742/jv.v6i0.27>
- Zakariya, A., & Mesfioui, I. (2020). Comparative study of Eleutherine bulbosa mills extracts for antidiabetic efficacy. *International Journal of Pharmacognosy and Pharmaceutical Sciences*, 2(2), 50–52. <https://doi.org/10.33545/27067009.2020.v2.i2a.142>
- Zhou, Z., Peng, Y., Ai, W., Li, Q., Ye, T., Wu, C., Ke, H., Wang, X., & Zhang, Y. (2020). Compound Opening Arrow Mixture exerts anti-tumor effects in a mouse model of breast cancer. *Scientific Reports*, 10(1), 1–8. <https://doi.org/10.1038/s41598-020-64561-9>

- Zubair, M., Wang, S., & Ali, N. (2021). Advanced Approaches to Breast Cancer Classification and Diagnosis. *Frontiers in Pharmacology*, 11(February), 1–24. <https://doi.org/10.3389/fphar.2020.632079>
- Ahmed, S. A., Mendonca, P., Messeha, S. S., & Soliman, K. F. A. (2023). Anticancer Effects of Fucoxanthin through Cell Cycle Arrest, Apoptosis Induction, and Angiogenesis Inhibition in Triple-Negative Breast Cancer Cells. *Molecules*, 28(18). <https://doi.org/10.3390/molecules28186536>
- Al-oqail, M. M. (2021). Anticancer efficacies of Krameria lappacea extracts against human breast cancer cell line (MCF-7): Role of oxidative stress and ROS generation. *Saudi Pharmaceutical Journal*, 29(3), 244–251. <https://doi.org/10.1016/j.jsps.2021.01.008>
- Alhoshani, A., Alotaibi, M., As Sobeai, H. M., Alharbi, N., Alhazzani, K., Al-Dhfyar, A., Alanazi, F. E., & Korashy, H. M. (2021). In vivo and in vitro studies evaluating the chemopreventive effect of metformin on the aryl hydrocarbon receptor-mediated breast carcinogenesis. *Saudi Journal of Biological Sciences*, 28(12), 7396–7403. <https://doi.org/10.1016/j.sjbs.2021.08.051>
- Alotaibi, M. R., Hassan, Z. K., Al-Rejaie, S. S., Alshammari, M. A., Almutairi, M. M., Alhoshani, A. R., Alanazi, W. A., Hafez, M. M., & Al-Shabanah, O. A. (2018). Characterization of apoptosis in a breast cancer cell line after IL-10 silencing. *Asian Pacific Journal of Cancer Prevention*, 19(3), 777–783. <https://doi.org/10.22034/APJCP.2018.19.3.777>
- American Cancer Society. (2024). 2024-Cancer-Facts-and-Figures-Acs. In *Cancer Facts and Figures* (pp. 4–5). <https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2024/2024-cancer-facts-and-figures-acsc.pdf>
- Anam, S., Khumaidi, A., Nurdinah, Nur'afia, & Yuyun, Y. (2023). Standardization of Eleutherine bulbosa Urb. Bulbs Extract from Lampo, Donggala, Central Sulawesi. *Natural Science: Journal of Science and Technology*, 12(1), 29–34. <https://bestjournal.untad.ac.id/index.php/ejurnalfmipa/article/view/16146>
- Arulmohi, M., Vinayagamoorthy, V., & R., D. A. (2024). Physical Violence Against Doctors: A Content Analysis from Online Indian Newspapers. *Indian Journal of Community Medicine*, 42(1), 147–150. <https://doi.org/10.4103/ijcm.IJCM>
- Asiva Noor Rachmayani. (2023). *KANKER dan KARSINOGENESIS*.
- Aubrey, B. J., Kelly, G. L., Janic, A., Herold, M. J., & Strasser, A. (2018). How does p53 induce apoptosis and how does this relate to p53-mediated tumour suppression? *Cell Death and Differentiation*, 25(1), 104–113. <https://doi.org/10.1038/cdd.2017.169>
- Barba, D., León-Sosa, A., Lugo, P., Suquillo, D., Torres, F., Surre, F., Trojman, L., & Caicedo, A. (2021). Breast cancer, screening and diagnostic tools: All you need to know. *Critical Reviews in Oncology/Hematology*, 157.

<https://doi.org/10.1016/j.critrevonc.2020.103174>

- Bertheloot, D., Latz, E., & Franklin, B. S. (2021). Necroptosis, pyroptosis and apoptosis: an intricate game of cell death. *Cellular and Molecular Immunology*, 18(5), 1106–1121. <https://doi.org/10.1038/s41423-020-00630-3>
- Bottone, M. G., Santin, G., Aredia, F., Bernocchi, G., Pellicciari, C., & Scovassi, A. I. (2013). Morphological features of organelles during apoptosis: An overview. *Cells*, 2(2), 294–305. <https://doi.org/10.3390/cells2020294>
- Bozorgi, A., Khazaei, S., Khademi, A., & Khazaei, M. (2020). Natural and herbal compounds targeting breast cancer, a review based on cancer stem cells. *Iranian Journal of Basic Medical Sciences*, 23(8), 970–983. <https://doi.org/10.22038/IJBMS.2020.43745.10270>
- Bray, F., Laversanne, M., Sung, H., Ferlay, J., Siegel, R. L., Soerjomataram, I., & Jemal, A. (2024). Global cancer statistics 2022: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, 74(3), 229–263. <https://doi.org/10.3322/caac.21834>
- Burguin, A., Diorio, C., & Durocher, F. (2021). Breast cancer treatments: Updates and new challenges. *Journal of Personalized Medicine*, 11(8), 1–54. <https://doi.org/10.3390/jpm11080808>
- Cavalcante, G. C., Schaan, A. P., Cabral, G. F., Santana-da-Silva, M. N., Pinto, P., Vidal, A. F., & Ribeiro-dos-Santos, Â. (2019). *A Cell's Fate: An Overview of the Molecular Biology and Genetics of Apoptosis. Figure 1*, 1–20. <https://doi.org/doi:10.3390/ijms20174133>
- Cells, G. C., Jes, A., Ferreira, D. P., Dayanne, D., Santos, M., Ramos, N. F., Pimenta, R. S., Mario, R., Burbano, R., Bernardo, C., Sena, C., Macchi, B. M., Ferreira, I. M., Silva, E. O., & Martins, L. (2022). *In Vitro Cytotoxic Effects and Mechanisms of Action of Eleutherine Isolated from Eleutherine plicata Bulb in Rat*.
- Chen, D., Qiao, J., Sun, Z., Liu, Y., Sun, Z., Zhu, N., Xu, X., Yang, J., & Ma, G. (2019). New naphtoquinones derivatives from the edible bulbs of *Eleutherine americana* and their protective effect on the injury of human umbilical vein endothelial cells. *Fitoterapia*, 132(November 2018), 46–52. <https://doi.org/10.1016/j.fitote.2018.11.009>
- de Alencar, M. V. O. B., Islam, M. T., de Lima, R. M. T., Paz, M. F. C. J., dos Reis, A. C., da Mata, A. M. O. F., Filho, J. W. G. de O., Cerqueira, G. S., Ferreira, P. M. P., e Sousa, J. M. de C., Mubarak, M. S., & Melo-Cavalcante, A. A. de C. (2019). Phytol as an anticarcinogenic and antitumoral agent: An in vivo study in swiss mice with DMBA-Induced breast cancer. *IUBMB Life*, 71(2), 200–212. <https://doi.org/10.1002/iub.1952>
- Dee, E. C. C., Eala, M. A., Laversanne, M., Ginsburg, O., Gomez, S. L., Feliciano, E. J. G., Ng, K., Matsuda, T., Sangrajrang, S., Bhoo Pathy, N., Suzanna, E.,

Bui, T. D., Wei, W.-Q., Won, Y.-J., Foo, L. L., Ling, A., Mery, L., Soerjomataram, I., & Bray, F. (2024). Cancer in Southeast Asia: A comparative analysis of 2022 incidence and mortality data. *Journal of Clinical Oncology*, 42(16_suppl), 10564–10564. https://doi.org/10.1200/jco.2024.42.16_suppl.10564

Djamaris, A., Ardiansyah, Sari, D. A. P., & Novianti, M. D. (2024). *Desain Percobaan: Teori dan Aplikasi*.

Efrem, D. G., Ilmiawan, M. I., & Pratiwi, S. E. (2024). Chemopreventive effect of dayak onion [*Eleutherine bulbosa*, Mill. (Urb)] against 7,12-dimethylbenz [a] anthracene (DMBA)-induced breast cancer in rats: study on cancer antigen 15-3 (CA 15-3). In *Indonesian Journal of Biomedicine and Clinical Sciences* (Vol. 56, Issue 3, pp. 208–216). <https://doi.org/10.22146/inajbcs.v56i3.12245>

Erawati, H. E. N. Y. H., Usbiantoro, B. R. A. M. K., & Ia, D. A. N. N. (2018). *Bawang Dayak Sebagai Pangan Fungsional*. 112–119.

Feng, Y., Spezia, M., Huang, S., Yuan, C., Zeng, Z., Zhang, L., Ji, X., Liu, W., Huang, B., Luo, W., Liu, B., Lei, Y., Du, S., Vuppapapati, A., Luu, H. H., Haydon, R. C., He, T. C., & Ren, G. (2018). Breast cancer development and progression: Risk factors, cancer stem cells, signaling pathways, genomics, and molecular pathogenesis. *Genes and Diseases*, 5(2), 77–106. <https://doi.org/10.1016/j.gendis.2018.05.001>

Fidianingsih, I., Aryandono, T., Widyarini, S., & Herwiyanti, S. (2022). Profile of Histopathological Type and Molecular Subtypes of Mammary Cancer of DMBA-induced Rat and its Relevancy to Human Breast Cancer. *Open Access Macedonian Journal of Medical Sciences*, 10(A), 71–78. <https://doi.org/10.3889/oamjms.2022.7975>

Guerrieri-Gonzaga, A., Serrano, D., Gnagnarella, P., Johansson, H., Zovato, S., Nardi, M., Pensabene, M., Buccolo, S., DeCensi, A., Briata, I. M., Pistelli, L., Sansone, C., Mannucci, S., Aristarco, V., Macis, D., Lazzeroni, M., Aurilio, G., Accornero, C. A., Gandini, S., & Bonanni, B. (2024). Low dose TamOxifen and Lifestyle changes for bReast cANcer prevention (TOLERANT study): Study protocol of a randomized phase II biomarker trial in women at increased risk for breast cancer. *PLoS ONE*, 19(9 September). <https://doi.org/10.1371/journal.pone.0309511>

Gul, H. F., Ilhan, N., Ilhan, N., Ozercan, I. H., & Kuloglu, T. (2021). The combined effect of pomegranate extract and tangeretin on the DMBA-induced breast cancer model. *Journal of Nutritional Biochemistry*, 89, 1–33. <https://doi.org/10.1016/j.jnutbio.2020.108566>

Hammarström, M., Gabrielson, M., Crippa, A., Discacciati, A., Eklund, M., Lundholm, C., Bäcklund, M., Wengström, Y., Borgquist, S., Bergqvist, J., Eriksson, M., Tapia, J., Czene, K., & Hall, P. (2023a). Side effects of low-dose tamoxifen: results from a six-armed randomised controlled trial in healthy women. *British Journal of Cancer*, 129(1), 61–71.

<https://doi.org/10.1038/s41416-023-02293-z>

- Hammarström, M., Gabrielson, M., Crippa, A., Discacciati, A., Eklund, M., Lundholm, C., Bäcklund, M., Wengström, Y., Borgquist, S., Bergqvist, J., Eriksson, M., Tapia, J., Czene, K., & Hall, P. (2023b). Side effects of low-dose tamoxifen: results from a six-armed randomised controlled trial in healthy women. *British Journal of Cancer*, 129(1), 61–71. <https://doi.org/10.1038/s41416-023-02293-z>
- Harbeck, N., Penault-Llorca, F., Cortes, J., Gnant, M., Houssami, N., Poortmans, P., Ruddy, K., Tsang, J., & Cardoso, F. (2019). Breast cancer. In *Nature Reviews Disease Primers* (Vol. 5, Issue 1). <https://doi.org/10.1038/s41572-019-0111-2>
- Hassin, O., & Oren, M. (2023). Drugging p53 in cancer: one protein, many targets. *Nature Reviews Drug Discovery*, 22(2), 127–144. <https://doi.org/10.1038/s41573-022-00571-8>
- He, Z., Chen, Z., Tan, M., Elingarami, S., Liu, Y., Li, T., Deng, Y., He, N., Li, S., Fu, J., & Li, W. (2020). A review on methods for diagnosis of breast cancer cells and tissues. *Cell Proliferation*, 53(7), 1–16. <https://doi.org/10.1111/cpr.12822>
- I Wayan Sindhu Wahyu Prasetya. (2023). Potensi Kandungan Fitokimia Bawang Dayak (*Eleutherine palmifolia*) sebagai Sumber Antioksidan. *Prosiding Workshop Dan Seminar Nasional Farmasi*, 2, 345–355. <https://doi.org/10.24843/wsnf.2022.v02.p27>
- Jahan, S., Al-saigul, A. M., & Abdelgadir, M. H. (2016). Breast Cancer Breast Cancer. *Journal of the Royal Society of Medicine*, 70(8), 515–517.
- Jan Rehmat, C. G. (2019). Understanding Apoptosis and Apoptotic Pathways Targeted Cancer Therapeutics. *Journal of Cardiovascular and Thoracic Research*, 7(3), 113–117. <https://doi.org/10.15171/jcvtr.2015.24>
- Kamarudin, A. A., Mohd. Esa, N., Saad, N., Sayuti, N. H., & Nor, N. A. (2020). Heat assisted extraction of phenolic compounds from *Eleutherine bulbosa* (Mill.) bulb and its bioactive profiles using response surface methodology. *Industrial Crops and Products*, 144(August 2019), 1–8. <https://doi.org/10.1016/j.indcrop.2019.112064>
- Kamarudin, A. A., Sayuti, N. H., Saad, N., Razak, N. A. A., & Esa, N. M. (2021). *Eleutherine bulbosa* (Mill.) urb. bulb: Review of the pharmacological activities and its prospects for application. *International Journal of Molecular Sciences*, 22(13), 1–20. <https://doi.org/10.3390/ijms22136747>
- Khan, H., Ullah, H., Martorell, M., Valdes, S. E., Belwal, T., Tejada, S., Sureda, A., & Kamal, M. A. (2021). Flavonoids nanoparticles in cancer: Treatment, prevention and clinical prospects. *Seminars in Cancer Biology*, 69(June), 200–211. <https://doi.org/10.1016/j.semcancer.2019.07.023>
- Kunci, K. (2018). Urgensi Etika Medis Dalam Penanganan Mencit Pada

Penelitian Farmakologi. *Jurnal Kesehatan Madani Medika*, 9(2), 51–61.
<https://doi.org/10.36569/jmm.v9i2.11>

- Liambo, I. S., Frisitionady, A., & Malaka, M. H. (2022). Payudara Review: Pathophysiology, Epidemiology, and Cell Line of Breast Cancer. *Jurnal Farmasi, Sains, Dan Kesehatan*, 8(1), 17–22.
<https://doi.org/10.33772/pharmauho.v8i>
- Lim, B., Greer, Y., Lipkowitz, S., Takebe, N., Ahmed, S. A., Mendonca, P., Messeha, S. S., & Soliman, K. F. A. (2023). Novel apoptosis-inducing agents for the treatment of cancer, a new arsenal in the toolbox. *Cancers*, 11(18), 1–39. <https://doi.org/10.3390/cancers11081087>
- Liu, S., Chen, X., & Lin, T. (2022). Emerging strategies for the improvement of chemotherapy in bladder cancer: Current knowledge and future perspectives. *Journal of Advanced Research*, 39, 187–202.
<https://doi.org/10.1016/j.jare.2021.11.010>
- Łukasiewicz, S., Czezelewski, M., Forma, A., Baj, J., Sitarz, R., & Stanislawek, A. (2021). Breast Cancer—Epidemiology, Risk Factors, Classification, Prognostic Markers, and Current Treatment Strategies— An Updated Review. *Cancers*, 13, 4287.
<https://doi.org/https://doi.org/10.3390/cancers13174287>
- Lyon, F. (2010). IARC monographs on the evaluation of carcinogenic risks to humans. *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans*, 93, 9–38. <https://doi.org/10.1136/jcp.48.7.691-a>
- Machida, Y., & Imai, T. (2021). Different properties of mammary carcinogenesis induced by two chemical carcinogens, DMBA and PhIP, in heterozygous BALB/c Trp53 knockout mice. *Oncology Letters*, 22(4), 1–11.
<https://doi.org/10.3892/ol.2021.12999>
- Marvalim, C., Datta, A., & Lee, S. C. (2023). Role of p53 in breast cancer progression: An insight into p53 targeted therapy. *Theranostics*, 13(4), 1421–1442. <https://doi.org/10.7150/thno.81847>
- Milliana, A., Listiyana, A., Mutiah, R., Annisa, R., Firadusi, A. F., Faradila, V. A., Febriani, A., Ainina, E. I., Kirana, N. L. N., & Yueniwati, Y. (2023). The Potential of Eleutherine bulbosa in Inducing Apoptosis and Inhibiting Cell Cycle in Breast Cancer: A Network Pharmacology Approach and In Vitro Experiments. *Asian Pacific Journal of Cancer Prevention : APJCP*, 24(11), 3783–3794. <https://doi.org/10.31557/APJCP.2023.24.11.3783>
- Milliana, A., Listiyana, A., Mutiah, R., Annisa, R., Firdausi, A. F., Faradila, V. A., Febriani, A., Ainina, E. I., Kirana, N. L. N., & Yueniwati, Y. (2023). The Potential of Eleutherine bulbosa in Inducing Apoptosis and Inhibiting Cell Cycle in Breast Cancer: A Network Pharmacology Approach and In Vitro Experiments. *Asian Pacific Journal of Cancer Prevention*, 24(11), 3783–3794. <https://doi.org/10.31557/APJCP.2023.24.11.3783>
- Muhtar.T.A, R. A. I. A. S. M. (2020). Konsep Medis dan dasar Keperawatan pada

Gangguan Sistem Onkologi. In *jariah Publishing Intermedia* (Vol. 44, Issue 8). <https://doi.org/10.1088/1751-8113/44/8/085201>

- Mutiah, R., Listiyana, A., Suryadinata, A., Annisa, R., Hakim, A., Anggraini, W., & Susilowati, R. (2018). Activity of inhibit the cell cycle and induct apoptosis in HeLa cancer cell with combination of Sabrang onion (*Eleutherine palmifolia* (L.) Merr) and Starfruit Mistletoe (*Macrosolen cochinchinensis* (Lour.) Tiegh). *Journal of Applied Pharmaceutical Science*, 8(10), 122–128. <https://doi.org/10.7324/JAPS.2018.81016>
- Mutiah, R., Muzazanah, Z., Annisa, R., Rachmawati, E., & Fitrianingsih, A. A. (2024). *Comparative metabolite profiling of Eleutherine bulbosa ethanol and water extracts by UPLC-MS / MS and their cytotoxic effects on*. 14(04), 52–62. <https://doi.org/10.7324/JA>
- Neophytou, C. M., Trougakos, I. P., Erin, N., & Papageorgis, P. (2021). Apoptosis deregulation and the development of cancer multi-drug resistance. *Cancers*, 13(17), 1–26. <https://doi.org/10.3390/cancers13174363>
- Nurkolis, F., Kurniatanty, I., Wiyarta, E., Permatasari, H. K., Mayulu, N., Taslim, N. A., Tjandrawinata, R. R., Hardinsyah, H., Tallei, T. E., Tsopmo, A., Radu, S., Hadinata, E., Kim, B., Ribeiro, R. I. M. A., & Syahputra, R. A. (2024). Identification of novel functional compounds from forest onion and its biological activities against breast cancer. *Journal of Agriculture and Food Research*, 18(August), 1–14. <https://doi.org/10.1016/j.jafr.2024.101362>
- Plante, I. (2021). Dimethylbenz(a)anthracene-induced mammary tumorigenesis in mice. In *Methods in Cell Biology* (1st ed., Vol. 163). Elsevier Inc. <https://doi.org/10.1016/bs.mcb.2020.09.003>
- Ramlagan, P., Labib, R. M., Farag, M. A., & Neergheen, V. S. (2022). Advances towards the analysis, metabolism and health benefits of punicalagin, one of the largest ellagitannin from plants, with future perspectives. *Phytomedicine Plus*, 2(3), 100313. <https://doi.org/10.1016/j.phyplu.2022.100313>
- Ramos, P. S., Ferreira, C., Passos, C. L. A., Silva, J. L., & Fialho, E. (2024). Effect of quercetin and chrysin and its association on viability and cell cycle progression in MDA-MB-231 and MCF-7 human breast cancer cells. *Biomedicine and Pharmacotherapy*, 179, 1–9. <https://doi.org/10.1016/j.biopha.2024.117276>
- Rosdianto, A. M., Kurniawan, A., Gunadi, J. W., Mahendra, I., Setiawan, I., Goenawan, H., Sylviana, N., Pratiwi, Y. S., Syamsunarno, M. R. A. A., Wahyudianingsih, R., Supratman, U., & Lesmana, R. (2022). DMBA-induced Modulate Estrogen Receptors α and β Breast Cancer's Animal Model. *Majalah Kedokteran Bandung*, 54(1), 37–42. <https://doi.org/10.15395/mkb.v54n1.2479>
- Sandra, F., Suryajaya, K., Chouw, A., Celinna, M., Ranggaini, D., Lee, K. H., & Sartika, C. R. (2023). *Eleutherine bulbosa bulb extract induces apoptosis and inhibits cell migration by downregulating Sonic hedgehog in human*

tongue cancer cells: An in vitro study. 60(October), 763–769.
<https://doi.org/10.56042/ijbb.v60i10.1293>

- Saraste, A., & Pulkki, K. (2000). Morphologic and biochemical hallmarks of apoptosis. *Cardiovascular Research*, 45(3), 528–537.
[https://doi.org/10.1016/S0008-6363\(99\)00384-3](https://doi.org/10.1016/S0008-6363(99)00384-3)
- Septian Hardi, R., Slamet, S., & Kamilla, L. (2019). Uji Aktivitas Anti Inflamasi Ekstrak Bawang Dayak (Eleutherine Americana L. Merr) terhadap Stabilisasi Membran Sel Darah Merah. *Jurnal Laboratorium Khatulistiwa*, 2(1), 30. <https://doi.org/10.30602/jlk.v2i1.324>
- Shirjang, S., Mansoori, B., Asghari, S., Duijf, P. H. G., Mohammadi, A., Gjerstorff, M., & Baradaran, B. (2019). MicroRNAs in cancer cell death pathways: Apoptosis and necroptosis. *Free Radical Biology and Medicine*, 139(February), 1–15. <https://doi.org/10.1016/j.freeradbiomed.2019.05.017>
- Siddiqui, R. A., Harvey, K. A., Walker, C., Altenburg, J., Xu, Z., Terry, C., Camarillo, I., Jones-Hall, Y., & Mariash, C. (2013). Characterization of synergistic anti-cancer effects of docosahexaenoic acid and curcumin on DMBA-induced mammary tumorigenesis in mice. *BMC Cancer*, 13, 1–16. <https://doi.org/10.1186/1471-2407-13-418>
- Sindhu, R. K., Verma, R., Salgotra, T., Rahman, M. H., Shah, M., Akter, R., Murad, W., Mubin, S., Bibi, P., Qusti, S., Alshammari, E. M., Batiha, G. E. S., Tomczyk, M., & Al-Kuraishy, H. M. (2021). Impacting the remedial potential of nano delivery-based flavonoids for breast cancer treatment. *Molecules*, 26(17), 1–21. <https://doi.org/10.3390/molecules26175163>
- Smolarz, B., Zadrożna Nowak, A., & Romanowicz, H. (2022). Breast Cancer—Epidemiology, Classification, Pathogenesis and Treatment (Review of Literature). *Cancers*, 14(10), 1–27. <https://doi.org/10.3390/cancers14102569>
- Subramaniam, K., Suriyamoorthy, S., Wahab, F., Sharon, F. B., & Rex, G. R. (2012). Antagonistic activity of Eleutherine palmifolia Linn. *Asian Pacific Journal of Tropical Disease*, 2(SUPPL.1), S491–S493. [https://doi.org/10.1016/S2222-1808\(12\)60208-4](https://doi.org/10.1016/S2222-1808(12)60208-4)
- Sultan, A. S., Marie, M. A., & Sheweita, S. A. (2018). Novel mechanism of cannabidiol-induced apoptosis in breast cancer cell lines. *Breast*, 41, 34–41. <https://doi.org/10.1016/j.breast.2018.06.009>
- Sun, Y. S., Zhao, Z., Yang, Z. N., Xu, F., Lu, H. J., Zhu, Z. Y., Shi, W., Jiang, J., Yao, P. P., & Zhu, H. P. (2017). Risk factors and preventions of breast cancer. *International Journal of Biological Sciences*, 13(11), 1387–1397. <https://doi.org/10.7150/ijbs.21635>
- Tong, X., Tang, R., Xiao, M., Xu, J., Wang, W., Zhang, B., Liu, J., Yu, X., & Shi, S. (2022). Targeting cell death pathways for cancer therapy: recent developments in necroptosis, pyroptosis, ferroptosis, and cuproptosis research. In *Journal of Hematology and Oncology* (Vol. 15, Issue 1). BioMed

Central. <https://doi.org/10.1186/s13045-022-01392-3>

- Ummah, M. S. (2020). KANKER PAYUDARA. *PT. Freeline Cipta Granesia*, 11(1), 1–14. http://scioteca.caf.com/bitstream/handle/123456789/1091/RED2017-Eng-8ene.pdf?sequence=12&isAllowed=y%0Ahttp://dx.doi.org/10.1016/j.regsciurbeco.2008.06.005%0Ahttps://www.researchgate.net/publication/305320484_SISTEM_PEMBETUNGAN_TERPUSAT_STRATEGI_MELESTARI
- van Nijnatten, R. Y. M., Buijs, S. M., Agema, B. C., Fischer, R. M. J., Moghaddam-Helmantel, I. G., Contant, C. M. E., de Jongh, F. E., Huijben, A. M. T., Kop, M., van der Padt-Pruijsten, A., Zuetenhorst, H. J. M., van Schaik, R. H. N., Koch, B. C. P., Jager, A., Koolen, S. L. W., & Mathijssen, R. H. J. (2025). Implementation of model-informed precision dosing for tamoxifen therapy in patients with breast cancer: A prospective intervention study. *The Breast*, 79(January), 1–7. <https://doi.org/10.1016/j.breast.2025.103880>
- Viale, G. (2012). The current state of breast cancer classification. *Annals of Oncology*, 23(SUPPL. 10). <https://doi.org/10.1093/annonc/mds326>
- Vieira, A. F., & Schmitt, F. (2018). An update on breast cancer multigene prognostic tests-emergent clinical biomarkers. *Frontiers in Medicine*, 5(SEP), 1–12. <https://doi.org/10.3389/fmed.2018.00248>
- Wang, H., Guo, M., Wei, H., & Chen, Y. (2023). Targeting p53 pathways: mechanisms, structures, and advances in therapy. *Signal Transduction and Targeted Therapy*, 8(1), 1–35. <https://doi.org/10.1038/s41392-023-01347-1>
- Wang, L. (2017). Early diagnosis of breast cancer. *Sensors (Switzerland)*, 17(7). <https://doi.org/10.3390/s17071572>
- Williams, P. A., Zaidi, S. K., & Sengupta, R. (2022). AACR Cancer Disparities Progress Report 2022. In *Cancer Epidemiology Biomarkers and Prevention* (Vol. 31, Issue 7). <https://doi.org/10.1158/1055-9965.EPI-22-0542>
- Yue, W., Wang, Z., Chen, H., Payne, A., & Liu, X. (2018). Machine learning with applications in breast cancer diagnosis and prognosis. *Designs*, 2(2), 1–17. <https://doi.org/10.3390/designs2020013>
- Yunani, R. (2018). Kajian Peran Gen P53 dalam Tumorigenesis. *VITEK : Bidang Kedokteran Hewan*, 6, 11–16. <https://doi.org/10.30742/jv.v6i0.27>
- Zakariya, A., & Mesfioui, I. (2020). Comparative study of Eleutherine bulbosa mills extracts for antidiabetic efficacy. *International Journal of Pharmacognosy and Pharmaceutical Sciences*, 2(2), 50–52. <https://doi.org/10.33545/27067009.2020.v2.i2a.142>
- Zhou, Z., Peng, Y., Ai, W., Li, Q., Ye, T., Wu, C., Ke, H., Wang, X., & Zhang, Y. (2020). Compound Opening Arrow Mixture exerts anti-tumor effects in a mouse model of breast cancer. *Scientific Reports*, 10(1), 1–8. <https://doi.org/10.1038/s41598-020-64561-9>

Zubair, M., Wang, S., & Ali, N. (2021). Advanced Approaches to Breast Cancer Classification and Diagnosis. *Frontiers in Pharmacology*, 11(February), 1–24. <https://doi.org/10.3389/fphar.2020.632079>