

BIBLIOGRAPHY

- Abotaleb, M., Liskova, A., Kubatka, P., & Büsselberg, D. (2020). Therapeutic Potential of Plant Phenolic Acids in the Treatment of Cancer. *Biomolecules*. 10(2), 221.
- Aladaileh, S. H., Saghir, S. A. M., Murugesu, K., Sadikun, A., Ahmad, A., Kaur, G., Mahmoud, A. M., & Murugaiyah, V. (2019). Antihyperlipidemic and Antioxidant Effects of *Averrhoa Carambola* Extract in High-Fat Diet-Fed Rats. *Biomedicines*. 7(3), 72.
- Alhassan, A. M., & Ahmed, Q. U. (2016). *Averrhoa bilimbi* Linn.: A review of its ethnomedicinal uses, phytochemistry, and pharmacology. *Journal of pharmacy & bioallied sciences*. 8(4), 265–271.
- Andinata, B., Bachtiar, A., Oktamianti, P., Partahi, J. R. & Dini, M. S. A. (2023). A Comparison of Cancer Incidences Between Dharmais Cancer Hospital and GLOBOCAN 2020: A Descriptive Study of Top 10 Cancer Incidences. *Indonesian Journal of Cancer*. 17(2), 119–122.
- Andriati, N. & Schreiner, M. (2017). Review: Extensive Potentiality of Selected Tropical Fruits from Indonesia. *Indonesian Food and Nutrition Progress*. 14(2).
- Bhat D. (2022). The 'Why and How' of Cervical Cancers and Genital HPV Infection. *CytoJournal*. 19, 22.
- Bhattacharjee, R., Das, S. S., Biswal, S. S., Nath, A., Das, D., Basu, A., Malik, S., Kumar, L., Kar, S., Singh, S. K., Upadhye, V. J., Iqbal, D., Almojam, S., Roychoudhury, S., Ojha, S., Ruokolainen, J., Jha, N. K., & Kesari, K. K. (2022). Mechanistic role of HPV-associated early proteins in cervical cancer: Molecular pathways and targeted therapeutic strategies. *Critical Reviews in Oncology/Hematology*. 174, 103675.
- Bisoyi, P. (2022). A brief tour guide to cancer disease. *Understanding Cancer: From Basics to Therapeutics*. 1–20.
- Blondeaux, E., Arecco, L., Punie, K., Balmaña, J., Paluch-Shimon, S., & Lambertini, M. 2023. *Germline TP53 pathogenic variants and breast cancer: A narrative review*. *Cancer Treatment Reviews*, 114, 102522.

- Burmeister, C. A., Khan, S. F., Schäfer, G., Mbatani, N., Adams, T., Moodley, J., & Prince, S. (2022). Cervical cancer therapies: Current challenges and future perspectives. *Tumour virus research*. 13, 200238.
- Cai, Y., Zhang, J., Chen, N. G., Shi, Z., Qiu, J., He, C., & Chen, M. (2016). *Recent Advances in Anticancer Activities and Drug Delivery Systems of Tannins. Medicinal Research Reviews*. 37(4), 665–701.
- Chaudhry G-e-S, Md Akim A, Sung YY and Sifzizul TMT (2022) Cancer and apoptosis: The apoptotic activity of plant and marine natural products and their potential as targeted cancer therapeutics. *Front. Pharmacol*. 13:842376.
- Chinreddy, S.R., Mashozhera, N.T., Rashrash, B., Flores-Iga, G., Nimmakayala, P., Hankins, G.R., Harris, R.T., & Reddy, U.K. 2024. Unraveling TRPV1's Role in Cancer: Expression, Modulation, and Therapeutic Opportunities with Capsaicin. *Molecules* , 29, 4729.
- Chumduri, C., Gurumurthy, R. K., Berger, H., Dietrich, O., Kumar, N., Koster, S., Brinkmann, V., Hoffmann, K., Drabkina, M., Arampatzi, P., Son, D., Klemm, U., Mollenkopf, H. J., Herbst, H., Mangler, M., Vogel, J., Saliba, A. E., & Meyer, T. F. (2021). Opposing Wnt signals regulate cervical squamocolumnar homeostasis and emergence of metaplasia. *Nature cell biology*. 23(2), 184–197.
- Costigan, A., Hollville, E., & Martin, S. J. 2023. Discriminating Between Apoptosis, Necrosis, Necroptosis, and Ferroptosis by Microscopy and Flow Cytometry. *Current Protocols*. 3(12).
- Dangat, B. T., Shinde, A. A., Jagtap, D. N., Desai, V. R., Shinde, P. B., & Gurav, R. V. 2014. MINERAL ANALYSIS OF AVERRHOA BILIMBI L. – A POTENTIAL FRUIT. *Asian Journal of Pharmaceutical and Clinical Research*.
- Darwito, Sari, I. P., Wijayana, S., Mahardinata, N.A., Anward, S. L., & Ridhayani, F. 2025. Assessment of one-year overall survival among stage III breast cancer patients. *Indonesian Journal of Medicine and Health*. 16(2): 204-214
- Debela, D. T., Muzazu, S. G., Heraro, K. D., Ndalama, M. T., Mesele, B. W., Haile, D. C., Kitui, S. K., & Manyazewal, T. (2021). New approaches and procedures for

cancer treatment: Current perspectives. *SAGE open medicine*. 9, 20503121211034366.

Esmaeili, F., Lohrasebi, T., Mohammadi-Dehcheshmeh, M., & Ebrahimie, E. (2021). Evaluation of the Effectiveness of Herbal Components Based on Their Regulatory Signature on Carcinogenic Cancer Cells. *Cells*. 10(11), 3139.

Esmaeilzadeh, A. A., Azizikhezri, D., Fatahi, Z., Saeidi, H., Fazel, M., and Nasirzadeh, F. 2025. Oncogenes as Diagnostic Biomarkers in Breast Cancer: A Review of Molecular Detection and Clinical Utility. *Iran Journal of Blood and Cancer*. 17(2): 70-82.

Frisca, D., Astuti, I. P., Zulkarnaeni, R. N., & Sunarti, S. (2020). Nutritional contents and the utilization of Indonesian native starfruits: Averrhoa dolicoarpa and A. leucopetala. *BIODIVERSITAS*. 21(4).

Gao Y., Huang R., Gong Y., Park H. Sim, Wen Q., Almosnid N. Marwan, Chippada-Venkata U. D., Hosain N. Abdulrhman, Vick E., Farone A., & Altman E. (2015). The antidiabetic compound 2-dodecyl-6-methoxycyclohexa-2,5-diene-1,4-dione, isolated from *averrhoa carambola* L., demonstrates significant antitumor potential against human breast cancer cells. *Oncotarget*. 6, 24304-24319.

Harrington, K. J., & Nenclares, P. (2023). The biology of cancer. *Medicine*. 51(1), 1–6.

Hussein, M., Awwad, F., & Jithin, D. 2019. Breast cancer cells exhibits specific dielectric signature *in vitro* using the open-ended coaxial probe technique from 200 MHz to 13.6 GHz. *Sci Rep* 9, 4681.

Jambalsuren, B. & Dondog, P. 2021. Screening for Superoxide Dismutase Activity in Certain Food and Medicinal Plants of Mongolia. *Atlantis Highlights in Chemistry and Pharmaceutical Science*. (2).

Khan, A. Q., Rashid, K., Al Amodi, A. A., Agha, M. V., Akhtar, S., Hakeem, I., Raza, S. S., & Uddin, S. (2021). Reactive oxygen species (ROS) in cancer pathogenesis and therapy: An update on the role of ROS in anticancer action of

- benzophenanthridine alkaloids. *Biomedicine & Pharmacotherapy*. 143, 112142.
- Khan, T., Ali, M., Khan, A., Nisar, P., Jan, S. A., Afridi, S., & Shinwari, Z. K. (2020) Anticancer Plants: A Review of the Active Phytochemicals, Applications in Animal Models, and Regulatory Aspects. *Biomolecules*. 10(1), 47.
- Kiddane, A. T., Kang, M. J., Ho, T. C., Getachew, A. T., Patil, M. P., Chun, B. S., & Kim, G. D. (2022). Anticancer and Apoptotic Activity in Cervical Adenocarcinoma HeLa Using Crude Extract of *Ganoderma applanatum*. *Current issues in molecular biology*. 44(3), 1012–1026.
- Kopustinskiene, D. M., Jakstas, V., Savickas, A., & Bernatoniene, J. (2020). Flavonoids as Anticancer Agents. *Nutrients*. 12(2), 457.
- Lagunin A.A., Rudik A.V., Pogodin P.V., Savosina P.I., Tarasova O.A., Dmitriev A.V., Ivanov S.M., Biziukova N.Y., Druzhilovskiy D.S., & Filimonov D.A. 2023. CLC-Pred 2.0: A Freely Available Web Application for In Silico Prediction of Human Cell Line Cytotoxicity and Molecular Mechanisms of Action for Druglike Compounds. *International Journal of Molecular Sciences*.; 24(2):1689.
- Liang, T., Wang, F., Elhassan, R. M., Cheng, Y., Tang, X., Chen, W., Fang, H., & Hou, X. 2023. *Targeting histone deacetylases for cancer therapy: Trends and challenges*. *Acta Pharmaceutica Sinica B*, 13(6), 2425–2463.
- Lin, K., Baritaki, S., Vivarelli, S., Falzone, L., Scalisi, A., Libra, M., & Bonavida, B. (2022). The Breast Cancer Protooncogenes HER2, BRCA1 and BRCA2 and Their Regulation by the iNOS/NOS2 Axis. *Antioxidants*. 11(6), 1195. <https://doi.org/10.3390/antiox11061195>
- Mao, H., Zhao, X. & Sun, Sc. 2025. NF- κ B in inflammation and cancer. *Cell Mol Immunol* 22, 811–839.
- Moini, J., Badolato, C., & Ahangari, R. (2020). Biology of Cancer. *Epidemiology of Endocrine Tumors*. 29–54.

- Moyer, A., Tanaka, K. & Cheng, E. H. 2025. Apoptosis in Cancer Biology and Therapy. *Annual Review of Pathology: Mechanisms of Disease*. 20:303–28
- Muñoz J.P., Pérez-Moreno P., Pérez Y., & Calaf G.M. 2023. The Role of MicroRNAs in Breast Cancer and the Challenges of Their Clinical Application. *Diagnostics (Basel)*,13(19):3072. doi: 10.3390/diagnostics13193072. PMID: 37835815; PMCID: PMC10572677.
- Muthu, N., Lee, S. Y., Phua, K. K., & Bhore, S. J. (2016). Nutritional, Medicinal and Toxicological Attributes of Star-Fruits (*Averrhoa carambola* L.): A Review. *Bioinformation*. 12(12), 420–424.
- Nambisan, P. (2017). Relevance of Intellectual Property Rights in Biotechnology. *An Introduction to Ethical, Safety and Intellectual Property Rights Issues in Biotechnology*. 291–309.
- National Library of Medicine. 2025. APAF1 apoptotic peptidase activating factor 1 [*Homo sapiens* (human)]. (Accessed on December 12th 2025 through <https://www.ncbi.nlm.nih.gov/gene/317>)
- Nova, R., Hoemardani, A. S. D., & Louisa, M. (2020). Potential of herbal medicines in cancer therapy. *The Indonesian Journal of Cancer Control*.
- Paz Lopes, M., Dittz Júnior, D., Lemos, F. (2015). Antitumor Phenylpropanoids. In: de Sousa, D. (eds) *Bioactive Essential Oils and Cancer*. Springer, Cham.
- Rachma, F.A., Haryoto, & Indrayudha, P. 2020. Uji EFEKTIFITAS SITOTOKSIK EKSTRAK ETANOL KULIT BATANG SIRSAK TERHADAP SEL T47D. *Jurnal Farmasi & Sains Indonesia*. 3(2)
- Rai, Y., Pathak, R., Kumari, N., Sah, D. K., Pandey, S., Kalra, N., Soni, R., Dwarakanath, B. S., & Bhatt, A. N. (2018). Mitochondrial biogenesis and metabolic hyperactivation limits the application of MTT assay in the estimation of radiation induced growth inhibition. *Scientific Reports*. 8, 1531
- Savira, M., Suhaimi, D., Putra, A. E., Yusrawati, Y., & Lipoeto, N. I. (2022). Prevalence Oncogenic Human Papillomavirus in Cervical Cancer Patients in Riau Province Indonesia. *Reports of biochemistry & molecular biology*. 10(4), 573–579.

- Scalia, P., Marino, I.R., Asero, S., Pandini, G., Grimberg, A., El-Deiry, W.S., & Williams, S.J. 2024. Autocrine IGF-II-Associated Cancers: From a Rare Paraneoplastic Event to a Hallmark in Malignancy. *Biomedicines* , 12, 40.
- Setyawan, H.Y., Sukardi, S., Nareswari, B. F. (2021). The phytochemical potential of Averrhoa bilimbi – A review. *IOP Conference Series: Earth and Environmental Science*.
- Silalahi, M. 2021. Pemanfaatan dan Bioaktivitas Bilimbing Wuluh (Averrhoa bilimbi L.) *Titian Ilmu: Jurnal Ilmiah Multi Sciences*. 13(1), 39–45.
- Singh, R,m Sharmam J., & Goyal, P. K. (2014). Prophylactic Role of Averrhoacarambola (Star Fruit) Extract against Chemically Induced Hepatocellular Carcinoma in Swiss Albino Mice. *Advances in Pharmacological Sciences*. 2014(158936), 8.
- 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>.
- Tjokroprawiro, B. A., Yuliati, I., Nuranna, L., Utami, T. W., Anggraeni, T. D., Novitasari, K. & Ulhaq, R. A. 2023. Cervical cancer screening and prevention among female gynecologic oncologists in Indonesia. *Bali Medical Journal*. 12(1), 1158-1162.
- Utami, W., Elisa Br. Saragih, Merilla Andini. 2023. Potential Cytotoxic Activity of Belimbing Wuluh (Averrhoa bilimbi L.) on Cancer Cells. *Lansau: Jurnal Ilmu Kefarmasian*. 1(2), 140-152.
- Vajrabhaya, L. & Korsuwannawong, S. Cytotoxicity evaluation of a Thai herb using tetrazolium (MTT) and sulforhodamine B (SRB) assays. (2018). *Journal of Analytical Science Technology*. 9(15).
- Yan, X. J., Gong, L. H., Zheng, F. Y., Cheng, K. J., Chen, Z. S., & Shi, Z. (2014). Triterpenoids as reversal agents for anticancer drug resistance treatment. *Drug Discovery Today*. 19(4), 482–488.

- Yu, S., Kim, T., Yoo, K. H., & Kang, K. 2017. The T47D cell line is an ideal experimental model to elucidate the progesterone-specific effects of a luminal A subtype of breast cancer. *Biochemical and Biophysical Research Communications*. 486(3), 752–758.
- Yücel, C. K., Bor, M., & Ryser, P. (2014). Interspecific diversity in root antioxidative enzyme activities reflect root turnover strategies and preferred habitats in wetland graminoids. *Ecology and evolution*. 4(6), 831–840.
- Zheng, X., Yang, L., Zhai, W., Geng, N., Zhang, Z., Li, X., & Wu, M. (2023). Synergistic anticancer activity of cisplatin combined with tannic acid enhances apoptosis in lung cancer through the PERK-ATF4 pathway. *European Journal of Medical Research*. 28, 462.