

REFERENCES

- Abotaleb, M., Samuel, S. M., Varghese, E., Varghese, S., Kubatka, P., Liskova, A., & Büsselberg, D. (2018). Flavonoids in Cancer and Apoptosis. *Cancers*, 11(1).
- Adamczyk, B., Simon, J., Kitunen, V., Adamczyk, S., & Smolander, A. (2017). Tannins and Their Complex Interaction with Different Organic Nitrogen Compounds and Enzymes: Old Paradigms versus Recent Advances. *ChemistryOpen*, 6(5), 610–614.
- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., & Walter, P. (2002). An Overview of the Cell Cycle.
- Alberts, B., Johnson, A., Lewis, J., Morgan, D., Raff, M., & Roberts, K. et al. (2015). Molecular biology of the cell.
- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., & Walter, P. (2002). Components of the Cell-Cycle Control System.
- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., & Walter, P. (2002b). Programmed Cell Death (Apoptosis).
- Alkabban, F. M., & Ferguson, T. (2019). *Cancer, Breast*. StatPearls. StatPearls Publishing.
- Ano, V. (2019). Minyak Atsiri Kapulaga – ano. Retrieved from <https://ano.web.id/minyak-atsiri-kapulaga/>
- Asmara, A. P., Kimia, P. S., & Ar-raniry, U. I. N. (2017). Uji Fitokimia Senyawa Metabolit Sekunder Dalam Ekstrak Metanol Bunga Turi Merah (*Sesbania grandiflora* L . Pers), 5.
- Badowska-Kozakiewicz, A. M., & Budzik, M. P. (2016). Immunohistochemical characteristics of basal-like breast cancer. *Contemporary Oncology (Poznan, Poland)*, 20(6), 436–443.
- Bertoli, C., Skotheim, J. M., & de Bruin, R. A. M. (2013). Control of cell cycle transcription during G1 and S phases. *Nature Reviews. Molecular Cell Biology*, 14(8), 518–528.
- Bertram, J. S. (2000). The molecular biology of cancer. *Molecular Aspects of Medicine*, 21(6), 167–223.
- Brauchle, E., Thude, S., Brucker, S. Y., & Schenke-Layland, K. (2014). Cell death stages in single apoptotic and necrotic cells monitored by Raman microspectroscopy. *Scientific Reports*, 4, 4698.
- Candrasari, D. S., Mubarika, S., & Wahyuningsih, M. S. H. (2018). The effect of a-terpineol on cell cycle, apoptosis and Bcl-2 family protein expression of breast cancer cell line MCF-7. *Journal of Thee Medical Sciences (Berkala Ilmu Kedokteran)*, 47(02), 59–67.
- Caplan, L. (2014). Delay in breast cancer: implications for stage at diagnosis and survival. *Frontiers in Public Health*, 2, 87.
- Capriotti, K., & Capriotti, J. A. (2012). Dimethyl sulfoxide: history, chemistry, and clinical utility in dermatology. *The Journal of Clinical and Aesthetic Dermatology*, 5(9), 24–26.
- Cho, Y. S., & Park, S. Y. (2014). Harnessing of Programmed Necrosis for Fighting against Cancers. *Biomolecules & Therapeutics*, 22(3), 167–175.

- Cooper, G. M. (2000a). *The Development and Causes of Cancer*.
- Cooper, G. M. (2000b). *The Eukaryotic Cell Cycle*.
- Dahabreh, I. J., Wieland, L. S., Adam, G. P., Halladay, C., Lau, J., & Trikalinos, T. A. (2014). Background.
- Damião Pergentino de Sousa. (2015). *Bioactive Essential Oils and Cancer - Google Buku*.
- Das, A., Pal, K. K., & Nag, S. (2018). ANATOMY, MICROMORPHOLOGY AND HISTOCHEMICAL LOCALIZATION OF DIFFERENT PHYTOCHEMICALS OF TWO MEDICINALLY IMPORTANT TAXA OF THE FAMILY ZINGIBERACEAE.
- Daub, J. T., & Merks, R. M. H. (2013). A Cell-Based Model of Extracellular-Matrix-Guided Endothelial Cell Migration During Angiogenesis. *Bulletin of Mathematical Biology*, 75(8), 1377–1399.
- Desai, A. G., Qazi, G. N., Ganju, R. K., El-Tamer, M., Singh, J., Saxena, A. K., ... Bhat, H. K. (2008). Medicinal plants and cancer chemoprevention. *Current Drug Metabolism*, 9(7), 581–91.
- Ding, M., Feng, R., Wang, S. Y., Bowman, L., Lu, Y., Qian, Y., ... Shi, X. (2006). Cyanidin-3-glucoside, a natural product derived from blackberry, exhibits chemopreventive and chemotherapeutic activity. *Journal of Biological Chemistry*, 281(25), 17359–17368.
- Early Phase of Apoptosis | Bio-Rad. (2019). Retrieved from <https://www.bio-rad-antibodies.com/apoptosis-early.html>
- Eliyatkın, N., Yalçın, E., Zengel, B., Aktaş, S., & Vardar, E. (2015). Molecular Classification of Breast Carcinoma: From Traditional, Old-Fashioned Way to A New Age, and A New Way. *The Journal of Breast Health*, 11(2), 59–66.
- Euphorbiaceae, E. L. (2012). Dr . Duke ' s Phytochemical and Ethnobotanical Databases, (1), 1–10.
- Fachriyah, E. (2007). Identifikasi Minyak Atsiri Biji Kapulaga (*Amomum cardamomum*). *Jurnal Sains Dan Matematika*, 15(2), 83–87.
- Fink, S. L., & Cookson, B. T. (2005). Apoptosis, pyroptosis, and necrosis: mechanistic description of dead and dying eukaryotic cells. *Infection and Immunity*, 73(4), 1907–1916.
- Godet, I., & Gilkes, D. M. (2017). BRCA1 and BRCA2 mutations and treatment strategies for breast cancer. *Integrative Cancer Science and Therapeutics*, 4(1).
- González, M. L., Joray, M. B., Laiolo, J., Crespo, M. I., Palacios, S. M., Ruiz, G. M., & Carpinella, M. C. (2018). Cytotoxic Activity of Extracts from Plants of Central Argentina on Sensitive and Multidrug-Resistant Leukemia Cells: Isolation of an Active Principle from *Gaillardia megapotamica*. *Evidence-Based Complementary and Alternative Medicine : ECAM*, 2018, 9185935.
- Gratus, C., Wilson, S., Greenfield, S. M., Damery, S. L., Warmington, S. A., Grieve, R., ... Routledge, P. (2009). The use of herbal medicines by people with cancer: a qualitative study. *BMC Complementary and Alternative Medicine*, 9, 14.
- Gutschner, T., & Diederichs, S. (2012). The hallmarks of cancer: a long non-coding RNA point of view. *RNA Biology*, 9(6), 703–19.
- Hanahan, D., & Weinberg, R. A. (2011). Hallmarks of Cancer: The Next Generation. *Cell*, 144(5), 646–674.

- Hebling, J., Bianchi, L., Basso, F. G., Scheffel, D. L., Soares, D. G., Carrilho, M. R. O., ... de Souza Costa, C. A. (2015). Cytotoxicity of dimethyl sulfoxide (DMSO) in direct contact with odontoblast-like cells. *Dental Materials : Official Publication of the Academy of Dental Materials*, 31(4), 399–405.
- Hotchkiss, R. S., Strasser, A., McDunn, J. E., & Swanson, P. E. (2009). Cell death. *The New England Journal of Medicine*, 361(16), 1570–1583.
- How does chemotherapy work? (2016).
- Hussain, S. A., Palmer, D. H., Stevens, A., Spooner, D., Poole, C. J., & Rea, D. W. (2005). Role of chemotherapy in breast cancer. *Expert Review of Anticancer Therapy*, 5(6), 1095–1110.
- IARC. (2018). Latest Global Cancer Data, 2018. World Health Organization, (September), 13–15.
- Ikalinus, R., Widyastuti, S. K., Luh, N., Setiasih, E., Program, M., Dokter, P., ... Udayana, U. (2015). Skrining Fitokimia Ekstrak Etanol Kulit Batang Kelor (*Moringa oleifera*), 4(1), 71–79.
- International Agency for Research on Cancer. (2019). Agents Classified by the IARC Monographs, Volumes 1–123 – IARC.
- John M. Eisenberg Center for Clinical Decisions and Communications Science, J. M. E. C. for C. D. and C. (2007). Core-Needle Biopsy for Breast Abnormalities. Comparative Effectiveness Review Summary Guides for Clinicians. Agency for Healthcare Research and Quality (US).
- Kagan, I. A., & Flythe, M. D. (2014). Thin-layer chromatographic (TLC) separations and bioassays of plant extracts to identify antimicrobial compounds. *Journal of Visualized Experiments : JoVE*, (85).
- Kamińska, M., Ciszewski, T., Łopacka-Szatan, K., Miotła, P., & Starosławska, E. (2015). Breast cancer risk factors. *Przegląd Menopauzalny = Menopause Review*, 14(3), 196–202.
- Kang, E., Lee, D. H., Jung, Y. J., Shin, S. Y., Koh, D., & Lee, Y. H. (2016). α -Pinene inhibits tumor invasion through downregulation of nuclear factor (NF)- κ B-regulated matrix metalloproteinase-9 gene expression in MDA-MB-231 human breast cancer cells. *Applied Biological Chemistry*, 59(4), 511–516.
- Kementerian Kesehatan RI. (2015). Buletin Kanker. Pusat Data dan Informasi Kementerian Kesehatan RI 2015. Jakarta: Kemenkes RI;2015.
- Kolligs, F. T. (2016). Diagnostics and Epidemiology of Colorectal Cancer. *Visceral Medicine*, 32(3), 158.
- Kroemer, G., Galluzzi, L., Vandenabeele, P., Abrams, J., Alnemri, E. S., Baehrecke, E. H., ... Nomenclature Committee on Cell Death 2009. (2009). Classification of cell death: recommendations of the Nomenclature Committee on Cell Death 2009. *Cell Death and Differentiation*, 16(1), 3–11.
- Kumar, S. P. J., Prasad, S. R., Banerjee, R., Agarwal, D. K., Kulkarni, K. S., & Ramesh, K. V. (2017). Green solvents and technologies for oil extraction from oilseeds. *Chemistry Central Journal*, 11, 9.
- Langdon, S. P. (2003). Cancer Cell Culture. *Cancer Cell Culture*, 731, 237–245.
- Lee, J.-A., Lee, M.-Y., Shin, I.-S., Seo, C.-S., Ha, H., & Shin, H. K. (2012). Anti-inflammatory Effects of *Amomum compactum* on RAW 264.7 cells via induction of heme oxygenase-1. *Archives of*

- Pharmacol Research, 35(4), 739–746.
- Lechardeur, D., Xu, M., & Lukacs, G. L. (2004). Contrasting nuclear dynamics of the caspase-activated DNase (CAD) in dividing and apoptotic cells. *The Journal of Cell Biology*, 167(5), 851–862.
- Levels, C. on A. E. G., Toxicology, C. on, Toxicology, B. on E. S. and, Studies, D. on E. and L., & Council, N. R. (2013). n-Hexane: Acute Exposure Guideline Levels.
- Lim, L. Y., Vidnovic, N., Ellisen, L. W., & Leong, C.-O. (2009). Mutant p53 mediates survival of breast cancer cells. *British Journal of Cancer*, 101(9), 1606–12.
- Lim, T. K. (2013). *Amomum compactum*. In *Edible Medicinal And Non-Medicinal Plants* (pp. 797–800). Dordrecht: Springer Netherlands.
- Lodish, H., Berk, A., Zipursky, S. L., Matsudaira, P., Baltimore, D., & Darnell, J. (2000a). Cancer.
- Lodish, H., Berk, A., Zipursky, S. L., Matsudaira, P., Baltimore, D., & Darnell, J. (2000b). Overview of the Cell Cycle and Its Control.
- Loft, S., Olsen, A., Moller, P., Poulsen, H. E., & Tjonneland, A. (2013). Association between 8-oxo-7,8-dihydro-2'-deoxyguanosine Excretion and Risk of Postmenopausal Breast Cancer: Nested Case-Control Study. *Cancer Epidemiology Biomarkers & Prevention*, 22(7), 1289–1296.
- López-Lázaro, M. (2018). Cancer etiology: Variation in cancer risk among tissues is poorly explained by the number of gene mutations. *Genes, Chromosomes and Cancer*, 57(6), 281–293.
- Malhotra, G. K., Zhao, X., Band, H., & Band, V. (2010). Histological, molecular and functional subtypes of breast cancers. *Cancer Biology & Therapy*, 10(10), 955–960.
- Makki, J. (2015). Diversity of Breast Carcinoma: Histological Subtypes and Clinical Relevance. *Clinical Medicine Insights. Pathology*, 8, 23–31.
- Malhotra, G. K., Zhao, X., Band, H., & Band, V. (2010). Histological, molecular and functional subtypes of breast cancers. *Cancer Biology & Therapy*, 10(10), 955–60.
- Mariño, G., & Kroemer, G. (2013). Mechanisms of apoptotic phosphatidylserine exposure. *Cell Research*, 23(11), 1247–1248.
- Marzouk, M. S. A., Moharram, F. A., Mohamed, M. A., Gamal-Eldeen, A. M., & Aboutabl, E. A. (2007). Anticancer and antioxidant tannins from *Pimenta dioica* leaves. *Zeitschrift Fur Naturforschung. C, Journal of Biosciences*, 62(7–8), 526–536.
- Miller, R. G. (2001). Breast cancer screening: can we talk? *Journal of General Internal Medicine*, 16(3), 206–7.
- MURATA, S., SHIRAGAMI, R., KOSUGI, C., TEZUKA, T., YAMAZAKI, M., HIRANO, A., ... KODA, K. (2013). Antitumor effect of 1, 8-cineole against colon cancer. *Oncology Reports*, 30(6), 2647–2652.
- Nisa, F. Z., Astuti, M., Murdiati, A., & Haryana, S. M. (2017). Anti-proliferation and apoptosis induction of aqueous leaf extract of *Carica papaya* L. On human breast cancer cells MCF-7. *Pakistan Journal of Biological Sciences*, 20(1), 36–41.
- Nounou, M. I., ElAmrawy, F., Ahmed, N., Abdelraouf, K., Goda, S., & Syed-Sha-Qhattal, H. (2015). Breast Cancer: Conventional Diagnosis and Treatment Modalities and Recent Patents and Technologies. *Breast Cancer : Basic and Clinical Research*, 9(Suppl 2), 17–34.

- Nover, A., Jagtap, S., Anjum, W., Yegingil, H., Shih, W., Shih, W., & Brooks, A. (2009). Modern Breast Cancer Detection: A Technological Review. *International Journal Of Biomedical Imaging*, 2009, 1-14.
- Okuda, T., & Ito, H. (2011). Tannins of Constant Structure in Medicinal and Food Plants—Hydrolyzable Tannins and Polyphenols Related to Tannins. *Molecules*, 16(3), 2191–2217.
- Osborne, C. K., Shou, J., Massarweh, S., & Schiff, R. (2005). Crosstalk between estrogen receptor and growth factor receptor pathways as a cause for endocrine therapy resistance in breast cancer. *Clinical Cancer Research : An Official Journal of the American Association for Cancer Research*, 11(2 Pt 2), 865s-70s.
- Qiblawi, S., Dhanarasu, S., & Faris, M. A.-I. (2015). Chemopreventive Effect of Cardamom (*Elettaria cardamomum* L.) Against Benzo(α)Pyrene-Induced Forestomach Papillomagenesis in Swiss Albino Mice. *Journal of Environmental Pathology, Toxicology and Oncology*, 34(2), 95–104.
- Patel, V. A., Longacre, A., Hsiao, K., Fan, H., Meng, F., Mitchell, J. E., ... Levine, J. S. (2006). Apoptotic Cells, at All Stages of the Death Process, Trigger Characteristic Signaling Events That Are Divergent from and Dominant over Those Triggered by Necrotic Cells. *Journal of Biological Chemistry*, 281(8), 4663–4670.
- Paul, A., & Paul, S. (2014). The breast cancer susceptibility genes (BRCA) in breast and ovarian cancers. *Frontiers in Bioscience (Landmark Edition)*, 19, 605–18.
- PDQ Adult Treatment Editorial Board, P. A. T. E. (2002). Breast Cancer Treatment During Pregnancy (PDQ®): Patient Version. PDQ Cancer Information Summaries. National Cancer Institute (US).
- Poljšak, B., & Milisav, I. (2012). Clinical implications of cellular stress responses. *Bosnian Journal of Basic Medical Sciences*, 12(2), 122–126.
- Ramirez, L. Y., Huestis, S. E., Yap, T. Y., Zyzanski, S., Drotar, D., & Kodish, E. (2009). Potential chemotherapy side effects: what do oncologists tell parents? *Pediatric Blood & Cancer*, 52(4), 497–502.
- Ricci, M. S. (2006). Chemotherapeutic Approaches for Targeting Cell Death Pathways. *The Oncologist*, 11(4), 342–357.
- Rieger, A. M., Nelson, K. L., Konowalchuk, J. D., & Barreda, D. R. (2011). Modified annexin V/propidium iodide apoptosis assay for accurate assessment of cell death. *Journal of Visualized Experiments : JoVE*, (50).
- Safarzadeh, E., Sandoghchian Shotorbani, S., & Baradaran, B. (2014). Herbal medicine as inducers of apoptosis in cancer treatment. *Advanced Pharmaceutical Bulletin*, 4(Suppl 1), 421–427.
- Sarkar, S., Horn, G., Moulton, K., Oza, A., Byler, S., Kokolus, S., & Longacre, M. (2013). Cancer Development, Progression, and Therapy: An Epigenetic Overview. *International Journal Of Molecular Sciences*, 14(10), 21087-21113.
- Sasidharan, S., Chen, Y., Saravanan, D., Sundram, K. M., & Yoga Latha, L. (2011). Extraction, isolation and characterization of bioactive compounds from plants' extracts. *African Journal of Traditional, Complementary, and Alternative Medicines : AJTCAM*, 8(1), 1–10.
- Schofield, P., Mbugua, D. M., & Pell, A. N. (2001). Analysis of condensed tannins: A review. *Animal Feed Science and Technology*, 91(1–2), 21–40.

- Senthilraja, P., & Kathiresan, K. (2015). In vitro cytotoxicity MTT assay in vero, HepG2 and MCF-7 cell lines study of marine yeast. *Journal of Applied Pharmaceutical Science*, 5(3), 80–84.
- Sharma, S., & Sharma, J. (2018). INTERNATIONAL JOURNAL OF DRUG FORMULATION AND RESEARCH Therapeutic uses of *Elettaria cardomum* Therapeutic uses of *Elettaria cardomum* Key Words :, (June).
- Shah, R., Rosso, K., & Nathanson, S. D. (2014). Pathogenesis, prevention, diagnosis and treatment of breast cancer. *World Journal of Clinical Oncology*, 5(3), 283–98.
- Shewach, D. S., & Kuchta, R. D. (2009). Introduction to cancer chemotherapeutics. *Chemical Reviews*, 109(7), 2859–2861.
- Siegfried, S. A., Schroeder, J. R., & Jennifer Schroeder, C. R. (2018). Toxicity of thieves oils to mcf-7 and mda-mb-231 breast cancer cells. ~ 1 ~ *American Journal of Essential Oils and Natural Products*, 6(1).
- Singh, C. K., George, J., & Ahmad, N. (2013). Resveratrol-based combinatorial strategies for cancer management. *Annals of the New York Academy of Sciences*, 1290(1), 113–21.
- Sporn, M. B., & Lippman, S. M. (2003). Agents for Chemoprevention and Their Mechanism of Action.
- Sukandar, D., Hermanto, S., Amelia, E. R., Zaenudin, M., & Zaenudin, M. (2016). AKTIVITAS ANTIBAKTERI EKSTRAK BIJI KAPULAGA (*Amomum compactum* Sol. Ex Maton). *Jurnal Kimia Terapan Indonesia*, 17(2), 119–129.
- The Birth and Death of Cells. (2019). Retrieved from <http://sphweb.bumc.bu.edu/otlt/mph-modules/ph/aging/Aging2.html>
- Tian, J.-M., Ran, B., Zhang, C.-L., Yan, D.-M., & Li, X.-H. (2018). Estrogen and progesterone promote breast cancer cell proliferation by inducing cyclin G1 expression. *Brazilian Journal of Medical and Biological Research = Revista Brasileira de Pesquisas Medicas e Biologicas*, 51(3), 1–7.
- Tomiyama, K., Mukai, Y., Saito, M., Watanabe, K., Kumada, H., Nihei, T., ... Teranaka, T. (2016). Antibacterial Action of a Condensed Tannin Extracted from Astringent Persimmon as a Component of Food Addictive Pancil PS-M on Oral Polymicrobial Biofilms. *BioMed Research International*, 2016, 5730748.
- Vutakuri, N., & Somara, S. (2018). Natural and herbal medicine for breast cancer using *Elettaria cardamomum* (L .) Maton, 6(2), 91–96.
- Wahyuni, D. (2016). *Toga Indonesia* (p. 50). Airlangga University Press.
- Wang, L. (2017). Early Diagnosis of Breast Cancer. *Sensors (Basel, Switzerland)*, 17(7).
- Weigelt, B., Geyer, F. C., & Reis-Filho, J. S. (2010). Histological types of breast cancer: How special are they? *Molecular Oncology*, 4(3), 192–208.
- World Health Organization. (2014). Cancer Country Profile: Indonesia. *Cancer Country Profiles*, 22–23.
- Winarti, C., & Nurdjanah, N. (2005). Peluang tanaman rempah dan obat sebagai sumber pangan fungsional. *Jurnal Litbang Pertanian*, 24(12), 47–55.
- Ye, X., Franco, A. A., Santos, H., Nelson, D. M., Kaufman, P. D., & Adams, P. D. (2003). Defective S phase chromatin assembly causes DNA damage, activation of the S phase checkpoint, and S

phase arrest. *Molecular Cell*, 11(2), 341–351.

Zhang, H., & Ma, Z. F. (2018). Phytochemical and Pharmacological Properties of *Capparis spinosa* as a Medicinal Plant. *Nutrients*, 10(2)

Zhang, Q. W., Lin, L. G., & Ye, W. C. (2018). Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine (United Kingdom)*, 13(1), 1–26.

Zhang, W., & Xu, J. (2017). DNA methyltransferases and their roles in tumorigenesis. *Biomarker Research*, 5(1).

Πλιατσκίδου, Σ., Σαμακουρή, Μ., Καλαμάρα, Ε., Γουλεμτζάκης, Χ., Κουτρούβη, Κ., Παπαγεωργίου, Ε., & Λειβαδίτης, Μ. (2012). Ερευνητική εργασία *Research article*, 23(4), 295–303.