

DAFTAR PUSTAKA

- Adjakly, M., Ngollo, M., dan Boiteux, J., 2013. Genistein and Daidzein : Different Molecular Effects on Prostate Cancer. *Anticancer Research*, **33**: 39–44.
- Al-mahmood, S., Sapiezynski, J., Garbuzenko, O.B., dan Minko, T., 2018. Metastatic and triple-negative breast cancer : challenges and treatment options. *Drug Delivery and Translational Research*, **8**: 1483–1507.
- Alali, F.Q., Liu, X., dan McLaughlin, J.L., 1999. Annonaceous Acetogenins: Recent Progress. *Review Literature And Arts Of The Americas*, 504–540.
- Ami, D., Davidovi, D., dan Trinajsti, N., 2003. Structure-Radical Scavenging Activity Relationships of Flavonoids. *Croatia Chemica Acta*, **76**: 55–61.
- Bailey-downs, L.C., Thorpe, J.E., Disch, B.C., Bastian, A., Hauser, P.J., Farasyn, T., dkk., 2014. Development and Characterization of a Preclinical Model of Breast Cancer Lung Micrometastatic to Macrometastatic Progression. *PloS one*, **9**: 1–12.
- Balaban, R.S., Nemoto, S., dan Finkel, T., 2005. Mitochondria, oxidants, and aging. *cell*, **120**: 483–495.
- Beckhauser, T.F., Francis-oliveira, J., dan Pasquale, R. De, 2016. Reactive Oxygen Species : Physiological and Physiopathological Effects on Synaptic Plasticity. *Journal of experimental neuroscience*, **10**: 23–48.
- Calderón, Á.I., Vázquez, Y., Solís, P.N., Caballero-, C., Zacchino, S., Gimenez, A., dkk., 2008. Screening of Latin American Plants for Cytotoxic Activity Screening of Latin American Plants for Cytotoxic Activity. *Pharmaceutical Biology*, **44**: .
- Chamcheu, J.C., Rady, I., Chamcheu, R.C.N., Siddique, A.B., Bloch, M.B., Mbeumi, S.B., dkk., 2018. Graviola (*Annona muricata*) exerts anti-proliferative, anti-clonogenic and pro-apoptotic effects in human non-melanoma skin cancer UW-BCC1 and A431 cells in vitro: Involvement of hedgehog signaling. *International Journal of Molecular Sciences*, **19**: .
- Cheang, M.C.U., Voduc, D., Bajdik, C., Leung, S., McKinney, S., Chia, S.K., dkk., 2008. Basal-like breast cancer defined by five biomarkers has superior prognostic value than triple-negative phenotype. *Clinical Cancer Research*, **14**: 1368–1376.
- Chen, A.Y. dan Chen, Y.C., 2014. A review of the dietary flavonoid, kaempferol on human health and cancer chemoprevention. *Food Chemistry*, **138**: 2099–2107.
- Coria-Téllez, A. V., Montalvo-Gonzalez, E., Yahia, E.M., dan Obledo-Vázquez,

- E.N., 2016. *Annona muricata*: A comprehensive review on its traditional medicinal uses, phytochemicals, pharmacological activities, mechanisms of action and toxicity. *Arabian Journal of Chemistry*, .
- De Angelis, P.M., Svendsrud, D.H., Kravik, K.L., dan Stokke, T., 2006. Cellular response to 5-fluorouracil (5-FU) in 5-FU-resistant colon cancer cell lines during treatment and recovery. *Molecular Cancer*, **5**: 1–25.
- Devi, K.P., Rajavel, T., Habtemariam, S., Nabavi, S.F., dan Nabavi, S.M., 2015. Molecular mechanisms underlying anticancer effects of myricetin. *Life Sciences*, .
- Dong, Y., Cao, A., Shi, J., Yin, P., Wang, L.I., Ji, G., dkk., 2014. Tangeretin , a citrus polymethoxyflavonoid , induces apoptosis of human gastric cancer AGS cells through extrinsic and intrinsic signaling pathways. *Oncology Reports*, **31**: 1788–1794.
- Duan, J.J., Cai, J., Guo, Y.F., Bian, X.W., dan Yu, S.C., 2016. ALDH1A3, a metabolic target for cancer diagnosis and therapy. *International Journal of Cancer*, **139**: 965–975.
- Đuračková, Z., 2010. Some Current Insights into Oxidative Stress. *Physiological Research*, **59**: 459–469.
- Finkel, T., 2000. Redox-dependent signal transduction. *FEBS letters*, **476**: 52–54.
- Finn, N.A., Findley, H.W., dan Kemp, M.L., 2011. A Switching Mechanism in Doxorubicin Bioactivation Can Be Exploited to Control Doxorubicin Toxicity. *PLoS Computational Biology*, **7**: .
- Firdous, A.B., Sharmila, G., Balakrishnan, S., Rajasingh, P., Suganya, S., Srinivasan, N., dkk., 2014. Quercetin, a natural dietary flavonoid, acts as a chemopreventive agent against prostate cancer in an in vivo model by inhibiting the EGFR signaling pathway. *Food and Function*, **5**: 2632–2645.
- Ganai, A.A. dan Farooqi, H., 2015. ScienceDirect Bioactivity of genistein : A review of in vitro and in vivo studies. *Biomedicine et Pharmacotherapy*, **76**: 30–38.
- Gavamukulya, Y., Abou-Elella, F., Wamunyokoli, F., dan AEI-Shemy, H., 2014. Phytochemical screening, anti-oxidant activity and in vitro anticancer potential of ethanolic and water leaves extracts of *Annona muricata* (Graviola). *Asian Pacific Journal of Tropical Medicine*, **7**: S355–S363.
- Gavamukulya, Y., Wamunyokoli, F., dan El-Shemy, H.A., 2017. *Annona muricata*: Is the natural therapy to most disease conditions including cancer growing in our backyard? A systematic review of its research history and future prospects. *Asian Pacific Journal of Tropical Medicine*, **10**: 835–848.

- Gavamukulya Yahaya, Wamunyokoli Fred, E.-S.H.A., 2017. *Annona Muricata*: Is the natural therapy to most disease conditions including cancer growing in our backyard? A systematic review of its research history and future prospect. *Asian Pacific of Tropical Medicine*, **10**: 815–848.
- Gibellini, L., Pinti, M., Nasi, M., Biasi, S. De, Roat, E., Bertoncelli, L., dkk., 2010. Interfering with ROS Metabolism in Cancer Cells: The Potential Role of Quercetin 1288–1311.
- Gorrini, C., Harris, I.S., dan Mak, T.W., 2013. Modulation of oxidative stress as an anticancer strategy. *Nature Publishing Group*, **12**: 931–947.
- Griffiths, C.L. dan Olin, J.L., 2012. Triple negative breast cancer: A brief review of its characteristics and treatment options. *Journal of Pharmacy Practice*, **25**: 319–323.
- Gutierrez, J., Ballinger, S.W., Darley-usmar, V.M., dan Landar, A., 2006. Free radicals, mitochondria, and oxidized lipids: the emerging role in signal transduction in vascular cells. *Circulation research*, **99**: 924–932.
- Habib, J.G. dan O’Shaughnessy, J.A., 2016. The hedgehog pathway in triple-negative breast cancer. *Cancer Medicine*, **5**: 2989–3006.
- Hanahan, D. dan Weinberg, A.R., 2011. Hallmarks of Cancer: The Next Generation. *Cell*, **144**: 646–674.
- Heiden, M.G. Vander, Cantley, L.C., dan Thompson, C.B., 2009. Understanding the warburg effect: The metabolic requirements of cell proliferation. *Science*, **324**: 1029–1033.
- Held, B.P., 2012. h i t e a p e r An Introduction to Reactive Oxygen Species Measurement of ROS in Cells. *Tech Resources-App Guides*, **802**: 5–9.
- Holliday, D.L. dan Speirs, V., 2011. Choosing correct breast cancer cell line. *Breast cancer research*, **13**: 1–7.
- Hudis, C.A. dan Gianni, L., 2011. Triple-Negative Breast Cancer: An Unmet Medical Need. *The Oncologist*, **16**: 1–11.
- Isemura, M., Saeki, K., Kimura, T., Hayakawa, S., dan Minami, T., 2000. Tea catechins and related polyphenols as anti-cancer agents. *BioFactors*, **13**: 81–85.
- Jabs, T., 1999. Reactive Oxygen Intermediates as Mediators of Programmed Cell Death in Plants and Animals. *Biochemical pharmacology*, **57**: 231–245.
- Justino, A.B., Carnevalli, N., Rodrigues, R., Machado, M., Maria, N., dan Salmen, F., 2018. Biomedicine & Pharmacotherapy *Annona muricata* Linn . leaf as a source of antioxidant compounds with in vitro antidiabetic and inhibitory potential

against α -amylase, α -glucosidase, lipase, non-enzymatic glycation and lipid peroxidation. *Biomedicine & Pharmacotherapy*, **100**: 83–92.

Kao, J., Salari, K., Bocanegra, M., Choi, Y. La, Girard, L., Gandhi, J., dkk., 2009. Molecular profiling of breast cancer cell lines defines relevant tumor models and provides a resource for cancer gene discovery. *PLoS ONE*, **4**: 1–16.

Kau, P., Nagaraja, G.M., Zheng, H., Gizachew, D., Galukande, M., Krishnan, S., dkk., 2012. A mouse model for triple-negative breast cancer tumor-initiating cells (TNBC-TICs) exhibits similar aggressive phenotype to the human disease. *BMC Cancer*, **12**: 120.

Kaur, P., Nagaraja, G.M., Zheng, H., Gizachew, D., Galukande, M., Krishnan, S., dkk., 2012. A mouse model for triple-negative breast cancer tumor-initiating cells (TNBC-TICs) exhibits similar aggressive phenotype to the human disease.

Khan, N., Syed, D.N., Ahmad, N., dan Mukhtar, H., 2013. Fisetin: A Dietary Antioxidant for Health Promotion. *Antioxidants & Redox Signaling*, **19**: .

Kim, J.Y., Dao, T.T.P., Song, K., Park, S.B., Jang, H., Park, M.K., dkk., 2018. *Annona muricata* Leaf Extract Triggered Intrinsic Apoptotic Pathway to Attenuate Cancerous Features of Triple Negative Breast Cancer MDA-MB-231 Cells. *Evidence-based Complementary and Alternative Medicine*, **2018**: .

Kim, M., Ha, T.K., Yoon, J., dan Lee, J., 2014. Myricetin Induces Cell Death of Human Colon Cancer Cells via BAX / BCL2-Dependent Pathway. *Anticancer Research*, **34**: 701–706.

Kuang, H., Tang, Z., Zhang, C., Wang, Z., dan Li, W., 2017. Taxifolin Activates the Nrf2 Anti-Oxidative Stress Pathway in Mouse Skin Epidermal JB6 P + Cells through Epigenetic Modifications. *International Journal of Molecular Sciences*, **18**: .

Lannuzel, A., Michel, P.P., Höglinger, G.U., Champy, P., Jousset, A., Medja, F., dkk., 2003. The mitochondrial complex I inhibitor annonacin is toxic to mesencephalic dopaminergic neurons by impairment of energy metabolism. *Neuroscience*, **121**: 287–296.

Larasati, Y.A., Yoneda-Kato, N., Nakamae, I., Yokoyama, T., Meiyanto, E., dan Kato, J.Y., 2018. Curcumin targets multiple enzymes involved in the ROS metabolic pathway to suppress tumor cell growth. *Scientific Reports*, **8**: 1–13.

Lassegue, B., Martín, A.S., dan Griendling, K.K., 2012. Oxidases in the Cardiovascular System. *Circulation research*, **110**: 1364–1390.

Leila, J., Hosein, G., Reyhaneh, S., Hanieh, R., Jila, N., Hajar, H., dkk., 2016. Cytotoxic effects of some common organic solvents on MCF-7, RAW-264.7 and human umbilical vein endothelial cells. *Stuk-a231*, **4**: 10–33453.

- Liu, Jun, Wang, C., Wang, Z., Zhang, C., Lu, S., dan Liu, Jingbo, 2011. The antioxidant and free-radical scavenging activities of extract and fractions from corn silk (*Zea mays* L.) and related flavone glycosides. *Food Chemistry*, **126**: 261–269.
- Longley, D.B. dan Johnston, P.G., 2005. Molecular mechanisms of drug resistance. *Journal of Pathology*, **205**: 275–292.
- Luna, J.D.S., De Carvalho, J.M., De Lima, M.R.F., Bieber, L.W., Bento, E.D.S., Franck, X., dkk., 2006. Acetogenins in *Annona muricata* L. (annonaceae) leaves are potent molluscicides. *Natural Product Research*, **20**: 253–257.
- Madamanchi, N.R. dan Runge, M.S., 2007. Mitochondrial dysfunction in atherosclerosis. *Circulation research*, **100**: 460–473.
- Mahae, N. dan Chaiseri, S., 2009. Antioxidant Activities and Antioxidative Components in Extracts of *Alpinia galanga* (L.) Sw. *Kasetsart Journal - Natural Science*, **43**: 358–369.
- Mansoori, B., Mohammadi, A., Davudian, S., Shirjang, S., dan Baradaran, B., 2017. The different mechanisms of cancer drug resistance: A brief review. *Advanced Pharmaceutical Bulletin*, **7**: 339–348.
- Meiyanto, E., Lestari, B., Nisa, R., Riris, S., Jenie, I., dan Utomo, R.Y., 2018. *Caesalpinia sappan* L. heartwood ethanolic extract exerts genotoxic inhibitory and cytotoxic effects. *Oriental Pharmacy and Experimental Medicine*, .
- Moghadamtousi, S.Z., Fadaeinasab, M., Nikzad, S., Mohan, G., Ali, H.M., dan Kadir, H.A., 2015a. *Annona muricata* (Annonaceae): A review of its traditional uses, isolated acetogenins and biological activities. *International Journal of Molecular Sciences*, **16**: 15625–15658.
- Moghadamtousi, S.Z., Rouhollahi, E., Karimian, H., Fadaeinasab, M., Firoozinia, M., Abdulla, M.A., dkk., 2015b. The chemopotential effect of *annona muricata* leaves against azoxymethane-induced colonic aberrant crypt foci in rats and the apoptotic effect of acetogenin *annonamuricin* e in HT-29 cells: A bioassay-guided approach. *PLoS ONE*, **10**: 1–28.
- Morry, J., Ngamcherdtrakul, W., dan Yantasee, W., 2017. Redox Biology Oxidative stress in cancer and fi brosis: Opportunity for therapeutic intervention with antioxidant compounds , enzymes , and nanoparticles. *Redox Biology*, **11**: 240–253.
- Mukhriani, Nonci, F.Y., dan Munawarah, S., 2015. ANALISIS KADAR FLAVONOID TOTAL PADA EKSTRAK DAUN SIRSAK (*ANNONA MURICATA* L .) DENGAN METODE SPEKTROFOTOMETRI UV-VIS. *Jurnal Farmasi Fakultas Kedokteran dan Ilmu Kesehatan UIN Alauddin*, **3**: .

- Namjuddin, S.F.U.S., Romli, F.M., Hamid, M., Alitheen, N.B., Rahman, A.N., Afizan, dkk., 2016. Anti-cancer effect of *Annona Muricata* Linn Leaves Crude Extract (AMCE) on breast cancer cell line. *BMC Complementary and Alternative Medicine*, 311.
- Nogueira, V. dan Hay, N., 2013. Molecular Pathways : Reactive Oxygen Species Homeostasis in Cancer Cells and Implications for Cancer Therapy. *Clinical Cancer Research*, 4309–4315.
- Padanilam, B.J., 2003. Cell death induced by acute renal injury: a perspective on the contributions of apoptosis and necrosis. *American Journal of Physiology-Renal Physiology*, **284**: F608–F627.
- Pan, H.C., Jiang, Q., Yu, Y., Mei, J.P., Cui, Y.K., dan Zhao, W.J., 2015. Quercetin promotes cell apoptosis and inhibits the expression of MMP-9 and fibronectin via the AKT and ERK signalling pathways in human glioma cells. *Neurochemistry International*, **80**: 60–71.
- Panche, A.N., Chandra, S.R., dan Diwan, A.D., 2016. Flavonoids: an overview. *Journal of nutritional science*, **5**: 1–15.
- Panieri, E. dan Santoro, M.M., 2016. ROS homeostasis and metabolism : a dangerous liason in cancer cells **7**: e2253-12.
- Pieme, C.A., Kumar, S.G., Dongmo, M.S., Moukette, B.M., Boyoum, F.F., Ngogang, J.Y., dkk., 2014. Antiproliferative activity and induction of apoptosis by *Annona muricata* (Annonaceae) extract on human cancer cells 1–10.
- Poillet-Perez, L., Despouy, G., Delage-Mourroux, R., dan Boyer-Guittaut, M., 2015. Interplay between ROS and autophagy in cancer cells, from tumor initiation to cancer therapy. *Redox Biology*, **4**: 184–192.
- Poyton, R.O., Ball, K.A., dan Castello, P.R., 2009. Mitochondrial generation of free radicals and hypoxic signaling. *Trends in Endocrinology & Metabolism*, **20**: 332–340.
- Pulaski, B.A. dan Ostrand-Rosenburg, S., 2000. Mouse 4T1 Breast Tumor Model. *Current protocols in immunology*, **39**: 2–20.
- Romero-Garcia, S., Lopez-Gonzalez, J.S., B´ ez-Viveros, J.L., Aguilar-Cazares, D., dan Prado-Garcia, H., 2011. Tumor cell metabolism: an integral view. Cancer biology & therapy. *Cancer biology & therapy*, **12**: 939–948.
- Sari, N.F., Lestari, B., Saputri, D., Ahsani, A.F., Santoso, R.A., Sasmito, E., dkk., 2017. Reveal Cytotoxicity and Antigenotoxicity of *Piper nigrum* L . Ethanolic Extract and its Combination with Doxorubicin on. *International Journal of Cancer Chemoprevention*, 105–113.

- Schoene, N.W. dan Guidry, C.A., 2000. Genistein Inhibits Reactive Oxygen Species (ROS) Production, Shape Change and Aggregation in Rat Platelets. *Nutrition Research*, **20**: 47–57.
- Schraufst tter, I., Jackson, J.H., dan Cochrane, C.G., 1988. Oxidant-induced DNA damage of target cells. *The Journal of clinical investigation*, **82**: 1040–1050.
- Schulze, A. dan Harris, A.L., 2012. How cancer metabolism is tuned for proliferation and vulnerable to disruption. *Nature*, **491**: 364–373.
- Setyorini, H.A., Kurniatri, A.A., dan Adelina, R., 2016. Karakterisasi Mutu Ekstrak Daun Sirsak (*Annona muricata* L .) dari Tiga Tempat Tumbuh. *Buletin Penelitian Kesehatan*, **44**: 279–286.
- Setyowibowo, H., Purba, F.D., Hunfeld, J.A.M., Iskandarsyah, A., Sadarjoen, S.S., Passchier, J., dkk., 2018. Quality of life and health status of Indonesian women with breast cancer symptoms before the definitive diagnosis: A comparison with Indonesian women in general. *PLoS ONE*, **13**: 1–11.
- Shabrina, B.A., Juansa, J., Putri, N.B., Yudi, R., dan Murwanti, R., 2016. Antigenotoxicity Activity of Papaya (*Carica papaya* L .) Leaf Ethanolic Extract on Swiss Mice Induced Cyclophosphamide through Mammalian In Vivo Micronucleus Test 31–37.
- Song, F., Gan, R., Zhang, Y., Xiao, Q., Kuang, L., dan Li, H., 2010. Total Phenolic Contents and Antioxidant Capacities of Selected Chinese Medicinal Plants 2362–2372.
- Sullivan, L.B. dan Chandel, N.S., 2014. Mitochondrial reactive oxygen species and cancer 1–12.
- 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 and Prevention*, **25**: 16–27.
- Torres, M.P., Rachagani, S., Purohit, V., Pandey, P., Joshi, S., Moore, E.D., Johansson, S.L., Singh, P.K., Ganti, A.K., Batra, S.K., 2012. Graviola: a novel promising natural derived drug that inhibits tumorigenicity and metastasis of pancreatic cancer cell in vitro and in vivo through altering cell metabolism. *Cancer Lett.* **323**, 1–11. Tsabang,
- Tsai, Y.J. dan Chen, B.H., 2016. Preparation of catechin extracts and nanoemulsions from green tea leaf waste and their inhibition effect on prostate cancer cell PC-3. *International Journal of Nanomedicine*, **11**: 1907–1926.
- Turrens, J.F., 2003. Mitochondrial formation of reactive oxygen species. *The Journal of physiology*, **552**: 335–344.

- Wijaya, Y.A., Widyadinata, D., Irawaty, W., dan Ayucitra, A., 2017. Fractionation of Phenolic and Flavonoid Compounds from Kaffir Lime (*Citrus hystrix*) Peel Extract and Evaluation of Antioxidant Activity. *Reaktor*, **17**: 111–117.
- Wu, D. dan Yotnda, P., 2011. Production and Detection of Reactive Oxygen Species (ROS) in Cancers. *Journal of Visualized Experiments*, 2–5.
- Yajid, A.I., Ab Rahman, H.S., Wong, M.P.K., dan Wan Zain, W.Z., 2018. Potential Benefits of *Annona muricata* in Combating Cancer: A Review. *Malaysian Journal of Medical Sciences*, **25**: 5–15.
- Yang, C., Gundala, S.R., Mukkavilli, R., Vangala, S., Reid, M.D., dan Aneja, R., 2015. Synergistic interactions among flavonoids and acetogenins in *Graviola* (*Annona muricata*) leaves confer protection against prostate cancer **36**: 656–665.
- Zhang, J., Huang, K., O'Neill, K.L., Pang, X., dan Luo, X., 2016. Bax/Bak activation in the absence of Bid, Bim, Puma, and p53. *Cell death & disease*, **7**: e2266.
- Zhang, L., Li, J., Zong, L., Chen, X., Chen, K., Jiang, Z., dkk., 2015. Reactive Oxygen Species and Targeted Therapy for Pancreatic Cancer. *Oxidative Medicine and Cellular Longevity*, **2016**: .
- Zhao, Y., Butler, E.B., dan Tan, M., 2013. Targeting cellular metabolism to improve cancer therapeutics. *Cell Death and Disease*, **4**: e532-10.
- Zorofchian Moghadamtousi, S., Karimian, H., Rouhollahi, E., Paydar, M., Fadaeinasab, M., dan Abdul Kadir, H., 2014. *Annona muricata* leaves induce G1cell cycle arrest and apoptosis through mitochondria-mediated pathway in human HCT-116 and HT-29 colon cancer cells. *Journal of Ethnopharmacology*, **156**: 277–289.