

## DAFTAR PUSTAKA

- Abdal Dayem, A., Hossain, M.K., Lee, S.B., Kim, K., Saha, S.K., Yang, G.-M., Choi, H.Y., Cho, S.-G., 2017. The Role of Reactive Oxygen Species (ROS) in the Biological Activities of Metallic Nanoparticles. *Int. J. Mol. Sci.* 18.
- Adam Hermawan, Aditya Fitriyanti, Sendy Junedi, Muthi Ikawati, Sari Haryanti, Barinta Widaryanti, M Da'i, and Edy Meiyanto. 2011. "PGV-0 AND PGV-1 INCREASED APOPTOSIS INDUCTION OF DOXORUBICIN ON MCF-7 BREAST CANCER CELLS." *PHARMACON* 12 (2): 55–59.
- Albert, B., Bray, D., Lewis, J., Rarr, M., Roberts, K. and Watson, J. O., 1994, *Molecular Biology of The Cell*, 3rd Ed., Garland Publishing, Inc., New York
- Alimonti A, Nardella C, Chen Z, Clohessy JG, Carracedo A, et al. A novel type of cellular senescence that can be enhanced in mouse models and human tumor xenografts to suppress prostate tumorigenesis. *J Clin Invest.* 2010; 120:681–93.
- 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.
- Al-mahmood, Sumayah, Justin Sapiezynski, Olga B Garbuzenko, and Tamara Minko. 2018. "Metastatic and Triple-Negative Breast Cancer : Challenges and Treatment Options," 1483–1507.
- Arur S, Uche UE, Rezaul K, Fong M, Scranton V, Cowan AE, Mohler W, Han DK. Annexin I is an endogenous ligand that mediates apoptotic cell engulfment. *Dev Cell* 2003;4:587–98.
- Ashkenazi A, Dixit VM. Death receptors: signaling and modulation. *Science* 1998;281:1305–8.
- Bertram, J.S., 2000. The molecular biology of cancer. *Mol. Aspects Med.* **21** (6), 167–223.
- Blagosklonny MV. Cell senescence and hypermitogenic arrest. *EMBO Rep.* 2003; 4:358–62.
- Braig M, Schmitt CA. Oncogene-induced senescence: putting the brakes on tumor development. *Cancer Res.* 2006; 66:2881–84.
- Campisi, Judith. 2007. "Cellular Senescence : When Bad Things Happen to Good Cells." *Nature Publishing Group* 8 (september).
- Cao, Jingyi, Hainan Wang, Feifei Chen, Jianzheng Fang, Aiming Xu, W E I Xi, Shengli Zhang, Gang Wu, and Zengjun Wang. 2016. "Galangin Inhibits Cell

- Invasion by Suppressing the Epithelial-Mesenchymal Transition and Inducing Apoptosis in Renal Cell Carcinoma,” 4238–44.
- Castedo, M. *et al.* (2006) “Selective resistance of tetraploid cancer cells against DNA damage-induced apoptosis,” *Annals of the New York Academy of Sciences*, 1090, hal. 35–49. doi: 10.1196/annals.1378.004.
- Chalakur-ramireddy, Naveen K R, and Suresh B Pakala. 2018. “Combined Drug Therapeutic Strategies for the Effective Treatment of Triple Negative Breast Cancer” 0 (January): 1–14.
- Cuadrado, M., Gutierrez-Martinez, P., Swat, A., Nebreda, A.R., Fernandez-Capetillo, O., 2009. p27Kip1 stabilization is essential for the maintenance of cell cycle arrest in response to DNA damage. *Cancer Res.* 69, 8726– 8732.
- Dai et al 2012\_Pengaruh Perlakuan PGV1 Dan PGV0 Terhadap Protein Yang Terlibat Dalam Siklus Sel T27D.Pdf.” n.d.
- Denard, B., Lee, C., Ye, J., 2012. Doxorubicin blocks proliferation of cancer cells through proteolytic activation of CREB3L1. *eLife* 1.
- Denisenko, T. V. *et al.* (2016) “Mitotic catastrophe and cancer drug resistance: A link that must to be broken,” *Drug Resistance Updates*. Elsevier Ltd, 24, hal. 1–12. doi: 10.1016/j.drup.2015.11.002.
- Elmore, S., 2007. Apoptosis: a review of programmed cell death. *Toxicologic Pathology*, 35: 495–516.
- Figel, Sheila, and Robert A Fenstermaker. 2018. *Cell-Cycle Regulation. Handbook of Brain Tumor Chemotherapy, Molecular Therapeutics, and Immunotherapy*. 2nd ed. Elsevier Inc.
- Fragomeni, Simona Maria, Andrew Sciallis, Jacqueline S Jeruss, Breast Cancer Unit, Ann Arbor, and Ann Arbor. 2019. “HHS Public Access” 27 (1): 95–120.
- Fulda, S, and K-m Debatin. 2006. “Extrinsic versus Intrinsic Apoptosis Pathways in Anticancer Chemotherapy,” 4798–4811.
- García, I. A. *et al.* (2020) “Therapeutic opportunities for PLK1 inhibitors: Spotlight on BRCA1-deficiency and triple negative breast cancers,” *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*. Elsevier, 821(February), hal. 111693. doi: 10.1016/j.mrfmmm.2020.111693.
- Garrido-castro, Ana C, Nancy U Lin, and Kornelia Polyak. 2020. “HHS Public Access” 9 (2): 176–98.

- Gavet, O. dan Pines, J. (2010) “the nucleus and the cytoplasm at mitosis,” 189(2), hal. 247–259. doi: 10.1083/jcb.200909144.
- Gong, D. dan Ferrell, J. E. (2010) “The roles of cyclin A2, B1, and B2 in early and late mitotic events,” *Molecular Biology of the Cell*, 21(18), hal. 3149–3161. doi: 10.1091/mbc.E10-05-0393.
- Gorrini, C., Harris, I.S., Mak, T.W., 2013. Modulation of oxidative stress as an anticancer strategy. *Nat. Rev. Drug Discov.* 12, 931–947.
- Gwak, J. *et al.* (2011) “Galangin suppresses the proliferation of  $\beta$ -catenin response transcription-positive cancer cells by promoting adenomatous polyposis coli/axin/glycogen synthase kinase-3 $\beta$ -independent  $\beta$ -catenin degradation,” *Molecular Pharmacology*, 79(6), hal. 1014–1022. doi: 10.1124/mol.110.069591.
- Hanahan, D. dan Weinberg, R.A., 2011. Hallmarks of Cancer: The Next Generation. *Cell*, **144**: 646–674.
- Heppner, G., R Miller, F., dan Malathy Shekhar, P., 2000. Nontransgenic models of breast cancer. *Breast Cancer Research : BCR*, **2**: 331–334.
- Hill MM, Adrain C, Duriez PJ, Creagh EM, Martin SJ. Analysis of the composition, assembly kinetics and activity of native Apaf-1 apoptosomes. *Embo J* 2004;23:2134–45.
- Isakoff, Steven J. 2010. “Triple-Negative Breast Cancer” 16 (1): 53–61.
- Joza N, Susin SA, Daugas E, Stanford WL, Cho SK, Li CY, Sasaki T, Elia AJ, Cheng HY, Ravagnan L, Ferri KF, Zamzami N, Wakeham A, Hakem R, Yoshida H, Kong YY, Mak TW, Zuniga- Pflucker JC, Kroemer G, Penninger JM. Essential role of the mitochondrial apoptosis-inducing factor in programmed cell death. *Nature* 2001;410:549–54.
- Kaur, P., 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.
- Kemntrian Kesehatan Republik Indonesia (2019) Hari Kanker Sedunia. Available from: [www.depkes-go.id/artikel/view/19020100003/hari-kanker-sedunia-2019.html](http://www.depkes-go.id/artikel/view/19020100003/hari-kanker-sedunia-2019.html) [Diakses pada 3 Oktober 2019]
- Kim, Deuk Ae, Young Keul Jeon, and Myeong Jin Nam. 2012. “Galangin Induces Apoptosis in Gastric Cancer Cells via Regulation of Ubiquitin Carboxy-Terminal Hydrolase Isozyme L1 and Glutathione S-Transferase P.” *Food and Chemical Toxicology* 50 (3–4): 684–88.
- King, R.J.B., 2000, *Cancer Biology*, 2nd ed., Pearson Education Limited, London.

- Kumar, Raj, and A B Tiku. 2018. "Chemico-Biological Interactions Galangin Induces Cell Death by Modulating the Expression of Glyoxalase-1 and Nrf-2 in HeLa Cells." *Chemico-Biological Interactions* 279 (October 2017): 1–9.
- Lee, Kha-liang, Yung-che Kuo, and Yuan-soon Ho. 2019. "Triple-Negative Breast Cancer : Current Understanding and Future Therapeutic Breakthrough."
- Lens, S. M. A., Voest, E. E. dan Medema, R. H. (2010) "Shared and separate functions of polo-like kinases and aurora kinases in cancer," *Nature Reviews Cancer*. Nature Publishing Group, 10(12), hal. 825–841. doi: 10.1038/nrc2964.
- Lestari, Beni, Ikuko Nakamae, Noriko Yoneda-kato, Tsumoru Morimoto, Shigehiko Kanaya, Takashi Yokoyama, Masafumi Shionyu, Tsuyoshi Shirai, Edy Meiyanto, and Jun-ya Kato. 2019. "Inhibits ROS Metabolic Enzymes and Suppresses Tumor Cell Growth by Inducing M Phase ( Prometaphase ) Arrest and Cell Senescence." *Scientific Reports* 1: 1–12.
- Mak, Kit-kay, Joe-jen Tan, Puvaneswari MVarappan, and Madhu Katyayani Balijepalli. 2018. "Galangin ' s Potential as a Functional Food Ingredient." *Journal of Functional Foods* 46 (April): 490–503.
- Masawang, K. *et al.* (2014) "Evaluation of 2',4'-dihydroxy-3,4,5-trimethoxychalcone as antimitotic agent that induces mitotic catastrophe in MCF-7 breast cancer cells," *Toxicology Letters*. Elsevier Ireland Ltd, 229(2), hal. 393–401. doi: 10.1016/j.toxlet.2014.06.016.
- Mc Gee, M. M. (2015) "Targeting the Mitotic Catastrophe Signaling Pathway in Cancer," *Mediators of Inflammation*. Hindawi Publishing Corporation, 2015(September). doi: 10.1155/2015/146282.
- Meiyanto, Edy, Herwandhani Putri, Yonika Arum Larasati, Rohmad Yudi Utomo, and Riris Istighfari Jenie. 2019. "Anti-Proliferative and Anti-Metastatic Potential of Curcumin Analogue , Pentagamavunon-1 ( PGV-1 ), Toward Highly Metastatic Breast Cancer Cells in Correlation with ROS Generation." *Tabriz University of Medical Sciences* 7 (3): 113–17.
- Moiseeva O, Mallette FA, Mukhopadhyay UK, Moores A, Ferbeyre G. DNA damage signaling and p53-dependent senescence after prolonged beta-interferon stimulation. *Mol Biol Cell*. 2006; 17:1583–92.
- Murphy, M.P., 2009. How mitochondria produce reactive oxygen species. *Biochem. J*. 417, 1–13.
- Murray, T. J., Yang, X. dan Sherr, D. H. (2006) "Growth of a human mammary tumor cell line is blocked by galangin, a naturally occurring bioflavonoid, and

is accompanied by down-regulation of cyclins D3, E, and A,” *Breast Cancer Research*, 8(2), hal. 2–13. doi: 10.1186/bcr1391.

Mustacchi, Giorgio and Michelino De Laurentiis. 2015. “The Role of Taxanes in Triple-Negative Breast Cancer : Literature Review,” 4303–18.

Ogryzko, V. V., Hirai, T. H., Russanova, V. R., Barbie, D. A. & Howard, B. H. 1996. Human fibroblast commitment to a senescence-like state in response to histone deacetylase inhibitors is cell cycle dependent. *Mol. Cell. Biol.* **16**, 5210–5218 .

Otto, T. dan Sicinski, P. (2017) “Cell cycle proteins as promising targets in cancer therapy,” *Nature Reviews Cancer*. Nature Publishing Group, 17(2), hal. 93–115. doi: 10.1038/nrc.2016.138.

Provan KG, Leischow SJ, Keagy J, Nodora J. 2010. Research collaboration in the discovery, development, and delivery networks of a statewide cancer coalition. *Eval Program Plann.* ;33(4):349–355.

Ren, Kewei, Wenzhe Zhang, Gang Wu, Jianzhuang Ren, Huibin Lu, Zongming Li, and Xinwei Han. 2016. “ScienceDirect Synergistic Anti-Cancer Effects of Galangin and Berberine through Apoptosis Induction and Proliferation Inhibition in Oesophageal Carcinoma Cells.” *Biomedicine et Pharmacotherapy*.

Saelens X, Festjens N, Vande Walle L, van Gurp M, van Loo G, Vandenabeele P. Toxic proteins released from mitochondria in cell death. *Oncogene* 2004;23:2861–74. [PubMed: 15077149]

Schatten, H. (2013) “Mitosis,” *Brenner’s Encyclopedia of Genetics: Second Edition*, 3, hal. 448–451. doi: 10.1016/B978-0-12-374984-0.00962-1.

Septisetyani, Endah Puji, Muthi Ikawati, and Barinta Widaryanti. 2008. “Apoptosis Mediated Cytotoxicity of Curcumin Analogues PGV-0 and PGV-1 in WiDr Cell Line” 2 (Cox 2): 48–56.

Serrano M, Lin AW, McCurrach ME, Beach D, Lowe SW. Oncogenic *ras* provokes premature cell senescence associated with accumulation of p53 and p16INK4a. *Cell*. 1997; 88:593–602. Shah, M.A. dan Schwartz, G.K., 2001. Cell Cycle-mediated Drug Resistance An Emerging Concept in Cancer Therapy. *Clin Cancer Research*, **7**: 2168–2181.

Shay, J. W. & Roninson, I. B. 2004. Hallmarks of senescence in carcinogenesis and cancer therapy. *Oncogene* **23**, 2919–2933

Sherr, C. J. & McCormick, F. The RB and p53 pathways in cancer. *Cancer Cell* **2**, 103–112 (2002).

- Song, Wei, Chong-yang Yan, Qian-qian Zhou, and Lin-lin Zhen. 2017. "ScienceDirect Galangin Potentiates Human Breast Cancer to Apoptosis Induced by TRAIL through Activating AMPK." *Biomedicine et Pharmacotherapy* 89: 845–56.
- So-Yeon Park, Jang-Hyun Choi and Jeong-Seok Nam. 2019. "Targeting Cancer Stem Cells." *Ochsner Journal* 13 (2): 276–77.
- Stein, G. H., Drullinger, L. F., Soulard, A. & Dulic, V. 1999. Differential roles for cyclin-dependent kinase inhibitors p21 and p16 in the mechanisms of senescence and differentiation in human fibroblasts. *Mol. Cell. Biol.* **19**, 2109–2117 .
- Trachootham, D., Lu, W., Ogasawara, M.A., Valle, N.R.-D., Huang, P., 2008. Redox Regulation of Cell Survival. *Antioxid. Redox Signal.* **10**, 1343– 1374.
- Vakifahmetoglu-Norberg, H. dan Zhivotovsky, B. (2010) "The unpredictable caspase-2: what can it do?," *Trends in Cell Biology*. Elsevier Ltd, 20(3), hal. 150–159. doi: 10.1016/j.tcb.2009.12.006.
- Verma, Ramesh K, Garima Mishra, Pradeep Singh, K K Jha, and R L Khosa. 2011. "Alpinia Galanga – An Important Medicinal Plant : A Review" 2 (1): 142–54.
- Vitale, I. *et al.* (2011) "Mitotic catastrophe: a mechanism for avoiding genomic instability.," *Nature reviews. Molecular cell biology*. Nature Publishing Group, 12(6), hal. 385–392. doi: 10.1038/nrm3115.
- William D. Foulkes, M.B., B.S., Ph.D., Ian E. Smith, M.D., and Jorge S. Reis-Filho, M.D., Ph.D., . 2010. "Triple-Negative Breast Cancer."
- Xiao, M., Yang, H., Xu, W., Ma, S., Lin, H., Zhu, H., Liu, L., Liu, Y., Yang, C., Xu, Y., Zhao, S., Ye, D., Xiong, Y., Guan, K.-L., 2012. Inhibition of  $\alpha$ -KG-dependent histone and DNA demethylases by fumarate and succinate that are accumulated in mutations of FH and SDH tumor suppressors. *Genes Dev.* **26**, 1326–1338