DAFTAR PUSTAKA

Ahmad, S., Gupta, S., Kumar, R., Varshney, G. C., & Raghava, G. P. S., 2014, Herceptin resistance database for understanding mechanism of resistance in breast cancer patients. *Scientific Reports*.

Anderson, N. O., Ascher, P. D., & Widmer, R. E., 1988, Thin-layer chromatographic analysis of flower color phenotypes in Dendranthema grandiflorum Ramatuelle inbreds and clonal cultivars. *Euphytica*, *37*(3), 229–239.

Anonim, 2008, *Farmakope Herbal Indonesia Edisi I*, Departemen Kesehatan, Republik Indonesia.

Awang, K., Nurul Azmi, M. N., In Lian Aun, L. I. L., Nazif Aziz, A. N., Ibrahim, H., Hasima Nagoor, N., 2010, The Apoptotic Effect of 1'S-1'-Acetoxychavicol Acetate from Alpinia Conchigera on Human Cancer Cells. *Molecules*, *15*(**11**), 8048–8059.

Bandyopadhyay, A., Wang, L., Agyin, J., Tang, Y., Lin, S., Yeh, I.-T., De K., Sun, L.-Z., 2010, Doxorubicin in Combination with a Small TGFβ Inhibitor: A Potential Novel Therapy for Metastatic Breast Cancer in Mouse Models. *PLoS ONE*, *5*(4), e10365.

Blanco, M. J., Learte, A. I. R., Marchena, M. A., Muñoz-Sáez, E., Cid, M. A., Rodríguez-Martín, I., & Sánchez-Camacho, C., 2018, Tracing Gene Expression Through Detection of β-galactosidase Activity in Whole Mouse Embryos. *Journal of Visualized Experiments*, (136), 1–10.

Boyle, P., & Ferlay, J., 2015, Original article Cancer incidence and mortality in Europe , 2004, (December 2004).

Bray, F., Ferlay, J., Soerjomataram, I., Siegel, R. L., Torre, L. A., & Jemal, A., 2018, Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, *68*(**6**), 394–424.

Breslin, S., & O'Driscoll, L., 2016, The relevance of using 3D cell cultures, in addition to 2D monolayer cultures, when evaluating breast cancer drug sensitivity and resistance. *Oncotarget*, *7*(**29**).

Bubnov, R., Polivka, J., Zubor, P., Konieczka, K., & Golubnitschaja, O., 2017, "Pre-metastatic niches" in breast cancer: are they created by or prior to the tumour onset? "Flammer Syndrome" relevance to address the question. *EPMA Journal*, *8*(**2**), 141–157.

Campisi, J., & D'Adda Di Fagagna, F., 2007, Cellular senescence: When bad things happen to good cells. *Nature Reviews Molecular Cell Biology*, *8*(**9**), 729–740.

Cao, J., Wang, H., Chen, F., Fang, J., Xu, A., Xi, W., Zhang, S., Wu, G., Wang, Z., 2016, Galangin inhibits cell invasion by suppressing the epithelial-mesenchymal transition and inducing apoptosis in renal cell carcinoma, *Molecular Medicine Reports*, *13*(**5**), 4238–4244.

Chandler, H., & Peters, G., 2013, Stressing the cell cycle in senescence and aging, *Current Opinion in Cell Biology*, *25*(**6**), 765–771.

Childs, B. G., Durik, M., Baker, D. J., & Van Deursen, J. M., 2015, Cellular senescence in aging and age-related disease: From mechanisms to therapy, *Nature Medicine*, *21*(**12**), 1424–1435.

Childs, B. G., Gluscevic, M., Baker, D. J., Laberge, R. M., Marquess, D., Dananberg, J., & Van Deursen, J. M., 2017, Senescent cells: An emerging target for diseases of ageing, *Nature Reviews Drug Discovery*, *16*(**10**), 718–735.

Chouni, A., & Paul, S., 2017, A Review on Phytochemical and Pharmacological Potential of Alpinia galanga, *Pharmaceutical Biology*, *55*(**1**), 1368–1374.

Collado, M., Blasco, M. A., & Serrano, M., 2007, Cellular Senescence in Cancer and Aging, *Cell*, *130*(**2**), 223–233.

D'Arca, D., Caporali, A., Mitic, T., Davalli, P., & Lauriola, A., 2016, ROS, Cell Senescence, and Novel Molecular Mechanisms in Aging and Age-Related Diseases, *Oxidative Medicine and Cellular Longevity*, *2016*, 1–18.

Dai, X., Cheng, H., Bai, Z., & Li, J., 2017, Breast Cancer Cell Line Classification and Its Relevance with Breast Tumor Subtyping, *Journal of Cancer*, *8*(**16**), 3131–3141.

Debacq-Chainiaux, F., Erusalimsky, J. D., Campisi, J., & Toussaint, O., 2009, Protocols to detect senescence-associated beta-galactosidase (SA-βgal) activity, a biomarker of senescent cells in culture and in vivo, *Nature Protocols*, *4*(**12**), 1798–1806.

Delle Monache, G., Botta, B., Vinciguerra, V., De Mello, J. F., & De Andrade Chiappeta, A., 1996, Antimicrobial isoflavanones from Desmodium Canum, *Phytochemistry*, *41*(**2**), 537–544.

Dimri, G. P., Leet, X., Basile, G., Acosta, M., Scortt, G., Roskelley, C., Medrano, E.E., Linskens, M., Rubeli, I., Smith, O.P., Peacocke, M., Campisi, J., 1995, A biomarker that identifies senescent human cells in culture and in aging skin in vivo (replicative senescence/tumor suppression/18-galactosidase) Communicated by Arthur, *Cell Bioiogy*, *92*, 9363–9367.

Finkel, T., & Holbrook, N. J., 2000, Oxidative Stress, Aging, *408*, 239–247.

Franklin, M. C., Carey, K. D., Vajdos, F. F., Leahy, D. J., Vos, A. M. De, & Sliwkowski, M. X., 2004, Insights into ErbB signaling from the structure of the ErbB2-pertuzumab complex, *5*, 317–328.

Gazdar, A. F., Kurvari, V., Virmani, A., Gollahon, L., Sakaguchi, M., Westerfield, M., Kodagoda, D., Stasny, V., Cunningham, H.T., Wistuba, I.I., Tomlinson, G., Tonk, V., Ashfaq, R., Leitch, A.M., Minna, J.D., Shay, J. W., 1998, Characterization of paired tumor and non-tumor cell lines established from patients with breast cancer, *International Journal of Cancer*, *78*(**6**), 766–774.

Ghil, S., 2013, Antiproliferative activity of Alpinia officinarum extract in the human breast cancer cell line MCF-7, *Molecular Medicine Reports*, *7*(**4**), 1288–1292.

Graus-porta, D., Beerli, R. R., Daly, J. M., & Hynes, N. E., 1997, ErbB-2 , the preferred heterodimerization partner of all ErbB receptors , is a mediator of lateral signaling, *16*(**7**), 1647–1655.

Hadjzadeh, M.-A.-R., Ghanbari, H., Keshavarzi, Z., & Tavakol-Afshari, J., 2014, The Effects of Aqueous Extract of Alpinia Galangal on Gastric Cancer Cells (AGS) and L929 Cells in Vitro, *Iranian Journal of Cancer Prevention*, *7*(**3**), 142–146.

Haggar, F. A., Boushey, R. P., & Ph, D., 2009, Colorectal Cancer Epidemiology :

Incidence , Mortality , Survival , and Risk Factors, *6*(212), 191–197.

Hanahan, D., & Weinberg, R. A., 2011, Hallmarks of Cancer: The Next Generation, *Cell*, *144*(**5**), 646–674.

Haraguchi, H. ., Kuwata, Y. ., Inada, K. ., Shingu, K. ., Miyahara, K. ., Nagao, M. ., & Yagi, A., 1996, Antifungal activity from Alpinia galanga and the competition for incorporation of unsaturated fatty acids in cell growth, *Planta Medica*, *62*(**4**), 308–313.

Hardin, C., Pommier, R., Calhoun, K., Muller, P., Jackson, T., & Pommier, S., 2007, A New Hormonal Therapy for Estrogen Receptor–Negative Breast Cancer, *World Journal of Surgery*, *31*(**5**), 1041–1046.

Herbig, U., Jobling, W. A., Chen, B. P. ., Chen, D. J., & Sedivy, J. M., 2004, Telomere Shortening Triggers Senescence of Human Cells through a Pathway Involving ATM, p53, and p21CIP1, but Not p16INK4a, *Molecular Cell*, *14*(**4**), 501–513.

Höhn, A., Weber, D., Jung, T., Ott, C., Hugo, M., Kochlik, B., Kehm, R., König, J., Grune, T., Castro, J. P., 2017, Happily (n)ever after: Aging in the context of oxidative stress, proteostasis loss and cellular senescence, *Redox Biology*, *11*, 482–501.

Hudis, C. A., 2007, Trastuzumab — Mechanism of Action and Use in Clinical Practice, *New England Journal of Medicine*, *357*(**1**), 39–51.

In, L. LA, Arshad, N. M., Ibrahim, H., Azmi, M. N., Awang, K., & Nagoor, N. H., 2012, 1'-Acetoxychavicol acetate inhibits growth of human oral carcinoma xenograft in mice and potentiates cisplatin effect via proinflammatory microenvironment alterations, *BMC Complementary and Alternative Medicine*, *12*(**1**), 1144.

Jackson, J. G., & Pereira-Smith, O. M., 2006, Primary and compensatory roles for RB family members at cell cycle gene promoters that are deacetylated and downregulated in doxorubicin-induced senescence of breast cancer cells, *Molecular and Cellular Biology*, *26*(**7**), 2501–2510.

Kim, D. A., Jeon, Y. K., & Nam, M. J., 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), 684–688.

Korkaya, H., Kim, G.-I., Davis, A., Malik, F., Henry, N. L., Ithimakin, S., Qurashi, A.A., Tawakkol, N., D'Angelo, R., Paulson, A.K., Chung, S., Luther, T., Paholak, H.J., Liu, S., Hassan, K.A., Zen, Q., Clouthier, S.G., Wicha, M. S., 2012, Article Activation of an IL6 Inflammatory Loop Mediates Trastuzumab Resistance in HER2+ Breast Cancer by Expanding the Cancer Stem Cell Population.

Kovalchuk, O., Filkowski, J., Meservy, J., Ilnytskyy, Y., Tryndyak, V. P., Chekhun, V. F., & Pogribny, I. P., 2008, Involvement of microRNA-451 in resistance of the MCF-7 breast cancer cells to chemotherapeutic drug doxorubicin, *Molecular Cancer Therapeutics*, *7*(**7**), 2152–2159.

Krtolica, A., Parrinello, S., Lockett, S., Desprez, P.-Y., & Campisi, J., 2001, Senescent fibroblasts promote epithelial cell growth and tumorigenesis: A link between cancer and aging, *Proceedings of the National Academy of*

Sciences, *98*(**21**), 12072–12077.

Lakshmi Praveen, P., & Ojha, D. P., 2012, Calculation of spectral shifts in UV–visible region and photoresponsive behaviour of fluorinated liquid crystals: Effect of solvent and substituent, *Materials Chemistry and Physics*, *135*(2–3), 628–634.

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

Laskin, J. J., & Sandler, A. B., 2004, Epidermal growth factor receptor: a promising target in solid tumours, *Cancer Treatment Reviews*, *30*(**1**), 1–17.

Lee, C. C., & Houghton, P., 2005a, Cytotoxicity of plants from Malaysia and Thailand used traditionally to treat cancer, *100*, 237–243.

Lee, C. C., & Houghton, P., 2005b, Cytotoxicity of plants from Malaysia and Thailand used traditionally to treat cancer, *Journal of Ethnopharmacology*, *100*(**3**), 237–243.

Liu, L., Greger, J., Shi, H., Liu, Y., Greshock, J., Annan, R., Halsey, W., Sathe, G.M., Martin, A.M., Gilmer, T. M., 2009, Novel mechanism of lapatinib resistance in HER2-positive breast tumor cells: Activation of AXL, *Cancer Research*.

Maciejewicz, W., 2001, Isolation of flavonoid aglycones from propolis by a column chromatography method and their identification by GC-MC and TLC methods. *Journal of Liquid Chromatography and Related Technologies*, *24*(**8**), 1171–1179.

Malhotra, G. K., Zhao, X., Band, H., & Band, V., 2010, Histological , molecular and functional subtypes of breast cancers, (December 2014).

Matsuda, H., Pongpiriyadacha, Y., Morikawa, T., Ochi, M., & Yoshikawa, M., 2003, Gastroprotective effects of phenylpropanoids from the rhizomes of Alpinia galanga in rats: Structural requirements and mode of action, *European Journal of Pharmacology*, *471*(**1**), 59–67.

Medić-Šarić, M., Jasprica, I., Mornar, A., Smolčić-Bubalo, A., & Golja, P., 2007, Quantitative analysis of flavonoids and phenolic acids in propolis by two-dimensional thin layer chromatography, *Journal of Planar Chromatography – Modern TLC*, *17*(100), 459–463.

Medic-Saric, M., Jasprica, I., Smolcic-Bubalo, A., & Mornar, A., 2004, Optimization of Chromatographic Conditions in Thin Layer Chromatography of Flavonoids and Phenolic Acids, *Croatica Chemica Acta*, *77*(1–2), 361–366.

Muangnoi, P., Lu, M., Lee, J., Thepouyporn, A., Mirzayans, R., Le, X., Weinfeld, M., Changbumrung, S., 2007, Cytotoxicity, Apoptosis and DNA Damage Induced by *Alpinia galanga* Rhizome Extract, *Planta Medica*, *73*(**8**), 748–754.

Nahta, R., 2012, Molecular Mechanisms of Trastuzumab-Based Treatment in HER2-Overexpressing Breast Cancer, *ISRN Oncology*, *2012*, 1–16.

Naithani, R., Huma, L., Moriarty, R., McCormick, D., & Mehta, R., 2008, Comprehensive Review of Cancer Chemopreventive Agents Evaluated in Experimental Carcinogenesis Models and Clinical Trials. *Current Medicinal*

Chemistry, *15*(**11**), 1044–1071.

Noren Hooten, N., & Evans, M. K., 2017, Techniques to Induce and Quantify Cellular Senescence, *Journal of Visualized Experiments*, 123, 1–14.

Outhoff, K., 2011, The art of prescribing trastuzumab for HER2-positive breast cancer, *Southern African Journal of Gynaecological Oncology*, *3*(**1**), 16–26.

Piegari, E., Angelis, A., Cappetta, D., Russo, R., Esposito, G., Costantino, S., Grainani, G., Frati, C., Prezioso, L., Berrino L., Urbanek K., Quaini, F., Rossi, F., 2013, Doxorubicin induces senescence and impairs function of human cardiac progenitor cells, *Basic Research in Cardiology*, *108*(**2**), 334.

Prayong, P., Barusrux, S., & Weerapreeyakul, N., 2008, Cytotoxic activity screening of some indigenous Thai plants, *Fitoterapia*, *79*(7–8), 598–601.

Rajabalian, S., Foroumadi, A., Shafiee, A., & Emami, S., 2007, Functionalized N-(2-oxyiminoethyl) piperazinyl quinolones as new cytotoxic agents, *J Pharm Pharmaceut Sci (www. cspsCanada.org)* (Vol. 10).

Rajendran, B. K., & Deng, C.-X., 2017, Characterization of potential driver mutations involved in human breast cancer by computational approaches, *Oncotarget*, *8*(30), 50252–50272.

Ravindran, P. N., Pillai, G. S., Balachandran, I., & Divakaran, M., 2012, Galangal. *Handbook of Herbs and Spices*, 303–318.

Ross, J. S., Slodkowska, E. A., Symmans, W. F., Pusztai, L., Ravdin, P. M., & Hortobagyi, G. N., 2009, The HER-2 receptor and breast cancer: ten years of targeted anti-HER-2 therapy and personalized medicine, *The Oncologist*, *14*(**4**), 320–368.

Ruddon, R. W., 2007, Cancer Biology - Raymond W. Ruddon M.D. - Google Books. Retrieved December 1, 2018, from https://books.google.co.id/books?hl=en&lr=&id=d2_RCwAAQBAJ&oi=fnd&pg=PR9&dq=Ruddon,+R.W.,+2007,+Cancer+Biology,+4th+Ed.+Oxford+University+Press+Inc.:+New+York.&ots=85BZZ-8H8F&sig=ZA-eg5cLgNXKcSaprbfTcOg1nAY&redir_esc=y#v=onepage&q&f=false

Rutala, W. A., & Weber, D. J., 2008, *Practical Healthcare Epidemiology: Third Edition - Google Books*. (P. N. M. Ebbing Lautenbach, Keith F. Woeltie, Ed.) (Third Edition). University of Chicago Press. Retrieved from https://books.google.co.id/books?hl=en&lr=&id=EEvBnsYab3sC&oi=fnd&pg=PA61&dq=Rutala,+W.A.,+2008.+Guideline+for+Disinfection+and+Sterilization+in+Healthcare+Facilities+161.&ots=omueMNDJM1&sig=veGJHpOu8wxIJiYi7zzBeZ-ocBM&redir_esc=y#v=onepage&q&f=false

Samarghandian, S., Hadjzadeh, M.-A.-R., Afshari, J. T., & Hosseini, M., 2014, Antiproliferative activity and induction of apoptotic by ethanolic extract of Alpinia galanga rhizhome in human breast carcinoma cell line, *BMC Complementary and Alternative Medicine*, *14*(**1**), 192.

Septianingrum, Y., & Afiyah, R. K., 2017, Penyuluhan Deteksi Dini Kanker Payudara Di Pondok Pesantren Qomaruddin Bungah Gresik. *Community Development Journal*, *1*(**2**), 67–71.

Suhendi, A., Wikantyasning, E. R., Setyadi, G., Wahyuni, A. S., & Da'i, M., 2018, Acetoxy Chavicol Acetate (ACA) Concentration and Cytotoxic Activity of Alpinia galanga Extract on HeLa, MCF7 and T47D Cancer Cell Lines,

Indonesian Journal of Cancer Chemoprevention, *8*(**2**), 81.

Suja, S., & Chinnaswamy, P., 2008, Inhibition of in vitro cytotoxic effect evoked by Alpinia galanga and Alpinia officinarum on PC - 3 cell line, *Ancient Science of Life*, *27*(**4**), 33–40.

Tai, W., Mahato, R., & Cheng, K., 2010, The role of HER2 in cancer therapy and targeted drug delivery, *Journal of Controlled Release*, *146*(**3**), 264–275.

Tsao, A. S., Kim, E. S., & Hong, W. K., 2004, Chemoprevention of Cancer. *CA: A Cancer Journal for Clinicians*, *54*(**3**), 150–180.

Vejpongsa, P., & Yeh, E. T. H., 2014, Prevention of Anthracycline-Induced Cardiotoxicity, *Journal of the American College of Cardiology*, *64*(**9**), 938–945.

Vigneron, A., & Vousden, K. H., 2010, p53, ROS and senescence in the control of aging, *Aging*, *2*(**8**), 471–474.

Willems, A., Gauger, K., Henrichs, C., & Harbeck, N., 2005, Antibody therapy for breast cancer, *Anticancer Research*, *25*(3A), 1483–1489.

Zacarias-Fluck, M. F., Morancho, B., Vicario, R., Luque Garcia, A., Escorihuela, M., Villanueva, J., Rubio, I.T., Arribas, J., 2015, Effect of Cellular Senescence on the Growth of HER2-Positive Breast Cancers, *JNCI Journal of the National Cancer Institute*, *107*(**5**).

Zeng, Q., Lu, C.-L., Zhang, X., & Jiang, J.-G., 2015, Isolation and identification of ingredients inducing cancer cell death from the seeds of Alpinia galanga, a Chinese spice, *Food & Function*, *6*(**2**), 431–443.

Zhou, Y.-Q., Liu, H., He, M.-X., Wang, R., Zeng, Q.-Q., Wang, Y., Ye, W.C., Zhang, Q.-W., 2018, A Review of the Botany, Phytochemical, and Pharmacological Properties of Galangal. *Natural and Artificial Flavoring Agents and Food Dyes*, 351–396.

Zhu, X.-L., Yang, M.-H., Luo, J.-G., Huang, X.-F., & Kong, L.-Y., 2009, A New Phenylpropanoid from Alpinia galanga, *Chinese Journal of Natural Medicines*, *7*(**1**), 19–20.