

DAFTAR PUSTAKA

- Abcam, 2018. 'Cell cycle analysis with flow cytometry & propidium iodide | Abcam', . URL: <http://www.abcam.com/protocols/flow-cytometric-analysis-of-cell-cycle-with-propidium-iodide-dna-staining> (diakses tanggal 29/1/2018).
- AbuHammad, S. dan Zihlif, M., 2013. Gene expression alterations in doxorubicin resistant MCF7 breast cancer cell line. *Genomics*, **101**: 213–220.
- Adan, A., Alizada, G., Kiraz, Y., Baran, Y., dan Nalbant, A., 2017. Flow cytometry: basic principles and applications. *Critical Reviews in Biotechnology*, **37**: 163–176.
- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., dan Walter, P., 2002. Programmed Cell Death (Apoptosis).
- Amundson, S.A., Myers, T.G., Scudiero, D., Kitada, S., Reed, J.C., dan Fornace, A.J., 2000. An informatics approach identifying markers of chemosensitivity in human cancer cell lines. *Cancer Research*, **60**: 6101–6110.
- Anonim, 2017. 'NCI Dictionary of Cancer Terms', , *nciAppModulePage, National Cancer Institute*. URL: <https://www.cancer.gov/publications/dictionaries/cancer-terms> (diakses tanggal 8/2/2017).
- Aryantini, D., 2016. 'Pengaruh Variasi Kondisi Fermentasi Terhadap Produksi Biomassa, Produksi Metabolit Total yang Terlarut dalam Etil Asetat dan Kadar Senyawa Bioaktif Fungi Endofit *Aspergillus fumigatus* Strain KARSV04', . Universitas Gadjah Mada, Yogyakarta.
- Astuti, P., Erden, W., Wahyuono, S., dan Hertiani, T., 2016. Pyrophen Produced by Endophytic Fungi *Aspergillus* sp Isolated from *Piper crocatum* Ruiz & Pav Exhibits Cytotoxic Activity and Induces S Phase Arrest in T47D Breast Cancer Cells. *Asian Pacific Journal of Cancer Prevention*, **17**: 615–618.
- Astuti, P., Wahyuono, dan Nababan, O.A., 2014. Antimicrobial and cytotoxic activities of endophytic fungi isolated from *Piper crocatum* Ruiz & Pav. *Asian Pacific Journal of Tropical Biomedicine*, **4**, **Supplement 2**: S592–S596.
- Barnes, C.L., Steiner, J.R., Torres, E., Pacheco, R., dan Marquez, H., 1990. Structure and absolute configuration of pyrophen, a novel pyrone derivative of L-phenylalanine from *Aspergillus niger*. *International Journal of Peptide and Protein Research*, **36**: 292–296.
- Barzegar, E., Fouladdel, S., Movahhed, T.K., Atashpour, S., Ghahremani, M.H., Ostad, S.N., dkk., 2015. Effects of berberine on proliferation, cell cycle distribution and apoptosis of human breast cancer T47D and MCF7 cell lines. *Iranian Journal of Basic Medical Sciences*, **18**: 334–342.
- Bonvini, P., Zorzi, E., Mussolin, L., Monaco, G., Pigazzi, M., Basso, G., dkk., 2009. The effect of the cyclin-dependent kinase inhibitor flavopiridol on anaplastic large cell lymphoma cells and relationship with NPM-ALK kinase expression and activity. *Haematologica*, **94**: 944–955.

- Burdall, S.E., Hanby, A.M., Lansdown, M.R., dan Speirs, V., 2003. Breast cancer cell lines: friend or foe? *Breast Cancer Research*, **5**: 89–95.
- CCRC, 2014. PROTOKOL | CCRC <http://ccrc.farmasi.ugm.ac.id/wp-content/uploads/03.014.02-flowcytometry.pdf> (didownload tanggal 12/4/2017).
- Clark, J., 2007. 'Thin Layer Chromatography', . URL: <http://www.chemguide.co.uk/analysis/chromatography/thinlayer.html> (diakses tanggal 16/2/2017).
- Darzynkiewicz Zbigniew, Juan Gloria, Li Xun, Gorczyca Wojciech, Murakami Tomoyuki, dan Traganos Frank, 1997. Cytometry in cell necrobiology: Analysis of apoptosis and accidental cell death (necrosis). *Cytometry*, **27**: 1–20.
- Eden, W., 2014. 'Penelusuran Senyawa Antikanker Ekstrak Etil Asetat Kultur Fungi Endofit Kode BS1 dari Batang Sirih Merah (*Piper crocatum* Ruiz. & Pav.) Melalui Modulasi Siklus Sel T47D.', . Universitas Gadjah Mada, Yogyakarta.
- Elmore, S., 2007. Apoptosis: A Review of Programmed Cell Death. *Toxicologic pathology*, **35**: 495–516.
- Faddin, J.F.M., 1985. *Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria*. Williams & Wilkins.
- Gabrielli, B., Brooks, K., dan Pavey, S., 2012. Defective Cell Cycle Checkpoints as Targets for Anti-Cancer Therapies. *Frontiers in Pharmacology*, **3**: .
- Gibbons, S., 2006. An Introduction to Planar Chromatography, dalam: *Natural Products Isolation*. Humana Press, Totowa, New Jersey, hal. 77–116.
- Gumelar, L., 2016. 'Kanker payudara tertinggi di Indonesia - ANTARA News', . URL: <http://www.antaraneews.com/berita/583060/kanker-payudara-tertinggi-di-indonesia> (diakses tanggal 24/1/2017).
- Guo, B., Wang, Y., Sun, X., dan Tang, K., 2008. Bioactive natural products from endophytes: a review. *Prikladnaia Biokhimiia I Mikrobiologiia*, **44**: 153–158.
- Hanahan, D. dan Weinberg, R.A., 2011. Hallmarks of cancer: the next generation. *Cell*, **144**: 646–674.
- Jänicke, R.U., 2009. MCF-7 breast carcinoma cells do not express caspase-3. *Breast Cancer Research and Treatment*, **117**: 219–221.
- Januarti, I.B., 2016. 'Uji Potensi Antikanker Isolat dari Media Kultur Fungi Endofit *Aspergillus fumigatus* strain KARVSV04 Terhadap Sel Kanker Payudara', , *Thesis*, . Universitas Gadjah Mada, Yogyakarta.
- Kawabe, T., 2004. G2 checkpoint abrogators as anticancer drugs. *Molecular Cancer Therapeutics*, **3**: 513–519.
- Lee, A.V., Oesterreich, S., dan Davidson, N.E., 2015. MCF-7 Cells—Changing the Course of Breast Cancer Research and Care for 45 Years. *JNCI: Journal of the National Cancer Institute*, **107**: .
- Lee, S.J. dan Langhans, S.A., 2012. Anaphase-promoting complex/cyclosome protein Cdc27 is a target for curcumin-induced cell cycle arrest and apoptosis. *BMC cancer*, **12**: 44.

- Levenson, A.S. dan Jordan, V.C., 1997. MCF-7: The First Hormone-responsive Breast Cancer Cell Line. *Cancer Research*, **57**: 3071–3078.
- Li, H., 2006. 'Chemical investigation of natural product from Australian sponge-derived fungi', . Griffith University, Queensland, Australia.
- Ling, Y.H., el-Naggar, A.K., Priebe, W., dan Perez-Soler, R., 1996. Cell cycle-dependent cytotoxicity, G2/M phase arrest, and disruption of p34cdc2/cyclin B1 activity induced by doxorubicin in synchronized P388 cells. *Molecular Pharmacology*, **49**: 832–841.
- Lumachi, F., Santeufemia, D.A., dan Basso, S.M., 2015. Current medical treatment of estrogen receptor-positive breast cancer., Current medical treatment of estrogen receptor-positive breast cancer. *World journal of biological chemistry, World Journal of Biological Chemistry*, **6**, **6**: 231, 231–239.
- Malumbres, M., 2014. Cyclin-dependent kinases. *Genome Biology*, **15**: 122.
- Malumbres, M. dan Barbacid, M., 2005. Mammalian cyclin-dependent kinases. *Trends in Biochemical Sciences*, **30**: 630–641.
- Malumbres, M. dan Barbacid, M., 2009. Cell cycle, CDKs and cancer: a changing paradigm. *Nature Reviews. Cancer*, **9**: 153–166.
- Martz, E., 2003. 'What Is Flow Cytometry?', . URL: <https://www.bio.umass.edu/micro/immunology/facs542/facswhat.htm> (diakses tanggal 18/1/2018).
- Meiyanto, E., 2012. 'Universitas Gadjah Mada: Prof. Edy: Ko-Kemoterapi Tingkatkan Kemanjuran Pada Kemoterapi Kanker', . URL: <https://ugm.ac.id/id/berita/4116-prof.edy:.ko-kemoterapi.tingkatkan.kemanjuran.pada.kemoterapi.kanker> (diakses tanggal 21/1/2017).
- Meiyanto, E., Hermawan, A., Junedi, S., Fitriyani, A., dan Susidarti, R., 2011. Nobiletin Increased Cytotoxic Activity Of Doxorubicin On MCF-7 Cells But Not On T47d Cells. *International Journal of Phytomedicine* **3**, 129–137.
- Muller, E., Rosemarie, B., Domien, S., dan Pfennig, A., 2015. Liquid–Liquid Extraction.
- Nair, D.N. dan Padmavathy, S., 2014. Impact of Endophytic Microorganisms on Plants, Environment and Humans. *The Scientific World Journal*, **2014**: e250693.
- Neve, R.M., Chin, K., Fridlyand, J., Yeh, J., Baehner, F.L., Fevr, T., dkk., 2006. A collection of breast cancer cell lines for the study of functionally distinct cancer subtypes. *Cancer Cell*, **10**: 515–527.
- Novak, B., Sible, J.C., dan Tyson, J.J., 2002. Checkpoints in the Cell Cycle. *Encyclopedia of Life Science*, .
- Nowsheen, S. dan Yang, E.S., 2012. The Intersection Between DNA Damage Response and Cell Death Pathways. *Experimental oncology*, **34**: 243–254.
- Nyiredy, S., 2000. Chromatography: Thin-layer (Planar) | Preparative Thin-Layer (Planar) Chromatography, dalam: Wilson, I.D. (Editor), *Encyclopedia of Separation Science*. Academic Press, Oxford, hal. 888–899.

- Ormerod, M.G., Sun, X.M., Brown, D., Snowden, R.T., dan Cohen, G.M., 1993. Quantification of apoptosis and necrosis by flow cytometry. *Acta Oncologica (Stockholm, Sweden)*, **32**: 417–424.
- Pentimalli, F. dan Giordano, A., 2009. Promises and drawbacks of targeting cell cycle kinases in cancer. *Discovery Medicine*, **8**: 177–180.
- PMC, E., 2012. Comprehensive molecular portraits of human breast tumours., Comprehensive molecular portraits of human breast tumors. *Nature, Nature*, **490**, **490**: 61, 61–70.
- Proskuryakov, S.Y. dan Gabai, V.L., 2010. Mechanisms of tumor cell necrosis. *Current Pharmaceutical Design*, **16**: 56–68.
- Pubchem, 2005. 'doxorubicin | C₂₇H₂₉NO₁₁ - PubChem', . URL: <https://pubchem.ncbi.nlm.nih.gov/compound/doxorubicin> (diakses tanggal 24/3/2017).
- Reber, K.P. dan Burdge, H.E., 2018. Total Synthesis of Pyrophen and Campyrones A–C. *Journal of Natural Products*, **81**: 292–297.
- Riccardi, C. dan Nicoletti, I., 2006. Analysis of apoptosis by propidium iodide staining and flow cytometry. *Nature Protocols*, **1**: 1458–1461.
- Rieger, A.M., Nelson, K.L., Konowalchuk, J.D., dan Barreda, D.R., 2011. Modified Annexin V/Propidium Iodide Apoptosis Assay For Accurate Assessment of Cell Death. *Journal of Visualized Experiments : JoVE*, .
- Roos, W.P. dan Kaina, B., 2006. DNA damage-induced cell death by apoptosis. *Trends in Molecular Medicine*, **12**: 440–450.
- Roos, W.P. dan Kaina, B., 2013. DNA damage-induced cell death: From specific DNA lesions to the DNA damage response and apoptosis. *Cancer Letters*, , Apoptosis Targeting Drugs in Cancer **332**: 237–248.
- Sellers, W.R. dan Fisher, D.E., 1999. Apoptosis and cancer drug targeting. *Journal of Clinical Investigation*, **104**: 1655–1661.
- Shaaban, M., Shaaban, K.A., dan Abdel-Aziz, M.S., 2012. Seven naphtho- γ -pyrones from the marine-derived fungus *Alternaria alternata*: structure elucidation and biological properties. *Organic and Medicinal Chemistry Letters*, **2**: 6.
- Shapiro, G.I. dan Harper, J.W., 1999. Anticancer drug targets: cell cycle and checkpoint control. *Journal of Clinical Investigation*, **104**: 1645–1653.
- Stanbury, P.F. dan Whitaker, A., 1984. *Principles of Fermentation Technology*. Pergamon Press.
- Strobel, G. dan Daisy, B., 2003. Bioprospecting for Microbial Endophytes and Their Natural Products. *Microbiology and Molecular Biology Reviews*, **67**: 491–502.
- Sutter, A.P., Maaser, K., Grabowski, P., Bradacs, G., Vormbrock, K., Höpfner, M., dkk., 2004. Peripheral benzodiazepine receptor ligands induce apoptosis and cell cycle arrest in human hepatocellular carcinoma cells and enhance chemosensitivity to paclitaxel, docetaxel, doxorubicin and the Bcl-2 inhibitor HA14-1. *Journal of Hepatology*, **41**: 799–807.

- Tacar, O., Sriamornsak, P., dan Dass, C.R., 2013. Doxorubicin: an update on anticancer molecular action, toxicity and novel drug delivery systems. *The Journal of Pharmacy and Pharmacology*, **65**: 157–170.
- Tan, R.X. dan Zou, W.X., 2001. Endophytes: a rich source of functional metabolites. *Natural Product Reports*, **18**: 448–459.
- Thorn, C.F., Oshiro, C., Marsh, S., Hernandez-Boussard, T., McLeod, H., Klein, T.E., dkk., 2011. Doxorubicin pathways: pharmacodynamics and adverse effects. *Pharmacogenetics and Genomics*, **21**: 440–446.
- Tudzynski, B., 2014. Nitrogen regulation of fungal secondary metabolism in fungi. *Frontiers in Microbiology*, **5**: .
- Uzma, F., Mohan, C.D., Hashem, A., Konappa, N.M., Rangappa, S., Kamath, P.V., dkk., 2018. Endophytic Fungi—Alternative Sources of Cytotoxic Compounds: A Review. *Frontiers in Pharmacology*, **9**: .
- Varoglu, M. dan Crews, P., 2000. Biosynthetically diverse compounds from a saltwater culture of sponge-derived *Aspergillus niger*. *Journal of Natural Products*, **63**: 41–43.
- Verma, S.P., Goldin, B.R., dan Lin, P.S., 1998. The inhibition of the estrogenic effects of pesticides and environmental chemicals by curcumin and isoflavonoids. *Environmental Health Perspectives*, **106**: 807–812.
- Vermes, I., Haanen, C., Steffens-Nakken, H., dan Reutelingsperger, C., 1995. A novel assay for apoptosis. Flow cytometric detection of phosphatidylserine expression on early apoptotic cells using fluorescein labelled Annexin V. *Journal of Immunological Methods*, **184**: 39–51.
- Vermeulen, K., Berneman, Z.N., dan Van Bockstaele, D.R., 2003. Cell cycle and apoptosis. *Cell Proliferation*, **36**: 165–175.
- WHO, 2015. 'Cancer', . URL: <http://www.who.int/mediacentre/factsheets/fs297/en/> (diakses tanggal 17/1/2017).
- Widlund, H., Bringham and Women Hospital, dan Harvard Medical School, 2012. 'Cell Cycle G2/M DNA Damage Signaling Interactive Pathway | CST', . URL: <https://www.cellsignal.com/contents/science-cst-pathways-cell-cycle/cell-cycle-g2-m-dna-damage-signaling-interactive-pathway/pathways-cc-g2m> (diakses tanggal 6/2/2018).
- Zhang, Y., Li, X.-M., Feng, Y., dan Wang, B.-G., 2010. Phenethyl-alpha-pyrone derivatives and cyclodipeptides from a marine algous endophytic fungus *Aspergillus niger* EN-13. *Natural Product Research*, **24**: 1036–1043.