

DAFTAR PUSTAKA

- Abas, F., Shaari, K., Lajis, N.H., Israf, D.A., and Kalsom, Y.U., 2003, Antioxidative and Radical Scavenging Properties of The Constituents Isolated from *Cosmos caudatus* Kunth., *Nat. Prod. Sciences*, **9**(4), 245-248.
- Abcam, 2007, T47D (Human Ductal Breast Epithelial Tumor Cell Line) Whole Cell Lysate (ab14899) Datasheet, URL: <http://www.abcam.com/index.html?datasheet=14899>, diakses 20 Oktober 2016.
- Adina, A.B., Goenadi, F.A., Handoko, F.F., Nawangsari, Hermawan, A., Jenie, R.I., Meiyanto, E., 2014, Combination of Ethanolic Extract of *Citrus aurantifolia* Peels with Doxorubicin Modulate Cell Cycle and Increase Apoptosis Induction on MCF-7 Cells, *Iranian Journal of Pharmaceutical Research*, **13** (3), 919-926.
- Agoes, G., 2009, *Teknologi Bahan Alam (Serial Farmasi Industri-2)*, Ed. Revisi, Penerbit ITB, Bandung, 18.
- American Cancer Society, 2017, *Cancer Fact and Figures 2017*, Atlanta, American Cancer Society.
- Andarwulan, N., Batari, R., Sandrasari, D.A., Bolling, B., and Wijaya, H., 2010, Flavonoid Content and Antioxidant Activity of Vegetables From Indonesia, *Food Chemistry*, **121**(4), 1231-1235.
- Ashkenazi, A., 2002, Targeting Death and Decoy Receptors of Tumour Necrosis Factor Superfamily, *Nature Reviews*, **2**, 420-430.
- Aziz, M.Y.A., Abu, N., Yeap, S.K., Ho, W.Y., Omar, A.R., Ismail, N.H., Ahmad, S., Pirozyan, M.R., Akhtar, N.M., Alitheen, N.B., 2016, Combinatorial Cytotoxic Effects of Damnacanthal and Doxorubicin against Human Breast Cancer MCF-7 Cells in Vitro *Molecules*, **21**, 1228.
- Backer, C.A. and Bakhulzen van den Brink, R.C., 1965, *Flora of Java*, Vol. II, N. V. P.Noordhoff, Groningen.
- Bouker, K.B., Skaar, T.C., Riggins, R.B., Harburger, D.S., Fernandez, D.R., Zwart, A., Wang, A., and Clarke, R., 2005, Interferon regulatory factor-1 (IRF-1) Exhibits Tumor Suppressor Activities in Breast Cancer Associated with Caspase Activation and Induction of Apoptosis, *Carcinogenesis*, **26**(9), 1527-1535.
- Bunawan, H., Baharum, S.N., Bunawan, S.N., Amin, N.M., and Noor, N.M., 2014, *Cosmos caudatus* Kunth.: A Traditional Medicinal Herb, *Global Journal of Pharmacology*, **8**(3), 420-426.

- Burdall, E.S., Hanby M.A., Landsdown, R.J.M., and Speirs, V., 2003, Breast Cancer Cell Line, *Breast Cancer Res.*, **5**(2), 89-95.
- CCRC, 2009a, *Prosedur Tetap Panen Sel*, Cancer Chemoprevention Research Center Fakultas Farmasi UGM, Yogyakarta, 1-3.
- CCRC, 2009b, *Prosedur Tetap Perhitungan Sel*, Cancer Chemoprevention Center Fakultas Farmasi UGM, Yogyakarta, 1-3.
- Chien, S.Y., Wu, Y.C., Chung, J.G., Yang, J.S., Lu, H.F., Tsou, M.F., Wood, W.G., Kuo, S.J., Chen, D.R., 2009, Quercetin-induced Apoptosis Acts Through Mitochondrial- and Caspase 3-dependent Pathways in Human Breast Cancer MDA-MB-23 Cells, *HET*, **28** (8), 493-503.
- Crawford, K.W., and Bowen, W.D., 2002, Sigma-2 Receptor Agonists Activate a Novel Apoptotic Pathway and Potentiate Antineoplastic Drugs in Breast Tumor Cell Lines, *Cancer Research*, **62**, 313–322.
- Depkes RI, 2000, *Parameter Standar Umum Ekstrak Tumbuhan Obat*, Cetakan Pertama, Departemen Kesehatan Republik Indonesia, Jakarta, 11.
- Dipiro, J.T., Robert, T., Gary, Y., dan Gary, M., 2005, *Pharmacotherapy : A Pathophysiologic Approach*, The Mc Graw Hill Companies, New York.
- El-Sayyad, H.I., Ismail, M.F., Shalaby, F.M., Abou-El-Magd, R.F., Fernando, A., Raj, M.H.G., and Quhtit, A., 2009, Histopat-hological Effects of Cisplatin, Doxorubicin and 5-Flurouracil (5-FU) on the Liver of Male Albino Rats, *International Journal of Biological Science*, **5**, 466-473.
- Evan, G., and Littlewood, T.D., 1998, A Matter of Lifeand Cell Death, *Science*, **281**, 1317-1322.
- Fauzia, A., Wati, U.A.T., Rizkita, C.G., Qori'ah, E.W.N., and Arifin, I., 2016, The Effect of Marigold Leaves and Doxorubicin Toward Cell Cycle and Apoptosis of T47D Cells, *Indonesian Journal of Cancer Chemoprevention*, **7**(3), 79-86.
- Fita E.F., 2016, Efek Sitotoksik kombinasi Ekstrak Metanolik Daun Kenikir dan Doksorubisin Terhadap Sel Kanker Payudara T47D, *Skripsi*, Universitas Wahid Hasyim, Semarang.
- Flusberg, D.A., Numaguchi, Y., and Ingber, D.E., 2001, Cooperative Control of Akt Phosphorylation, bcl-2 Expression, and Apoptosis by Cytoskeletal Microfilaments and Microtubules in Capillary Endothelial Cells, *Mol Biol Cell*, **12**(10), 3087–3094.

- Gewirtz, D.A., 1999, A Critical Evaluation of The Mechanisms of Action Proposed for The Antitumor Effects of The Anthracycline Antibiotics Adriamycin and Daunorubicin. *Biochem Pharmacol*, **57**, 727–741.
- Ghasemzadeh, A., Jaafar, H. . E., and Rahmat, A., 2011, Effects of Solvent Type on Phenolics and Flavonoids Content and Antioxidant Activities in Two Varieties of Young Ginger (*Zingiber officinale* Roscoe) Extracts, *Journal of Medicinal Plants Research*, **5** (7), 1147-1154.
- Gibellini, L., Marcello P., Milena N., Jonas P.M., Sara, D.B., Erika, R., Bertocelli, L., Cooper, E.L., and Cossarizza, A., 2011, Quercetin and Cancer Chemoprevention, *Hindawi Publishing Corporation*, No. 591356.
- Globocan, 2012, Estimated Cancer Incidence, Mortality and Prevalence Worldwide in 2012, URL: http://globocan.iarc.fr/pages/fact_sheets_population.aspx. Diakses 20 Oktober 2016.
- Greenwald, P., 2002, Cancer Chemoprevention, *BMJ*, **324**, 714-18.
- Hanahan, D., and Weinberg, R.A., 2011, Hallmarks of Cancer: The Next Generation, *Cell*, **144**, 646-674.
- Harborne, J.B., 1996, *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan*, Institut Teknologi Bandung (ITB), Bandung, 84-85.
- Herr, I., and Debatin, K.M., 2001, Cellular Stress Response and Apoptosis in Cancer Therapy, *Blood*, **98** (9), 2603-2610.
- Holliday, D.L., and Speirs, V., 2011, Choosing the Right Cell Line for Breast Cancer Research, *Breast Cancer Research*, **13**(215), 1-7.
- Hutapea, J.R., 2001, *Inventaris Tanaman Obat Indonesia (I)*, Jilid 2, Departemen Kesehatan RI dan Kesejahteraan Sosial RI Badan Penelitian dan Pengembangan kesehatan, Jakarta.
- Iloki-Assanga, S.B., Lewis-Lujan, L.M., Lara-Espinoza, C.L., Gil-Salido, A.A., Fernandez-Angulo, D., Rubio-Pino, J.L. and Haines, D.D., 2015, Solvent Effects on Phytochemical Constituent Profiles and Antioxidant Activities, Using Four Different Extraction Formulations for Analysis of *Bucida buceras* L. and *Phoradendron californicum*, *BMC Res Notes*, **8**(396), 1-14.
- Kaabinejadian, S., Foulladdel, Sh., and Azizi, E., 2008, p53 Expression in MCF 7, T47D and MDA-MB 468 Breast Cancer Cell Lines Treated with Adriamycin Using RT-PCR and Immunocytochemistry, *J. Biol. Sci.*, **8**(2), 380-385.

- King, R.J.B., 2000, *Cancer Biology*, Ed. 2, Pearson Education, England.
- Kumar, R., Vadlamudi, R.K., and Adam, L., 2000, Apoptosis in Mammary Gland and Cancer, *Endocrin - Related Cancer*, **7**, 257-269.
- Lee, J.H., and Nan, A., 2012, Combination Drug Delivery Approaches in Metastatic Breast Cancer, *Journal of Drug Delivery*, e915375.
- Leung, L.K., and Wang, T.T., Differential Effects of Chemotherapeutic Agents on the Bcl-2/Bax Apoptosis Pathway in Human Breast Cancer Cell Line MCF-7, *Breast Cancer Res Treat*, **55**(1), 73-83.
- Li, X., Lu, Y., Liang, K., Liu, B., and Fan, Z., 2005, Differential Responses to Doxorubicin-Induced Phosphorylation and Activation of Akt in Human Breast Cancer Cells, *Breast Cancer Research*, **7**, R589-R597.
- Lide, D.R., 1997, *CRC Handbook of Chemistry and Physics*, 78th Ed., CRC Press Boca Raton, FL, 3-78.
- Massart, C., Barbet, R., Genetet, N., and Gibassier, J., 2004, Doxorubicin Induces Fas-Mediated Apoptosis in Human Thyroid Carcinoma Cells, *Thyroid*, **14**(4), 263-270.
- Melchert, T.E., 1990, *Cosmos caudatus* (Asteraceae; Coreopsidae) in Mexico: a cytotaxonomic reappraisal, *Phytologia*, **69**, 200-215.
- Minotti, G., Menna, P., Salvatorelli, E., Cairo, G., and Gianni, L., 2004, Anthracyclins: Molecular Advances and Pharmacologic Developments in Antitumor Activity and Cardiotoxicity, *Pharmacol Rev*, **56**, 186-222.
- Mosmann, 1983, Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays, *Journal of Immunological Methods*, **65**(1), 55-62.
- Nugroho, A.E., Hermawan, A., Putri, D.D.P., Novika, A., dan Meiyanto, E., 2013, Combinational Effects of Hexane Insoluble Fraction of *Ficus septica* Burm. F. and Doxorubicin Chemotherapy on T47D Breast Cancer cells, *Asian Pac J Trop Biomed*, **4**, 297-302.
- Patil, D.G., and Nikam, S.V., 2013, In Vitro Antimicrobial, Antioxidant Activity and Phytochemical Analysis of *Cosmos Caudatus* (Wild Cosmos), *UJP*, **2**(6), 64-70.
- Pebriana, R.B., Wardhani, B.W.K., Widayanti, E., Wijayanti, N.L.S., Wijayanti, T.R., Riyanto, S., dan Meiyanto, E., 2008, Pengaruh Ekstrak Metanolik Daun Kenikir (*Cosmos caudatus* Kunth.) Terhadap Pemacuan Apoptosis Sel Kanker Payudara, *Pharmacon*, **9**(1), 21-26.

- Ren, W., Qiao, Z., Wang, H., Zhu, L., and Zhang, L., 2003, Flavonoids: Promising Anticancer Agents, *Medicinal Research Reviews*, **23** (4), 519–534.
- Reynolds, C.P., and Maurer, B.J., 2005, Evaluating Response to Antineoplastic Drug Combinations in Tissue Culture Models, *Methods Molecular Medicine*, **110**, 173-183.
- Roche, 2003, Annexin-V-FLOUS Staining Kit, *Roche Applied Science*. URL: <https://pim-eservices.roche.com/LifeScience/Document/57dafb75-95ed-e311-98a1-00215a9b0ba8> . Diakses tanggal 20 Oktober 2016.
- Ruddon, R.W., 2007, *Cancer Biology*, Oxford University Press.
- Sarasin, A., 2003, An Overview of the Mechanisms of Mutagenesis and Carcinogenesis, *Mutation Research*, **544**, 99–106.
- Schafer, J.M., Lee, E.S., O'Regan, R.M., Yao, K., dan Jordan, V.C., 2000, Rapid development of tamoxifen-stimulated Mutant p53 Breast Tumors (T47D) in Athymic Mice, *Clinical Cancer research*, **6**, 4373–80.
- Schlattner, M.T., Zaugg, M., Zuppinger, C., Wallimann, T., and Schlattner, U., 2006, New Insights into Doxorubicin-induced Cardiotoxicity, The Critical Role of Cellular Energetics, *Journal of Molecular and Cellular Cardiology*, **41**, 389-405.
- Shui, G.L.P., Leong, S.P., and Wong, 2005, Rapid Screening and Characterization of antioxidant of *Cosmos caudatus* Using Liquid Chromatography Coupled with Mass Spectrometry, *Journal of Chromatography B*, **827**, 127-138.
- Simpson, M.G., 2006, *Plants systematics*, Elsevier Academic Press, USA.
- Simstein, R., Burow, M., Parker, A., Weldon, C., and Beckman, B., 2003, Apoptosis, Chemoresistance, and Breast Cancer: Insights from The MCF-7 Cell Model System, *Exp. Biol. Med.*, **228**, 995–1003.
- Singh, N., 2007, Apoptosis in Health and Disease and Modulation of Apoptosis for Therapy: an Overview, *Indian Journal of Clinical Biochemistry*, **22**(2), 6-16.
- Slee, E.A., O'Connor D.J., and Lu, X., 2004, To die or not to die: how does p53 decide?, *Oncogene*, **23**, 2809–2818.
- Smith, L., Watson, M.B., O'Kane, S.L., Drew, P.J., and Lind, M.J., 2006, The Analysis of Doxorubicin Resistance in Human Breast Cancer Cell Using Antibody Microarray, *Molecular Cancer Therapy*, **5**(8), 2115-2120.

- Tanyi, J., Tory, K., Bankfalvi, A., Shoder, W., Rath, W., and Fuzesi, L., 1999, Analysis of p53 Mutation and Cyclin D1 Expression in Breast Tumors, *Pathol. Oncol. Res.*, **5**(2), 90-94.
- Tapas, A.R., Sakarkar, D.M., and Kakde, R.B., 2008, Flavonoid as Nutraceuticals : A Review, *Tropical Journal of Pharmaceutical Research*, **7** (3), 1089-1099.
- Tjindarbumi, D., and Mangunkusumo, R., 2002, Cancer in Indonesia, Present and Future, *Jpn J Clin Oncol*, **32**, S17-S21.
- Torrens, V.M. and Simis, V.D., 2012, *Cardiotoxicity of Oncologic Treatment*, In Tech, China, 89-116.
- Tsao, R., 2010, Chemistry and Biochemistry of Dietary Polyphenols, *Nutrients*, **2**, 1231-1246.
- Voight, R., 1994, *Buku Pelajaran Teknologi Farmasi*, diterjemahkan oleh Soendani Noerono Soewandhi, Gajah Mada University Press, Yogyakarta, 570-571.
- Xu, F., Wang, F., Yang, T., Sheng, Y., Zhong, T., and Chen, Y., 2014, Differential Drug Resistance Acquisition to Doxorubicin and Paclitaxel in Breast Cancer Cells, *Cancer Cell Internasional*, **14**(142), 1-13.
- Zhang, A., Wu, Y., Lai, W.L. and Yew, D.T, 2004, Apoptosis – A Brief Review. *Neuroembryology*, **5**(3), 47–59.
- Zhang, G., Gurtu, V., Kain, S.R., dan Yan, G., 1997, Early Detection of Apoptosis Using a Fluorescent Conjugate of Annexin V, *Biotechniques*, **23**(3), 525-531.
- Zhao, L., Wientjes, M.G., and Au, J.L.S., 2004, Evaluation of combination Chemotherapy: Integration of Nonlinear Regression, Curve Shift, Isobologram, and Combination Index Analyses, *Clinical Cancer Research: An Official Journal of The American Association for Cancer Research*, **10**, 7994–8004.