

DAFTAR PUSTAKA

- Afifah, B., Sutjiatmo., dan N.C. Sugiarto. 1996. Efek ekstrak etanol daun sambiloto terhadap tukak lambung yang disebabkan oleh indometasin pada tikus wistar. *The Journal on Indonesian Medicinal Plants*. 3(1): 33-34.
- Aswin, S. 2002. *Biologi Molekuler Kematian Sel Terprogram*. Naskah Lengkap Pertemuan Ilmiah Tahunan Ilmu Penyakit Dalam FK UGM, Natour Garuda, Yogyakarta.
- Backer, C.A. dan R.C.B. Van den Brink, 1965, *Flora of Java*, Vol. 3, 1679-1684, Groningen, Wolters Noordhoff, The Netherlands.
- Budd, R.C. 2002. Death receptors couple to both cell proliferation and apoptosis. *Journal of Clinical Investigation* 109 : 437-442.
- Budi, N., Adjimi., dan D.I. Paranita. 1996. Beberapa penelitian farmakologi sambiloto. *The Journal on Indonesia Medicinal Plants* 3(1): 23-24.
- Burdall, E.S., M.A. Hanby, R.J.M. Landsdown, and V. Speirs. 2003. Breast cancer cell line, *Breast Cancer Research* 5(2): 89-95.
- CCRC^a, 2000. *Prosedur Tetap Preparasi Sampel*, 3. Cancer Chemoprevention Research Center Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- CCRC^b, 2000. *Prosedur Tetap Pembuatan Media*, 3-4. Cancer Chemoprevention Research Center Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- CCRC^c, 2000. *Prosedur Tetap Panen Sel*, 3. Cancer Chemoprevention Research Center Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- CCRC^d, 2000. *Prosedur Tetap Uji Sitotoksik Metode MTT*, 2. Cancer Chemoprevention Research Center Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- CCRC^e, 2000. *Prosedur Tetap Uji Imunositokimia*. Cancer Chemoprevention Research Center Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Chang, H.M. and P.P.H. But. 1986, Pharmacology and applications of Chinese material medica, *World Scientific*.
- Chang, L.C. and A.D. Kinghorn. 2001. *Flavonoid as Chemopreventive Agent, Bioactive Compound from Natural Sources, Isolation, Characterization and Biological Properties*, Taylor & Friends, New York.

- Corwin, E.J. 2008. *Handbook of Pathophysiology*, 3rd Edition. Lippincott Williams & Wilkins. Philadelphia, USA.
- Cotran, R.S., D.A. Carson, and J.M. Riberto. 1999. *Robbins patologic basis of disease*. 6th ed., 18-25, WB Saunders Company. Tokyo-London-Sydney.
- Departemen Kesehatan RI, 1986. *Sediaan Galenik*. Dirjen Pengawasan Obat dan Makanan, Jakarta.
- Dolonsky, C. and C.H. Kayser. 2008. *Breast Cancer: The Basic*, Abramson Cancer of The University of Pennsylvania, Pennsylvania.
- Doyle, A. and J.B. Griffiths. 2000. *Cell and Tissue Culture for Medical Research*, 47. John Willey and Sons Ltd, New York.
- Ferlay, J., F. Bray., P. Pisani, and D.M. Parkin. 2004. Globocan 2002, Cancer incidence, mortality and prevalence. *Worldwide IARC*. Cancer base No. 5 Version 2.0. Lyon: IARC Press.
- Goepel, J.R. 1996. *Responses to Cellular Injury*, In : Underwood JCE. General and systematic pathology. 2nd ed. Churchill livingstone. NewYork-London-Madrid: 117-119.
- Gowhar, S., Anjana, M., Tarique, N. H., Ali A.A., Jyothy., David, K.Y.L., 2009, Induction of apoptosis in HeLa cells by chloroform fraction of seed extracts of *Nigella sativa*, *Cancer Cell International* 9:29.
- Gudkov, A. V. 2005. Therapeutic strategies based on pharmacological modulation of p53 pathway, In: Zambetti, G. P., Editor, The p53 tumor suppressor pathway and cancer, New York, *Springer*, p 225-227.
- Halim, V.S., C.J. Soegiharjo, dan D.M. Rizal. 2004. Pengaruh ekstrak etanol herba sambiloto (*Andrographis paniculata* (Burm.f.) Nees) terhadap spermatogenesis mencit jantan dewasa dan uji kualitatif kromatografi lapis tipis. *Majalah Farmasi Indonesia* 15(3): 136-143.
- Harborne, J.B., 1996, *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan*, ITB, Bandung.
- Harris, C.C. and M. Holstein. 1993. Clinical: Implications of the p53 tumor suppressor gene. *New England Journal of Medicine* 329: 1318-27.
- Hartanto, H., N. Darmaniah, dan N. Wulandari. 2007. *Buku Ajar Patologi Robbins, Ed.7*. EGC, Jakarta.

- Hemann, M.T., and S.W. Lowe. 2006. The *p53-Bcl-2* connection. *Cell Death and Differentiation* 13: 1256-1259.
- Hu, C.Q. and B.N. Zhou. 1982. Isolation and structure of two new diterpenoid glucosides from *Andrographis paniculata* Nees. *Acta Pharmaceutica Sinica* 17(6): 435-440.
- Jerry, D.J., M.L. Minter., K.A. Becker., and A.C. Blackburn. 2002. Hormonal control of *p53* and chemoprevention. *Breast Cancer Research* 4: 91- 94.
- Juin, P., A. Hueber., T. Littlewood., and G. Evan. 1999. c-Myc-induced sensitization to apoptosis is mediated through cytochrome c release. *Genes and Development* 13: 1367-1381.
- Kastan, M.B. and S.X. Skapek. 2001. Molecular Biology of Cancer : The Cell Cycle in *Cancer Principle and Practice of Oncology*. Ed 6th, Eds. DeVita, V.T., Hellman, S., and Rosenberg, S.A. , pp. 91-102, Lippicott Williams &Wilkins, Philadelphia.
- Koosnadi, S., M. Soeprapto, dan S. Roem. 2000. *Terapi Biologi untuk Kanker*. Surabaya, Airlangga Uiversity Press.
- Kresno, S.B. 2001. *Ilmu Onkologi Dasar*. Bagian patologi klinik FKUI: 13-15.
- Kumar, R.A., K. Sridevi, and N.V. Kumar. 2004. Anticancer and immunostimulatory compounds from *Andrographis paniculata*. *Journal of Ethnopharmacology* 92(2-3): 291-95.
- Lane, O.P. and L.V. Crawford. 1979. T antigen is bound to host protein in SV40 transformed cells. *Nature* 278: 261-3.
- Lukas, R. 1998. *Rahasia Herbalis Cina, Ramuan Tanaman Obat Cina*. Pustaka Delapratasa, Jakarta.
- Mans, D.R., A.B. Rocha, and G. Schwartzmann. 2000. Anti-cancer drug discovery and development in Brazil: Targeted plant collection as a national strategy to acquire candidate anti-cancer compounds, *Oncologist*. 5, 185-198.
- Mardiana, L. 2004. *Kanker pada Wanita Pencegahan dan Pengobatan dengan Tanaman Obat*. Penebar Setia, Yogyakarta.
- Martini, S. Dwi, dan H. Retno. 2005. Uji sitotoksitas ekstrak etanol *Momordica charantia* L, *Phyllanthus niruri* L, dan *Andrographis paniculata* Ness terhadap sel HeLa, myeloma dan sel B958 secara *in vitro*. *Laporan Penelitian*. Universitas Diponegoro, Semarang.

- Meiyanto, E., S. Tasminatun, S. Susilowati, R. Murwanti, dan Sugiyanto. 2007. Penghambatan karsinogenesis kanker payudara tikus terinduksi DMBA pada fase post inisiasi oleh ekstrak etanolik daun *Gynura procumbens* (Lour), Merr. *Majalah Farmasi Indonesia* 18(4): 169-175.
- Meiyanto, E., R.A. Susidarti, S. Handayani, dan F. Rahmi. 2008. Ekstrak etanolik biji buah pinang (*Areca catechu* L.) mampu menghambat proliferasi dan memacu apoptosis sel MCF-7. *Majalah Farmasi Indonesia* 19(1): 12- 19.
- Meyer, B.N., N.R. Ferigni, J.E. Putman, L.B. Cobsen, D.E. Nichols, J.L. and McLaughlin, 1982, Brine Shrimp: A Conventient General Bioassay for Active Plant Constituent, *Planta Medica* 45:31-45.
- Mosmann, T. 1983. Rapid colorimetric assay for cellular growth and survival: Aplication to proliferation and citotoxicity assays, *Journal of Immunological Methods* 65: 55-63.
- Mudahar, H., L. Widowati, dan D. Sundari. 2006. Uji aktivitas ekstrak etanol 50% umbi keladi tikus (*Thyphonium flagelliforme* (Lood) Bl) terhadap sel kanker payudara (MCF-7 *Cell line*) secara *In Vitro*. dikutip dari <http://www.litbang.depkes.go.id>. diakses 25 Mei 2012.
- Nurani, L.H. 2011. Uji sitotoksitas, antiproliferatif, dan pengaruhnya terhadap ekspresi *p53* dan *Bcl2* dari fraksi etanol infusa daun teh (*Camellia sinensis*) terhadap sel HeLa. *Majalah Obat Tradisional* 16(1): 14-21.
- Pan, J., G. Xu., and S.C.J. Yeung. 2001. Cytochrome c release is upstream to activation of caspase-9, caspase-8, and caspase-3 in the enhanced apoptosis of anaplastic thyroid cancer cells induced by manumycin and paclitaxel. *The Journal of Clinical Endocrinology and Metabolism* 86: 4731-4740.
- Peter, M.E., A.E. Houfelder., and M.O. Heugartner. 1997. Advance in Apoptosis Research, *Procidings of Academic Science USA* 94 12736-12737.
- Prapanza, E. dan L.M. Marianto. 2003. Khasiat & Manfaat Sambiloto: *Raja Pahit Penakluk Aneka Penyakit*. AgroMedia Pustaka. Pp 3–9.
- Prendergast, G.C. 1999. Mecanism of apoptosis by cmyc. *Oncogene* 18: 2961-2987.
- Price, S.A. and L.M. Wilson. 2005. *Patofisiologi: Konsep klinis Proses-proses penyakit*, diterjemahkan oleh Brahm, U.P., H. Huriawati, W. Pita, dan A.M. Dewi. edisi ke 6, 735- 1520, EGC, Jakarta.

- Ribble, D., N. B. Goldstein., D. A. Norris., and Y. G. Shellman. 2005. A simple technique for quantifying apoptosis in 96 well plates. *BMC Biotechnology* 5 (12): 1-7.
- Rode, H.D., D. Eisel, and I. Frost. 2004. *Apoptosis, Cell Death and Cell Proliferation Manual*. 3rd ed., Roche Applied Science, USA.
- Rugo, H.S. 2006. Cancer in *Current Medical Diagnosis and Treatment*. 45th Edition, Eds. Tierney, Lawrence M., McPhee, Stephen J., Papadakis, Maxie A., McGraw-Hill, Publishing Company, New York, USA.
- Schafer, J.M., E.S. Lee, R.M. O'Regan, K. Yao, and V.C. Jordan. 2000. Rapid development of tamoxifen-stimulated mutant p53 breast tumors (T47D) in athymic mice. *Clinical Cancer Research* 6: 4373-4380.
- Sembiring, B., M. Fery, dan M. Januwati. 2005. Pengaruh nisbah bahan dengan pelarut dan lama ekstraksi terhadap mutu ekstrak sambiloto (*Andrographis paniculata* Nees). *Prosiding Seminar Nasional dan Pameran Tumbuhan Obat Indonesia, XXVIII*.
- Sembiring, B. 2009. Pengaruh konsentrasi bahan pengisi dan cara pengeringan terhadap mutu ekstrak kering sambiloto. *Buletin Penelitian Tanaman Rempah dan Obat* 2(2): 173-181.
- Sieuwerts, A.M., J.G.M. Klijn, H.A. Peters, J.A. Foekens, 1995, The MTT Tetrazolium Salt Assay Scrutinized : How To Use This Assay Reliability to Measure Metabolic Activity of Cell Culture in vitro for The Assessment of Growth Characteristics, IC50-values and cell survival, *European Journal of Clinical Chemistry and Clinical Biochemistry* 33, 11, 813-823.
- Siripong, P.B., K. Kongkathip, P. Preechanukool, K. Picha, Tunsuwan and W.C. Taylor. 1992. Cytotoxic diterpenoid constituents from *Andrographis paniculata*, Nees leaves. *Journal of The Science Society of Thailand* 18(4): 187-194.
- Siswandono dan B. Soekarjo. 2000, *Kimia Medicinal*, Jilid 1, Airlangga, Surabaya.
- Sukardiman., P. Hadi., M. Sofia., dan Sismindari. 2000. Penapisan Senyawa Anti-kanker dari Tanaman Obat Indonesia dengan Molekul Target Enzim DNA Topo-isomerase. *Laporan Akhir Penelitian Domestic Colla-borative Research Grant*, Universitas Airlangga, Surabaya.
- Sukardiman. 2007. Mekanisme induksi apoptosis pinaostrobin dari *kaemferia pandurata* roxb dan andro-grafolida dari *Andrographis paniculata* Nees terhadap sel kanker manusia secara *in vitro* dan implikasinya pada penggunaan secara *in vivo*. *Disertasi*, Universitas Airlangga; Surabaya.

- Talapatra, S. and C.B. Thompson. 2001. Growth factor signaling in cell survival: implications for cancer treatment. *Journal of Pharmacology and Experimental Therapeutics* 298: 873 – 878.
- Utoro, T. 2002. *Kematian sel Terprogram (Apoptosis)*. Pertemuan Ilmiah Tahunan Ilmu Penyakit Dalam FK UGM, Natour Garuda, Yogyakarta.
- Verma, S.P., B.R. Goldin, and P.S. Lin. 1998. The inhibition of the estrogenic effects of pesticides dan enviromental chemicals by curcumin and isoflavonoids. *Environmental Health Perspectives* 106(12): 807-812.
- Wang, X. 2001. The expanding role of mitochondria in apoptosis. *Genes and Development* 15: 2922 – 2933.
- Wardoyo, E.R.P., Y.L.H. Nugroho, Santosa, dan S. Moeljopawiro. 2011. Efek sitotoksik ekstrak kloroform, methanol dan air buah *Brucea javanica*. *Hayati*, Edisi Khusus, 4D: 13–16.
- Wozniak, R.J., W. T. Klimecki., S. S. Lau., Y. Feinstein., and B. W. Futscher. 2007. 5-Aza-2'-deoxycytidine-mediated Reductions in G9A Histone Meethyltransferase and Histone H3 K9 dimethylation Levels are Linked to Tumor Suppressor Gene Reaction. *Oncogene* 26: 77-90.
- Yusron, M., Januwati dan E.P. Rini. 2005. Budidaya tanaman sambiloto. badan penelitian dan pengembangan pertanian. balai penelitian tanaman obat dan aromatika. Sirkuler. 11. <http://www.balittro.go.id>. diakses 25 Mei 2012.
- Zampieri, L., P. Bianchi, P. Ruff, and P. Arbuthnot. 2002. Differential modulation by estradiol of P-glycoprotein drug resistance protein expression in cultured MCF7 and T47D breast cancer cells. *Anticancer Research* 22(4): 2253-9.
- Zeiss, C.J. 2003. The Apoptosis-Necrosis Continuum: Insights from Genetically Altered Mice. *Veterinary Pathology* 40: 481-495.
- Zhou, J., G. Lu., C. Ong., and H. Shen. 2008. Andrographolide Sensitizes Cancer Cells to TRAIL-Induced Apoptosis via p53-mediated Death Receptor 4 Up-regulation. *Molecular cancer Thera-peutics* 7:2170-180.