

## DAFTAR PUSTAKA

- Abbas T, Dutta A, 2009. p21 in cancer: intricate networks and multiple activities. *Nat Rev Cancer* 9(6): 400–414
- Al-Jumaily EFA, Al-Isawi JKT, 2014. Chemical composition and antioxidant potential of polyphenol compounds of *Cyperus rotundus* L. Rhizomes. *AJPCT2* (11):1277-1286
- Al-Massarani S, Al-Enzi F, Al-Tamimi M, Al-Jomaiah N, Al-amri R, Baser KHC, et al, 2016. Composition & biological activity of *Cyperus rotundus* L. tuber volatiles from Saudi Arabia. *Nat. Volatiles & Essent. Oils*3(2): 26-34
- Andrews S, 2007. Gynecologic cancer. Dalam (Skeel RT, ed).*Handbook of Cancer Chemotherapy*. 7<sup>th</sup> ed. Ohio: Lippincott Williams & Wilkins, pp: 322-328
- Anonim, 2000. *Inventaris Tanaman Obat Indonesia (I)*. Jilid 1. Departemen Kesehatan dan Kesejahteraan Sosial RI, Badan Penelitian dan Pengembangan Kesehatan, Jakarta
- Boik, 2001. *Natural Compound in Cancer Therapy*. 1<sup>st</sup> ed. Princeton: Oregon Medical Press, pp: 1-8
- Castell JV, dan Gomez-Lechon MJ, 1997. *In Vitro Methods in Pharmaceutical Research*. Sandiego: Academic Press, pp: 43
- CandrasariDS, 2012. Aktivitasantikanker alfa terpineol dari getah *Pinus Merkusii*(Jungh. Et De Vries) pada siklus sel, apoptosis dan ekspresi protein(Bcl-2 dan Bax) sel linimcf-7. Tesis, Universitas Gajdh Mada, Yogyakarta
- Chen CY, Liu TZ, Tseng WC, Lu FJ, Hung RP, Chen CH, et al., 2008. (-)-Anonaine induces apoptosis through Bax- and caspase-dependent pathways in human cervical cancer (HeLa) cells. *Food Chem Toxicol* 46:2694–2702
- Chen Y, Zhao YY, Wang XY, Liu JT, Huang LQ, Peng CS, 2011. GC-MS analysis and analgesic activity of essential oil from fresh rhizoma of *Cyperus rotundus*. *Journal of Chinese medicinal materials* 34(8):1225-9
- Chu E, Sartorelli AC, 2007. Cancer chemotherapy. Dalam (Katzung BG,ed).*Basic and Clinical Pharmacology*. 10<sup>th</sup> ed. McGrawHill Companies
- Croce CM, 2008. Oncogen and cancer. *N Engl J Med*358:302-11

D'Archivio M, Santangelo C, Scazzocchio B, Varì R, Filesi C, Masella R, et al, 2008. Modulatory effects of polyphenols on apoptosis induction: Relevance for cancer prevention. *Int J Mol Sci* 9:213-228

**DeFilippis RA, Goodwin EC, Wu L, DiMaio D**, 2003. Endogenous human papillomavirus E6 and E7 proteins differentially regulate proliferation, senescence, and apoptosis in HeLa cervical carcinoma cells. *Journal of Virology* 77:1551-1563

Doyle A, Griffiths JB, 1998. *Cell and Tissue Culture, Laboratory Procedures in Biotechnology*. Chichester: John Wiley & Sons Ltd.

Dyson JN, 2016. RB1: a prototype tumor suppressor and an enigma. *Genes & Development* 30:1492-1502

Eberhardt MV, Lee CY, Liu RH, 2000. Antioxidant activity of fresh apples. *Nature* 405: 903-904

El-Gohary HMA, 2004. 14- study of essential oils of the tubers of *Cyperus rotundus* L. and *Cyperus alopecuroides* Rottb. *Bull Fac Pharm* 42(1):157-164

Eltayeib AA, Ismaeel HU, 2014. Extraction of Cyperus Rotundus Rhizomes Oil, Identification of Chemical Constituents and Evaluation of Antimicrobial Activity of the Oil in North Kordofan State. *International Journal of Advanced Research in Chemical Science* 1(9):18-29

Faried A, Kurnia D, Faried LS, Usman N, Miyazaki T, Kato H, et al, 2007. Anticancer effects of gallic acid isolated from Indonesian herbal medicine, *Phaleria Macrocarpa* (Scheff.) Boerl, On Human Cancer Cell Lines. *Int J Oncol* 30:605-613

Galati G, O'Brien PJ, 2004. Potential toxicity of flavonoids and other dietary phenolics: Significance for the chemopreventive and anticancer properties. *Free Radic Biol Med* 37(3): 287 – 303.

Gautam N, Mantha AK, Mittal S, 2014. Essential oils and their constituents as anticancer agents: A mechanistic view. *BioMed Research International* 2014: 1-23

Ghittoni R, Accardi R, Chiocca S, Tommasino M, 2015. Role of human papillomaviruses in carcinogenesis. *Ecancer* 9:526-534

Ghobrial IM, Witzig TE, Adjei AA, 2005. Targeting apoptosis pathways in cancer therapy. *CA Cancer J Clin* 55(3):178-194

- Gupta D, Singh V, Agrawal N, 2016. Volatile constituents and antimicrobial activities of dried rhizome of *Cyperus rotundus* Linn. *Int.J.Curr.Microbiol.*5(11): 334-339
- Hanahan D, Weinberg RA, 2000. The hallmarks of cancer. *Cell* 100: 57–70
- Hilli ZA, AL -Jumaily EF, Yaseen NY, 2010. Role of volatile oils fraction of *cyperus rotundus* in induction of apoptosis on cancer cell lines *in vitro*.*Iraqi. J.Biotech* 9(2): 286-298
- Hail JN, Kim HJ, Lotan R, 2006. Mechanisms of fenretinide-induced apoptosis., *Apoptosis*, 11:1677–1694.
- Hilgendorf KI, Leshchiner ES,Nedelcu S, Maynard MA, Calo E, Ianari A, et al., 2013.The retinoblastoma protein induces apoptosis directly at the mitochondria.*Genes & Development* 27:1003–1015
- Hosseini AG, 2015. Cancer therapy with phytochemicals: evidence from clinical studies. *AJP5*(2): 84–97
- Howland RD,Mycek MJ, 2006. *Lippincott's Illustrated Review:Pharmacology*. 3<sup>th</sup> ed, Philadelphia: Lippincott Williams and Wilkins
- Hsu C, Lo W, Yen G, 2007. Gallic acid induces apoptosis in 3T3-L1pre-adipocytes via a Fas- and mitochondrial-mediated pathway. *J AgricChem* 55(18):7359-7365
- Johnson IT, 2001. Mechanisms and possible anticarcinogenic effects of dietrelated apoptosis in colo-rectal mucosa. *Nutr Res Rev* 14: 229–256
- Khan S, Choi RJ, Lee D, Kim YS, 2011. Sesquiterpene Derivatives Isolated from *Cyperus rotundus* L. Inhibit Inflammatory Signaling Mediated by NF-κB. *Natural Products Sciences* 17(3):250-255
- Kilani S, Sghaier BM, Limem I, Bouhlel I, Boubaker J, Bhouri W, et al,2008a. *In vitro* evaluation of antibacterial, antioxidant, cytotoxic and apoptotic activities of the tubers infusion and extracts of *Cyperus rotundus*. *Bioresour Technol*99: 9004–9008
- Kilani S, Ledauphin J, Bouhlel I, Ben SM, Boubaker J, Skandrani I, et al, 2008b.Comparative study of *Cyperus rotundus* essential oil by a modified GC/MS analysis method: Evaluation of its antioxidant, cytotoxic, and apoptotic effects. *Chem Biodivers* 5: 729-42
- Kundu J,Chuna K,Aruomab OI, Kundua JK, 2014. Mechanistic perspectives on cancer chemoprevention/chemotherapeutic effects of thymoquinone. *Mutation Research* 768: 22–34

- Landry J JM, Pyl PT, Rausch T, Zichner T, Tekkedil MM, Stutz AM, et al, 2013. The Genomic and Transcriptomic Landscape of a HeLa Cell Line. *G3 journal* 3(8): 1213-1224
- Lawal OA, Oyedele AO, 2009. Chemical composition of the essential oils of *Cyperus rotundus* L. from South Africa. *Molecules* 14(8): 2909-2917
- Lehoux M, D'Abramo CM, Archambault J, 2009. Molecular mechanisms of human papillomavirus-induced carcinogenesis. *Public Health Genomics* 12(5-6): 268-280
- Lobo V, Patil A, Phatak A, Chandra N, 2010. Free radicals, antioxidants and functional foods: Impact on human health. *Pharmacogn Rev* 4(8): 118-126
- Lodish H, Berk A, Matsudaira P, Kaiser AA, Krieger M, Scott MP, et al, 2004. *Molecular Cell Biology*. 5<sup>th</sup> ed. New York: W.H.Freeman and Company
- Macdonald F, Ford CHJ, Casson AG, 2004. *Molecular Biology of Cancer*. 2<sup>th</sup> ed. London and New York: Garland Science/BIOS Scientific Publishers
- Mans DRA, Da Rocha AB, Schwartsmann G, 2000. Anti-cancer drug discovery and development in Brazil: targeted plant collection as a rational strategy to acquire candidate anti-cancer compounds. *Oncologist* 5:185-198
- Mathabe MC, Hussein AA, Nikolova RV, Basson AE, Meyer JJM, Lall N, 2008. Antibacterial activities and cytotoxicity of terpenoids isolated from Spirostachys Africana. *J Ethnopharmacol* 116:194-197
- Medina PJ, Fausel C, 2008. Cancer treatment and chemotherapy. Dalam (DiPiro, JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey LM, eds). *Pharmacotherapy: A Pathophysiologic Approach*. 7<sup>th</sup> ed. McGraw-Hill Companies
- Mosman T, 1983. Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays. *Journal of Immunological Methods* 65: 55-63
- NCBI, 2017. Vulgarone B. <http://www.nlm.nih.gov/mesh/meshhome.html> diakeses tanggal 21 September 2017.
- Pathania AS, Guru SK, Verma MK, et al (2013). Disruption of the PI3K/AKT/mTOR signaling cascade and induction of apoptosis in HL-60 cells by an essential oil from Monarda citriodora. *Food Chem Toxicol*, 62, 246-54
- Prunoiu VM, Marincas MA, Cirimele C, Ionescu S, Zurac S, Radu M, et al, 2015. The configuration of biomolecular markers in cancer of the uterine cervix. Therapy and prognosis. *Chirurgia* 110: 144-150

Pusat Data dan Informasi Kementerian Kesehatan RI, 2015. *Stop Kanker*<http://www.depkes.go.id/resources/download/pusdatin/infodatin/infodatin-kanker.pdf>. Diakses tanggal 4 November 2015

Quassinti L, Maggi F, Barboni L, Ricciultelli M, Cortese M, Papa F, et al., 2014. Wild celery (*Smyrnium olusatrum* L.) oil and isofuranodiene induce apoptosis in human colon carcinoma cells. *Fitoterapia* 97: 133-41

Queiroz RM, Takiya CM, Guimaraes LP, Rocha GG, Alviano DS, Blank AF, et al., 2014. Apoptosis- inducing effects of melissa officinalis L. essential oil in glioblastoma multiforme cells. *Cancer Invest* 32: 226-35

Rahman MS, Anwar MN, 2008. Antibacterial and cytotoxic activity of longiverbenone isolated from the rhizome of *Cyperus scariosus*. *Bangladesh J Microbiol*: 25(1): 82-84

Reed JC, 1999. Mechanisms of apoptosis avoidance in cancer. *Curr Opin Oncol* 11(1): 68–75

Ribble D, Goldstein NB, Norris DA, Shellman YG, 2005. A simple technique for quantifying apoptosis in 96-well plates. *BMC Biotechnol*. 5: 1-7

Rode HD, Eisel D, Frost I, 2004. *Apoptosis, Cell Death, dan Cell Proliferation Manual*. 3<sup>rd</sup> ed. California: Roche Applied Science, pp:69.

Rumiyati, Sismindari, dan Ariyani, 2006. Efek fraksi protein daun *Carica papaya* L. pada ekspresi protein p53 dan Bcl-2 pada kultur sel kanker payudara. *Majalah Farmasi Indonesia* 17(4): 170 – 176

Saleh AM, Aljada A, Rizvi SA, Nasr A, Alaskar AS, Williams JD, 2014. In vitro cytotoxicity of *Artemisia vulgaris* L. essential oil is mediated by a mitochondria-dependent apoptosis in HL-60 leukemic cell line. *BMC Complementary and Alternative Medicine* 14:226

Sayed HM, Mohamed MH, Farag SF, Mohamed GA, Proksch P, 2007. A new steroid glycoside and furochromones from *Cyperus rotundus* L. *Nat Prod Res* 21(4):343-350

Shaltouki A, Freer M, Mei Y, Crystal M, Weyman CM, 2007. Increased expression of the pro-apoptotic Bcl2 family member PUMA is required for mitochondrial release of cytochrome-c and the apoptosis associated with skeletal myoblast differentiation. *Apoptosis*: 12:2143–2154.

Simstein R, Burow M, Parker A, Weldon C, Beckmani B, 2003. Apoptosis, chemoresistance, and breast cancer: Insights from the MCF-7 cell model system. *Exp Biol Med* 228(9):995–1003

- Singh N, Pandey BR, Verma P, Bhalla M, Gilca M, 2012. Phyto-pharmacotherapeutics of *Cyperus rotundus* Linn. (Motha): an overview. *468 Indian J Nat Prod Resour3*: 467-476
- Sivapalan SR, 2013. Medicinal uses and pharmacological activities of *Cyperus rotundus* Linn –a review. *International Journal of Scientific and Research Publications*. 3(4): 1-8
- Smith JJ, Tully P, Padberg RM, 2005. Chemoprevention: a primary cancer prevention strategy. *Semen Oncol Nurs* 21:243–251
- Soumaya KJ, Zied G, Nouha N, Mounira K, Kamel G, Genvi FDM, et al, 2014. Evaluation of in vitro antioxidant and apoptotic activities of *Cyperus rotundus*. *Asian Pacific Journal of Tropical Medicine* 7(2): 105-112
- Sudarsono, Pudjoarinto A, Gunawan D, Wahyuono S, Donatus IA, Dradjad M, et al, 1996. *Tumbuhan Obat*. Yogyakarta: Pusat Penelitian Obat Tradisional Universitas Gadjah Mada (PPOT-UGM), pp: 72-76
- Sun S, Hail JN, Lotan R, 2004. Apoptosis as a novel target for cancer chemoprevention. *J Natl Cancer Inst* 96(6): 662-272
- Susianti, 2009. Selektivitas ekstrak umbi rumput teki (*Cyperus rotundus* L.) terhadap sel HeLa dan Siha serta pengaruhnya terhadap apoptosis. *Tesis*, Universitas Gadjah Mada, Yogyakarta
- Tamuraa RE, de Vasconcellosb JF, Sarkard D, Libermanne FPB, Zerbinia LF, 2012. GADD45 proteins: central players in tumorigenesis. *Curr Mol Med* 12(5): 634–651
- Tannock IF, Hill RP, Bristow RG, Harrington L, 2005. *The Basic Science of Oncology*. 4<sup>th</sup> ed. Canada: McGraw-Hill
- Taraphdar AK, Roy M, Bhattacharya RK, 2001. Natural products as inducers of apoptosis: Implication for cancer therapy and prevention. *Curr Sci* 80(11): 1387-1396
- Tayarani-Najaran Z, Amiri A, Karimi G, Eamami SA, Asili J, Mousavi SH, et al., 2014. Comparative studies of cytotoxic and apoptotic properties of different extracts and the essential oil of *Lavandula angustifolia* on malignant and normal cells. *Nutr Cancer* 66: 424-34.
- Van de Velde CJH, Bosman FT, Wagener DJT, 1999. *Onkologi*, alihbahasa: Arjono, Aryandono T, Sunarto, Husodoputro HK, Yogyakarta: Gadjah Mada University Pers, pp: 494-507

Vermes I, Haanen C, Steffens-Nakken H, Reutelingsperger C, 1995. A novel assay for apoptosis. Flow cytometric detection of phosphatidylserine early apoptotic cells using fluorescein labelled expression on Annexin V. *Journal of Immunological Methods* 184(1): 39-51

Vonthon-Senecheau C, Weniger B, Ouattara M, Tra Bi F, Kamenan A, Lobstein A, Brun R, Anton R, 2003. In vitro antiplasmodial activity and cytotoxicity of ethnobotanically selected Ivorian plants. *JEthnopharmacol* 87(2-3):221–225

Wahyuningsih, M.S.H., 2009. *Langkah-langkah Penelitian Herbal Medicine*. Makalah dalam Seminar Aplikasi Herbal dalam Praktek Kedokteran. FKUGM, Yogyakarta, Tanggal 11 Januari 2009

Weinberg RA, 2007. *The Biology of Cancer*. New York: Garland Science, Taylor & Francis Group, LLC. pp. 460-461.

**Wheeler CM, 2008.** Natural history of human Papillomavirus infections, cytologic and histologic abnormalities, and cancer. *Obstet Gynecol Clin North Am* 35(4): 519-536

Wlodkowic D, Skommer J, Darzynkiewicz Z, 2009. Flow cytometry-based apoptosis detection Methods. *Mol Biol.* 559: 19-23

Wong R, 2011. Apoptosis in cancer: from pathogenesis to treatment. *Journal of Experimental & Clinical Cancer Research* 30:87-100.

Wootipoom V, Lekhyananda N, Phungrassami T, Boonyaphiphat T, Thongsuksai P, 2004. Prognostic significance of Bax, Bcl-2, and p53 expressions in cervical squamous cell carcinoma treated by radiotherapy. *Gynaecol Oncol* 94: 636–642

Wu JG, Peng W, Yi J, Wu YB, Chen TQ, Wong KH, et al., 2014. Chemical composition, antimicrobial activity against *Staphylococcus aureus* and a pro-apoptotic effect in SGC-7901 of the essential oil from *Toona sinensis* (A. Juss.) Roem. leaves. *JEthnopharmacol* 154: 198-205

Yagi S, Babiker R, Tzanova T, Schohn H, 2016. Chemical composition, antiproliferative, antioxidant and antibacterial activities of essential oils from aromatic plants growing in Sudan. *Asian Pacific Journal of Tropical Medicine* 6: 9(8): 763–770

Zhao AG, Li T, You SF, Zhao HL, Gu Y, Tang LD, et al, 2008. Effects of Wei Chang An on expression of multiple genes in human gastric cancer grafted onto nude mice. *World J Gastroenterol* 14(5): 693-700

Zhou Z, Yin W, 2012. Two Novel Phenolic Compounds from the Rhizomes of *Cyperus rotundus*. *Molecules* 17(11): 12636-12641