

## REFERENCES

- [1] Society AC.Cancer Facts & Figures 2013 [Internet]. [cited 2013 16 June]. Available from:<http://www.Cancer.org/Research/CancerFactsstatistic/2013Cancerfactsandfigures.pdf> americanCancersociety2013factsandfigures.
- [2] Are the number of cancer cases increasing or decreasing in the world? (2008). In World Health Organization [Internet].[cited 2016 April 10]. Available <http://www.who.int/features/qa/15/en/index.html>.
- [3] International Agency for Research on Cancer. 2010. “Online analysis: prediction the future burden of cancer Globocan 2008: cancer incidence and mortality worldwide in 2008.” [Internet]. [cited 28 December 2015]. Available <http://glo-bocan.iarc.fr/>.
- [4] Khuhaprema T, Srivatanakul P, Sriplung H, Wiangnon S, Sumitsawan Y, Attasara P. Cancer in Thailand Vol. IV, 1998-2000. Bangkok: Ministry of Public Health, Ministry of Education, 2007
- [5] นวัลครี รักอริยะธรรม, อัญชนา เจนวิถีสุข. แอนติออกซิเดนท์ สารต้านมะเร็งในผัก พืชสมุนไพรไทย. เชียงใหม่ : นพบุรีการพิมพ์จำกัด, 2545.
- [6] Singh R, Singh S, Kumar S, Arora S. Evaluation of antioxidant potential of ethyl acetate extract/fractions of *Acacia auriculiformis* A. Cunn. Food Chem Toxicol. 2007; 45 (7):1216-23.
- [7] Chuang SE, Kuo ML, Hsu CH, Chen CR, Lin JK, Lai GM, et al. Curcumin-containing diet inhibits diethylnitrosamine-induced murine hepatocarcinogenesis. Carcinogenesis 2000; 21(2): 331-5.
- [8] Manosroi J, Dhumtanom P, Manosroi A. Anti-proliferative activity of essential oil extracted from Thai medicinal plants on KB and P388 cell lines. Cancer Lett 2006; 235(1):114–20.
- [9] Auyeung KK, Ko JK. Novel herbal flavonoids promote apoptosis but differentially induce cell cycle arrest in human colon cancer cell. Invest New Drugs 2010; 28(1):1-13.

- [10] Sandur SK, Pandey MK, Sung B, Ahn KS, Murakami A, Sethi G, et al. Curcumin, demethoxycurcumin, bisdemethoxycurcumin, tetrahydrocurcumin and turmerones differentially regulate anti-inflammatory and anti-proliferative responses through a ROS-independent mechanism. *Carcinogenesis* 2007; 28(8):1765-73.
- [11] ชาวดิ ภูษะเพชรัตน์, นพมาศ เข็มทองหลาง, บรรณาธิการ. มะเร็งเม็ดเลือดขาว (Leukemia). ขอนแก่น : คณะเทคโนโลยีการแพทย์ มหาวิทยาลัยขอนแก่น, 2539.
- [12] Chueahongthong F, Ampasavate C, Okonogi S, Tima S, Anuchapreeda S Cytotoxic effects of crude kaffir lime (*Citrus hystrix*, DC.) leaf fractional extracts on leukemic cell lines. *J. Med. Plants Stud* 2011; 5(14):3097-105.
- [13] Bergmann L, Muarer U, Weidmann E. Wilms tumor gene expression in acute myeloid leukemia. *Leuk Lymphoma* 1997; 25(5-6): 435-43.
- [14] Brieger J, Wiedmann E, Maurer U, Hoelzer D, Mitrou PS, Bergmann L. The Wilm's tumor gene is frequently expressed in acute myeloblastic leukemia and may provide a marker for residue blast cells detectable by PCR. *Ann Oncol* 1995; 6(8): 811-6.
- [15] Anderson ML, Spandidos DA. Oncogenes and onco-suppressor genes in lung cancer. *Respir Med* 1993; 87(6): 413-20.
- [16] Pan MH, Chen WJ, Lin-Shiau SY, Ho CT, Lin JK. Tangeretin induces cell-cycle G1 arrest through inhibiting cyclin-dependent kinases 2 and 4 activities as well as elevating Cdk inhibitors p21 and p27 in human colorectal carcinoma cells. *Carcinogenesis* 2002; 23(10):1677-84.
- [17] National Cancer Institute (2012). A snapshot of leukemia [Internet]. [2016, May 20] Available: [www.cancer.gov/aboutnci/servingpeople/snapshots/leukemia.pdf](http://www.cancer.gov/aboutnci/servingpeople/snapshots/leukemia.pdf).
- [18] Joëlle M, Anabel K, Anna N, Silvia L. Wilms tumour gene 1 (WT1) mutations in acute myeloid leukemia (AML). *Leuk. Pathology* 2016; 48(1): S100.
- [19] Pokharel. Leukemia: A Review Article. *IJARPB* 2012; 2(3):397-407.
- [20] Mughal TI, Mughal T, Goldman J, Gloman JM, Mughal ST, Mughal S, Understanding Leukemia lymphoma. 2<sup>nd</sup> ed. CRC press publishers; 2009.
- [21] Department of health and human serviced national institutes of health (US). What You Need To Know About Leukemia; 2013 Sep: 13-3775.

- [22] Bain BJ. FAB classification. Leukaemia diagnosis. 2<sup>nd</sup> ed, Oxford: Blackwell Science, 1999.
- [23] Daniel G, Tenen. Disruption of differentiation in human cancer: AML shows the way. *Nat Rev Can* 2003; 3(2): 89-101.
- [24] Vardiman JW, Thiele J, Arber DA, Brunning RD, Borowitz MJ, Porwit A, et al. The 2008 revision of the World Health Organization classification of myeloid neoplasm and acute leukemia: Rationale and important changes.
- [25] Berger R, Flandrin G. Determining the nature of cells studied cytogenetically. *Cancer Surv* 1984; 3: 423-38.
- [26] Bennent JM, Catovsky D, Daniel MT, Flandrin G, Galton DA, Gralnick HR, et al. Proposal for the recognition of minimally differentiated acute myeloid leukemia (AML-M0). *Br J Haematol* 1991; 78(3): 325-9.
- [27] Creutzig U, Zimmermann M, Ritter J, Henze G, Graf N, Löffler H, et al. Definition of a standard-risk group in children with AML. *Brit J Haematol* 1999; 104(3): 630-9.
- [28] Berger R, Bernheim A, Daniel MT, Valensi F, Sigaux F, Flandrin G. Cytogenetic studies on acute myelomonocytic leukemia (M4) with eosinophilia. *Leuk Res* 1985; 9(2):279-88.
- [29] Mace ML, Dahl J, Jabbour EJ. Which tyrosine-kinase inhibitor to use first in chronic phase chronic myelogenous leukemia. *Expert Opin Pharmacother* 2015; 16(7): 999-1007.
- [30] Catovsky D. Immunophenotyping in the classification of leukemias. 2<sup>nd</sup> ed, The Leukemic cell. Edinburgh: Churchill Livingstone, 1991.
- [31] Fialkow PJ, Jacobson RJ, Papayannopoulou T. Chronic myelocytic leukemia: clonal origin in a stem cell common to the granulocyte, erythrocyte, platelet and monocyte/macrophage. *Am J Med* 1977; 63(1):125-30.
- [32] Nowell PC, Hungerford DA. A minute chromosome in human chronic granulocytic leukemia. *Science* 1960; 132:1497-1501.
- [33] Federl S, Talpaz M, Estrov Z, O'Brien S, Kurzrock R, Kantarjian HM. The biology of chronic myeloid leukemia. *New Engl J Med* 1999; 341(3):164-72.
- [34] Drew Provan and John Gribben. Molecular hematology. Oxford: Blackwell Science, 2000.

- [35] Vardiman JW, Harris NL, Brunning RD. The 2008 revision of the World Health Organization (WHO) classification of myeloid neoplasms and acute leukemia: rationale and important changes. *Blood* 2002; 114(5):937-51.
- [36] Byrd JC, Stilgenbauer S, Film IW. Chronic lymphocytic leukemia. *Hematology* 2004; 1(1):163-83.
- [37] Caligaris-Cappio F. Biology of chronic lymphocytic leukemia. *Rec Clin Exp Hematol* 2000; 4(5): 5-21.
- [38] Campas C , Cosialls AM, Barragan M, Iglesias-Serret D, Santidrian AF, Coll ML. Bcl-2 inhibitors induce apoptosis in chronic lymphocytic leukemia cells. *Exp Hematol* 2006; 34(12):1663-9.
- [39] Lawrence TS, Ten Haken RK, Giaccia A. Principles of Radiation Oncology. In: DeVita VT Jr, Lawrence TS, Rosenberg SA, editors. *Cancer: Princles and Practice of oncology*. 8<sup>th</sup> ed. Philadelphia: Lippincott Williams and Wilkins, 2008.
- [40] Cell cycle process Overview [Internet]. 2016 [cited 2016 May 12]. Available from: [http://www.le.ac.uk/ge/genie/vgec/he/cell\\_cycle.html](http://www.le.ac.uk/ge/genie/vgec/he/cell_cycle.html)
- [41] Norbury C, Nurse P. Animal cell cycles and their control. *Annu Rev Biochem* 1992; 61: 441-70.
- [42] Lundberg AS, Weinberg RA. Control of the cell cycle and apoptosis. *Eur J Cancer* 1999; 35(14):1886-94.
- [43] Vermeulen K, Dirk R, Bockstaele V, Berneman ZN. The cell cycle: a review of regulation, deregulation and therapeutic targets in cancer. *Cell Prolif.* 2003; 36:131–49.
- [44] Wu X, Roth JA, Zhao H, Luo S, Zheng Y, Chiang S, et al. Cell cycle checkpoints, DNA damage/repair, and lung cancer risk. *Cancer Res* 2005; 65(1): 349-57.
- [45] Lodish H, Berk A, Zipursky SL, Matsudaira P, Baltimore D, Darnell, J. *Molecular cell biology*. 1999; 4<sup>th</sup> ed. W.H. Freeman and Company, New York, USA.
- [46] Musacchio A, Hardwick KG. The spindle checkpoint: structural insights into dynamic signalling. *Nat Rev Mol Cell Biol* 2002; 3(10):731-41.

- [47] Bunz F, Dutriaux A, Lengauer C, Waldman T, Zhou S, Brown J. Requirement for p53 and p21 to sustain G2 arrest after DNA damage. *Science*. 1998; 282(5393), 1497-501.
- [48] Taylor WR, Stark GR. Regulation of the G2/M transition by p53. *Oncogene* 2001; 20 (15):1803-15.
- [49] Cooper S, Shayman JA. Revisiting retinoblastoma protein phosphorylation during the mammalian cell cycle. *Cell Mol Life Sci* 1999; 58(2001): 580-95.
- [50] Cooper S, Yu C, Shayman JA. Phosphorylation-dephosphorylation of retino blastoma protein not necessary for passage through the mammalian cell division cycle. *IUBMB Life* 1999; 48(2):225-30.
- [51] Matsuoka S, Edwards MC, Bai C, Parker S, Zhang P, Baldini A, et al. p57KIP2, a structurally distinct member of the p21CIP1 Cdk inhibitor family, is a candidate tumor suppressor gene. *Genes Dev* 1995; 9(6): 650-62.
- [52] Lee MH, Reynisdottir I, Massague J. Cloning of p<sup>57</sup>KIP<sup>2</sup>, a cyclin-dependent kinase inhibitor with unique domain structure and tissue distribution. *Genes Dev* 1995; 9(6): 639-49.
- [53] Awad MM, Sanders JA, Gruppuso PA. A potential role for p15 (Ink4b) and p57 (Kip2) in liver development. *FEBS Lett* 2000; 483(2-3): 160- 4.
- [54] Hatakeyama S, Nakayama K, Nagata M and Tomita K: Spatial and temporal expression patterns of the cyclin-dependent kinase (CDK) inhibitors p27<sup>Kip1</sup> and p57<sup>Kip2</sup> during mouse development. *Anat Embryol* 2001; 203(2): 77-87.
- [55] Diffley JF. DNA replication: building the perfect switch. *Curr Biol* 2001; 11 (9):R367-70.
- [56] Gottifredi V, Shieh SY, Taya Y, Prives C. p53 accumulates but is functionally impaired when DNA synthesis is blocked. *Proc Natl Acad Sci USA* 2001; 98 (3):1036-41.
- [57] Armstrong JF, Pritchard JK, Bickmore WA, Hastie ND, Bard JB. The expression of the Wilms' tumour gene, WT1, in the developing mammalian embryo. *Mech Dev* 1993; 40(1-2): 85-97.
- [58] Noble JE , Bailey MJ. Quantitation of protein. *Methods Enzymol* 2009; 463:73-95.
- [59] Doughari JH, Human IS, Bennade S, Ndakidemi PA. Phytochemicals as chemotherapeutic agents and antioxidants: Possible solution to the control of

- antibiotic resistant verocytotoxin producing bacteria. *J Med Plants Res* 2009; 3(11):839-48.
- [60] Dreosti IE. Antioxidant polyphenols in tea, cocoa, and wine. *Nutrition* 2000; 16 (7-8): 692-4.
- [61] Harbourne JB FRS, Baxter H, Moss GP. A Handbook of bioactive compounds from plants. 2<sup>nd</sup> ed. UK: Taylor & Francis Ltd; 1999.
- [62] Vasco C. Phenolic compounds in Ecuadorian fruits. Doctoral Thesis. Swedish University of Agricultural Sciences, Uppsala; 2001.
- [63] Borek C. Dietary antioxidants and human cancer. *Integr Cancer Ther* 2004; 3(4): 333-41.
- [64] รัตน์ อินทรา นุ่มกรรณ์. การตรวจสอบและการสกัดแยกสารสำคัญจากสมุนไพร. กรุงเทพฯ: สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย, 2547.
- [65] Hudson BJF. Food antioxidants. UK: Elsevier Science Publisher Ltd., 1990.
- [66] Lappe JM, Travers-Gustafson D, Davies KM, Recker RR, Heaney RP. Vitamin D and calcium supplementation reduces cancer risk: results of a randomized trial. *Am J Clin Nutr* 2007; 85(6): 1586-91.
- [67] Olson JA. Carotenoids and human health. *Arch Latinoam Nutr* 1999; 49: 7s-11s.
- [68] Paganga G, Miller N, Rice-Evans CA. The polyphenolic content of fruit and vegetables and their antioxidant activities What does a serving constitute? *Free Radic Res* 1999; 30(2): 153-62.
- [69] Anuchapreeda S, Thanarattanakorn P, Sittipreechacharn S, Chanarat P, Limtrakul P. Curcumin inhibits WT1 gene expression in human leukemic K562 cells. *Acta Pharmacol Sin* 2006; 27: 360-6.
- [70] Anuchapreeda S, Tima S, Duangrat C, Limtrakul P. Effect of pure curcumin, demethoxycurcumin, and bisdemethoxycurcumin on WT1 gene expression in leukemic cell lines. *Cancer Chemother Pharmacol* 2008; 62(3): 585-94.
- [71] Kaffir lime. In Wikipedia [Online]. 2011 [cited 2016, March 29] Available: [http://en.wikipedia.org/wiki/Kaffir\\_lime](http://en.wikipedia.org/wiki/Kaffir_lime).
- [72] Manner, H.I., R.S. Baker, V. Easton Smith, and C.R. (2006). Citrus species (citrus), ver. 2.1. In: Elevitch, C.R. (ed.). Species Profiles for Pacific Island Agro forestry [Online]. 2006 [2016, March 27] Available: <http://www.traditionaltree.org>.

- [73] Kaffir lime (2011). In Wikipedia [Online]. 2011 [2011, March 27] Available: <http://th.wikipedia.org/wiki/มะกรูด>.
- [74] Kasuan N, Yunus M, Rahiman MHF, Aris RSR, Taib MN. Essential oil composition of Kaffir lime: Comparative analysis between controlled steam distillation and hydrodistillation extraction process. Proceedings of 2009 IEEE Student Conference. SCOReD. UPM Serdang, Malaysia. Sept. 2009, p. 479-82.
- [75] Chaisawadi S, Thongbutr D, Kulamai S. Clean production process of freeze dried kaffir lime powder for medicinal herb and cosmetic use. ISHS Acta Hort 2008; 786(21): 193-200.
- [76] Hongratanaworakit T, Tapaneeyasin P, Nuamlert J, Chansiri A, Hongrattanavorakit N. Development of skin whitening preparations from kaffir lime oil (*Citrus hystrix*). Planta Med 2006; 72:1044.
- [77] Foo-trakul P, Watchiradatsatien C. Development of anti-dandruff shampoo from kaffir lime which is the byproduct of food industry. Kasetsart J (Nat Sci) 2005; 39: 725-9.
- [78] Lawrence BM, Hogg JW, Terhune ST and Podimuang V. Constituents of the leaf and peel oils of *Citrus hystrix*, D.C. Phytochemistry 1971; 10(6): 1404-5.
- [79] Chanthaphon S, Chanthachum S, Hongpattarakere T. Antimicrobial activities of essential oils and crude extracts from tropical *Citrus* spp. against food-related microorganisms. Songklanakarin J Sci Technol 2008; 30(1): 125- 31.
- [80] Waikedre J, Dugay A, Barrachinac I, Herrenknecht C, Cabalion P, Fournet A. Chemical composition and antimicrobial activity of the essential oils from new caledonian citrus macroptera and citrus hystrix. Chem Biodivers 2010; 7(4): 871-7.
- [81] Tachakittirungrod S, Okonogi S, Chowwanapoonpoh S. Study on antioxidant activity of certain plants in Thailand. Mechanism of antioxidant action of guava leaf extract. Food Chem 2007; 103(2): 381-8.
- [82] Tangkanakul P, Auttaviboonkul P, Niyomwit B, Lowvitoon N, Charoenthamawat P, Trakoontivakorn G. Antioxidant capacity, total phenolic content and nutritional composition of Asian foods after thermal processing. IFRJ 2009; 16(4): 571-80.

- [83] Jantarach J, Thanaboripat D. The Efficacy of Ethyl Acetate Extract of Trichoderma Culture Broth on Growth Inhibition and Aflatoxin Production by *Aspergillus flavus* IMI 242684. KMITL Sci Tech J 2010; 10(1): 19-29.
- [84] Hutadilok-Towatana N, Chaiyamutti P, Panthong K, Mahabusarakam W, Rukachaisirikul V. Antioxidative and free radical scavenging activities of some plants used in Thai folk medicine. Pharm Biol 2006; 44(3): 221-8.
- [85] Poulose S M, Harris ED, Patil BS. Antiproliferative effects of citrus against human neuroblastoma and colonic adenocarcinoma cells. Nutr Cancer 2006; 56(1): 103-12.
- [86] Patil JR, Jayaprakasha GK, Murthy KNC, Tichy SE, Chetti MB, Patil BS. Apoptosis-mediated proliferation inhibition of human colon cancer cells by volatile principles of *Citrus aurantifolia*. Food Chem 2009; 114(4): 1351-8.
- [87] Wattenberg LW, Coccia JB. Inhibition of 4-(methylnitrosamino)-1-(3-pyridyl)-1- butanone carcinogenesis in mice by D-limonene and citrus fruit oils. Carcinogenesis 1991; 12(1): 115-7.
- [88] Murakami A, Nakamura Y, Koshimizu K, Ohigashi H. Glyceroglycolipids from Citrus hystrix, a Traditional Herb in Thailand, Potently Inhibit the Tumor-Promoting Activity of 12-O-Tetradecanoylphorbol 13-Acetate in Mouse Skin. J Agric Food Chem 1995; 43(10): 2779-83.
- [89] ยุทธพงศ์ ตามาแก้ว. ผลของสารสกัดบริสุทธิ์ที่แยกได้จากในมะกรูดต่อกลุ่มเซลล์ และการแสดงออกของโปรตีนวิล์มทูเมอร์วันในเซลล์มะเร็งเม็ดเลือดขาวเพาะเลี้ยงชนิด K562 [ภาคบันทึก]. เชียงใหม่: มหาวิทยาลัยเชียงใหม่; 2555.
- [90] Sugiyama S, Umehara K, Kuroyanagi M, Ueno A, Taki T. Studies on the differentiation inducers of myeloid leukemic cells from Citrus species. Chem Pharm Bull (Tokyo) 1993; 41(4): 714-9.
- [91] Ampasavate C, Okonogi S, Anuchapreeda S. Cytotoxicity of extracts from fruit plants against leukemic cell lines. Afr J Pharm Pharmacol 2010; 4(1): 013- 21.
- [92] E. J. Choi, Hesperetin induced G1-phase cell cycle arrest in human breast cancer MCF-7 cells: involvement of CDK4 and p21. Nutr Cancer 2007; 59(1): 115-9.
- [93] Park KI, Park HS, Nagappan A. Induction of the cell cycle arrest and apoptosis by flavonoids isolated from Korean Citrus aurantium L. in non-small-cell lung cancer cells. Food Chem 2012; 135(4): 2728-35.

- [94] Tunjung WRS, Jindrich B, Michaelisc M, Smalesc CM. Anti-Cancer Effect of Kaffir Lime (*Citrus hystrix* DC.) Leaf Extract in Cervical Cancer and Neuroblastoma Cell Lines. Procedia Chemistry 2015; 14: 465-8.



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