

BIBLIOGRAPHY

- Aditachaudhury, N. and Gupta, P.K. 1973. New pterocarpan and coumestan in the roots of *Flemingia chappar*. *Phytochemistry*. 12: 425–428.
- Ali, S., Ansari, Ka., Jafry, Ma., Kabber, H. and Diwakar, G. 2000. *Nardostachys jatamansi* protects against liver damage induced thioacetamide in rats. *J Ethnopharmacol*. 71, 3: 359-363.
- Ames, B.N., Shigenaga, M.K. and Hagen, T.M. 1993. Oxidants, antioxidants, and the degenerative diseases of aging. *Proc Natl Acad Sci*. 90: 7915-7922.
- Bae, K.H., Min, B.S., Do, D.S., Kim, N.S., Yang, G.J. and Ahn, B.Z. 1992. Screening for cytotoxicity of medicinal plants against L1210 cell. *Yakhak Hoe Chi*. 36: 491-495.
- Baser, K.H.C., Bisset, N.G. and Hylands, P.J. 1979. Protostrychnine, a new alkaloid from *Strychnos nux-vomica*. *Phytochemistry*. 18:512-514.
- Bisset, N.G., Chouhury, A.K. and Houghton, P.J. 1989. Phenolic glycosides from the fruit of *Strychnos nux-vomica*. *Phytochemistry*. 28: 1553-1554.
- Blois, M.S. 1958. Antioxidant determinations by the use of a stable free radical. *Nature*. 181: 1199-1200.
- Bohm, B.A. and Choy, J.B. 1987. Flavonoids of *Balsamorhiza deltoidea* and *Wyethia mollis*. *Biochem Syst Ecol*. 15: 541–543.
- Boonyaprapatsorn, N. and Chokchajalearnporn, A. 2000. Herbs....Traditional Plants I. Bangkok: Prachachone.
- Boonyaratavej, S., Tantayanontha, S., Kitchanachal, P., Chaichantipyuth, C., Chittawang, V. and Miles, DH. 1992. Trans-triacontyl-4-hydroxy-3-methoxycinnamate, a new compound from the plant *Bridelia ovata*. *J Nat Prod*. 55: 1761-1763.
- Boyed, M.R. 1997. The NCI in vitro anticancer drug discovery screen. Anticancer drug development guide; preclinical screening, clinical trials and approval. Humana Press: Totowa.
- Burkill, I.H. 1951. Dioscoreaceae. *Flora Malesiana*. 1: 305.
- Cáceres, A., Cabrera, O., Morales, O., Mollinedo, P. and Mendia, P. 1991.

Pharmacological properties of *Moringa oleifera*. 1: Preliminary screening for antimicrobial activity. *J Ethnopharmacol.* 33: 213-216.

Cáceres, A., Saravia, A., Rizzo, S., Zabala, L., De Leon, E. and Nave, F. 1992. Pharmacologic properties of *Moringa oleifera*. 2: Screening for antispasmodic, anti-inflammatory and diuretic activity. *J Ethnopharmacol.* 36: 233-237.

Cai, B., Nagasawa, T., Kadota, S., Hattori, M., Namba, T. and Kuraishi, Y. 1996. Processing of nux vomica. VII. Antinociceptive effects of crude alkaloids from the processed and unprocessed seeds of *Strychnos nux-vomica* in mice. *Biol Pharm Bull.* 19: 127-131.

Cai, B.C., Wang, T.S., Kurokawa, M., Shiraki, K. and Hattori, M. 1998. Cytotoxicities of alkaloids from processed and unprocessed seeds of *Strychnos nux-vomica*. *Acta Pharmacologica Sinica.* 19: 425-428.

Cardellina II, J.H., Fuller, R.W., Gamble, W.R., Westergaard, C., Boswell, J., Munro, M.H.G., Currens, M. and Boyd, M.R. 1999. Evolving strategies for the selection, dereplication and prioritization of antitumor and HIV-inhibitory natural products extracts. Dordrecht: Kluwer Academic Publishers.

Carter, S. and Livingston, R. 1982. Principle of cancer chemotherapy. New York: McGraw-Hill.

Cavin, A., Dyatmyko, W. and Hostettmann, K. 1999. Screening for Indonesian plants for antifungal and free radical scavenging activity. *Pharm Biol.* 37: 260-268.

Chan, J.M., Stampfer, M.J., Ma, J., Gann, P.H., Gaziano, J.M. and Giovannucci, E.L. 2001. Dairy products, calcium, and prostate cancer risk in the Physicians' Health Study. *Am J Clin Nutr.* 74: 549-554.

Chatterjee, A., Basak, B., Saha, M., Dutta, U., Mukhopadhyay, C., Banerji, J., Konda, Y. and Harigaya, Y. 2000. Structure and stereochemistry of Nardostachysin, a new terpenoid ester constituent of the rhizomes of *Nardostachys jatamansi*. *J Nat Prod.* 63: 1531-1533.

Ching, L.S. and Mohamed, S. 2001. Alpha-tocopherol content in 62 edible tropical plants. *J Agric Food Chem.* 49: 3101-3105.

- Chung, M-S., Kim, N-C., Long, L., Shamoun, L., Ahmad, W-Y. Sagrero-Nieves, L., Kardono, L.B.S., Kennelly, E.J., Pezzuto, J.M., Soejarto, D.D. and Kinghorn, A.D. 1998. Dereplication of saccharide and polyol constituents of candidate sweet-tasting plants: Isolation of the sesquiterpene glycoside mukurozioside IIb as a sweet principle of *Sapindus rarak*. *Phytochem Analysis*. 8: 49-54.
- Clark, L.C., Dalkin, B., Krongrad, A., Combs, G.F.Jr., Turnbull, B.W., Slate, E.H., Witherington, R., Herlong, J.H., Janosko, E., Carpenter, D., Borosso, C., Falk, S. and Rounder, J. 1998. Decreased incidence of prostate cancer with selenium supplementation: results of a double-blind cancer prevention trial. *Br J Urol*. 81: 730-734.
- Corsaro, M.M., Giudicianni, I., Lanzetta, R., Marciano, C.E., Monaco, P. and Parrilli, M. 1995. Polysacchrides from seeds of *Strychnos* species. *Phytochemistry*. 39: 1377-1380.
- Costa-Lotufu, L.V., Hassan Khan, M.T., Ather, A., Wilka, A.V., Jimenez, P.C., Pessoa, C., Amaral de Moraes, A. and Odorico de Moraes, M. 2005. Studies of the anticancer potential of plants used in Bangladeshi folk medicine. *J Ethnopharmacol*. 99: 21-30.
- Cragg, G.M., Newman, D.J., Weiss, R.B. 1997. Natural products in drug discovery and development. *J Nat Prod*. 60: 52-60.
- Cui, B., Nakamura, M., Kinjo, J. and Nohara, T. 1993. Chemical constituents of *Astragali semen*. *Chem Pharm Bull*. 41: 178-182.
- Davidson, P. and Gabbay, J. 2004. Should mass screening for prostate cancer be introduced at the national level ?. WHO Regional Office for Europe's Health Evidence Network (HEN).
- DeadEnd™ Colorimetric TUNEL System. 2005. Promega. *Technical Bulletin*. No. 199. Madison: USA.
- Debelmas, A.M., Hache, J. 1976. Toxicity of several medicinal plants of nepal including some behavioral and central nervous system effects. *Plant Med Phytother*. 10: 128-138.
- De Fátima Navarro, D., De Souza, M.M., Neto, R.A., Golin, V., Niero, R., Yunes, R.A., Delle Monache, F. and Cechinel Filho, V. 2002. Phytochemical

- analysis and analgesic properties of *Curcuma zedoaria* grown in Brazil. *Phytomedicine*. 9: 427-432.
- Dianpeng, L., Mingan, O., Jansakul, C. and Chongren, Y. 1999. Two isoflavonoid glycosides from *Derris scandens*. *Yaoxue Xuebao*. 34: 43-45.
- Dorai, T., Cao, Y-C., Dorai, B., Buttyan, R. and Katz, A.E. 2001. Therapeutic potential of curcumin in human prostate cancer. III. Curcumin inhibits proliferation, induced apoptosis, and inhibits angiogenesis of LNCaP prostate cancer cells in vivo. *The Prostate*. 47: 293-303 (online). Available: <http://www3.interscience.wiley.com/cgi-bin/abstract/82501963/ABSTRACT> (2006, January 17).
- Evan, W.C. 2002. Pharmacognosy. 15th edition. London: Harcourt Publisher Limited.
- Faizi, S., Siddiqui, B.S., Saleem, R., Aftab, K., Shaheen, F. and Gilani, A.H. 1998. Hypotensive constituents from the pods of *Moringa oleifera*. *Planta Med*. 64: 225-228.
- Faizi, S., Siddiqui, B.S., Saleem, R., Siddiqui, S., Aftab, K. and Gilani, A.H. 1994. Isolation and structure elucidation of new nitrile and mustard oil glycosides from *Moringa oleifera* and their effect on blood pressure. *J Nat Prod*. 57: 1256-1261.
- Faizi, S., Siddiqui, B.S., Saleem, R., Siddiqui, S., Aftab, K. and Gilani, A.H. 1995. Fully acetylated carbamate and hypotensive thiocarbamate glycosides from *Moringa oleifera*. *Phytochemistry*. 38: 957-963.
- Falshaw, C.P., Harmer, R.A., Ollis, W.D. and Wheeler, R.E. 1969. Natural occurrence of 3-aryl-4-hydroxycoumarins. Part II. Phytochemical examination of *Derris scandens* (Roxb.) Benth. *J Chem Soc C Org*. 3: 374-382.
- Farnsworth, N.R., Akerele, O., Bingel, A.S., Soejarto, D.D. and Guo, Z. 1985. Medicinal plants in therapy. *Bull WHO*. 63: 965-981.
- Farnsworth, N.R. and Bunyapraphatsara, N. 1992. Thai Medicinal Plants: Plant Recommended for Primary Health Care System. Bangkok: Prachachon.
- Ferlay, J., Bray, F., Pisani, P. and Parkin, D.M. 2001. Globocan 2000: cancer incidence, mortality and prevalence worldwide. Version 1.0. Lyon, International Agency for Research on Cancer, 2001 (IARC CancerBase No. 5) (online). Available: <http://www.dep.iarc.fr/globocan/globocan.html>

(2004, November 13)

- Frédérich, M., Choi, Y.H., Verpoorte, R. 2003. Quantitative analysis of strychnine and brucine in *Strychnos nux-vomica* using ¹H-NMR. *Planta Medica*. 69: 1169-1171.
- Freshney, R.I. 1994. Culture of animal cells. A manual of basic technique. 3rd ed., New York: John Wiley and Sons, Inc.
- Fujita, M., Nagai, M. and Inoue, T. 1982. Carbon-13 nuclear magnetic resonance spectra study. Effect of O-methylation of ortho-substituted phenols on the aryl carbon shielding and its application to interpretation of the spectra of some flavonoids. *Chem Pharm Bull*. 30: 1151–1156.
- Funayama, S. and Hikin, H. 1981. Hypotensive principles from plants. *Heterocycles*. 15: 1239-1256.
- Garcia, M., Kano, M.H.C., Vieira, D.M., Do Nascimento, M.C. and Mors, W.B. 1986. Isoflavonoids from *Derris spruceana*. *Phytochemistry*. 25: 2425–2427.
- Gaudin, N. 2003. Global cancer rates could increase by 50% to 15 million by 2020. International Agency for Research on Cancer. World Health Organization (online). Available: <http://www.who.int/mediacentre/news/releases/2003/pr27/en/> (2004, November 13)
- George, M., Pandalai, K.M. 1949. Investigations on plant antibiotics part IV. Further search for antibiotic substances in Indian medicinal plants. *Indian J Med Res*. 37: 169-181.
- Ghasi, S., Nwobodo, E., Ofili, J.O. 2000. Hypocholesterolemic effects of crude extract of leaf of *Moringa oleifera* Lam in high-fat diet fed wistar rats. *J Ethnopharmacol*. 69: 21-25.
- Gilloteaux, J., Jamison, J.M., Arnold, D., Ervin, E., Eckroat, L., Docherty, J.J., Neal, D. and Summers, J.L. 1998. Cancer cell necrosis by autschizis: synergism of antitumor activity of vitamin C: vitamin K3 on human bladder carcinoma T24 cells. *Scanning*. 20: 564-575.
- Goel, A., Boland, C.R. and Chauhan, D.P. 2001. Specific inhibition of Cyclooxygenase-2 (COX-2) expression by dietary curcumin in HT-29 human colon cancer cells. *Cancer Lett*. 172: 111-118.
- Gordon, M.H. 1996. Dietary antioxidants in disease prevention. *Nat Prod rep*. 13:

265-273.

- Grieve, M. 2005. Botanical.com: A Modern Herbal (online). Available: <http://www.botanical.com/botanical/mgmh/n/nuxvom08.html> (2005, October 10)
- Guang, W., Fukushi, T., Hostettmann, K., Tahara, S. 1998. Isoflavonoid glycosides from *Eriosema tuberosum*. *Phytochemistry*. 49: 251–254.
- Guevara, A.P., Vargas, C., Sakurai, H., Fujiwara, Y., Hashimoto, K., Maoka, T., Kozuka, M., Ito, Y., Tokuda, H. and Nishino, H. 1999. An antitumor promoter from *Moringa oleifera* Lam. *Mutat Res*. 440: 181-188.
- Gyeltshen, N., Tenzin, K., Rinzin and Phuntsho, T. 2005. Multipurpose Trees, Shrubs and Climbers Survey Reports. Joint Publication of RNR-RC, Jakar and Dzongkhag Forest, Zhemgang. Available: www.moa.gov.bt/rnrc/rcjakar/orig/for/multipurpose.pdf (2005, October 2)
- Hakamatsuka, T., Ebizuka, Y. and Sankawa, U. 1991. Induced isoflavonoids from copper chloride-treated stems of *Pueraria lobata*. *Phytochemistry*. 30: 1481–1482.
- Halliwell, B. and Gutteridge, J.M.C. 1988. Free radicals in biology and medicine 2. Oxford: Charendon Press.
- Halliwell, B. and Gutteridge, J.M.C. 1999. Free radicals in biology and medicine 3. Oxford: Charendon Press.
- Heinonen, O.P., Albanes, D., Virtamo, J., Taylor, P.R., Huttunen, J.K., Hartman, A.M., Haapakoski, J., Malila, N., Rautalahti, M., Ripatti, S., Maenpaa, H., Teerenhovi, L., Koss, L., Virolainen, M. and Edwards, B.K. 1998. Prostate cancer and supplementation with alpha-tocopherol and beta-carotene: incidence and mortality in a controlled trial. *J Natl Cancer Inst*. 90: 440-446.
- Hengartner, M.C. 2000. The biochemistry of apoptosis. *Nature*. 407: 770-776.
- Herr, I. and Debatin, K.M. 2001. Cellular stress response and apoptosis in cancer therapy. *Blood*. 98:2603-2614.
- Hikono, H., Agatsuma, K. and Takemoto, T. 1968. Structure of curzerenone, epicurzerenone and isofuranogermacrene (curzerene). *Tetrahedron Lett*. 24: 2855-2858.
- Hikino, H., Konno, C., Agatsuma, K., Takemoto, T., Horibe, I., Tori, K., Ueyama, M.

- and Takeda, K. 1975. Structure, configuration, conformation and thermal rearrangements of furanodienone, isofuranodienone, curzerenone, epicurzerenone and pyrocurzerenone, sesquiterpenoids of *Curcuma zedoaria*. *J Chem Soc.* 1: 478-484.
- Hong, C.H., Kim, Y. and Lee, S.K. 2001. Sesquiterpenoids from the rhizome of *Curcuma zedoaria*. *Arch Pharm Res.* 24: 424-426.
- Hong, C.H., Noh, M.S., Lee, W.Y. and Lee, S.K. 2002a. Inhibitory effects of natural sesquiterpenoids isolated from the rhizomes of *Curcuma zedoaria* on prostaglandin E₂ and nitric oxide production. *Planta Medica.* 68: 545-547.
- Hong, C.H., Hur, S.K., Oh, O-J., Kim, S.S., Nam, K.A. and Lee, S.K. 2002b. Evaluation of natural products on inhibition of inducible cyclooxygenase (COX-2) and nitric oxide synthase (iNOS) in cultured mouse macrophage cells. *J Ethnopharmacol.* 83: 153-159.
- Hooker, J.D. 1875. The Flora of British India. Volume I. London: L. REEVE & CO., Ltd.
- Hooker, J.D. 1879. The Flora of British India. Volume II. London: L. REEVE & CO., Ltd.
- Hooker, J.D. 1881. The Flora of British India. Volume III. London: L. REEVE & CO., Ltd.
- Hooker, J.D. 1883. The Flora of British India. Volume IV. London: L. REEVE & CO., Ltd.
- Hooker, J.D. 1894. The Flora of British India. Volume VI. London: L. REEVE & CO., Ltd.
- Houghton, P.J. 1995. The role of plants in traditional medicine and current therapy. *J Altern Complem Med.* 1: 131-143.
- Houghton, P.J. 2000. Using bioassay. *Pharm J.* 246: 701-703.
- Hoult, J.R.S., Houghton, P.J., Laupattarakasem, P. 1997. Investigation of four Thai medicinal plants for inhibition of pro-inflammatory eicosanoid synthesis in activated leukocytes. *J Pharm Pharmacol Suppl.* 49: 218.
- Hsing, A.W., Tsao, L. and Devesa, S.S. 2000. International trends and patterns of prostate cancer incidence and mortality. *Int J Cancer.* 85: 60-67.
- Hsu, M.J., Cheng, J.S. and Huang, H.C. 2000. Effect of saikosaponin, a triterpene

saponin, on apoptosis in lymphocytes: association with *c-myc*, *p53*, and *bcl-2* mRNA. *Br J Pharmacol.* 131: 1285-1293 (online). Available: <http://www.nature.com/bjp/journal/v131/n7/full/073559a.html> (2006, January 17).

International Agency for Research on Cancer. World Health Organization (online). Available: <http://www.who.int/mediacentre/news/releases/2003/pr27/en/> (2004, November 13)

Itharat, A., Singchangchai, P. and Ratanasuwan, P. 1998. Wisdom of Southern Thai traditional doctors. Research Report of Prince of Songkla University, Songkhla.

Itharat, A., Houghton, P., Eno-Ammguae, E., Burke, P., Sampson, P. and Raman, A. 2001. Cytotoxicity activity of Thai medicinal plants called Hua-Khao-Yen used traditionally to threat cancer. British Pharmaceutical Conference 2001 Abstract book, Glasglow Scotland.

Itharat, A. 2002. Studies on bioactivity and compound of five Thai medicinal plants called 'HUA-KHAO-YEN'. Pharmacognosy Research Laboratories. Department of Pharmacy. King's College London. University of London.

Itharat, A., Plubrukarn, A., Kongsaree, P., Bui, T., Keawpradub, N. and Houghton, P.J. 2003. Dioscorealides and dioscoreanone, novel cytotoxic naphthofuranox- epins, and 1,4-phenanthraquinone from *Dioscorea membranacea* Pierre. *Org Lett.* 5: 2879-2882.

Itokawa, H., Watanabe, K., Mihara, K. and Takeya, K. 1982. Screening test for antitumor activity of crude drugs (2). *Shoyakugaku Zasshi.* 36: 145-149.

Itokawa, H. 1988. Research for antineoplastic drugs from natural sources, especially from higher plants. *Shoyakugaku Zasshi.* 108: 824-841.

Jang, M.K., Sohn, D.H., Ryu, J-H. 2001. A curcuminoid and sesquiterpenes as inhibitors of macrophage TNF- α release from *Curcuma zedoaria*. *Planta med.* 67: 550-552.

Kanchanapoom, T., Kasai, R. and Yamasaki, K. 2001. Acetylated triterpene saponins from the Thai medicinal plant, *Sapindus emarginatus*. *Chem Pharm Bull.* 49: 1195-1197.

- Keawpradub, N., Houghton, P.J., Amooqyaye, E.E., Burke, P.J., 1997. Activity of extracts and alkaloids of Thai *Alstonia* species against human lung cancer cell lines. *Planta Medica*. 63: 97-101.
- Kernan, M.R. Sendl, A., Chen, J.L., Jolad, S.D., Blanc, P., Murphy, J.T., Stoddart, C.A., Nanakorn, W., Balick, M.J. and Rozhon, E.J. 1997. Two new ligands with activity against influenza virus from the medicinal plant *Rhinacanthus nasutus*. *J Nat Prod*. 60:635-637.
- Kikuchi, M., Suzuki, K. and Akiyama, H. 1989. Structural analysis of constituents of leaves of *Cytisus scoparius* Link II. Annual Report of the Tohoku College of Pharmacy. 36: 105-109.
- Kim, K.I., Kim, J.W., Hong, B.S., Shin, D.H., Cho, H.Y., Kim, H.K. and Yang, H.C. 2000. Antitumor, genotoxicity and anticlastogenic activities of polysaccharide from *Curcuma zedoaria*. *Mol Cells*. 10: 392-298.
- Kirtikar, K., R. and Basu, B.B. 1980. Indian Medicinal Plants. Volume 4. Deihi: Jayyed Press.
- Kodama, O., Ichikawa, H., Akatsuka, T., Santisopasri, V., Kato, A. and Hayashi, Y. 1993. Isolation and identification of an antifungal naphthopyran derivative from *Rhinacanthus nasutus*. *J Nat Prod*. 56: 292-294.
- Kosuge, T., Yokota, M., Sugiyama, K., Yamamoto, T., Ni, M.Y. and Yan, S.C. 1985. Studies on antitumor activities and antitumor principles of Chinese herds. I. Antitumor activities of Chinese herbs. *Yakugaku Zasshi*. 105: 791-795.
- Kosung, I. Yokota, M., Sugiyama, K., Yamamoto, T., Ni, M.Y. and Yan, S.C. 1995. Studies on antitumor activities and antitumor principles of Chinese herbs. I. Antitumor activities of Chinese herbs. *Yakugaku Zasshi*. 105: 791-795.
- Kouno, I. and Kawano, N. 1985. Structure of a guaine from *Curcuma zedoaria*. *Phytochemistry*. 24: 1845-1847.
- Koyama, T. 1975. Flora of Thailand. Volume 2. Bangkok: Applied Scientific Research Cooperation of Thailand.
- Kumi-Diaka, J. 2002. Chemosensitivity of human prostate cancer cells PC3 and LNCaP to genistein isoflavone and β -lapachone. *Biol Cell*. 94: 37-44.

- Laupattarakasem, P., Houghton, P.J., Hoult, J.R.S. and Itharat, A. 2003. An evaluation of the activity related to inflammation of four plants used in Thailand to treat arthritis. *J Ethnopharmacol.* 85: 207-215.
- Lee, H. and Lin, J.Y. 1988. Antimutagenic activity of extracts from anticancer drugs in Chinese medicine. *Mutat Res.* 204: 229-234.
- Lee, S.K., Hong, C.H., Huh, S.K., Kim, S.S., Oh, O.J., Min, H.Y., Park, K.K., Chung, W.Y. and Hwang, J.K. 2002. Suppressive effect of natural sesquiterpenoids on inducible cyclooxygenase-2 (COX-2) and nitric oxide synthase (iNOS) activity in mouse macrophage cells. *J Environ Pathol Tox.* 21: 141-148.
- Lin, Y.L., Chen, Y.L. and Kuo, Y.H. 1991. Three new flavonoids, 3'-methoxylupinipolin laxifolin, and isolaxifolin from the root of *Derris laxiflora* Benth. *Chem Pharm Bull.* 39: 3135-3183.
- Lipipun, V., Kurokawa, M., Suttisri, R., Taweechotipatr, P., Pramyothin, P., Hattori, M. and Shiraki, K. 2003. Efficacy of Thai medicinal plant extracts against herpes simplex virus type 1 infection in vitro and in vivo. *Antivir Res.* 60: 175-180.
- Litaka, M., Kakinuma, S., Fujimaki, S., Oosuga, I., Fujita, T., Yamanaka, K., Wada, S. and Katayama, S. 2001. Induction of apoptosis and necrosis by zinc in human thyroid cancer cell lines. *J Endocrinol.* 169: 417-424.
- Mahabusarakam, W., Deachathai, S., Phongpaichit, S., Jansakul, C. and Taylor, W.C. 2004. A bazil and isoflavone derivatives from *Derris scandens* Benth. *Phytochemistry.* 65: 1185-1191.
- Markham, K.R. and Mabry, T.J. 1968. The identification of twenty-three 5-deoxy- and ten 5-hydroxy-flavonoids from *Baptisia lecontei* (Leguminosae). *Phytochemistry.* 7: 791-801.
- Mates, J.M. and Sanchez-Jemenez, F.M. 2000. Role of reactive oxygen species in apoptosis: implications for cancer therapy. *Int J Biochem Cell B.* 32: 157-170.
- Mathers, C.D., Boschi-Pinto, C., Lopez A.D. and Murray, C.JL. 2001. Cancer incidence, mortality and survival by site for 14 regions of the world. World Health Organization.

- Matsuda, H., Ninomiya K., Morikawa, T. and Yoshikawa, M. 1998. Inhibitory effect and action mechanism of sesquiterpenes from zedoariae rhizomea on *D*-galactosamine/lipopolysaccharide-induced liver injury. *Bioorg Med Chem Lett.* 8: 339-344.
- Matsuda, H., Morikawa, T., Toguchida, I., Ninomiya, K. and Yoshikawa, M. 2001. Medicinal Foodstuffs. XXVII. Inhibitors of nitric oxide production and new sesquiterpenes, zedoarofuran, 4-epicurcumenol, neocurcumenol, gajutsulactones A and B, zedoarolides A and B from zedoariae rhizomea. *Chem Pharm Bull.* 49: 1558-1566.
- Matsuda, H., Morikawa, T., Ninomiya, K. and Yoshikawa, M. 2001a. Hepatoprotective constituents from zedoaria rhizome: absolute stereostructures of three new carabrane-type sesquiterpenes, curcumenolactones A, B and C. *Bioorg Med Chem.* 9: 909-916.
- Matsuda, H., Morikawa, T., Ninomiya, K. and Yoshikawa, M. 2001b. Carabranetype sesquiterpene and vasorelaxant-active sesquiterpenes from zedoariae rhizoma. *Tetrahedron.* 57: 8443-8453.
- Matthes, H.W.D., Luu, B. and Ourisson, G. 1980. Cytotoxic components of *Zingiber zerumbet*, *Curcuma zedoaria* and *C. domestica*. *Phytochemistry.* 19: 2643-2650.
- Mau, J.L., Lai, E.Y.C., Wang, N.P., Chen, C.C., Chang, C.H. and Chyau, C.C. 2003. Composition and antioxidant activity of the essential oil from *Curcuma zedoaria*. *Food Chem.* 82: 583-591.
- Maximo, P., Lourenco, A., Feio, S.S. and Roseiro, J.C. 2000. Flavonoids from *Ulex* species. *J Biosci.* 55: 506-510.
- McGill, G. and Fisher, D.E. 1997. Apoptosis in tumorigenesis and cancer therapy. *Front Biosci.* 2: 353-379.
- Michaud, D.S., Augustsson, K., Rimm, E.B., Stampfer, M.J., Willet, W.C. and Giovannucci, E. 2001. A prospective study on intake of animal products and risk of prostate cancer. *Cancer Cause Control.* 12: 557-567.
- Miller, J.D. 2004. Necrosis used to kill cancer. *The Scientist magazine of the life sciences.* 5: 2004051-01 (online). Available: <http://www.the-scientist.com/article/display/22177/> (2006, January 17).

- Mishra, S., Chaturvedi, R.V., Tripathi, S.C., 1995. The fungitoxic effect of the essential oil of the herb *Nardostachys jatamansi* DC. *Trop Agr(Trinidad)*. 72, 1: 48-52.
- Mitrocotsa, D., Skaltsounis, A.L., Mitaku, S., Harvala, C. and Tillequin, F. 1999. Flavonoid and terpene glycosides from European Ebenus species. *Biochem Syst Ecol*. 27: 305-307.
- Morikawa, T., Matsuda, H., Ninomiya, K. and Yoshikawa, M. 2002. Medicinal Foodstuffs. XXIX. Potent protective effects of sesquiterpenes and curcumin from zedoariae rhizome on liver injury induced by D-galactosamine/lipopoly-saccharide or tumor necrosis factor- α . *Biol Pharm Bull*. 25: 627-631.
- Murakami, A., Kitazono, Y., Jiwajinda, S., Koshimizu, K. and Ohigashi, H. 1998. Niaziminin, a thiocarbamate from the leaves of *Moringa oleifera*, holds a strict structural requirement for inhibition of tumor-promoter-induced Epstein-Barr virus activation. *Planta Med*. 64: 319-323.
- Nam, S.H. and Yang, M.S. 1995. Isolation of cytotoxic substances from *Chrysanthemum boreale* M. *Han'Guk Nonghwa Hakhoe Chi*. 38: 273-277.
- Nambiar, V.S., Bhadalkar, K. and Daxini, M. 2003. Drumstick leaves as source of vitamin A in ICDS-SEP. *Indian J Pediatr*. 70: 383-387.
- Nakanishi, K., Sasaki, SI., Kiang, A.K., Goh, J., Kakisawa, H., Ohashi, M., Goto, M., Watanabe, J.M., Yokotani, H., Matsumura, C. and Togashi, M. 1965. Phytochemical survey of malaysian plants preliminary chemical and pharmacological screening. *Chem Pharm Bull*. 7: 882-890.
- National statistical office. 2003. Key Statistics of Thailand 2003. Ministry of Information and Communication Technology.
- Ndiaye, M., Dieyi, A.M., Mariko, F., Tall, A., Sall Diallo, A. and Faye, B. 2002. Contribution to the study of the anti-inflammatory activity of *Moringa oleifera* (Moringaceae). *B Soc Med Fr*. 47: 210-212.
- Nicoletti, C.G.M., Messana, I. and Marini Bettolo, G.B. 1979. On the alkaloids of strychnos-XXXI: 15-hydroxystrychnine, a new alkaloid from *Strychnos nux-vomica*. *Tetrahedron*. 35: 2545-2549.

- Obara, Y. and Matsubara, H. 1981. Isolation and identification of (-)-maackiain from Derris roots. *Meiji Daigaku Nogakubu Gakujutsu Hokoku*. 17: 40-41.
- Pari, L. and Kumar, N.A. 2002. Hepatoprotective activity of *Moringa oleifera* on antitubercular drug-induced liver damage in rat. *J Med Food*. 5: 171-177.
- Park, J.G., Hyun, J.W., Lim, K.H., Shin, J.E., Won, Y.J., Yi, Y.D., Shin, K.H., Chang, I.M. and Woo, W.S. 1993. Antineoplastic effect of extracts from traditional medicinal plants. *Korean J Pharmacog*. 24: 223-230.
- Parkin, D.M., Muir, C.S., Whelan, S.L., Ferlay, J., Raymond, L. and Young, J. (eds) 1997. Cancer Incidence in five Continents. Vol. 7. IACR Scientific Publications. International Agency for Research on Cancer, Lyon.
- Parkin, D.M. 2001. Global cancer statistics in the year 2000. *Lancet Oncol*. 2: 533-543.
- Parthasarathy, M.R., Seshadri, T.R. and Varma, R.S. 1976. New isoflavone glycosides from *Dalbergia paniculata*. *Phytochemistry*. 15: 1025-1027.
- Perry, L.M. 1980. Medicinal plants of east and southeast Asia, Attributed properties and uses. Cambridge: The M.I.T. press.
- Pezzuto, J.M. 1997. Plant-derived anticancer agents. *Biochem Pharmacol*. 53: 121-133.
- Pornsiriprasert, D., Picha, P., Preechanukul, K., Ketsa-ard, K., Temcharoen, P., Chalermpanyakorn, P. and Chulsiri, MU. 1986. Studies on the antitumor activity of the Thai folkloric remedy: traditional plants. *Asian Pharm Suppl*. 68:124-127.
- Punturee, K., Wild, C.P. and Vinitketkumneun, U. 2004. Thai Medicinal plants modulate nitric oxide and tumor necrosis factor- α in J774.2 mouse macrophages. *J Ethnopharmacol*. 95: 183-189.
- Purseglove, J.W., Brown, E.G., Green, C.L. and Robin, S.R.J. 1981. Spices. Volume 2. New York: Longman Inc.
- Ramesh, N., Viswanathan, M.B., Saraswathy, A., Balakrishna, K., Brindha, P. and Lakshmanaperumalsamy, P. Phytochemical and antimicrobial studies on *Drynaria quercifolia*. *Fitoterapia*. 72: 934-936.
- Rao, M.N., David Krupadanam, G.L. and Srimannarayana, G. 1994. Four isoflavones and two 3-aryl coumarins from stems of *Derris scandens*. *Phytochemistry*.

37: 267-269.

- Rücker, G., Tautges, J., Maheswari, M.L. and Saxena, D.B. 1976. Norsenchelanone- α and β -patchoulenes and patchouli alcohol from *Nardostachys jatamansi*. *Phytochemistry*. 15: 224.
- Rujjanawate, J., Kanjanapothi, D. and Amonlerdpison, D. 2005. Analgesic effect of *Sapindus rarak* pericarp extract. *J Trop Med Plant*. 5 (online). Available: <http://www.tropmedplants.com/article.php?aid=156> (2005, November 19).
- Rukachaisirkul, V., Sukpondma, Y., Jansakul, C. and Taylor, W.C. 2002. Isoflavone glycosides from *Derris scandens*. *Phytochemistry*. 60: 827-834.
- Sakui, N., Huroyanagi, M., Ishitobi, Y., Sato, M. and Ueno, A. 1992. Biotransformation of sesquiterpenes by cultured cells of *Curcuma zedoaria*. *Phytochemistry*. 31: 143-147.
- Sang, Y.S. and Min, Z.D. 2000. Chemical constituents of *Pueraria omeiensis*. *Tanget Wang Zhongguo Yaoke Daxue Xuebao*. 31: 408-410.
- Saralamp, P., Chuakul, W., Tamsiririrkkul, R. and Clayton, T. 2000. Medicinal Plants in Thailand. Volume 1. Bangkok: Amarin Printing and Publishing Public Co.Ltd.
- Sastry, S.D., Maheswari, M.L., Chakravarti, K.K. and Bhattacharyya, S.C. 1967a. The structure of calarenol. *Tetrahedron*. 23: 1997-2000.
- Sastry, S.D., Maheswari, M.L., Chakravarti, K.K. and Bhattacharyya, S.C. 1967b. The structure of calarenol. *Tetrahedron*. 23: 2491-2293.
- Schuurman, A.G., van den Brandt, P.A., Dorant, E. and Goldohm, R.A. 1999. Animal products, calcium and protein and prostate cancer risk in The Netherlands Cohort Study. *Br J Cancer*. 80: 1107-1113.
- Sekien, T., Inagaki, M., Ikegami, F., Fujii, Y. and Ruangrunsi, N. 1999. Six diprenylisoflavones, derrisisoflavones A-F, from *Derris scandens*. *Phytochemistry*. 52: 87-94.
- Sen, S., Sharma, H. and Singh, N. 2005. Curcumin enhances Vinorelbine mediated apoptosis in NSCLC cells by the mitochondrial pathway. *Biochem Bioph Res Co*. 331: 1245-1252.
- Sendl, A., Chen, J.L., Jolad, S.D., Stoddart, C., Rozhon, E. and Kernan, M. 1996. Two new naphthoquinones with antiviral activity from *Rhinacanthus*

nasutus. J Nat Prod. 59: 808-811.

- Shanbhag, S.N., Mesta, C.K., Maheshwari, M.L., Paknikar, S.K. and Bhattacharyya, S.C. 1964. Jatamansin, a new terpenic coumarin from *Nardostachys jatamansi*. *Tetrahedron.* 20: 2605-2615.
- Shanbhag, S.N., Mesta, C.K., Maheshwari, M.L. and Bhattacharyya, S.C. 1965. Constituents of *Nardostachys jatamansi* and synthesis of (\pm) dihydrosamidin and visnadin from jatamansin. *Tetrahedron.* 21: 3591-3597.
- Shibuya, H., Hamamoto, Y., Cai, Y. and Kitagawa, I. 1987. A reinvestigation of the structure of zederone, a furanogermacrane-type sesquiterpene from zedoary. *Chem Pharm Bull.* 35: 924-927.
- Shiobara, Y., Asakawa, Y., Kodama, M., Yasuda, K. and Takemoto, T. 1985. Curcumenone, curcumanolide A and curcumanolide B, three sesquiterpenoids from *Curcuma zedoaria*. *Phytochemistry.* 24: 2629-2633.
- Shoda, F.G. and Thomas, M. 2001. Study of antidiarrhoeal activity of four medicinal plants in castor-oil induced diarrhoea. *J Ethnopharmacol.* 76: 73-76.
- Siddhuraju, P. and Becker, K. 2003. Antioxidant properties of various solvent extracts of total phenolic constituents from three different agroclimatic origins of drumstick tree (*Moringa oleifera* Lam.) leaves. *J Agric Food Chem.* 51: 2144-2155.
- Sindhwani, P., Hampton, J.A., Baig, M., Keck, R. and Selman, S.H. 2000. Curcumin: a food spice with cytotoxic activity against urinary bladder cancer. *J Am Coll Surg.* 191: s94-s95.
- Skehan, P., Storeng, R., Scudiero, D., Monks, A., Mc Mahon, J., Vistica, D., Warren, J.T., Bokesch, H., Kenney, S. and Boyd, M.R. 1990. New colorimetric cytotoxicity assay for anticancer-drug screening. *J Natl Cancer Inst.* 82: 1107-1112.
- Smit, H.F., Woerdenbag, H.J. Singh, R.H., Meulenbeld, G.J., Labadie, R.P. and Zwaving, J.H. 1995. Ayurvedic herbal drugs with possible cytotoxic activity. *J Ethnopharmacol.* 47: 75-84.
- Smitinand T. 1985. Thai Forest Bulletin (Botany), Forest Herbarium, Royal forest Department. Bangkok: The Polpunt Prining Company Limited.

- Smitinand, T. and Larsen, K. 1984. Flora of Thailand. The Forest Herbarium, Royal Forest Department. Bangkok: The Chutima Press.
- Smitinand, T. and Larsen, K. 1989. Flora of Thailand. The Forest Herbarium, Royal Forest Department. Bangkok: The Chutima Press.
- Smitinand, T. and Larsen, K. 2005. Flora of Thailand. The Forest Herbarium, Royal Forest Department (online). Available: <http://www.nationaalherbarium.nl/thaieuph/ThBridelia.htm> (2005, March 19)
- Sriwanthana, B. and Chavalittumrong, P. 2001. In vitro effect of *Derris scandens* on normal lymphocyte proliferation and its activities on natural killer cells in normals and HIV-1 infected patients. *J Ethnopharmacol.* 76: 125-129.
- Stanley, H.U.I. 2001. Health and Physical Activity in Hongkong: A Review. Hong Kong: The Chinese University of Hongkong.
- Statistical annex. 2002. The World Health Report. World Health Organization (WHO) (online). Available: http://www.who.int/whr/2002/en/whr2002_annex2.pdf. (2005, March 23)
- Statistical annex. 2004. The World Health Report. World Health Organization (WHO) (online). Available: http://www.who.int/whr/2004/en/whr2004_annex2.pdf. (2005, March 23)
- Subcharoen, P. 1998. Anticancer: Thai traditional medicine as alternative self care for treated cancer patients. Bangkok: Thai Traditional Medicine Institute, Ministry of public Health.
- Subramanian, N.S. and Nagarajan, S. 1981. Phytochemical studies on the flower of *Rhinacanthus nasutus*. *J Indian Chem Soc.* 58: 926-927.
- Suffness, M. and Pezzuto, J.M. 1991. Assays related to cancer drug discovery. Method in Plant Biochemistry. London: Academic Press.
- Sukdayan, J., Preechakul, D., Chaaiphemsak, P. 1985. The assay of diosgenin in plants of Dioscoreaceae. Undergraduate Special Project Report. Bangkok: Thailand
- Supatanakul, W., Boonmalison, D., Chaimomgkol, S. 1985. Exploration and collection of Dioscorea native to Thailand. Bangkok: Thailand Institute of Scientific and Technological Research.
- Syu, W.J., Shen, C.C., Don, M.J., Ou, J.C., Lee, G.H. and Sun, C.M., 1998.

- Cytotoxicity of curcuminoids and some novel compounds from *Curcuma zedoaria*. *J Nat Prod.* 61, 1531-1534.
- Tahara, S., Katagiri, Y., Ingham, J.L. and Mizutani, J. 1994. Prenylated flavonoids in the roots of yellow lupin. *Phytochemistry.* 36: 1261-1271.
- Tang, W. and Eisenbrand, G. 1992. Chinese drugs of plant origin. Berlin: Springer-Verlag.
- Tewtrakul, S., Miyashiro, H., Naramura, N., Hattori, M., Kawahata, T., Otake, T., Yoshinaga, T., Fujiwara, T., Supavita, T., Yuenyongsawad, S., Rattanasuwan, P. and Dej Adisai, S. 2003. HIV-1 integrase inhibitory substances from *coleus parvifolius*. *Phytother Res.* 17: 232-239.
- The government Pharmaceutical Organization. 2005. Appetizing drug (online). Available: www.gpo.or.th/herbal/group14/group141.htm (2005, October 8).
- The Stationery Office. 1998. Nutritional Aspects of the Development of Cancer. Report of the Working Group on Diet and Cancer of the Committee on Medical Aspects of Food and Nutrition Policy. London. (Report on Health and Social Subjects, No. 48).
- Thirumurugan, R.S., Kavimani, S. and Srivastava, R.S. 2000. Antitumor activity of rhinacanthone a against Dalton's ascite lymphoma. *Bio Pharm Bull.* 23: 1438-1439.
- Thurnham, D.I. 1993. Chemical aspects and biological mechanisms of anticancer nutrients in plant foods. Cambridge: Bookcraft.
- Tripathi, Y.B., Pandey, E. and Dubey, G.P. 1995. Antioxidant property of *Hypericum perforatum* (L.) of India origin and its comparison with established medhya rasayanas of Ayurvedic medicine. *Curr Sci.* 76: 27-29.
- Tripathi, Y.B. and Chaurasia, S. 2000. Interaction of *Strychnos nux-vomica* products and iron: with reference to lipid peroxidation. *Phytomedicine.* 7: 523-528.
- Tsaknis, J., Lalas, S., Gergis, V., Dourtoglou, V. and Spiliotis, V. 1999. Characterization of *Moringa oleifera* variety mbololo seed oil of Kenya. *J Agric Food Chem.* 47: 4495-4499.
- Vimonkhunakorn. 1979. Medicinal plant drug formula. Nonthaburi: Wat Phikul Ngen.

- Vlahov, G., Chepkwony, P.K. and Ndalut, P.K. 2002. ^{13}C NMR Characterization of Triacylglycerols of *Moringa oleifera* Seed Oil: An "Oleic-Vaccenic Acid" Oil. *J Agric Food Chem.* 50: 970-975.
- Wara-Aswapati, O., Thammathaworn, S. and Grote, P.J. 2005. Flora of Suranaree University of Technology Campus. School of Biology, Institute of Science Suranaree University of Technology (SUT), Nakhon Ratchasima Thailand (online). Available: <http://flora.sut.ac.th/st160.html> (2005, July 04)
- World Cancer Research Fund/American Institute for Cancer Research. 1997. Food, nutrition and the prevention of cancer: a global perspective. Washington DC.
- World Health Data Mortality Bank. 1992. World Health Organization: Geneva.
- Wu, T.S., Yang, C.C., Wu, P.L. and Liu, L.K. 1995. A quinol and steroids from the leaves and stems of *Rhinacanthus nasutus*. *Phytochemistry.* 40:1247-1249.
- Wu, T.S., Tien, H.J., Yeh, M.Y. and Lee, K.H. 1988. Isolation and cytotoxicity of rhinacanthin-A and B, two naphthoquinone from *Rhinacanthus nasutus*. *Phytochemistry.* 27: 3787-3788.
- Wu, T.S., Hsu, H.C., Wu, P.L., Leu, Y.L., Chan, Y.Y., Yeh, M.Y. and Tien, H.J. 1998a. Naphthoquinone esters from the root of *Rhinacanthus nasutus*. *Chem Pharm Bull.* 46: 413-418.
- Wu, T.S., Hsu, H.C., Wu, P.L., Teng, C.M. and Wu, Y.C. 1998b. Rhinacanthin-Q, a naphthoquinone from *Rhinacanthus nasutus* and its biological activity. *Phytochemistry.* 49: 2001-2003.
- Wuthi-udomlert, M., Luanratana, O., Imwidhthaya, P. and Kom-udom, Y. 2000. Antifungal activity of *Sapindus rarak*. *Mahidol University Annual Research Abstracts 2000.* 359.
- Yamasaki, K., Hashimoto, A., Kokusenya, Y., Miyamoto, T. and Sato, T. 1994. Electro chemical method for estimating the antioxidative effects of methanol extracts of crude drugs. *Chem Pharm Bull.* 42: 1663-1665.
- Yang, X.W. and Yan, Z.K. 1993. Studies on the chemical constituents of alkaloids in seeds of *Strychnos nux-vomica* L. *China J Chinese Materia Medica.* 18: 739-740.
- Yin, W., Wang, T-S., Yin, F-Z. and Cai, B-C. 2003. Analgesic and anti-inflammatory

- properties of brucine and brucine N-oxide extracted from seeds of *Strychnos nux-vomica*. *J Ethnopharmacol.* 88: 205-214.
- Yokota, M., Sugiyama, K., Yamamoto, T., Mu., Y.N., Shu., C.Y. and Kosuge, T. 1986. Studies on Chinese medicines used for cancer IV. Antitumor constituents in *Rhizoma zedoaria*, *Periostracum cicada*, *Galla wisteriae* and *Radix hostae*. *Yakugaku Zasshi.* 106: 425-426.
- Yoshihara, M., Shibuya, H., Kitano, E., Yanakgi, K. and Kitagawa, I. 1984. The absolute stereostructure of (4S, 5S)-(+)-germacrone 4, 5-epoxide from zedoariae rhizome cultivated in Yakushima island. *Chem Pharm Bull.* 32:2059-2062.
- Yoshikawa, M., Murakami, T., Morikawa, T. and Matsuda H. 1998. Absolute stereostructures of carabrane-type sesquiterpenes, curcumenone, 4S-dihydrocurcumenone and curcarabranols A and B: vasorelaxant activity of zedoary sesquiterpenes. *Chem Pharm Bull.* 46:1186-1188.
- Yoshioka, T., Fujii, E., Endo, M., Wada, K., Tokunaga, Y., Shiba, N., Hohsho, H., Shibuya, H. and Muraki, T. 1998. Antiinflammatory potency of dehydrourdione, a zedoary-derived sesquiterpene. *Inflamm Res.* 47: 476-481.
- Zaeoung, Sariga. 2004. Cytotoxic activity against tumor cells and free radical scavenging activity of Zingiberaceous rhizomes used as spices. Master of Pharmacy Thesis in Pharmaceutical Sciences. Price of Songkla University.
- Zhang, J.H., Zhang, Y. and Herman, B. 2003. Caspases, apoptosis and aging. *Ageing Res Rev.* 2: 357-366.
- Zhang, X., Xu, Q., Xiao, H. and Liang, X. 2003. Iridoid glucosides from *Strychnos nux-vomica*. *Phytochemistry.* 64: 1341-1344.