

REFERENCES

- (1) Kiritkar, K.R., Basu, B.D., An, I.C.S. (1980). *Indian Medicinal Plants, vol. I.*, Bishen Singh Mahendra Pla Singh, Dehradun, India.
- (2) Hooker, J.D., (1875). *The Flora of British India*, L. Reeve & Co, Lon-don.
- (3) Kithsiri, W., Ratnayake, B., Leslie, G. (1992). Chemical constituents of three Rutaceae species from Srilanka. *Journal of Natural Products*, 55 : 1262-1269.
- (4) Promjit, S., wongsatit, C., Rungravi, T., Terry C. (1996). *Medicinal Plants in Thailand volume I*. Amaria P&P Public Co Ltd., Bangkok, Thailand.
- (5) Ministry of Public Health. Department of Medical Sciences. (2000). *Thai herbal pharmacopoeia 2000 volume II / Department of Medical Sciences, Ministry of Public Health*. Ministry of Public Health, Nonthaburi, Thailand.
- (6) Standard of ASEAN herbal medicine. (1993). *Standard of ASEAN herbal medicine Volume 1*. ASEAN countries, Jakarta, Indonesia.
- (7) The National Commission Organizing the Celebration of the 50th Anniversary of His Majesty's Accession to the Throne. (1996). *Medicinal plants garden in Phutthamonthon / the National Commission Organizing the Celebration of the 50th Anniversary of His Majesty's Accession to the Throne*. In commemoration of the Celebration of the 50th Anniversary of His Majesty's Accession to the Throne, Bangkok, Thailand.
- (8) Wongsatit, C., Promjit, S., Wichit, P., Rungravi, T., Terry C., (1997). *Medicinal Plants in Thailand volume II*, Amaria P&P Public Co Ltd., Bangkok, Thailand.

- (9) Arya Vaidya Sala. (1996). *Indian Medicinal Plant: a compendium of 500 species*. Volume 3. Orient Longman Limited, Madras, India.
- (10) Norman R. Farnsworth, Nuntaran Bungaphatsara. (1992). *Thai Medicinal Plants Recommended for Primary Health Care System*. Prachachon Co., Ltd., Thailand.
- (11) Arya Vaidya Sala. (1996). *Indian Medicinal Plant: a compendium of 500 species*. Volume 2. Orient Longman Limited, Madras, India.
- (12) Dongjin Pyo, Hlaing Oo. (2007). Supercritical Fluid Extraction of Drug-Like Materials from Selected Myanmar Natural Plants and their Antimicrobial Activity. *Journal of Liquid Chromatography & Related Technologies*, 30 : 377–392.
- (13) Suri, R., Radzali, M., Mohd, A., Marziah, S., Arif, Z.J., Samsumaharto, R.A. (2002). Antibacterial assay of citrus hystrix extracts. *J. Trop. Med. Plants.*, 3 (1) : 35–41.
- (14) Rahaman, M.M., Gray, A.I. (2002). Antimicrobial Constituents from the stem bark of *Feronia limonia*. *Phytochemistry*, 59 : 73–77.
- (15) Saima, Y., Das, A.K., Sarkar, K.K., Sen, A.K., Sur, B. (2000). An antitumor pectic polysaccharide from *Feronia limonia*. *Biol. Macromol.*, 27 : 333–335.
- (16) N. K. B Adikaram, Yamuna Abhayawardhane, B. M. Ratnyake Bandara, A. A. Leslie Gunatilaka, E. M. Kithsiri Wijeratne. (1989). Antifungal activity, acid and sugar content in the wood apple (*Limonia acidissima*) and their relation to fungal development. *Plant Pathology*, 38 : 258-265.
- (17) I. Lampronti, D. Martello, N. Bianchi, M Borgatti, E. Lambertini, R. Piva, S. Jabbar, M. Shahabuddin Kabir Choudhuri, M. Tareq Hassan Khan, and R.

- Gambari. (2003). *In vitro* antiproliferative effects on human tumor cell lines of extracts from the Bangladeshi medicinal plant *Aegle marmelos* Correa. *Phytomedicine*, 10: 300–308.
- (18) Kakiuchi N., Senaratne LR., Huang SL., Yang XW., Hattori M., Pilapitiya U., Namba T. (1991). Effects of constituents of Beli (*Aegle Marmelos*) on spontaneous beating and calciumparadox of myocardial cells. *Planta Med.*, 57: 43–46.
- (19) Karunanayake EH., Welihinda J., Sirimanne SR., Sinnadorai G. (1984). Oral Hypoglycaemic activity of some medicinal plants of Sri Lanka. *J Ethnopharmacol.*, 11: 223–231.
- (20) Shoba FG., Thomas M. (2001). Study of antidiarrhoeal activity of four plants in castor-oil induced diarrhoea. *J Ethnopharmacol.*, 76: 73–76.
- (21) Rana BK., Singh UP., Taneja V. (1997). Antifungal activity and kinetics of inhibition by essential oil isolated from leaves of *Aegle Marmelos*. *J Ethnopharmacol.*, 57: 29–34.
- (22) Ohashi, K., Watanabe, H., Ohi, K., Arimoto H., Okumura, Y. (1995). Two New 7-Geranyloxycoumarins from the Bark of *Aegle Marmelos*, an Indonesian Medicinal Plant. *Chemistry Lett.*, 881–882.
- (23) Mazumdar, B.C. (1975). Physicochemical Analyses of Some Types of Bael *Aegle-Marmelos* Fruits Growing in West Bengal. *Indian Agric.*, 19 : 295–298.
- (24) Jain, N.K. (1977). Antifungal activity of essential oil of *Aegle marmelos* Correa (Rutaceae). *Indian Drug. Pharm. Ind.*, 12 : 55.
- (25) Banerji N., Kumar, R. (1980). Studies on the seed oil of *Aegle marmelos* and its effect on some bacterial species. *J. Inst. Chem.*, 52 : 59–60.

- (26) Jaiprakash R. Patil, G.K. Jayaprakasha, K.N. Chidambara Murthy, Shane E. Tichy, Mahadev B. Chetti, Bhimanagouda S. Patil. (2009). Apoptosis-mediated proliferation inhibition of human colon cancer cells by volatile principles of *Citrus aurantifolia*. *Food Chemistry*, 114 : 1351–1358.
- (27) Komori, T., Fujiwara, R., Tanida, M., Nomura, J., Yokoyama, M.M., (1995). Effects of citrus fragrance on immune function and depressive states. *Neuroimmunomodulation*, 2 : 174–180.
- (28) Hollman, P.C., Hertog, M.G., Katan, M.B., (1996). Role of dietary flavanoids in protection against cancer and coronary heart disease. *Biochemical Society Transactions*, 24 : 785–789.
- (29) Kawai, S., Tomono, Y., Katase, E., Ogawa, K., Yano, M., (1999). Antiproliferative effects of the readily extractable fractions prepared from various citrus juices on several cancer cell lines. *Journal of Agricultural and Food Chemistry*, 47 : 2509–2512.
- (30) Rodrigues, A., Sandstrom, A., Ca, T., Steinsland, H., Jensen, H., Aaby, P. (2000). Protection from cholera by adding lime juice to food-results from community and laboratory studies in Guinea-Bissau, West Africa. *Tropical Medicine and International Health*, 5 : 418–422.
- (31) Bennet, J.P., Gomperts, B.D., Wollenweber, E., (1981). Inhibitory effects of natural flavonoids on secretion from mast cells and neutrophils. *Arzneimittel-Forschung*, 31 : 433–437.
- (32) Lam, L.K., Hasegawa, S., (1989). Inhibition of benzo[a]pyrene-induced forestomach neoplasia in mice by citrus limonoids. *Nutrition and Cancer*, 12 : 43–47.

- (33) Guthrie, N., Carroll, K.K., (1998). Inhibition of mammary cancer by citrus flavanoids. *Advances in Experimental Medicine and Biology*, 439 : 227–236.
- (34) Samarineanu, M., (1998). The effect of ascorbic acid (vitamin C) on the proliferation of human mononuclear cells stimulated with phytohemagglutinin, Bacteriologia, Virusologia, Parazitologia. *Epidemiologia*, 43 : 53–56.
- (35) Andreas M. Papas. (1999). *Antioxidant Status, Diet, Nutrition, and Health*. CRC Press: Boca Raton London New York Washington, D.C.
- (36) Steven I. Baskin, Harry Salem. (1997). *Oxidants, Antioxidants, and Free radicals*. Taylor & Francis: Washington, D.C.
- (37) Lymar S V; Jiang Q; Hurst J K. (1996). Mechanism of carbon dioxide-catalyzed oxidation of tyrosine by peroxyxynitrite. *Biochemistry*, 35(24) : 7855-61.
- (38) Enrique Cadenas, Lester Packer. (2002). *Handbook of antioxidants*. New York : Marcel Dekker.
- (39) Y. Dotan, D. Lichtenberg, I. Pinchuk. (2004). Lipid peroxidation cannot be used as a universal criterion of oxidative stress. *Progress in Lipid Research*, 43 : 200-227.
- (40) Helmut SIES. (1993). Strategies of antioxidant defense. *Eur. J. Biochem.*, 215 : 213-219.
- (41) Pokorny, J., Yanishlieva, N., and Gordon, M. (2001). *Antioxidant in food*. England: Woodhead publishing Ltd.
- (42) Okezie I. Aruoma, Susan L. Coppett. (1997). *Antioxidant methodology in vivo and vitro concepts*: AOCS Press.

- (43) Shahin Sharif Ali, Naresh Kasoju, Abhinav Luthra, Angad Singh, Hallihosur Sharanabasava, Abhishek Sahu, Utpal Bora. (2008). Indian medicinal herbs as sources of antioxidants. *Food Research International*, 41: 1–15.
- (44) Dejian H., Boxin O., Ronald L. PRIOR. (2005). The Chemistry behind Antioxidant Capacity Assays. *J. Agric. Food Chem.*, 53 : 1841-1856.
- (45) Brand-Williams, W., Cuvelier, M.E., Berset, C. (1995). Use of a free radical method to evaluate antioxidant activity, *Food Sci. Technol.*, 28 : 25–30.
- (46) Holley A.E., Cheeseman, K. H. (1993). Measuring free radical reactions in vivo. *British Medical Bulletin.*, 49 : 494-505
- (47) Y. Dotan, D. Lichtenberg, I. Pinchuk. (2004). Lipid peroxidation cannot be used as a universal criterion of oxidative stress. *Progress in Lipid Research.*, 43(3) : 200-227.
- (48) Lise Alschuler, Karolyn A. Gazella. (2007). *Alternative Medicine Magazine's definitive guide to cancer : an integrative approach to prevention, treatment, and healing*. Berkeley : Celestial Arts.
- (49) D.C.H. McBrien and T.F. Slater. (1983). *Protective agents in cancer*. London : Academic Press.
- (50) John Boik. (1996). *Cancer & natural medicine: a textbook of basic science and clinical research*. Princeton, MN. : Oregon Medical Press.
- (51) Singleton, Paul. (2004). *Bacteria in biology, biotechnology and medicine*. West Sussex : John Wiley & Sons.
- (52) Macnab, R.M. (1999). The bacterial flagellum: reversible rotary propellor and type III export apparatus. *J. Bacteriol.*, 181(23) : 7149–53.

- (53) Cavalier-Smith, T. (2002). The neomuran origin of archaeobacteria, the negibacterial root of the universal tree and bacterial megaclassification. *Int J Syst Evol Microbiol.*, 52 : 7–76.
- (54) Kevin Kavanagh. (2005). *Fungi : biology and applications*. Chichester, Hoboken, NJ : Wiley.
- (55) Dadachova E, Casadevall A. (2008). Ionizing radiation: how fungi cope, adapt, and exploit with the help of melanin. *Current opinion in Microbiology*, 11: 525–31.
- (56) Baldauf, S. L., and J. D. Palmer. (1993). Animals and fungi are each other's closest relatives: congruent evidence forms multiple proteins. *Proceedings of the National Academy of Sciences (USA)*, 90 : 11558-11562.
- (57) Watanabe, Daisuke; Kerakawati, Rie; Morita, Tetsuo; Nakamura, Tomonori; Ueno, Koichi; Kumamoto, Takuya; Nakanishi, Waka; Ishikawa, Tsutomu; Uzawa, Jun; Seki, Hiroko; Tachi, Masahiko; Harada, Ken-ichi; Higuchi, Yoshinori; Chaichantipyuth, Chaiyo. (2009). Isolation of β -sitosterol and digalactopyranosyl-diacylglyceride from *Citrus hystrix*, a Thai traditional herb, as pancreatic lipase inhibitors. *Heterocycles.*, 78(6) : 1497-1505.
- (58) Murakami, Akira; Nakamura, Yoshimasa; Ohigashi, Hajime; Koshimizu, Koichi. (1997). Cancer chemopreventive potentials of edible Thai plants and some of their active constituents. *Memoirs of the School of Biology-Oriented Science and Technology of Kinki University*, 1 : 1-23.

- (59) Murakami, Akira; Nakamura, Yoshimasa; Koshimizu, Koichi; Ohigashi, Hajime. (1995). Glyceroglycolipids from *Citrus hystrix*, a Traditional Herb in Thailand, Potently Inhibit the Tumor-Promoting Activity of 12-O-Tetradecanoylphorbol 13-Acetate in Mouse Skin. *Journal of Agricultural and Food Chemistry*, 43(10) : 2779-83.
- (60) Taufiq-Yap, Y. H.; Peh, T. H.; Ee, G. C. L.; Ali, A. M.; Rahmani, M.; Sukari, M. A.; Muse, R. (2001). Chemical variability and some biological activities of leaf essential oils from five species of Malaysian Citrus. *Oriental Journal of Chemistry*, 17(3) : 387-390.
- (61) Huang, Yuanzheng; Pu, Zilian; Chen, Quanyou. (2000). The chemical composition of the leaf essential oils from 110 citrus species, cultivars, hybrids and varieties of Chinese origin. *Perfumer & Flavorist.*, 25(1) : 53-66.
- (62) Jantan, Ibrahim; Ahmad, Abu Said; Ahmad, Abdul Rashih; Ali, Nor Azah Mohd; Ayop, Norsiha. (1996). Chemical composition of some citrus oils from Malaysia. *Journal of Essential Oil Research*, 8(6) : 627-632.
- (63) Sato, Akiyoshi; Asano, Kenichi; Sato, Toshiya. (1990). The chemical composition of *Citrus hystrix* DC (Swangi). *Journal of Essential Oil Research*, 2(4) : 179-83.
- (64) Brian, M. Lawrence; Hogg, S., Terhune, J. (1971). Constituents of the leaf and peel oils of *Citrus hystrix* DC. *Phytochemistry.*, 10 : 1404-1405.
- (65) F. Pudil, H. Wijaya, V. Janda, J. Volfova, H. Valentova and J. Pokomy. (1998). Changes in *Citrus hystrix* oil during autooxidation. *Food Flavors: Formation, Analysis and Packaging Influences.*, 40 : 707-718.

- (66) El-Fishawy, Ahlam M. (1994). Phytochemical study of *Feronia elephantum* Correa. *Zagazig Journal of Pharmaceutical Sciences*, 3(3A) : 76-81.
- (67) El-Khrisy, E. A. M., Khattab, A., Abdel-Fattah, M-E., Abbas, R. Z. Abu-Mustafa, E. A. (1994). Chemical constituents of *Feronia elephantum* L. leaves. *Bulletin of the Faculty of Pharmacy (Cairo University)*, 32(1) : 119-21.
- (68) Geda, Arvind; Bokadia, M.M. (1987). Mass fragmentation pattern of p-methoxybenzoic acid: a minor constituent from the essential oil of *Feronia elephantum* leaves. *Acta Ciencia Indica, Chemistry*, 13(3) : 158-9.
- (69) Gupta, S. R.; Seshadri, T. R.; Sharma, C. S.; Sharma, N. D. (1979). Chemical components of *Feronia limonea*. *Planta Medica*, 36(1) : 95-6.
- (70) Chakraborty, D. P. (1959). Chemical examination of *Feronia elephantum*. *Journal of Scientific & Industrial Research*, 18 : 90-1.
- (71) El-Fishawy, Ahlam M.; El-Kashoury, El Sayeda A.; Abd El-Kawy, Mostafa A.; Soliman, Fathy M. (1993). Chemical composition and antimicrobial activity of the essential oil from *Feronia elephantum* Correa. *Zagazig Journal of Pharmaceutical Sciences*, 2(2) : 150-157.
- (72) Garg, S. C. (2003). Essential oil of *Feronia elephantum* Correa: a rich source of methyl chavicol. *Indian Perfumer*, 47(1) : 99-101.
- (73) Ahmad, A.; Misra, L. N.; Thakur, R. S. (1989). Composition of the volatile oil from *Feronia limonia* leaves. *Planta Medica*, 55(2) : 199-200.
- (74) Panda, Sunanda; Kar, Anand. (2009). Periplogenin-3-O- -D-glucopyranosyl - (1→6)-D-glucopyranosyl -(1→4) -D-cymaropyranoside, isolated from *Aegle marmelos* protects doxorubicin induced cardiovascular problems and hepatotoxicity in rats. *Cardiovascular Therapeutics*, 27(2) : 108-116.

- (75) Phuwapraisirisan, Preecha; Puksasook, Thanchanok; Jong-aramruang, Jonkolnee; Kokpol, Udom. Phenylethyl cinnamides: (2008). A new series of δ -glucosidase inhibitors from the leaves of *Aegle marmelos*. *Bioorganic & Medicinal Chemistry Letters*, 18(18) : 4956-4958.
- (76) Narender, T.; Shweta, S.; Tiwari, P.; Reddy, K. Papi; Khaliq, T.; Prathipati, P.; Puri, A.; Srivastava, A. K.; Chander, R.; Agarwal, S. C.; Raj, K. (2007). Antihyperglycemic and antidyslipidemic agent from *Aegle marmelos*. *Bioorganic & Medicinal Chemistry Letters*, 17(6) : 1808-1811.
- (77) Govindachari, Tuticorin R. (1983). Some alkaloids from *Aegle marmelos*. *Phytochemistry*, 22(3) : 755-7.
- (78) Kamkaen, N.; Wilkinson, J. M.; Ruangrunsi, N. (2008). Chemical compositions and antibacterial activities of essentials oil from the family rutaceae. *International Journal of Essential Oil Therapeutics*, 2(4) : 158-162.
- (79) Karawya, M. S.; Mirhom, Y. W. (1987). Essential oil of the leaves of *Aegle marmelos* Correa. *Bulletin of the Faculty of Pharmacy (Cairo University)*, 25(1) : 101-7.
- (80) Kumar, Roopendra; Singh, Shyamveer; Gupta, Richa; Mishra, S. K.; Varshney, S. C.; Gupta, K. C. (2007). Volatile constituents of *Aegle marmelos* leaves. *Indian Perfumer*, 51(3) : 60-62.
- (81) Pino, Jorge A.; Marbot, Rolando; Fuentes, Victor. (2005). Volatile compounds from leaves of *Aegle marmelos* (L.) correa grown in Cuba. *Revista CENIC, Ciencias Quimicas*, 36(2) : 71-73.

- (82) H.P. Kaur, S.N. Garg, K.V. Sashidhara, A. Yadav, A.A. Naqvi and S.P.S. Khanuja. (2006). Chemical Composition of the Essential Oil of the Twigs and Leaves of *Aegle marmelos* (L.) Correa. *J. Essent. Oil Res.*, 18 : 288-289.
- (83) Raju, P. M.; Agarwal, S. S.; Ali, Mohamed; Velasco-Negueruela, Arturo; Perez-Alonso, Maria Jose. (1999). Chemical composition of the leaf oil of *Aegle marmelos* (L.) Correa. *Journal of Essential Oil Research*, 11(3) : 311-313.
- (84) Piccinelli, Anna Lisa; Garcia Mesa, Milagros; Armenteros, Dulce Maria; Alfonso, Maria Antonia; Arevalo, Ana Carolina; Campone, Luca; Rastrelli, Luca. (2008). HPLC-PDA-MS and NMR characterization of C-glycosyl flavones in a hydroalcoholic extract of *Citrus aurantifolia* leaves with antiplatelet activity. *Journal of Agricultural and Food Chemistry*, 56(5) : 1574-1581.
- (85) Jaiprakash R. Patil, G.K. Jayaprakasha, K.N. Chidambara Murthy, Shane E. Tichy, Mahadev B. Chetti, Bhimanagouda S. Patil. (2009). Apoptosis-mediated proliferation inhibition of human colon cancer cells by volatile principles of *Citrus aurantifolia*. *Food Chemistry*, 114 : 1351–1358.
- (86) Adam R.P. (2001). *Identification of essential oils components by gas chromatography/quadrupole mass spectroscopy*. Carol Stream, IL: Allured Publishing Corp.
- (87) Mehdi Jalali-Heravi, Behrooz Zekavat, Hassan Sereshti. (2006). Characterization of essential oil components of Iranian *geranium oil* using gas chromatography–mass spectrometry combined with chemometric resolution techniques. *Journal of Chromatography A*, 1114 : 154–163.

- (88) N.W. Davies, (1990). Gas chromatographic retention index of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases. *Journal of Chromatography*, 503 : 1-24.
- (89) AOAC International. (1998). *Official methods of analysis of AOAC International*. Arlington, Va. : AOAC International.
- (90) Roberta R., Nicoletta P., Anna P., Ananth P., Min Y., Catherine R.E. (1999). Antioxidant activity applying an improved ABTS radical cation decolorization assay. *J. Free Rad Biol Med.*, 26 : 1231–1237.
- (91) Thongchai, W., Liawruangrath, B., Liawruangrath, S. (2009). Flow injection analysis of total curcuminoids in turmeric and total antioxidant capacity using 2, 2-diphenyl-1-picrylhydrazyl assay. *Food Chemistry*, 112 : 494–499.
- (92) Igbinsola, O. O., Igbinsola, E. O., Aiyegoro, A. (2009). Antimicrobial activity and phytochemical screening of stem bark extracts from *Jatropha curcas* (Linn). *African Journal of Pharmacy and Pharmacology*, 3(2) : 058-062
- (93) Brien, J.O., Wilson, I., Orton, T., Pognan. F. (2000). Investigation of the alamar blue (resazurin) fluorescent dye for the assessment of mammalian cell cytotoxicity. *European Journal of Biochemistry*, 267 : 5421-5426.
- (94) Klopell, F.C.; Lemos, H.; Sousa, J.P.B.; Comunello, E.; Maistro, E.L.; Bastos, J.K.; de Andrade; S.F. (2007). Nerolidol, an antiulcer constituent from the essential oil of *Baccharis dracunculifolia* DC (Asteraceae) *Z. Naturforsch*, 62 : 537-542.
- (95) Arruda, D.C.; D’Alexandri, F.L.; Katzin, A.M.; Uliana, S.R.B. (2005) Antileishmanial Activity of the terpene nerolidol. *Antimicrobial Agents and Chemotherapy.*, 49(5) : 1679-1687.

- (96) Firouz Matloubi Moghaddam, Mahdi Moridi Farimani, Sabah Salahvarzi and Gholamreza Amin. (2006). Chemical Constituents of Dichloromethane Extract of Cultivated *Satureja khuzistanica*. *eCAM*, 1-4.
- (97) Deyu Xie, Lianhui Wang, Hechun Ye, Guofeng Li. (2000). Isolation and production of artemisinin and stigmasterol in hairy root cultures of *Artemisia annua*. *Plant Cell, Tissue and Organ Culture*, 63 : 161–166.
- (98) Peter Forgo, Katalin E. Kover. (2003). Gradient enhanced selective experiments in the ¹H NMR chemical shift assignment of the skeleton and side-chain resonances of stigmasterol, a phytosterol derivative. *Steroids*, 69 : 43–50.
- (99) Damrong Kongduang, Juraithip Wungsintaweekul, Wanchai De-Eknamkul. (2008). Biosynthesis of β-sitosterol and stigmasterol proceeds exclusively via the mevalonate pathway in cell suspension cultures of *Croton stellatopilosus*. *Tetrahedron Letters*, 49 : 4067–4072.