

2.6. เอกสารอ้างอิง

- Aiyar, V. N. and Seshadri, T. R. (1971) Isolation of acetyl aleuritic acid from *Croton oblongifolius*. *Indian Journal of Chemistry*, 9, 1028-1029.
- Barbosa, P.R., Fascio, M., Martins, D., Silva Guedes, M.L., Roque, N.F. (2003) Triterpenes of *Croton betulaster* (Euphorbiaceae) *Biochemical Systematics and Ecology*, 31, 307-308.
- Cheng, C.L., Guo, J.S., Luk, J. and Koo, M.W.L. (2004) The healing effects of *Centella* extract and asiaticoside on acetic acid induced gastric ulcers in rats. *Life Sciences*, 74, 2237-2249.
- Corey, E. J., Matsuda, S. P. T. and Bartel, B. (1993). Isolation of an *Arabidopsis thaliana* gene encoding cycloartenol synthase by functional expression in a yeast mutant lacking lanosterol synthase by the use of a chromatographic screen. *Proc. Natl. Acad. Sci. USA*, 90, 11628-11632.
- De-Eknamkul, W. and Potduang, B. Biosynthesis of β -sitosterol and stigmasterol in *Croton sublyratus* proceeds via a mixed origin of isoprene units. *Phytochemistry*, 2003; 62: 389-398.
- Frohman, M. A., Dush, M. K. & Martin, G. R. (1988) Rapid production of full-length cDNAs from rare transcripts: amplification using a single gene-specific oligonucleotide primer, *Proc. Natl. Acad. Sci. U. S. A.* 85, 8998-9002.
- Hayashi, H., Hiraoka, N., Ikeshiro, Y., Yazaki, K., Tanaka, S., Kushiro, T., Shibuya, M., and Ebizuka, Y. (1999). Molecular cloning of a cDNA encoding cycloartenol synthase from *Luffa cylindrica* (Accession No. AB033334). *Plant Physiol.*, 121, 1384.
- Hayashi, H., Huang, P., Inoue, K., Hiraoka, N., Ikeshiro, Y., Yazaki, K., Tanaka, S., Kushiro, T., Shibuya, M., and Ebizuka, Y. (2001b). Molecular cloning and characterization of isomultiflorenol synthase, a new triterpene synthase from *Luffa cylindrica*, involved in biosynthesis of bryonolic acid. *Eur. J. Biochem.*, 268, 6311-6317.
- Judy, W.V., Hari, S.P., Stogsdill, W.W., Judy, J.S., Naguib, Y.M.A., and Passwater, R. (2003) Antidiabetic activity of a standardized extract (GlucosolTM) from *Lagerstroemia speciosa* leaves in Type II diabetics A dose-dependence study. *Journal of ethnopharmacology*, 87, 115-7.
- Kashiwada, Y., Wang, H. K., Nagao, T., Kitanaka, S., Yasuda, I., Fujioka, T., Yamagishi, T., Cosentino, L.M., Kozuka, M., Okabe, H., Ikeshiro, Y., Hu, C. Q., Yeh, E., and Lee, K. H. (1998). Anti-AIDS agent. 30: Anti-HIV activity of oleanolic acid, pomolic acid and structurally related triterpenoids. *J. Nat. Prod.*, 61, 1090-1095.

- Kawano, N., Ichinose, K., and Ebizuka, Y. (2002) Molecular cloning and functional expression of cDNAs encoding oxidosqualene cyclases from *Costus speciosus*. *Biol. Pharm. Bull.*, 25(4) 477-482.
- Kim, O.T., Kim, M.Y., Huh, S.M., Bai, D.G., Ahn, J.C., and Hwang, B. (2005) Cloning of a cDNA probably encoding oxidosqualene cyclase associated with asiaticoside biosynthesis from *Centella asiatica* (L.) *Urban Plant Cell Rep.* 24: 304–311.
- Kim, O.T., Lee, J.W., Bang, K.H., Kim, Y.C., Hyun, D.Y., Sha, S.W., Choi, Y.E., Jin, M.L. and Hwang, B. (2009) Characterization of Dammarenediol synthase in *Centella asiatica* (L.) *Urban Plant Physiology and Biochemistry.* 47: 998-1002.
- Kushiro, T., Shibuya, M., and Ebizuka, Y. (1998a). β -Amyrin synthase: Cloning of oxidosqualene cyclase that catalyzes the formation of the most popular triterpene among higher plants. *Eur. J. Biochem.*, 256, 238-244.
- Kushiro, T., Shibuya, M., and Ebizuka, Y. (1998b). Molecular cloning of oxidosqualene cyclase cDNA from *Panax ginseng*: The isogene that encodes β -amyrin synthase. In *Towards Natural Medicine Research in the 21st Century*; Ageta, N., Aimi, N., Ebizuka, Y., Fujita, T., and Honda, G., Eds.; Oxford: Elsevier Science, pp 421-427S.
- Kushiro, T., Shibuya, M., Masuda, K. and Ebizuka, Y. (2000) Mutational Studies on Triterpene Synthases: Engineering Lupeol Synthase into β -Amyrin Synthase. *J. Am. Chem. Soc.*, 122, 6816-6824.
- Liu, J. (1995). Pharmacology of oleanolic acid and ursolic acid. *Journal of Ethnopharmacology*, 49, 57-68.
- Maciel, M. A., Pinto, A. C., Arruda, A. C., Pamplona, S. G. Vanderlinde, F. A. Lapa, A. J., Echevarria, A., Grynberg, N. F., Colus, I. M., Farias, R. A., Luna Costa, A. M., Rao, V. S. (2000) Ethnopharmacology, phytochemistry and pharmacology: a successful combination in the study of *Croton cajucara* *Journal of ethnopharmacology*, 70, 41-55.
- Matsuda, H., Morikawa, T., Ueda, H. and Yoshikawa, M. (2001a). Medicinal Foodstuffs. XXVI. Inhibitors of aldose reductase and new triterpene and its oligoglycoside, centellasapogenol A and centellasaponin A from *Centella asiatica* (Goto Kola). *Heterocycles.* 55, 1499-1504.
- Matsuda, H., Morikawa, T., Ueda, H. and Yoshikawa, M. (2001b). Medicinal Foodstuffs. XXVII.: Saponin Constituents of Goto Kola (2): Structures of New Ursane- and Oleanane-Type Triterpene Oligoglycosides Centellasaponin B, C, and D, from *Centella asiatica* Cultivated in Sri Lanka. *Chem. Pharm. Bull.* 49, 1368-1371.

- Morita, M., Shibuya, M., Lee, M. S., Sangawa, U., and Ebizuka, Y. (1997). Molecular cloning of pea cDNA encoding cycloartenol synthase and its functional expression in yeast. *Biol. Pharm. Bull.*, 20 (7), 770-775.
- Morita, M., Shibuya, M., Kushiro, T., Masuda, K., and Ebizuka, Y. (2000). Molecular cloning and functional expression of triterpene synthases from pea (*Pisum sativum*): New α -amyrin-producing enzyme is a multifunctional triterpene synthase. *Eur. J. Biochem.*, 267, 3453-3460.
- Saimaru, H., Orihara, Y., Tansakul, P., Shibuya, M. and Ebizuka, Y. 2007. Production of triterpene acids by cell suspension cultures of *Olea europaea*. *Chem. Pharm. Bull.* 55, 784-788.
- Shibata, S. (2001). Chemistry and cancer preventing activities of Ginseng saponins and some related triterpenoid compounds. *J. Korean Med Sci.*, 16 (s), s28-37.
- Shibuya, M., Zhang, H., Endo, A., Shishikura, K., Kushiro, T., and Ebizuka, Y. (1999). Two branches of the lupeol synthase gene in the molecular evolution of plant oxidosqualene cyclases. *Eur. J. Biochem.*, 266, 302-307.
- Tansakul, P., Shibuya, M., Kushiro, T. and Ebizuka, Y. 2006. Dammmarenydiol-II synthase, the first dedicated enzyme for ginsenoside biosynthesis in *Panax ginseng*. *FEBS Letters.*, 580, 5143-5149.
- Wang, Z., Guhling, O., Yao, R., Li, F., Yeats, T.H., Rose, J.K., Jetter, R. (2011) Two oxidosqualene cyclases responsible for biosynthesis of tomato fruit cuticular triterpenoids. *Plant Physiol.* 155, 540-552.
- Wang, Z., Yeats, T., Han, H., Jetter, R. (2010) Cloning and characterization of oxidosqualene cyclases from *Kalanchoe daigremontiana*: enzymes catalyzing up to 10 rearrangement steps yielding friedelin and other triterpenoids. *J Biol Chem.* 285, 29703-29712.
- Zhang, H., Shibuya, M., Yokota, S., and Ebizuka, Y. (2003) Oxidosqualene cyclases from cell suspension cultures of *Betula platyphylla* var. *japonica*: Molecular evolution of oxidosqualene cyclases in higher plants. *Biol. Pharm. Bull.*, 26, 642-650.