

References

- Abbott, W. S. 1925. Method for computing the effectiveness of an insecticide. *J. Econ. Entomol.* 18: 265-267.
- Areekul, S. 1991. Botanical insecticide of Thailand. *Erudition J.* 16(44): 45-67.
- Aroonrungsikul, C. 1995. Technique test and classified plant by Isozyme pattern. pp. 16-30. In: Training Handbook of Classified Plant by Isozyme Pattern and RAPD. Central Laboratory and Experimental Green house. Kasetsart University, Kampangsan Campus.
- Atchiso, E. 1949. Studies in Leguminosae: Cytological studies of *Lonchocarpus* and *Derris* species. *Am. J. Bot.* 36: 364 – 368.
- Attanon, P. 2006. Research on pilot plant level of continuously extraction process of derris (*Derris elliptica* Benth.). *Thai Agri. Res. J.* 24(2): 198 – 210.
- Backer, C. A., and R. C. Bakhuizen Van Den Brink. 1963. Flora of Java (Spermatophytes only). N.V.P. Noordhoff, Groningen, Netherlands. 648 pp.
- Balandrin, M. F., J. A. Klocke, E. S. Wurtele, and W. H. Bollinger. 1985. Natural plant chemicals: Sources of industrial and medicinal materials. *Science* 228: 1154-1160.
- Bänziger, H. 1976. Keys for the identification of aphids (Homoptera) I. Winged aphids of species of economic important in Thailand. Plant Protection Service. Technical Bulletin No. 36. Department of Agriculture, Ministry of Agriculture and Co-operatives, Bangkok, Thailand. 43 pp.
- Bänziger, H. 1977. Key for the identification of aphids (Homoptera) II. Field identification of common wingless aphids of crops in Thailand. Plant Protection Service. Technical Bulletin No. 37. Department of Agriculture, Ministry of Agriculture and Co-operatives, Bangkok, Thailand. 24 pp.
- Bethesda, M.D. 1995. Hazardous substances databank. U.S. National Library of Medicine. 2-24
- Bethesda, M.D. 1984. Toxicology and carcinogenesis studies of rotenone in F 344 /N. rats and B6 C 3 F mice. Report No.320. National Institute of Health. 2-55

- Bushway, R. J., B. S. Engdahl., B. M. Colvin, and A. R. Hanks. 1975. Separation of rotenoids and the determination of rotenone in pesticide formulations by high-performance liquid chromatography. *J. Assoc. Off. Anal. Chem.* 50(5): 965-970.
- Brunson, M. W. 1954. Using rotenone to renovate fish populations in farm ponds. Mississippi State University Extension Service. 4 pp.
- Cabizza, M., A. Angioni., M. Melis., M. Cabras., C. Tuberoso and P. Cabras. 2004. Rotenone and rotenoids in cubé resins, formulations, and residues on olives. *J. Agric. Food Chem.* (52): 288 – 293.
- Caldwell, B., E. B. Rosen, E. Sideman, A. M. Shelton, and C. D. Smart. 2005. Resource guide for organic insect and disease management: Material name: rotenone. (Online). Available: <http://www.nysaes.cornell.edu/pp/resourceguide/mfs/11retenone.php> (November 17, 2007).
- Cheng, H. M., I. Yamamoto, and J. E. Casida. 1972. Rotenone decomposition. *J. Agri. Food Chem.* 20: 850-856.
- Crosby, D.G. 1966. In Abstracts of the 152nd Meeting of American Chemical Society. American Chemical Society, Washington, D.C.
- D'Andrea, A., A. Aliboni, A. De Santis, S. Mariani, D. Gorgoglione, and A. Ritieni. 2007. SFE of *Derris elliptica* (Wallich) Benth. Roots: Influence of process parameters on yield and purity of rotenone. *J. Supercritical Fluids* 42(3): 330-333.
- Dawson, V. K., W. H. Gingerich, R. A. Davis, and P. A. Gilderhus, 1991. Rotenone persistence in freshwater ponds: Effects of temperature and sediment adsorption. *N. Am. J. Fish. Manag.* 11: 226–231.
- Dixon, A. F. G. 1978. Biology of aphids. The Institute of Biology's Studies in Biology No.44. University of Glasgow. The Camelot Press, Ltd., Southampton. 59 pp.
- Extonet, 1996. Rotenone: Pesticide Information Profiles. (Online). Available: <http://extonet.orst.edu/pips/rotenone.htm> (October 15, 2007)
- EPA, 2002. Controlling pests with rotenone. (Online). Environment Protection Agency. Fact Sheets, Office of Pesticide Programs, U.S.A. Available:http://www.epa.gov/oppsrrd1/REDs/facsheets/rotenone_fs.pdf (November 17, 2007)

- Fang, N., and J. E. Casida. 1998. Anticancer action of cubé insecticide: Correlation for rotenoid constituents between inhibition of NADH: ubiquinone oxidoreductase and induced ornithine decarboxylase activities. *Proc. Natl. Acad. Sci.* 95(7): 3380–3384.
- Fang, N., and J. E. Casida. 1999. Cube resin insecticide: identification and biological activity of 29 rotenoid constituents. *J Agric Food Chem.* 47: 2130-2136.
- Grainge, M., and S. Ahmed. 1987. *Handbook of Plants with Pest – Control Properties.* Resource Systems Institute, East–West Center, Honolulu, Hawaii. 379 pp.
- Gusmão, D. S., V. Páscoa., L. Mathias., I. J. C. Vieira., R. Braz-Filho. and F. J. A. Lemos. 2002. *Derris* (Lonchocarpus) *Urucu* (Leguminosae) extract modifies the peritrophic matrix structure of *Aedes aegypti* (Diptera: Culicidae). *Mem. Inst. Oswaldo Cruz, Rio de Janeiro*, 97(3): 371-375.
- Hill, F.F., G.R. Healt, J.W. Spann and J. D. Williams. 1975. Lethal dietary toxicities of environment pollutants to birds. In, a review of its toxicity and use for fisheries management.(Online). Available:<http://Rotenone> (Febuary 28,2004).
- Hooker, J. D. 1961. *The flora of British India.* VII Published Under the Authority of the Secretary of State for India Council. 792 pp.
- Humbert, H. et F. Gagnepain. 1920. *Flore Generale de L'Indo – chine Tome 2.* Museum National D' histoire Naturelle phanerogamie, Paris. pp. 218-613.
- Hussain, A., Ramirez, H., Bushuk, W. and Roca, W. M. 1988. Identification of cultivars of *Stylosanthes capitata* Vog. by polyacrylamide gel electrophoresis of seed proteins. *Euphytica* 37: 117-119.
- Hussain, A., Bushuk, W. and Roca, W. M. 1989. Identification of cultivars of forage legume *Pueraria phaseoloides* by electrophoretic patterns of storage proteins. *Euphytica* 41: 71- 73.
- Hussey, N.W. and N. Scopes. 1985. *Biological pest control, the greenhouse experience.* Blandford, London. 240 pp.
- Käferstein, F., and M. Abdussalam. 1999. Food safety in the 21st century: Policy and practice. *WHO Bull.* 77(4): 347-351.
- Kameya, M. and S. Ratanabhumma., (eds.). 1998. Joint study of IPM on cruciferous pests in Thailand: Preface. Report No. 07045039. The Faculty of Agriculture, Yamaguchi University, Yamaguchi, Japan. 85 pp.

- Kawpet, R. 2004. Effect of Potassium Chlorate to Isozyme pattern and free prolecn level in leave of Longan cv. Daw, Chompoo, Beawkaiw. M.S. Thesis. Chiang Mai University, Chiang Mai. 138 pp.
- Khera, K. S., C. Whalen, and G. Angers. 1982. Teratogenicity study on pyrethrum and rotenone (natural origin) and ronnel in pregnant rats. *J. Toxicol. Environ. Health* 10(1): 111-119
- Kidd, H. and James, D.R. (eds.). 1991. *The Agrochemicals Handbook*. 3rd ed. Royal Society of Chemistry Information Services, Cambridge, U.K.
- Lehman, A. J. 1950. Some toxicological reasons why certain chemicals may or may not be permitted as food additives. *Assoc. Food & Drug Officials U. S. Quart. Bull.* 14: 82-98.
- Li, N., K. Ragheb., G. Lawler, J. Sturgis, B. Rajwa, J. A. Melendez, and J. P. Robinson. 2003. Mitochondrial complex I inhibitor rotenone induces apoptosis through enhancing mitochondrial reactive oxygen species production. *J. Biol. Chem.* 278(10): 8516-8525
- Malanont, P. 1981. Taxonomic study of aphids at Bangkhen area, Bangkok. M.S. Thesis, Kasetsart University, Bangkok. 150 pp.
- Matsumura, F. 1985. *Toxicology of Insecticides*. Plenum Press, New York. 598 pp.
- Meijer, T. M., and D. R. Koolhaus. 1940. Determination of rotenone in derris root. *Ind. Eng. Chem., Anal. Ed.*, 12: 205-209.
- Mottram, D.S., R. L. S. Pattersow., D. N. Rhodes, and T. A. Gough 1975. Influence of ascorbic acid and pH on the formation of n-nitrosodimethylamine in cured pork containing added demethylamine. *J. Food Sci.* 38: 1084-1086
- National Institute of Health. 1984. Toxicology and carcinogenesis studies of rotenone in F344/N rat and B6C3F mice (Report No. 320). National Institute of Health, Bethesda, Maryland.
- National Research Council. 1983. *Drinking Water and Health*. Vol. 5. National Academy Press. Washington, D.C. 2-24
- Niyomtham, C. 1994. Key to the genera of Thai papilionaceous plants. *Thai Far. Bull. (BOT.)* 22: 26-88.
- Pasteur, N., G. Pasteur., F. Bonhomme., J. Calalan and J. Brottpm-Davidian. 1988. *Practical Isozyme Genetics*. Ellis Horwood Ltd., London. 215 pp.

- Pimsamarn, S., R. Promsattha and S. Somboon. 2003. Plant extracts from *Stemmona* spp. for insect control. The Sixth National Plant Protection Conference. (Abstract). p. 22.
- Pitiyont, V., and A. Sangwanich. 1997. Extraction, isolation and identification of pesticidal compounds from *D. elliptica*. The Second Conference of Agricultural Toxic Substance Division, Department of Agriculture, Bangkok. pp. 84-92.
- Pongboonrod, S. 1965. Foreign and Thai plant. Thaiterdtam Press, Bangkok. 596 pp.
- Pornpisit, L. 1997. Emulsion of cosmetic. O.S. Printing House, Bangkok. 238 pp.
- Prarasri, J. 2005. Study isozyme pattern of *Eulophia graminea* Lindl. and *E. andamanensis* Rchb. The Fifth National Horticultural Congress, Chonburi, Thailand.
- Ray, D. E. 1991. Pesticide derived from plants and other organisms. pp... . In: W. J. Hayes and E. R. Laws, (eds.), Handbook of Pesticide Toxicology. Academic Press, New York.
- Rejesus, B. M., V. R. Ocampo, and E. L. Inocencio. 1995. Bioassay of *Derris* extracts and its formulated products for insecticidal and mammalians toxicity. Derris Research Program, Department of Science and Technology, The Philippines University. pp. 31-82.
- Ridley, H.N. 1922. The Flora of the Malay Peninsula. Vol.1. Published under the authority of the government of the straits settlements. 593-599
- Sae-Yun, A., C. Ovatiarnporn, A. Itharat, and R. Wiwattanapatapee. 2006. Extraction of rotenone from *Derris elliptica* and *Derris malaccensis* by pressurized liquid extraction compared with maceration. J. Chromatogr. A, 1125 (2): 172–176.
- Samittinun, T. 1980. Plant Variety of Thailand. Collection plant building. Forest Ministry. Bangkean. Bangkok. 379 pp.
- Sangmaneedet, S., K. Kanistanon., P. Papirom, and T. Tessiri. 2005. Uses of Thai medicinal herb (*Derris elliptica* (Roxb.) Benth) in control of fly larva population and its application in the treatment of cutaneous myiasis in animals. KKU. Res. J. 10(1): 22-30.
- Siripanit, J. 1988. Enzyme and protein in plant. pp. 14-16. In. Training Handbook of Classified Plant by Electrophoresis Technique. Research and Development Institute, Kasetsart University, Kampangsan Campus.

- Smith J. 1994. Rotenone: Method 5007, Issue 2. (Online). NIOSH Manual of Analytical Methods (NMAM), 4th ed. 3 pp. Available: <http://o.www.cdc.gov.pugwash.lib.warwick.ac.uk/noish/nmam/pdfs/5007.pdf> (October 15, 2007).
- Sottikul, A. 1999. Study on suitable method of derris stem-cutting propagation. LARTC. Rajamangala Institute of Technology Report. 9 pp.
- Sottikul, A. 2000. Efficiency of some plant extract to control *Polyphagotarsonemus latus* (Banks). The Third National Horticultural Congress, Bangkok.
- Sottikul, A. 2001. Efficiency of some local plant extractions to control flea beetles (*Phyllotreta* spp.) pp. 47-54. The Fifth National Plant Protection Conference, Chiang Mai.
- Sottikul, A. 2007. Hand book of insect pest control by non synthetic insecticide. LARTC. Rajamangala University of Technology Lanna. 25 pp.
- Sottikul, A. and P. Srumsiri. 2005. Determine of rotenone degradation after sprayed derris extract by high performance liquid chromatography (HPLC) method. The Third Academic Conferment of Faculty of Agriculture, Chiang Mai University, Chiang Mai.
- Sottikul, A. and P. Srumsiri. 2006. Rotenone quantity and isozyme patterns of *Derris malaccensis* Prain and *Derris elliptica* Bent. Agri. Sci. J. 37(1): 13-19.
- Sottikul, A., P. Srumsiri, and P. Sukumalanand. 2006. Increasing effective water extracted rotenone from derris root relation to light adsorption. The Sixth National Horticultural Congress. Chiang Mai University, Chiang Mai.
- Srijukavan, S., A. Kasampasart., P. Kaidisiri and N. Yudjan. 1988. Growth and rotenone content in various age of derris. Kasetsart Sci. J. 21(3): 166 – 175.
- Stavroulakis, G., K. A. Adediran., A. Nikoloudia., C. Petrakis., A. Kalaitzaki and S. Michelakis. 2001. Rotenone: Efficiency against *Bactrocera oleae* Gmelin and residual activity in olive oil. Biol. Agri. Hort. 19: 207-217.
- Sudto, P. 1992. Pest contorted by herb plant. Department of Agriculture, Toxic Substance Division. 19: 139-144.
- Thungrabeab, M., and S. Tongma. 2007. Compatibility of entomopathogenic fungi with derris extract. pp. 60-68. In: Proceedings of the 1st International Meeting for Development of IPM in Asia and Africa. Chiang Mai University, Chiang Mai.

- Tongma, S., A. Sottikul., Y. Kaosumain, and N. Tiengburanaturm. 2004. Appropriate cultural practice for derris root production. LARTC. Rajamongala Institute of Technology Report. 48 pp.
- Toxopeus, H. J. 1952. Studies in the breeding of *Derris elliptica* and *Derris malaccensis*. Euphytica 1: 34 – 42.
- Triplehorn, C. A., and N. F. Johnson. 2005. Borror and DeLong's Introduction to the Study of Insects. 7th ed. Thomson Brooks/Cole, Belmont, California.
- Unjitwatana, U., S. Kochrat, and A. Sangwanich. 2006. Acute toxicity of Derris (*Derris elliptica* B.) and its effect on Cholinesterase of *Tilapia nilotica* L. Office of Research and Development of Botanical Pesticides, Department of Agriculture, Bangkok. 7 pp.
- U. S. Environmental Protection Agency, 2007. Registration eligibility decision for rotenone. (Online). EPA 738-R07-005. Available: http://www.epa.gov/oppsrrd1/REDs/rotenone_red.pdf (November 20, 2007).
- U. S. National Library of Medicine. 1995. Hazardous Substances Databank. Bethesda, Maryland.
- Visetson, S., and M. Milne. 2001. Effect of root extract from derris (*Derris elliptica* Benth) on mortality and detoxification enzyme levels in the diamondback moth larvae (*Plutella xylostella* Linn.). Kasetsart J. (Nat. Sci.) 35: 157-163.
- Wagne, J. and T. L. Stanton. 2006. Formulation Rations with the Pearson Square. (Online). Colorado State University Extention. Available: <http://www.ext.colostate.edu/PUBR/LIVESTK/01618.html> (November 17, 2007).
- WHO. 1992. Rotenone health and safety guide. (Health and Safety Guide No.73). World Health Organization, Geneva.
- Wikipedia, 2006. Polysorbate 80. (Online).Wikipedia, the free encyclopedia.Wikipedia Organization. Available: http://en.wikipedia.org/wiki/Polysorbate_80 (October 12, 2006).
- Wikipedia, 2007. Rotenone. (Online).Wikipedia, the free encyclopedia.Wikipedia Organization. Available: <http://en.wikipedia.org/wiki/Rotenone> (November 17, 2007).

- William, M. Draper, Jagdev S. Dhoot and S. Kusum Perera. 1999. Determination of rotenoids and piperonyl butoxide in water, sediments and piscicide formulations. *J. Environ. Monit.*, 1, 519-524
- Worawong, K., and S. Pimsamarn. 2003. Effectiveness of *Derris elliptica* Benth. extract on broad mite *Polyphagotarsonemus latus* Banks. The Sixth National Plant Protection Conference. (Abstract). p. 84.
- Worsley, R. R. 1938. Rotenone: Part I. The determination of rotenone-part II- evaluation of plants containing rotenone. *Lingnan Sci. J.* 17(2): 317.
- Xinnian, Z., X. Jianjun, and H. Xuwen. 2000. Isolation and HPLC analysis of rotenone in vitro tissue cultures of plants. *Chinese J. Trop. Crops* 21(4): 26-32.
- Zeng, X. N., J. Coll, S. X. Zhang, X. Q. Liu, and F. Camps. 2002. Modification of the analytical method for rotenoids in plants. *AbstractPlus. Chinese J. Chromatogr.* 20(2): 144-147.

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