

REFERENCE

- Abu-Qare, AW., Abou-Donia, MB. Urinary excretion of metabolites following a single dermal dose of [¹⁴C] methyl parathion in pregnant rats. *Toxicol.* 2000; 150: 119-127.
- Abu - Qare, AW., Abdel-Rahman, AA., Ahmad, H., Kishk, AM., Abu-Donia, MB. Absorption, distribution, metabolism and excretion of daily oral dose of [¹⁴C] methyl parathion in hens. *Toxicol Lett.* 2001; 125: 1-10.
- Aeschbach, R., Loliger, J., Scott, BC., Murcia, A., Butler, J., Halliwell, B., Aruoma, OI. Antioxidant action of thymol, carvacol, 6-gingerol, zingerone and hydroxytyrosol. *Food Chem Toxicol.* 1994; 32(1): 31-36.
- Ahmed, RS., Seth, V., Pasha, ST., Banerjee, BD. Influence of dietary ginger (*Zingiber officinale* Roscoe) on oxidative stress induced by malathion in rats. *Food Chem Toxicol.* 2000; 38: 433-450.
- Alberes, A., Ortega-Mantilla, G., Sierra-Santoyo, A., Cerbrian, ME., Munoz- Sanchez, LJ., Calderen-Sslinas, JV., Manno, M. Cytochrome P450 2B(CYP2B)-mediated activation of methyl parathion in rat brain extract. *Toxicol Lett.* 2001;124:1-10.
- Alessio, HM. Lipid peroxidation in healthy and diseased models : influence of different types of exercise. In: Sen, CK., Packer, L., Hannien, O. (Ed.), *Handbook of oxidants and antioxidants in exercise.* Amsterdam: Elsevier; 2000. pp. 115-117.
- Asmus, KD., Bonifacic, M. Free radical chemistry. In: Sen, CK., Packer, L., Hannien, O. (Ed.), *Hand book of oxidants and antioxidants in exercise.* Amsterdam: Elsevier; 2000. pp. 5-7.
- Balladin, DA., Headley, O., Chang-Yen, I., McGaw, DR. High pressure liquid chromatographic analysis of the main pungent principles of solar dried West Indian ginger (*Zingiber officinale* Roscoe). *Renew Energ.* 1998; 13(4):531-536.

- Barnes, J., Khalil, AH., Phillipson, JD. Herbal medicines. 2nd ed. London: Pharmaceutical Press; 2002. pp. 243-249.
- Barr, DB., Turner, WE., McClure, PC. Measurement of p-nitrophenol in the urine of residents whose home were contaminated with methyl parathion. Environ Health Persp. 2002; 10: 1085-1091.
- Beutler, E., Duron, O., Kelly, MB. Improved method for the determination of blood glutathione. J Lab and Clin Med. 1963; 61: 882-888.
- Bhandari, U., Sharma, JN., Zafar, R. The protective action of ethanolic ginger (*Zingiber officinale* Roscoe) extracts in cholesterol fed rabbits. J Ethnopharmacol. 1998; 61: 167-171.
- Castillo, CG., Montante, M., Dufour, L., Martinez, ML., Jimenez-Capdeville, ME. Behaviour effects of exposure to endosulfan and methyl parathion in adult rats. Neurotoxicol Teratol. 2002; 5514: 1-8.
- Chen, CC., Rosen, RT., Ho, C. Chromatographic analysis of isomeric shogaol compounds derived from isolated ginger compounds of ginger (*Zingiber officinale* Roscoe). J Chromatogr. 1986; 360: 175-184.
- Cotgreave, IA., Gerdes, RG. Recent trends in glutathione biochemistry-glutathion-protein interaction : A molecular link between oxidative stress and cell proliferation. Biochem Biophys Res Co. 1998; 242: 1-9.
- El-badawi, A., Schenk, EA. Histochemical methods for separate, consecutive and simultaneous demonstration of acetylcholinesterase and norepinephrine in cryostat sections. J Histochem Cytochem. 1967; 15(10): 580-584.
- Eun, BK., Kyu, WS. Antioxidant activity of crude gingerol : thermal stability of gingerol from ginger and effect of its concentration on the oxidation of soybean oil. J Korean Soc Food Sci. 1993; 9: 33-36.
- Ernest, B., Olga, D., Barbara, M. Improved method for the determination of blood glutathione. J Lab and Clin Med. 1963; 61: 794-795.
- Gazzani, G. Anti and prooxidant activity of some dietary vegetables. Riv Sci Aliment. 1994; 23: 413-426.

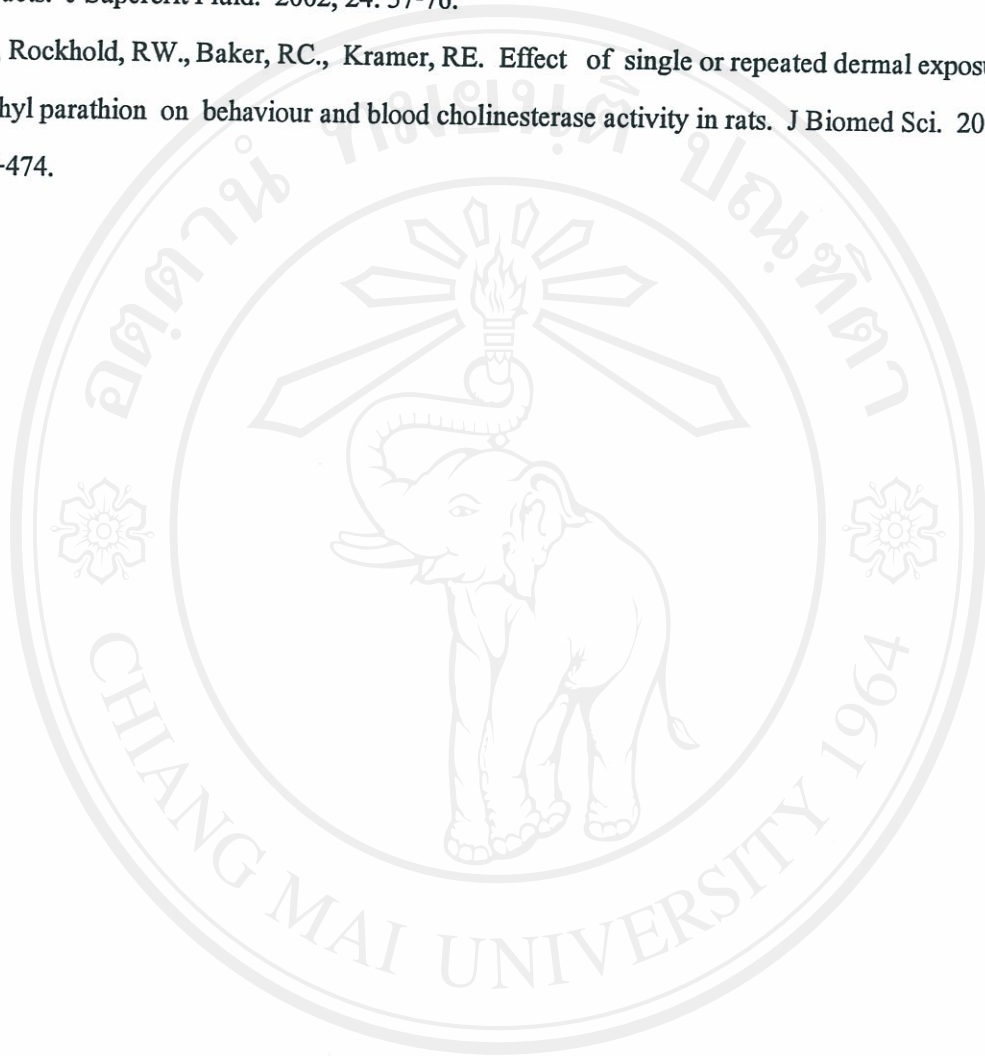
- Gerber, M. Oxidative stress, antioxidants and cancer In: Sen, CK., Packer, L., Hannien, O. (Ed.), Hand book of oxidants and antioxidants in exercise. Amsterdam: Elsevier; 2000; pp.5-7.
- Gutteridge, JMC. Lipid peroxidation and antioxidant as biomarkers of tissue damage. Clin Chem. 1995; 41: 1819-1828.
- Habig, HW., Pabst, MJ., Jakoby, WB. Glutathione -S- transferase : the first enzymatic step in mercapturic acid formation. J Biochem. 1974; 249(22): 7130-7139.
- Huang, YS., Sultatos, LG. Glutathione - dependent biotransformation of methyl parathion by mouse liver in vitro. Toxicol Lett. 1993; 68: 275-284.
- Ilio, CD., Sacchetta, P., Iannarelli, V., Aceto, A. Binding of pesticides to alpha, mu and pi class glutathione transferase. Toxicol Lett. 1995; 76: 173-177.
- IPCS. *Environmental health criteria 145 : Methyl parathion*. Geneva: World Health Organization, 1996.
- Kehrer, JP. Free radical as mediator of tissue injury and disease. Crit Rev Toxicol. 1993; 23: 21-48.
- Liu, J., Oliver, K., Pope, CN. Comparative neurochemical effects of repeated methyl parathion or chlorpyrifos exposures in neonatal and adult rats. Toxicol Appl Pharm. 1999; 158: 186-196.
- Lopes, VICF., Antunes-Maderia, MC., Madeira, VMC. Effects of methyl parathion on membrane fluidity and its implications for the mechanism of toxicity. Toxicol In vitro. 1997; 11: 337-345.
- Luperchio, S., Tamir, S., Tannenbaum, SR. NO-induced oxidative stress and glutathione metabolism in rodent and human cells. Free Radical Bio Med. 1996; 21(4): 513-519.
- Mansour, EH., Khalil, AH. Evaluation of antioxidant activity of some plant extracts and their application to ground beef patties. Food Chem Toxicol; 2000 ; 69: 135-141.
- Marks, DB., Marks, AD., Smith, CM. Basic medical biochemistry: A clinical approach. Philadelphia: Williams and Wilkins; 1996. pp. 330-331.
- Nagababu, E., Lakshmaiah, N. Inhibitory effects of eugenol on non enzymatic lipid peroxidation of rat liver mitochondria. Biochem Pharm. 1992; 43: 2393-2400.
- Naidu, KA. Eugenol: An inhibitor of lipoxygenase dependent lipid peroxidation. Prostag Leucotr Ess. 1995; 53: 381-383.

- Newall, CA., Anderson, LA., Phillipson, JD. Herbal medicines: a guide for health care professionals. London: The pharmaceutical Press; 1996. pp. 135-137.
- Oqus, IH., Balk, M., Aksory, Y., Muftuoglu, M., Ozer, N. The effects of oxidative stress on the redox system of human erythrocyte. In: Ozben. (Ed.). Free radicals, oxidative stress and antioxidants. New York: Plenum Press; 1998. pp. 25-35.
- Parke, DV. Nutritional antioxidants and disease prevention: Mechanism of action. In: Basu, TK., Temple, NJ., Garg, ML. (Ed.). Antioxidants in human health and disease. CABI publishing; 1999. pp. 5.
- Pastore, A., Federici, G., Bertini, E., Piemonte, F. Analysis of glutathione: implication in redox and detoxification. Clin Chem Acta. 2003; 333: 19-39.
- Poolack, M., Leeuwenburgh, C. Molecular mechanism of oxidative stress in aging: free radicals, aging, antioxidants and disease. In: Sen, CK., Packer, L., Hannien, O. (Ed.), Hand book of oxidants and antioxidants in exercise. Amsterdam: Elsevier; 2000; pp.890-892.
- Pope, CN., Haward, MD. In vitro effects of chlorpyrifos, parathion, methyl parathion and their oxons on cardiac muscarinic receptor binding in neonatal and adult rats. Toxicol. 2002; 170: 1-10.
- Pulla, RAC., Lokesh, BR. Studies of spice principles as antioxidants in the inhibition of lipid peroxidation of rat liver microsomes. Mol Cell Biochem. 1995; 53: 381-383.
- Re, R., Pellergrin, N., Proteggents, A., Pannala, A., Yang, M., Rice-Evans, C. Antioxidant activity applying an improved ABTS radical cation decolorization assay. Free Radical Bio Med. 1999; 26(9/10): 1231-1237.
- Richard, AM. Skeletal muscle and smooth muscle. In: Rodney, AR., George, AT. Medical physiology. 5th ed. New York: Lippincott Williams & Wilkins; 2003. pp. 154-155.
- Sen, CK. Nutritional biochemistry of cellular glutathione. J Nutr Biochem. 1997; 8: 660-672.
- Sharma, SS., Kochupilla, V., Gupta, SK., Seth, SD., Gupta, YK. Antiemetic efficacy of ginger (*Zingiber officinale* Roscoe) against cisplatin induced emesis in dogs. J Ethnopharmacol. 1997; 57: 93-96.
- Shobana, S., Naidu, KA. Antioxidant activity of selected Indian spices. Prostag Leukotr Ess. 2000; 62(2): 107-110.

- Somani, AM. Antioxidant properties of glutathione and its role in tissue protection. In: Baskin, SI., Salem, H. (Ed.), *Oxidants, Antioxidants and Free radicals*. New York: Taylor and Francis; 1997. pp. 171-192.
- Sujatha, R., Srinivas, L. Modulation of lipid peroxidation by dietary components. *Toxicol In Vitro*. 1995; 9(3): 231-236.
- Surh, JY. Molecular mechanisms of chemopreventive effects of selected dietary and medicinal phenolic substances. *Mutat Res*. 1999; 428: 305-327.
- Sciuto, AM. Antioxidant properties of glutathione and its role in tissue protection. In: Baskin, SI and Salem, H., (Ed.), *Oxidants, Antioxidants and Free radicals*. New York: Taylor and Francis; 1997. pp. 171-192.
- Santos, MT., Vealles, J., Aznar, J., Vilches, J. Determination of plasma malondialdehyde-like material and its clinical application in stroke plasma patients. *J Clin Pathol*. 1980; 33: 973-976.
- Ternay, AL., Sorokin, V. Redox, Radicals and antioxidant. . In: Baskin, SI and Salem, H., (Ed.). *Oxidants, Antioxidants and Free radicals*. New York: Taylor and Francis; 1997. pp.3-4.
- Timbrell, J. *Principle of biochemical toxicology*. 3rd ed. London: Taylor and Francis; 2000. pp.3-4.
- Tsushida, T., Suzuki, M., Murogi, M. Evaluation of antioxidant activity of vegetable extracts and determination of some active compounds. *J Japan Soc Food Sci Technol*. 1994; 41: 611-618.
- Vella, F. Is there an answer?. *Life*. 2003; 55(9): 553-554.
- Videira, RA., Antunes-Maderia, MC., Lopes, VICF., Madeira, VMC. Changes induced by malathion, methyl parathion and parathion on membrane lipid physicochemical properties correlate with their toxicity. *Biochem Biophys Acta*. 2001; 1511: 360-368.
- Vidyasagar, J., Karunakar, N., Reddy, MS., Rajanarayana, K., Surender, T., Krishna, DR. Oxidative stress and antioxidant status in acute organophosphorus insecticide poisoning. *Indian J Pharmacol*. 2004; 36(2): 76-79.
- Whealtley, CH. *Human physiology*. 7th ed. New York: McGraw-Hill Higher Education. 2002. pp. 172-174.
- Yoshikawa, T., Naito, Y. What is oxidative stress?. *Oxidative Stress*. 2002; 45(7): 271-276.

Zancan, KC., Marques, MOM., Petenate, AJ., Meireles, MAA. Extraction of ginger (*Zingiber officinale* Roscoe) oleorsin with CO₂ and CO-solvents: a study of the antioxidant action of the extracts. *J Supercrit Fluid.* 2002; 24: 57-76.

Zhu, H., Rockhold, RW., Baker, RC., Kramer, RE. Effect of single or repeated dermal exposure to methyl parathion on behaviour and blood cholinesterase activity in rats. *J Biomed Sci.* 2001; 8: 467-474.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University

All rights reserved