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- Abate C, Patel L, Rauscher FJ and Curran T (1990). Redox regulation of *fos* and *jun* DNA-binding activity *in vitro*, *Science*, 249, 1157-1161.
- Achliya GS, Kotagale NR, Wadodkar SG and Dorle AK (2003). Hepatoprotective activity of Panchagavya Ghrita against carbon tetrachloride induced hepatotoxicity in rats, *Indian J Pharmacol.*, 35, 308-311.
- Achuthan CR, Babu BH and Padikala J (2003). Antioxidant and hepatoprotective effects of *Rasa damascene*, *Pharma. Biol.*, 41, 357-361.
- Aeschbach R, Loliger J, Scott BC, Murcia A, Bulter J, Halliwell B and Aruoma OI (1994). Antioxidant actions of thymol, carvacrol, 6-gingerol, zingerone and hydroxyl tyrosol, *Food Chem. Toxicol.*, 32, 31-36.
- Agarwal M, Srivastava VK, Saxena KK and Kumar A (2006). Hepatoprotective activity of *Beta vulgaris* against CCl₄-induced hepatic injury in rats, *Fitoter.*, 72,91-93.
- Aithal GP (2005). When is a herb a drug? , *Eur. J Gastroenterol. Hepatol.*, 17, 391-393.
- Ajit TA and Janardhanan KK (2003). Cytotoxic and antitumour activities of polypore macrofungus, *Phellinus rimosus* (Berk) Pilat, *J Ethnopharmacol.*, 84, 157-162.
- Akhtar MS and Munir M (1989). Evaluation of the gastric antiulcerogenic effects of *Solanum nigrum*, *Brassica oleracea* and *Ocimum basilicum* in rats, *J Ethnopharmacol.*, 27, 163-176.
- Albanes D, Heinonen OP, Taylor PR, Virtamo J, Edwards BK, Rautalahti M, Hartman AM, Palmgren J, Freedman LS, Haapakoski J, Barrett MJ, Pietinen P, Malila N, Tala E, Liippo K, Salomaa ER, Tangrea JA, Teppo L, Askin FB, Taskinen E, Erozan Y, Greenwald P and Huttunen JK (1996). Alpha-Tocopherol and Beta-carotene supplements and Lung cancer Incidence in the Alpha-Tocopherol, Beta-carotene cancer prevention study: Effects of Baseline characteristics and study compliance, 88, 1560-1570.
- Albano E, Clot P, Comoglio A, Dianzani MU, Tonasi A (1994). Free radical activation of acetaldehyde and its role in protein alkylation, *FEBS Lett.*, 348, 65-69.
- Aleynik SI, Leo MA, Aleynik MK and Lieber CS (1998). Increased circulating products of lipid peroxidation in patients with Alcoholic liver disease, *Alcohol. Clin. Exp. Res.*, 22, 192-196.
- Aliyu R, Okoye ZS and Shier WT (1995). The hepatoprotective cytochrome P450 enzyme inhibitor isolated from the Nigerian medicinal plant *Cochlospermum planchonii* is a zinc salt, *J Ethnopharmacol.*, 48, 89-97.
- Allain CC, Poon LS, Chan CS, Richmond W and Fu PC (1974). Enzymatic determination of total serum cholesterol, *Clin. Chem.*, 20, 470-475.
- Amin A and Hamza AA (2005). Hepatoprotective effects of *Hibiscus rosmarnus* and salvia on azathioprine-induced toxicity in rats, *Life Sci.*, 77, 266-278.
- An HJ, Kwon KB, Cho HI, Seo EA, Ryu DG, Hwang WJ, Yoo SJ, Kim YK, Hong SH and Kim HM (2005). *Solanum nigrum* produces nitric oxide via nuclear factor-kappa B activation in mouse peritoneal macrophages, *Eur. J Can. Pre.*, 14, 345-350.
- Anggard E (1994). Nitric oxide: mediator murder and medicine, *Lancet*, 343, 1199-1206.
- Aniya Y, Miyagi C, Nakandakari A, Kamiya S, Imaizumi N and Ichiba T (2002). Free radical scavenging action of the medicinal herb *Limonium wrightii* from the Okinawa islands, *Phytomed.*, 9, 239-244.
- Anon (1956). The wealth of India: A dictionary of Indian Raw materials and Industrial Products. Raw Materials, Vol. IX: Rh-SO. Council of Scientific and Industrial Research, New Delhi.

- 📖 Anuradha CV and Balakrishnan SD (1998). Effect of training on lipid peroxidation, thiol status and antioxidant enzymes in tissues of rats, *Indian J Physiol. Pharmacol.*, 42, 64-70.
- 📖 Armutcu F, Coskun O, Gurel A, Sahin S, Kanter M, Cihan A, Numanoglu KV and Altinyazar C (2005) Vitamin E protects against acetone-induced oxidative stress in rat blood cells, *Cell. Biol. Toxicol.*, 29, 173-178.
- 📖 Arnon DI (1949) Copper enzymes in isolated chloroplasts, polyphenol oxidase in *Beta vulgaris*, *Plant Physiol.*, 24, 1-5.
- 📖 Aruoma OI (1999). Antioxidant actions of plant foods: Use of oxidative DNA damage as a tool for studying antioxidant efficacy, *Free Radic. Res.*, 30, 419-427.
- 📖 Atawodi SE (2005). Antioxidant potential of African medicinal plants, *African J Biotech.*, 4, 128-133.
- 📖 Athukorala Y, Lee KW, Park K EJ, Heo MS, Yeo IK, Lee YD and Jeon YJ (2005). Reduction of lipid peroxidation and H₂O₂ mediated DNA damage by a red algae (*Grateloupia filicina*) methanolic extract, *J. Sci. Food Agric.*, 85, 2341-2348.
- 📖 Attaguile G, Ruso A, Campisi F, Savoca R, Acquaviva N, Ragusa and Venella A (2000). Antioxidant activity and protective effect on DNA cleavage of extracts from *Cistus incanus* L. and *Cistus monspeliensis* L, *Cell Biol. Toxicol.*, 16, 83-90.
- 📖 Augusti KT, Anuradha, Prabha SP, Smitha KB, Sudeesh M, George A and Joseph MC (2005). Nutraceutical effects of garlic oil, its non polar fraction and a *ficus* flavonoid as compared to vitamin E in CCl₄ induced liver damage in rats, *Indian J Exp. Biol.*, 43, 437-444.
- 📖 Augustyniak A, Waszkiewicz E and Skrzydlewska E (2005). Preventive action of green tea from changes in the liver antioxidant abilities of different aged rats intoxicated with ethanol, *Nutrition*, 21,925-932.
- 📖 Azzi A, Gysin R, Kempna P, Munteanu A, Negis Y, Villacorta L, Visarius T and Zingg JM (2004). Vitamin E mediates cell signaling and regulation of gene expression, vitamin E and health, *Ann NY Acad. Sci.*, 1031, 86-95.
- 📖 Babu TD, Kuttan G and Padikkala J (1995). Cytotoxic and antitumour properties of certain taxa of *Umbelliferae* with special reference to *Centella asiatica* L. urban, *J Ethnopharmacol.*, 48, 53-57.
- 📖 Badami S, Gupta MK and Suresh B (2003a). Antioxidant activity of the ethanolic extract of *Striga orobanchioides*, *J Ethnopharmacol.*, 85, 227-230.
- 📖 Badami S, Reddy SA, Kumar EP, Vijayan P and Suresh B (2003b). Antitumour activity of total alkaloid fraction of *Solanum pseudocapsicum* leaves, *Phytothe. Res.*, 17, 1001-1004.
- 📖 Bafna PA and Balaraman R (2005). Antiulcer and antioxidant activity of pepticare, a herbomineral formulation, *Phytomed.*, 12, 264-270.
- 📖 Bagchi D, Bagchi M, Stohs SJ, Das DK, Ray SD, Kuszynski CA, Joshi SS and Pruess HG (2000). Free radicals and grape seed proanthocyanidin extract: importance in human health and disease prevention, *J Toxicol.*, 148, 187-197.
- 📖 Balasenthil S and Nagini S (2000). Garlic extracts hepatoprotective effects during 4-nitroquinoline 1-oxide induced oral carcinogenesis in rats, *Asia Pacific J Clin.Nutr.*, 9, 136-138.
- 📖 Balinsky D and Bernstein RE (1963). The purification and properties of glucose 6-phosphate dehydrogenase from human erythrocytes, *Biochem. Biophys. Acta.*, 67, 313-315.
- 📖 Banerjee AK, Mandal A, Chanda D and Chakraborti S (2003). Oxidant, antioxidant and physical exercise, *Mol. Cell. Biochem.*, 253, 307-312.
- 📖 Banskota AH, Tezuka Y, Nguyen NT, Awale S, Nobukawa T, Kadota S (2003). DPPH Radical Scavenging and Nitric Oxide Inhibitory activities of the constituents from the wood of *Taxus yunnanensis*, *Planta Med.*, 69, 500-505.

- Barhoumi R, Bowen JA, Stein LS, Echols J and Burghardt RC (1993). Concurrent analysis of intracellular glutathione content and gap junctional intercellular communication, *Cytometry*, 14, 747-756.
- Bast A, Haenen GR and Doelman GJ (1991). Oxidants and antioxidants: State of the art, *Am. J Med.*, 91, 2S-13S.
- Bayfield RF and Cole EF (1980). Colorimetric estimation of vitamin A with trichloroacetic acid, *Meth. Enzymol.*, 67, 189-195.
- Beauchamp C and Fridovich I (1970). A mechanism for the production of ethylene from methanol. The generation of hydroxyl radical by xanthine oxidase, *J Biol. Chem.*, 245, 4641-4646.
- Beck MM and Levander OA (1998). Dietary oxidative stress and the potentiation of viral infection, *Annu. Rev. Nutr.*, 18, 93-116.
- Beckman KB and Ames BN (1998). The free radical theory of aging matures, *Physiol. Rev.*, 78, 547-581.
- Bendich A (1990). Antioxidant micronutrients and Immune responses, *Ann. NY. Acad. Sci.*, 587, 168-180.
- Benzie IF (2003). Evolution of dietary antioxidants, *Comp. Biochem. Physiol. A Mol. Integr. Physiol.*, 136, 113-126.
- Bergmeyer HU, Scheibe P and Wahlefeld AW (1978). Optimization of methods for aspartate amino transferase and alanine amino transferase, *Clin. Chem.*, 24, 58-73.
- Beuge JA and Aust SD (1978). Microsomal lipid peroxidation methods, *Enzymology*, 52, 302-310.
- Bhandarkar M and Khan A (2003). Protective effect of *Lawsonia alba* Lam. against CCl₄ induced hepatic damage in rats, *Indian J Exp. Biol.*, 41, 85-87.
- Bhattacharya A, Chatterjee A, Ghosal S and Bhattacharya SK (1999). Antioxidant activity of active tannoid principles of *Embllica officinalis* (amla), *Indian J Exp. Biol.*, 37, 676-680.
- Bhattacharya S, Subramaniam M, Roychowdhury S, Kamat JP, Bauri AK and Bandyopadhyay SK (2005). Radio protective property of the ethanolic extract of *Piper betel* leaf, *J Radi. Res.*, 46, 165-171.
- Bhattacharyya D, Pandit S, Mukherjee R, Das N and Sur TK (2003). Hepatoprotective effect of Himoliv, a polyherbal formulation in rats, *Indian J Physiol. Pharmacol.*, 47, 435-440.
- Bhupinder K, Gurusharan K, Amajit K, Bhatti KN, Sandhu SM and Kaur K (2004). Natural scavenger fresh Vs processed foods, *Indian Food Ind.*, 23, 51-60.
- Bhuvanewari V, Velmurugan B and Nagini S (2002). Induction of glutathione dependent hepatic biotransformation enzymes by lycopene in the hamster cheek pouch carcinogenesis model, *J Biochem. Mol. Biol. Biophys.*, 6, 257-260.
- Biard C, Surai PF and Moller AP (2005). Effects of carotenoid availability during laying on reproduction in the blue tit, *Oecologia*, 144, 32-44.
- Biasiak J, Trzeciak A, Gasiorowska A, Drewoski J and Malecka-Panas E (2002). Vitamin C and quercetin modulate DNA damaging effect of N-methyl-N'-nitro-N-nitrosoguanidine (MNNG), *Plant Foods Human Nutr.*, 57, 53-61.
- Bienert GP, Schjoerring JK and Jahn TP (2006). Membrane transport of hydrogen peroxide, *Biochim. Biophys. Acta.*, 1758, 994-1003.
- Bishayee A, Sarkar A and Chatterjee M (1995). Hepatoprotective activity of carrot (*Daucus carota* L.) against carbon tetrachloride intoxication in mouse liver, *J Ethnopharmacol.*, 47, 69-74.

- 📖 Blokhina O, Virolainen E and Fagerstedt KV (2003). Antioxidant oxidative damage and oxygen deprivation stress: a review, *Anna. Bot. (Lond)*, 91, 179-194.
- 📖 Bohr VA, Stevnsner T and desouza-pinto NC (2002). Mitochondrial DNA repair of oxidative damage in mammalian cells, *Gene*, 286, 127-134.
- 📖 Boiteux S and Radicella JP (2000). The human gene: structure, functions and its implication in the process of carcinogenesis, *Arch. Biochem. Biophys.*, 377, 1-8.
- 📖 Borelli F and Izzo AA (2000). The plant kingdom as a source of antiulcer remedies, *Phyther. Red.*, 14, 581-591.
- 📖 Borris RP (1996). Natural products research: perspectives from a major pharmaceutical company, Merck Research Laboratories, *J Ethnopharmacol.*, 51, 29-38.
- 📖 Boya P, De la pena A, Belouqui O, Larrea E, Casterlruiz Y, Civeiria MP, and Oscar B (1999). Antioxidant status and glutathione metabolism in peripheral blood mononuclear cells from patients with chronic hepatitis C, *J Hepatol.*, 31, 808-814.
- 📖 Brendler-schwaab S, Hartmann A, Pfuhrer S and Speit G (2005). The *in vivo* comet assay: use and status in genotoxicity testing, *Mutagenesis*, 20, 245-254.
- 📖 Brezova V, Valko M, Breza M, Morris H, Telsler J, Dvoranova D, Kaiserova K, Varecka L, Mazur M and Leibfritz D (2003). Role of radicals and singlet oxygen in photoactivated DNA cleavage by the anticancer drug camptothecin, an electroparamagnetic resonance study, *J Phy. Chem. B.*, 107; 2415-2425.
- 📖 Bucolo G and David H (1973). Quantitative determination of serum triglycerides by the use of enzymes, *Clin. Chem.*, 19, 476-482.
- 📖 Busciglio J and Yankner BA (1995). Apoptosis and increased generation of reactive oxygen species in Down's syndrome neurons *in vitro*, *Nature*, 378, 776-779.
- 📖 Cai Y, Luo Q, Sun M and Corke H (2004). Antioxidant activity and phenolic compounds of 112 traditional Chinese medicinal plants associated with anticancer, *Life Sci.*, 74, 2157-2184.
- 📖 Calomme M, Pieters L, Vlietinck A and Vander Berghe D (1996). Inhibition of bacterial mutagenesis by citrus flavonoids, *Planta Med.*, 62, 222-226.
- 📖 Campo GM, Avenoso A, Campo S, D'Ascola A, Ferlazzo AM and Calatroni A (2004). The antioxidant and antifibrogenic effects of the glycosaminoglycans hyaluronic acid and chondroitin-4-sulphate in a subchronic rat model of carbon tetrachloride-induced liver fibrogenesis, *Chem. Biol. Interact.*, 148, 125-138.
- 📖 Campo GM, Squadrito F, Ceccarelli S, Avenoso A, Campo S, Squadrito G and Altavilla D (2001). Reduction of carbon tetrachloride-induced rat liver injury by IRFI 042, a novel dual vitamin-E-like antioxidant, *Free Radic. Res.*, 34, 379-393.
- 📖 Camps J, Bargallo T, Gimenez, A, Alie S, Caballeria J, Pares A, Joven J, Masana L and Rodes J (1992). Relationship between hepatic lipid peroxidation and fibrinogenesis in carbon tetrachloride-treated rats: effect of zinc administration, *Clin. Sci.*, 83, 695-700.
- 📖 Castro JA (1984). Mechanistical studies and prevention of free radical cell injury, In *IUPHAR 9th Int. Congr. Pharmacol. Proc.*, Ed. Wpaton, J Mitchell. P Turner, London: Macmillan., 2, 243-250.
- 📖 Ceriello A (2000). Oxidative stress and glycemic regulation, *Metabolism*, 49, 27.
- 📖 Cham BE, Gilliver M and Wilson L (1987). Antitumour effects of glycoalkaloids isolated from *Solanum sodomaeum*, *Planta Med.*, 53, 34-36.
- 📖 Chamorro A, Obach V and Cervera A (2002). Prognostic significance of uric acid serum concentration in patients with acute ischaemic stroke, *Stroke*, 33, 1048.

- Chang MC, Uang BJ, Wu HL, Lee JJ, Hahn LJ and Jeng JH (2002). Inducing the cell cycle arrest and apoptosis of oral KB carcinoma cells by hydroxychavicol: role of glutathione and reactive oxygen species, *Br. J Pharmacol.*, 135, 619-630.
- Chawla R, Arora R, Kumar R, Sharma A, Prasad J, Singh S, Sagar R, Chaudhary P, Shukla S, Kaur G, Sharma RK, Puri SC, Dhar KL, Handa G, Gupta VK and Qazi GN (2005). Antioxidant activity of fractionated extracts of rhizomes of high-altitude *Podophyllum hexandrum*: Role in radiation protection, *Mole. Cell. Biochem.*, 273, 193-208.
- Cheel J, Theoduloz C, Rodriguez J, and Schmeda-Hirschmann G (2005). Free radical scavengers and antioxidants from lemongrass (*Cymbopogon citrates* (DC.). Stapf), *J Agric. Food Chem.*, 53, 2511-2517.
- Cheeseman KH, Albano EF, Tomasi A and Slater TF (1985). Biochemical studies on the metabolic activity of halogenated alkanes, *Environ. Health Perspect.*, 64, 85-101.
- Chen X, Nishida H and Konishi T (2003a). Baicalin promoted the repair of DNA single strand breakage caused by H₂O₂ in cultured NIH3TC fibroblasts, *Biol. Pharm. Bull.*, 26, 282-284.
- Chen HW, Tsai CW, Yang JJ, Liu CT, Kuo WW and Lii CK (2003b). The combined effects of garlic oil and fish oil on the hepatic antioxidant and drug metabolizing enzymes of rats, *Br. J Nutr.*, 89, 189-200.
- Chesbrough M and Mc Arthus T (1972). A laboratory manual for rural, the English language book. Tropical hospital society and Churchill Livingstone., P 145.
- Choi EM and Hwang JK (2005). Effect of some medicinal plants on plasma antioxidant system and lipid level in rats, *Phytother. Res.*, 19, 382-386.
- Choksi KB, Boylston WH, Rabek JP, Widger WR and Papaconstantinou J (2004). Oxidatively damaged proteins of heart mitochondrial electron transport complexes, *Biochem. Biophys. Acta.*, 1688, 95-101.
- Christen Y (2000). Oxidative stress and Alzheimer's disease, *Am. J Clin. Nutr.*, 71, S621-S629.
- Cohen G (2000). Oxidative stress, mitochondrial respiration and Parkinson's disease, *Ann. NY Acad. Sci.*, 899, 112-120.
- Collins BH, Horska A, Hotten PM, Riddoch C and Collins AR (2001). Kiwi fruits protects against oxidative DNA damage in Human cells and *in vitro*, *Nutr. Cancer.*, 39, 148-153.
- Coon MJ, Ding XX, Pernecky SJ and Vaz AD (1992). Cytochrome P450: Progress and predictions, *The FASEB J.*, 6, 669-673.
- Cooper D, Webb DR and Peters JC (1997). Evaluation of the potential for olestra to affect the availability of dietary phytochemicals, *J Nutr.*, 127, S1699-S1709.
- Cooper MR and Johnson AW (1984). Black nightshade-*Solanum nigrum* in poisonous plants in Britain and their effects on animals and man, HMSO, London., Pp 209-210.
- Cordero CP, Gomez-Gonzalez S, Leon-Acosta CJ, Morantes-Medina SJ and Aristizabal FA (2004). Cytotoxic activity of five compounds isolated from Columbian plants, *Fitoter.*, 75, 225-227.
- Cross AR and Jones OT (1991). Enzymic mechanisms of superoxide production, *Biochem. Biophys. Acta.*, 1057, 281-298.
- Dakshayani KB, Subramanian P, Manivasagam T, Essa MM and Manoharan S (2005). Melatonin modulates the oxidant-antioxidant imbalance during N-nitrosodiethylamine induced hepatocarcinogenesis in rats, *J Pharm. Pharm. Sci.*, 8, 316-321.
- Das K, Samanta L and Chainy GBN (2000). A modified spectrophotometric assay of superoxide dismutase using nitrite formation of superoxide radicals, *Indian J Biochem. Biophys.*, 37, 201-204.

- David M and Richard JS (1983) In: Methods of enzymatic analysis, Bergmeyer, J and Grab M. (Eds), Verlag Chemie Weinheim Deer Field, Beach Floride, P 358.
- Davis KL, Martin E, Turko IV and Murad F (2001). Novel effects of nitric oxide, *Annu. Rev. Pharmacol Toxicol.*, 41, 203-206.
- De AK (1989). Environmental chemistry—second edition published by V.R.Damodaran for Wiley Eastern Limited, New Delhi-02, Pp 241-255.
- De Oliveira SQ, Dal-Pizzol F, Gosmann G, Guillaume D, Moreira JC and Schenkel EP (2003). Antioxidant activity of *Baccharis articulata* extracts: Isolation of a new compound with antioxidant activity, *Free Radic. Res.*, 37, 555-559.
- De Salvia R, Feste F, Ricordy R, Perticone P and Cozzi P (2002). Resveratrol effects in a different way primary versus fixed DNA damage induced by H₂O₂ in mammalian cells *in vitro*, *Toxicol. Lett.*, 135,1-9.
- Delanty N and Dichter MA (2000). Antioxidant therapy in neurological diseases, *Arch. Neurol.*, 57, 1265-1270.
- Devasagayam TP and Kamat JP (2002). Biological significance of singlet oxygen, *Indian J Exp. Biol.*, 40, 680-692.
- Devasagayam TP and Sainis KB (2002). Immune system and antioxidants, especially those derived from Indian medicinal plants, *Indian J Exp. Biol.*, 40, 639-655.
- Devasagayam TP, Tilak JC, Boloor KK, Sane KS, Ghaskadbi SS and Lele RD (2004). Free radicals and antioxidant in human health: Current status and future prospects, *J Assoc. Physi. India.*, 52, 794-804.
- Devasagayam TPA and Kamat JP (2000). Free radicals and antioxidants and human disease, *EMSI Newslett.*, 23, 3.
- Devi KN, Reddy CC, Raveendra A and Thyagaraju K (2002). Effect of β methylcholanthrene on glutathione-S-transferases of rat testes, *Curr. Sci.*, 82, 1282-1287.
- Dinis TC, Maderia VM and Almeida LM (1994). Action of phenolic derivatives (acetaminophen, salicylate, and 5-aminosalicylate). As inhibitors of membrane lipid peroxidation and as peroxyl radical scavengers, *Arch. Biochem. Biophys.*, 315, 161-169.
- Dixit P, Ghaskadbi S, Mohan H and Devasagayam TP (2005). Antioxidant properties of germinated fenugreek seeds, *Phytother. Res.*, 19, 977-983.
- Dizdaroglu M (1992). Measurement of radiation induced damage to DNA at the molecular level, *Int. J Radiat. Biol.*, 61, 175-183.
- Donnelly ET, Mc Clure N and Lewis SE (1999). The effect of ascorbate and α -tocopherol supplementation *in vitro* on DNA integrity and hydrogen peroxide-induced DNA damage in human spermatozoa, *Mutagenesis*, 14, 505-512.
- Drabkin DLR and Austin TH (1932). Spectrophotometric studies I: spectrophotometric constants for common hemoglobin derivatives in humans, dog and rabbit blood, *J Biol. Chem.*, 98, 719-733.
- Dursun E, Timur M, Dursun B, Suleymanlar G and Ozben T (2005). Protein oxidation in type 2 diabetic patients on hemodialysis, *J Diabetes Compli.*, 19, 142-146.
- Duthie GG, Duthie SJ and Kyle JAM (2000). Plant polyphenols in cancer and heart disease: implications as nutritional antioxidants, *Nutr. Res. Rev.*, 13, 79-106.
- Edmonds JM and Chewya JA (1997). Blacknightshade, *Solanum nigrum* L. and related species, IPGRI, via delle Sette Chiese 142, 00145, Rome, Italy, 8.
- El-Ashaal HA, Ghanem SA, Melek FR, Kohail MA and Hilal SH (1999). Alkaloid production from regenerated *Solanum* plants, *Fitoterapia*, 70, 407-411.

- El-Beshbishy HA (2005). The effect of Dimethyl Dimethoxy Biphenyl Dicarboxylate (DDB) against Tamoxifen-induced Liver Injury in rats: DDB use is Curative or Protective, J Biochem. Mol. Biol., 38, 300-306.
- Elizabeth K and Rao MNA (1990). Oxygen radical scavenging activity of curcumin, Int. J Pharm., 58, 237-240.
- Elmastas M, Gulain I, Beydemir S, Kufrevioglu OI, Aboul-Enein HY (2006). A study on the *in vitro* antioxidant activity of Juniper (*Juniperus communis* L.), Fruits extracts, Analy. Lett., 39, 47-65.
- Emami SA, Sadeghi-aliabadi H, Saeidi M and Jafarian A (2005), Cytotoxic evaluations of Iranian conifers on cancer cells, Pharma. Biol., 43, 299-304.
- Erba D, Riso P, Colombo A and Testolin G (1999). Supplementation of Jurkat T cells with green tea extract decreases oxidative damage due to iron treatment, J Nutr., 12, 2130-2134.
- Erman F, Balkan J, Cevikba SU, KoCak-Toker N and Uysal M (2004). Betaine or taurine administration prevents fibrosis and lipid peroxidation induced by rat liver by ethanol plus carbon tetrachloride intoxication, Aminoacids., 27, 199-205.
- Esterbauer H, Schwarzl E and Hayn M (1977). A rapid assay for catechol oxidase and lactase using 2-nitro-5-thiobenzoic acid, Anal. Biochem., 77, 486-494.
- Evans P and Halliwell B (1999). Free radicals and hearing, Ann. NY Acad. Sci., 884, 19.
- Everist SL (1974). Poisonous plants of Australia, Angus and Robertson, Sydney, Pp 462-475.
- Fakhr-E-Alam, Amin KMY and Khan NA (2003). Hepato-protective effect of the unani drug Handqooqa (*Boerhavia diffusa*) against CCl₄ induced Hepatic damage in Albino rats, J Indian Med. Homeo., 33-36.
- Fang JL and Vaca CE (1997). Detection of DNA adducts of acetaldehyde in peripheral white blood cells of alcohol abusers, Carcinogenesis, 18, 627-632.
- Farnsworth NR and Kass CJ (1981). Approach utilizing information from traditional medicine to identify tumor inhibiting plants, J Ethnopharmacol., 3, 85-89.
- Farombi EO (2000). Mechanisms for the hepatoprotective action of Kolaviron : Studies on hepatic enzymes, microsomal lipids and lipid peroxidation in carbon tetrachloride – treated rats, Pharmacol. Res., 42, 75-80.
- Farzaneh FR and Moore K (2001). Nitric oxide and liver, Liver, 21, 161-174.
- Felley-Bosco E (1998). Role of nitric oxide in genotoxicity: implication carcinogenesis, Cancer Metastasis Rev., 17, 25.
- Fenninger LD and Mider GB (1954). Energy and nitrogen metabolism cancer, Adv. Can. Res., 2, 229-253.
- Ferdinandy P and Schulz R (2003). Nitric oxide, superoxide and peroxy nitrate in myocardial ischaemic-reperfusion injury and preconditioning, Br. J Pharmacol., 138, 523-543.
- Fiot J, Sanon S, Azas N, Mahiou V, Jansen O, Angenot L, Balansard G and Olliver E (2006). Phytochemical and pharmacological study of roots and leaves of *Guiera senegalensis*, JF.Gmel (*Combretaceae*), J Ethnopharmacol., 106,173-178.
- Flohe L (1989). The selenoprotein glutathione peroxidase, in glutathione: chemical and medical aspects, part A eds. D.Dolphin D, Avramovic and O, Pulson R (John Wiley and Sons, New York). P 643.
- Frankel EN (1984). Chemistry of free radical and singlet oxidation of lipids, Prog Lipid Res., 22, 197-221.
- Fraschini F, Demartini G and Esposti D (2002). Pharmacology of silymarin, Clinical drug investigation., 22, 51-65.
- Frei B, (1994). Reactive Oxygen species and antioxidant vitamins: mechanism of action, Am. J Med., 97, S5-S13.

- 📖 Frenzilli G, Scarcelli V, Fornai F, Paparelli A and Nigro M (2006). The comet assay as a method of assessment of neurotoxicity: usefulness for drugs of abuse, *Ann. NY. Acad. Sci.*, 1074, 478-481.
- 📖 Fridovich I (1972). Superoxide radical and superoxide dismutase, *ACC Chem. Res.*, 51, 321.
- 📖 Fridovich I (1983). Superoxide radical: an endogenous toxicant, *Annu. Rev. Pharmacol. Toxicol.*, 23, 239-257.
- 📖 Fridovich I (1995). Superoxide radical and superoxide dismutases. *Annu. Rev. Biochem.*, 64, 97-112.
- 📖 Fuji K (1997). Preventive effect of isoflurane on destruction of cytochrome P450 during reductive dehalogenation of carbon tetrachloride in guinea-pig microsomes, *Drug Metab. Drug Interact.*, 14, 99-107.
- 📖 Fukuzawa K and Gebicki JM (1983). Oxidation of alpha tocopherol in micells and liposomes by the hydroxyl, peroxyhydroxyl, and superoxide free radicals, *Arch. Biochem. Biophys.*, 226, 242-251.
- 📖 Fyhrquist P, Mwasumbi L, Vuorela P, Vuorela H, Hiltunen R, Murphy C and Adlercreutz H (2006). Preliminary antiproliferative effects of some species of *Terminalia*, *Combretum* and *Pteleopsis* collected in Tanzania on some human cancer cell lines, *Fitoter.*, 177, 358-366.
- 📖 Galati EM, Mondello MR, Lauriano ER, Taviano MF, Galluzzo M and Miceli N (2005). *Opuntia ficus indica* (L) mill fruit juice protects liver from carbon tetrachloride-induced injury, *Phytother Res.*, 19, 796-800.
- 📖 Galli F, Piroddi M, Annetti C, Asia C, Floridi E and Floridi A (2005). Oxidative stress and reactive oxygen species, *Contrib. Nephrol.*, 149, 240-260.
- 📖 Gayathri V, Asha VV and Subramaniam A (2005). Preliminary studies on the immunomodulatory and antioxidant properties of *Selaginella* species, *Indian J Pharmacol.*, 37, 381-385.
- 📖 Gerschman R, Gilbert DL, Nye SW, Dwyer P and Fenn WO (1954). Oxygen poisoning and X-irradiation: a mechanism in common, *Sci.*, 119, 623-626.
- 📖 Ghosh A, Sarkar K and Sil PC (2006). Protective effect of a 43 KD protein from the leaves of the herb, *Cajanus indicus* L. on chloroform induced hepatic disorder, *J Biochem. Mol. Biol.*, 39, 197-207.
- 📖 Gilani AH and Rahman AU (2005). Trends in ethnopharmacology, *J Ethnopharmacol.*, 100, 43-49.
- 📖 Glei M, Matuschek M, Steiner C, Bohm V, Persin C and Pool-20bel BL (2003). Initial *in vitro* toxicity testing of functional foods rich in catechins and anthocyanins in human cells, *Toxicol.*, 17, 723-729.
- 📖 Goel HC, Prem Kumar I and Rana SV (2002). Free radical scavenging and metal chelation by *Tinospora cordifolia*, a possible role in radioprotection, *Indian J Exp. Biol.*, 40, 727-734.
- 📖 Goel R and Khanduja KL (1998). Oxidative stress induced apoptosis- An over view, *Curr. Sci.*, 75, 1338-1348.
- 📖 Grabley S and Thiericke R (1999). Bioactive agents from natural sources: trends in discovery and application, *Adv. Biochem. Eng. Biotech.*, 64, 101-154.
- 📖 Green LL, Wagner DA, Glogowski J, Skipper, Wishnok JS and Tannenbaum SR (1982). Analysis of nitrate, nitrite and (15N) nitrate in biological fluids, *Anal. Biochem.* 126,131-138.
- 📖 Gros L, Saporbaev MK and Laval J (2002). Enzymology of the repair of free radicals-induced DNA damage, *Oncogene*, 21, 8905-8925.

- Gruebele A, Zawaski K, Kaplan D and Novak RF (1996). Cytochrome P450E1 and cytochrome P450B1/2B2-catalysed carbon tetrachloride metabolism-effects on signal transduction as demonstrated by altered immediate-early (C-Fos and C-Jun) gene expression and nuclear AP-1 and NF-Kappa β -transcription factor in levels, Drug metals. Dispos., 24, 15-22.
- Guengerich FP (2003). Cytochrome P450 enzymes, Am. Scientistis, 81, 440-448.
- Gul M, Kutay FZ, Temocin S and Hanninen O (2000). Cellular and clinical implications of glutathione. Indian J Exp. Biol., 38, 625-634.
- Gulcin I (2005). The antioxidant and radical scavenging activities of black pepper (*Piper nigrum*) seeds, Int. J Food Sci. Nutr., 56, 491-499.
- Gupta M, Mazumdar UK, Siva KT, Sambath KR and Gomathi P, (2004a). Antioxidant and hepatoprotective effects of *Bauhinia racemosa* against paracetamol and carbon tetrachloride induced liver damage in rats, Indian J Pharmacol. Thera.,31,12-20
- Gupta M, Mazumder UK, Kumar RS and Kumar TS (2004b). Antitumour activity and antioxidant role of *Bauhinia racemosa* against Ehrlich ascites carcinoma in swiss albino mice, Acta Pharmacol Sin., 25, 1070-1076.
- Ha KT, Yoon SJ, Choid DY, Kim DW, Kim JK and Kim CH (2005). Protective effect of *Lycium Chinese* fruit on carbon tetrachloride-induced hepatotoxicity, J Ethnopharmacol., 96, 529-535.
- Habig WH, Pabst MJ and Jakoby WB (1974). Glutathione S-transferase: The first enzymatic step in mercapturic acid formation, J Biol. Chem., 249, 7130-7139.
- Haenold R, Wassef DM Heinmann, S.H and Hoshi, T (2005). Oxidative damage, aging and antiaging strategies, Age, 27, 183-199.
- Halliwell B (1990). How to characterize a biological antioxidant?, Free Radic. Res. commun., 9, 1-32.
- Halliwell B (1991). Reactive oxygen species in living systems: Source, biochemistry and role in human disease, Am. J Med., 91, S14- S22.
- Halliwell B and Gutteridge JMC (1999). In: Free radicals in biology and medicine (Third ed.), Oxford University Press., 1-936.
- Halliwell B and Gutteridge MC (1985). The chemistry of oxygen and other oxygen derived species. In: Free radicals in biology medicine, Halliwell B, Gutteridge JMC, Eds., Clarendon Press, Oxford, 20-66.
- Halliwell B and Gutteridge MC (1992). Biologically relevant metal ion-dependent hydroxyl radical generation, FEBS Lett., 307, 108-112.
- Hammond CL, Lee TK and Ballatori N (2001). Novel roles for glutathione in gene expression, cell death, and membrane transport of organic solutes, J Hepatol., 34, 946-954.
- Han KH, Fukushima M, Ohba K, Shimada K, Sekikawa M, Chiji H, Lee CH and Nakano M (2004). Hepatoprotective effects of the water extracts from adzuki bean hulls on acetaminophen-induced damage in rat liver, J Nutr. Sci. Vitaminol., 50, 380-383.
- Harborne JB (1973). Phytochemical methods- A guide to modern technique of plant analysis, Chapman and Hall Publi., Pp 33-56.
- Harish R and Shivanandappa T (2006). Antioxidant-activity and hepatoprotective potential of *Phyllanthus niruri*, Food Chem., 95, 180-185.
- Harman D (1991). The aging process: Major risk factor for diseases and death, Proc. Natl. Acad. Sci., 88, 5360-5363.
- Hartung T and Goldberg AM (2006). Protecting more than animals, Sci. Am., 294, 84-91.
- Hazzen SL, Hsu FF, Mueller DM, Crowley JR and Heinecke JW (1996). Human neutrophils employ chlorine gas as an oxidant during phagocytosis, J Clin. Invest., 98, 1283-1289.

- 📖 Henderson RJF (1974). *Solanum nigrum* L (Solanaceae) and related species in Australia, Contributions from the Queensland Herbarium No.16:1-78.
- 📖 Heo KS and Lim KT (2005). Glycoprotein isolated from *Solanum nigrum* (L) modulates the apoptotic-related signals in 12-O-Tetra-decanoylphorbol 13-acetate-stimulated MCF-7 cells, J Med. Food., 8,69-77.
- 📖 Heo SJ, Park EJ, Lee KW and Jeon YJ (2005). Antioxidant activities of enzymatic extracts from brown sea weeds, Bioresour. Technol., 96, 1613-1623.
- 📖 Hewawasam RP, Jayatilaka KA, Pathirana C and Mudduwa LK (2003). Protective effect of *Asteracantha longifolia* extract in mouse liver injury induced by carbon tetrachloride and paracetamol, J Pharm. Pharmacol., 55, 1413-1418.
- 📖 Ho JW, Leung YK and Chan CP (2002). Herbal medicine in the treatment of cancer, Curr. Med. Chem. Anticancer Agents., 2, 209-214.
- 📖 Hore A (2004). The cost of free Radicals, Sci. Cul., 70, 249-255.
- 📖 Hou WC, Lin RD, Lee TH, Huang YH, Hsu FL and Cee MH (2004). The phenolic constituents and free radical scavenging activities of *Gynura formosana* Kiamnra., J Sci. Food Agric., 85, 615-621.
- 📖 Howes MJ, Perry NS and Houghton PJ (2003). Plants with traditional uses and activities, relevant management of Alzheimer's disease and other cognitive disorders, Phytother. Res., 17, 1-18.
- 📖 Hsiao G, Lin YH, Lin CH, Chou DS, Lin WC and Sheu JR (2001). The protective effects of PMC against chronic carbon tetrachloride-induced Hepatotoxicity *in vivo*, Biol. Pharma. Bull., 24, 1271.
- 📖 Hsiao G, Shen MY, Lin KH, Lan MH, Wu LY, Chou DS, Lin CH, Su CH and Sheu JR (2003). Antioxidative and hepatoprotective effects of *Antrodia camphorate* Extracts, J Agric. Food Chem., 51, 3302-3308.
- 📖 Hsieh CL and Yen GC (2000). Antioxidant actions of Du-zhong (*Eucommia ulmoides* oliv) towards oxidative damage in biomolecules, Life Sci., 66, 1387-1400.
- 📖 Hu K, Kobayashi, H, Dong A, Jing Y, Iwasaki S and Yao Y (1999). Antineoplastic Agents III: Steroidal glycosides from *Solanum nigrum*, Planta Med., 65, 35-38.
- 📖 Huang FJ, Zing-Bing LV, Li Q, Wei LJ, Zhang L and Wu WT (2005). Study on hepatoprotective effects of peptide S-8300 from shark liver. World J Gastroentrol., 11, 1809-1812.
- 📖 Huang H and Manton KG (2004). The role of oxidative damage in mitochondria during aging a review, Front Biosci., 9, 1100-1117.
- 📖 Hung MY, Fu TY, Shih PH, Lee CP and Yen GC (2006). Du-Zong (*Eucommia ulmoides* oliv.) leaves, inhibits CCl₄ induced hepatic damage in rats, Food Chem. Toxicol., 44, 1424-1431, (Epub. Ahead of Print).
- 📖 Igarashi M and Miyazawa T (2001). The growth inhibitory effect of conjugated linoleic acid on a human hapatoma cell line HepG2, in induced by change in fatty acid metabolism, but not the facilitation of lipid peroxidation in the cells, Biochem. Biophys. Acta Mole. Cell Biol. Lipids., 1530, 162-171.
- 📖 Ikeda T, Tsumagari H and Toshihiro T (2000). Steroidal Oligoglycosides from *Solanum nigrum*, Chem. Pharm. Bull., 48, 1062-1064
- 📖 Ilavarasan R, Mallika M and Venkatraman S (2005). Anti-inflammatory and antioxidant activities of *Cassia fistula* Linn Bark extracts, African J Traditional, Comple. Alter. Med., 2, 70-85.
- 📖 Ilavarasan R, Mohideen S, Lakshmi VM and Manonmani G (2001). Hepatoprotective effect of *Cassia angustifolia* vahl, Indian J Pharm. Sci., 63, 504-507.

- Ilavarasan R, Vasudevan M, Anbazhagan S and Venkatraman S (2003). Antioxidant activity of *Thespesia populnea* bark extracts against CCl₄ induced liver injury in rats, *J Ethnopharmacol.*, 87, 227-230.
- Imaoka S and Funae Y (1991). Induction of cytochrome P450 isozymes in rat liver by methyl n-alkyl ketones and n-alkylbenzenes. Effects of hydrophobicity of inducers on inducibility of cytochrome P450, *Biochem. Pharmacol.*, 42, S143-S150.
- Imlay JA and Linn S (1988). DNA damage and oxygen radical toxicity, *Science*. 240, 1302-1309.
- Indap MA and Barkume MS (2003). Efficacies of plant phenolic compounds on sodium butyrate induced anti-tumour activity, *Indian J Exp. Biol.*, 41, 861-864.
- Ippoushi I, Azuma K, Ito H, Horie H and Higashio H (2003). 6C-gingerol inhibits nitric oxide synthesis in activated J 774 1 mouse macrophages and prevents peroxy nitrite induced oxidation and nitration reactions, *Life Sci.*, 73, 3427-3437.
- Irshad M and Chaudhari PS (2002). Oxidant-antioxidant system: Role and significance in human body, *Indian J Exp. Biol.*, 40, 1233-1239.
- Itoh Y, Yasui T, Okada A, Tozawa K, Hayashi Y and Kohri K (2005). Examination of the anti-oxidative effect in renal tubular cells and apoptosis by oxidative stress, *Urol. Res.*, 33, 261-266.
- Ivanchenko BT and Tukalo EA (1975). *Fitochem Izuch Flory BSSR Biofarm Issled Lek Prep.*, P 97.
- Jagetia GC and Baliga MS (2003). Treatment with *Alstonia scholaris* enhances radiosensitivity *in vitro* and *in vivo*, *Cancer Biother. Radiopharm.*, 18, 917-929.
- Jagetia GC, Malagi KJ, Baliga MS, Venkatesh P and Veruva RR (2004). Triphala, an ayurvedic rasayana drug, protects mice against radiation-induced lethality by free-radical scavenging, *J Alter. Comple. Med.*, 10, 971-978.
- Jagtenberg T and Evans S (2005). Global herbal medicine, a critique, *J Alter. Comp. Med.*, 9, 321-329.
- Jain K, Kataria S and Guruprasad KN (2004). Oxyradicals under UV-b stress and their quenching by antioxidants, *Indian J Exp. Biol.* 42, 884-892.
- Jain SK and Borthakur SK (1986). *Solanaceae* in Indian Tradition, Folklore, and medicine, in *Solanaceae: Biology and systematic* (WGD Arcy Ed) Columbia University Press, New York, Pp 577-583.
- Jainu T and Devi CSS (2004). Antioxidant effect of methanolic extract of *Solanum nigrum* berries on aspirin induced gastric mucosal injury, *Indian J Clin. Biochem.*, 19, 57-61.
- Jakoby WB (1978). The glutathione-S-transferase: A group of multifunctional detoxification proteins, *Adv. Enzymol.*, 46, 383.
- Javanmardi J, Stushnoff C, Locke E and Vivanco JM (2003). Antioxidant activity and total phenolic content of Iranian ocimum accessions, *Food Chem.*, 83, 547-550.
- Jaya DS, Augustine J and Menon VP (1993). Role of lipid peroxidase, glutathione and antiperoxidative enzymes in alcohol and drug toxicity, *Indian J Exp. Biol.*, 31, 453-459.
- Jeon KI, Park E, Park HR and Jeon YJ (2003). Antioxidant activity of far-infrared rice hull extracts on reactive oxygen species scavenging and oxidative damage in tumour lymphocytes, *J Med. Food.*, 9, 42-48.
- Jiang Y, Liu J, Waalkes M and Kang YJ (2004). Changes in the gene expression associated carbon tetrachloride - induced liver fibrosis, Persist after cessation of dosing mice, *Toxicol. Sci.*, 79, 404-410.

- 📖 Jin YS, Sa JH, Shim TH, Rhee HI and Wang MH (2005a). Hepatoprotective and antioxidant effects of *Morus bombycis* koidzumi on CCl₄ induced liver damage, *Biochem. Biophys. Res. Commun.*, 329, 991-995.
- 📖 Jin YS, Heo SI, Lee MJ, Rhee HI and Wang MH (2005b). Free radical scavenging and hepatoprotective actions of *Quercus aliena* acorn extract against CCl₄-induced liver, *Free Radical Res.* 39, 1351-1358.
- 📖 Johanson JS, Harris AK, Rychly DJ and Ergul A (2005). Oxidative stress and the use of antioxidant in diabetes, linking basic science to clinical practice, *Cardiovasc. Diab.*, 4:5.
- 📖 Joubert E, Winterton P, Britz TJ and Gelderblom WC (2005). Antioxidant and pro-oxidant activities of aqueous extracts and crude polyphenolic fractions of rooibos (*Aspalathus linearis*), *J Agric. Food Chem.*, 53, 10260-10267.
- 📖 Jung KA, Song TC, Han D, Kim IH, Kim YE and Lee CH (2005). Cardiovascular protective properties of kiwifruit extracts *in vitro*, *Biol. Pharm. Bull.*, 28, 1782-1785.
- 📖 Kamalakkannan N, Rukkumani R, Varma PS, Viswanathan P, Rajasekharan KN and Menon VP (2005). Comparative effects of curcumin and an analogue of curcumin in carbon tetrachloride induced hepatotoxicity in rats, *Basic Clin. Pharmacol. Toxicol.* 97, 15-21.
- 📖 Kang DG, Yun C and Lee HS (2003). Screening and comparison of antioxidant activity of solvent extracts of herbal medicines used in Korea, *J Ethnopharmacol.*, 87, 231-236.
- 📖 Kanter M, Coskun O and Budancamanak M (2005). Hepatoprotective effects of *Nigella sativa* L and *Urtica dioica* L on lipid peroxidation, antioxidant enzyme systems and liver enzymes in carbon-tetrachloride treated rats, *World J Gastroent.*, 11, 6684-6688.
- 📖 Kanzok SM, Fechner A, Bauer H, Ulschmid JK, Muller HM, Botella-Munoz J, Schneuwly S, Schirmer H and Becker K (2001). Substitution of the thioredoxin system for glutathione reductase in *Drosophila melanogaster*, *Science*, 291, 643-646.
- 📖 Karthikeyan J and Rani P (2003). Enzymatic and non-enzymatic antioxidants in selected *Piper* species, *Indian J Exp. Biol.*, 41, 135-140.
- 📖 Kataria M and Singh LN (1997). Hepatoprotective effect of Liv 52 and Kumurysava on carbontetrachloride induced hepatic damage in rats, *Indian. J Exp. Biol.*, 35, 655-657.
- 📖 Kaur C and Kapoor HC (2001). Antioxidants in fruits and vegetables-the millennium's health, *The Int. J Food Sci. Tech.*, 36, 703-725.
- 📖 Kaur G, Jabbar Z, Athar M and Alam MS (2006). *Punica granatum* (pomegranate). Flower extract possesses potent antioxidant activity and abrogates Fe-NTA induced hepatotoxicity in mice, *Food Chem. Toxicol.*, 44, 984-993.
- 📖 Kaushik G and Khanduja KL (2004). Oxidants, the major determinant of cell signaling and gene expression, *SFRR-India Bulletin.*, 3, 5-10.
- 📖 Kavimani S and Manisenthkumar KT (2000). Effect of methanolic extract of *Enicostemma littorale* on Dalton's ascetic lymphoma, *J Ethnopharmacol.*, 71, 349-352.
- 📖 Kessova I and Cederboun AI (2003). CYP2E1: Biochemistry, toxicology, regulation and function in ethanol-induced liver injury, *Curr. Mol. Med.*, 3, 509-518.
- 📖 Khan BA, Abraham A and Leelamma S (1997). Anti-oxidant effects of curry leaf, *Murraya koenigii* and mustard seeds, *Brassica junca* in rats fed with high fat diet, *Indian J Exp. Biol.*, 35, 148-150.
- 📖 Khan N and Sultana S (2005). Anticarcinogenic effect of *Nymphaea alba* against oxidative damage, hyperproliferative response and renal carcinogenesis in wistar rats, *Mol. Cell. Biochem.*, 271, 1-11.
- 📖 Khandelwal KR (2002). *Practical-Pharmacognosy-Techniques and experiments*, IX Edition, Nirali Prakasham Publishers, Pune., Pp 149-157.

- 📖 Khopde SM, Priyadarsini KI, Mohan H, Gawandi VB, Satav JG, Yakhmi JV, Banavalikar MM, Biyani MK and Mittal JP (2001). Characterizing the antioxidant activity of amla (*Phyllanthus emblica*) Extract, *Curr. Sci.*, 81, 185-190.
- 📖 Kim SH, Jang YP, Sung SH, Kim CJ, Kim JW and Kim YC (2003a). Hepatoprotective dibenzylbutyrolactone Lignans of *Torreya nucifera* against CCl₄-induced toxicity in primary cultured rat hepatocytes, *Biol. Pharm. Bull.*, 26, 1202.
- 📖 Kim KS, Lee S, Lee YS, Jung SH, Park Y, Shin KH and Kim BK (2003b). Antioxidant activities of the extracts from the herbs of *Artemisia apiaceae*, *J Ethnopharmacol.*, 85, 69-72.
- 📖 Kim SG, Chung HC and Cho JY, (1996). Molecular mechanism for alkyl sulfide-modulated carbon tetrachloride-induced hepatotoxicity: the role of cytochrome P450 2E1, P450 2B and glutathione-S-transferase expression, *J Pharmacol. Exp. Ther.*, 277, 1058-1066.
- 📖 Kiranjit EO (2003). Mechanisms for the hepatoprotective action of kolaviron: studies on hepatic enzymes, microsomal lipids and lipid peroxidation in carbon tetrachloride-treated rats, *Pharmacol. Res.*, 42, 75-80.
- 📖 Kitts DD, Wijewickreme AN, and Hu C (2000). Antioxidant properties of a North American ginseng extract, *Mol. Cell. Biochem.*, 203, 1-10.
- 📖 Klassen CD and Plaa GL (1966). The relative effects of various chlorinated hydrocarbons on liver and kidney function in mice, *Toxicol. Appl. Pharmacol.*, 9, 139-151.
- 📖 Klaunig JE and Kamendulis LM (2004). The role of oxidative stress in carcinogenesis. *Ann. Rev. Pharmacol. Toxicol.*, 44, 239-267.
- 📖 Knook DL, Bosma A and Seifert WF (1995). Role of vitamin A in liver fibrosis, *J Gastroenterol Hepatol.*, 10, S47-S49.
- 📖 Kogure K, Tsuchiya K, Abe K, Akasu M, Tamaki T, Fukuzawa K and Terada H (2003). Direct radical scavenging by the bisbenzylisoquinoline alkaloid cepharanthine, *Biochem. Biophys. Acta.*, 1622, 1-5.
- 📖 Koppenol WH, Moreno JJ, Pryor WA, Ischiropoulos H and Beckman JS (1992). Peroxynitrite, a cloaked oxidant formed by nitric oxide and superoxide, *Chem. Res. Toxicol.*, 5, 834-842.
- 📖 Kornbrust DJ and Mavis RD (1980). Relative susceptibility of microsomes from lung, heart, liver, kidney, brain and testes to lipid peroxidation: Correlation with vitamin E content, *Lipids*, 15, 315-322.
- 📖 Koul IB, Banerjee SK, Gupta BD and Kapil A (1994). Effect of diterpenes from *Andrographis paniculata* on antioxidant defense system and lipid peroxidation, *Indian J Pharmacol.*, 26, 296-300.
- 📖 Krikun JG, Lieber CS and Cederbaum AI (1984). Increased microsomal oxidation of methanol by cytochrome P450 and hydroxyl radical-dependent pathways after ethanol consumption, *Biochem. Pharmacol.*, 33, 3306-3309.
- 📖 Kronhausen E and Kronhansen P (1989). *Formula for life*, William Morrow and Co., New York, P 95.
- 📖 Kumar DA, Manikandan P and Sumitra M (2002). A novel peptide derivative exhibit anti-inflammatory and antioxidant activity in adjuvant induced arthritis in rats, *Mol. Cell. Biochem.*, 299, 9-17.
- 📖 Kumar VP, Shashidhara S, Kumar MM and Sridhara BY (2001). Cytoprotective role *Solanum nigrum* against gentamicin-induced kidney cells (vero cells) damage *in vitro*, *Fitoter.*, 72, 481-486.
- 📖 Kuruvilla A (2002). Herbal formulations as pharmacotherapeutic agents, *Indian J Exp. Biol.*, 40, 7-11.
- 📖 Kutob SD and Plaa GL (1962). The effect of acute ethanol intoxication on chloroform induced liver damage, *J Pharmacol. Exp. Ther.*, 135, 245-251.

- 📖 Lamchouri F, Settaf A, Cherrah Y, Hassan M, Zemzani M, Atif N, Nodari EB, Zaid A and Lyoussi B (2000). *In vitro* cell toxicity of *Pegnum hermala* alkaloids on cancerous cell lines, *Fitoter.*, 71, 50-54.
- 📖 Latha M and Pari L (2003). Preventive effects of *Cassia auriculata* L-flowers on brain lipid peroxidation in rats treated with streptozotocin, *Mol. Cell. Biochem.*, 243,23-28.
- 📖 Lee CY, Peng WH, Cheng HY, Chen FN, Lai MT and Chiu TH (2006). Hepatoprotective effect of *Phyllanthus* in Taiwan on acute liver damage induced by carbon tetrachloride, *Am. J Chin. Med.*, 34, 471-482.
- 📖 Lee EJ, Kim SR, Kim J and Kim YC (2002a). Hepatoprotective phenyl propanoids from *Scrophularia buergeriana* against CCl₄ induced toxicity-Action mechanism and structure activity relationship, *Planta Med.*, 68, 407-411.
- 📖 Lee JC, Lim KT and Jang YS (2002b). Identification of *Rhus verniciflua* stokes compounds that exhibit free radical scavenging and antiapoptotic properties, *Biochim. Biophys. Acta.*, 1570, 181-191.
- 📖 Lee SM, Li ML, Tse YC, Leung SC, Lee MM, Tsui SK, Fung KP, Lee C and Waye MM (2002c). *Paeoniae radix*, a Chinese herbal extract, inhibit hepatoma cells growth by inducing apoptosis in p53 independent pathway, *Life Sci.*, 71, 2267-2277.
- 📖 Lee HC, Hwang SG, Lee YG, Sohn HO, Lee DW, Hwang SY, Kwak YS, Wee JJ, Joo WH, Cho YK and Moon JY (2002d). *In vivo* effects of *Panax ginseng* extracts on the cytochrome p450 dependent mono oxygenase system in the liver of 2,3,7,8-tetrachlorodibenzo-p-dioxin exposed guineapig, *Life Sci.*, 71, 759-769.
- 📖 Lee KG, Mitchel AE and Shibamoto T (2000). Determination of Antioxidant Properties of Aroma Extracts from Various Beans, *J Agri. Food Chem.*, 48, 4817-4820.
- 📖 Lee KW and Lee HJ (2006). Biphasic effects of dietary antioxidants on oxidative stress-mediated carcinogenesis, *Mech. Ageing Devp.*, 127, 424-431.
- 📖 Lee SE, Ju EM and Kim JH (2001). Free radical scavenging and antioxidant enzyme fortifying activities of extracts from *Smilax china* root, *Exp. Mol. Med.*, 33, 263-268.
- 📖 Lee SJ and Lim KT (2006). Apoptosis induced by glycoprotein (150-KDa) isolated from *Solanum nigrum* (L) is not related to intracellular reactive oxygen species (ROS) in HCT-116 cells, *Cancer Chemothe. Pharmacol.*, 57, 507-516.
- 📖 Lee TY, Wang GJ, Chiu JH and Lin HC (2003). Long-term administration of *Salvia miltiorrhiza* ameliorates carbon tetrachloride-induced hepatic fiborsis in rats, *J Pharm. Pharmacol.*, 55, 1561-1568.
- 📖 Leonard SS, Keil D, Mehlman T, Proper S, Shi X and Harris GK (2006). Essiac tea: scavenging of reactive oxygen species and effects on DNA damage, *J Ethnopharmacol.*, 103, 288-296.
- 📖 Letteron P, Labbe G, Degott C, Berson A, Fromenty B, Dalaforze M, Larrey D and Pessayre D (1990). Mechanism for the protective effects of silymarin against carbon tetrachloride-induced lipid peroxidation and hepatotoxicity in mice. Evidence that silymarin acts both as an inhibitor of metabolic activation and as a chain breaking antioxidant, *Biochem. Pharmacol.*, 39, 2027-2034.
- 📖 Li MY, Ryan P and Batey RG (2003). Traditional Chinese medicine prevents inflammation in CCl₄-related liver injury in mice, *Am. J Chin. Med.*, 31,119-127.
- 📖 Liaudet L, Soriano FG and Szabo C (2000). Biology of nitric oxide-signaling, *Crit. Care Med.*, 28, 37-52.
- 📖 Lieber CS (1993). Biochemical factors in alcoholic liver disease, *Semin. Liver Dis.*, 13, 136-153.
- 📖 Lieber CS (2000). Alcoholic liver disease: new insight in pathogenesis lead to new treatments, *J Hepatol.*, 32, 113-128.

- 📖 Lim K-T (2005). Glycoprotein isolated from *Solanum nigrum* (L) kills HT-29 cells through apoptosis, *J Med. Food.*, 8, 215-226.
- 📖 Lin CN, Chung MI and Gan KH (1988). Novel antihepatotoxic principles of *Solanum incanum*, *Planta Medica.*, 54, 222.
- 📖 Lin CN, Lu CM, Cheng MK, Gan KH and Won SJ (1990). Cytotoxic principles of *Solanum incanum*, *J Nat. Prod.* 53, 513-516.
- 📖 Lin SC, Lin CH, Lin CC, Lin YH, Chen CF and Wang LY (2005). Hepatoprotective effects of *Arctium lappa* Lin on liver injuries induced by chronic ethanol consumption and potentiated by carbon tetrachloride, *J Biomed. Sci.*, 9, 401-409.
- 📖 Lin WC and Lin WL (2006). Ameliorative effect of *Ganoderma lucidum* on carbontetrachloride-induced liver fibrosis in rats, *World J Gastroentrol.*, 122, 265-270.
- 📖 Littarru GP, Lippa S, De Sole P, Oradei A, Torre DF and Macri M (1984). Quenching of singlet oxygen by D-alpha-tocopherol in human granulocytes, *Biochem. Biophys. Res. Cummun.*, 119, 1056-1061.
- 📖 Liu RH (2003). Health benefits of fruit and vegetables are from additive and synergistic combinations of phytochemicals 1,2,3,4., *Am J Clin. Nutr.*, 78, S517-S520.
- 📖 Lodovici M, Guglielmi F, Casalini C, Meomi M, Cheynier and Dolara P (2001). Antioxidant and radical scavenging properties *in vitro* of polyphenolic extracts from red wine, *Euro. J Nutr.*, 40, 74-77.
- 📖 Lodovici M, Menichetti S, Vigilianisi C, Caldini S and Guiliani E (2006). Polyhydroxylated 4-thiaflavans as multipotent antioxidants: Protective effect on oxidative DNA damage *in vitro*, *Bioorg. Med. Chem. Lett.*, 16, 1957-1960.
- 📖 Loki AL and Rajmohan T (2003). Hepatoprotective and antioxidant effect of tender coconut water on carbontetrachloride induced liver injury in rats, *Indian J Biochem. Biophys.*, 40, 354-357.
- 📖 Lombardi V, Valko L, Stole S, Valko M, Oridrejickova O, Harakova L, PlacèK J and Troncone A (1998). Free radicals in rabbit spinal cord ischemia: Electron spin resonance spectroscopy and correlation with SOD activity, *Cell Mol. Neurobiol.*, 18, 399-412.
- 📖 Lou YJ, Yu JP, Shi ZH and Wang L (2004). *Ginkgo bulbo* extract reverses CCl₄-induced liver fibrosis in rats, *World J Gastroentrol.*, 10, 1037-1042.
- 📖 Lowry OH, Rosenbrough NJ, Farr AL and Randal RJ (1951). Protein measurement with the Folin's phenol reagent, *J Biol. Chem.*, 193, 265-275.
- 📖 Luna LC (1968). Manual of histological staining methods for the armed forces, Institute of Pathology, 3rd Ed., Mc Graw Hill Book Co., New York, 125, 1-31.
- 📖 Luqman S and Rizvi SI (2006). Protection of lipid peroxydation and carbonyl formation in proteins by capsaicin in human erythrocytes subjected to oxidative stress, *Phytother. Res.*, 20, 303-306.
- 📖 Mac Donald-Wick LK and Garg ML (2003). Vitamin E supplementation in the mitigation of carbon tetrachloride induced oxidative stress in rats, *J Nutr. Biochem.*, 14, 211-219.
- 📖 Mac Nee W (2000). Oxidants/antioxidants and COPD, *Chest*, 117, S303.
- 📖 Maheswari MV and Rao PGM (2005). Antihepatotoxic effect of grape seed oil in rats, *Indian J Pharmacol.*, 37, 179-182.
- 📖 Mair RD and Hall T (1971). In: *Inorganic peroxides*, II Ec. (Eds. Swern D and Wiley CD). Wiley, New York, Pp 535-538.
- 📖 Mallick CP and Singh MB (1980). *Plant enzymology and plant histoenzymology*, Kalyani Publishers., New Delhi., P 286.

- 📖 Mandal AK and Das N (2005). Sugar coated liposomal flavonoid; A unique formulation in combating carbontetrachloride induced hepatic oxidative damage, *J Drug. Target.*, 13, 305-315.
- 📖 Maneesh M, Jayalakshmi H, Dutta S, Chakrabarti A and Vasudevan DM (2005). Experimental therapeutic intervention with ascorbic acid in ethanol induced testicular injuries in rats, *Indian J Exp. Biol.*, 43, 172-176.
- 📖 Manjunatha B (2006). Hepatoprotective activity of *Pterocarpus santalinus* L.f., an endangered medicinal plant, *Indian. J Pharmacol.*, 38, 25-28.
- 📖 Mankani KL, Krishna V, Manjunatha BK, Vidya SM, Singh JSD, Manohara YN, Anees-VR and Avinash KR (2005). Evaluation of hepatoprotective activity of stem bark of *Pterocarpus marsupium* Rozb, *Indian J Pharmacol.*, 37, 165-168.
- 📖 Mantena SK, Mutalik S, Srinivasa H, Subramanian GS, Prabhakar KR, Reddy KR, Srinivasan KK and Unnikrishnan MK (2005). Antiallergic, antipyretic, Hypoglycemic and Hepatoprotective effects of aqueous extract of *Coronopus didymus* Lin, *Biol. Pharm Bull.*, 28, 468-472.
- 📖 Mantle D, Lennard TW and Pickering AT (2000). Therapeutic applications of medicinal plants in the treatment of breast cancer; a review of their pharmacology, efficacy and tolerability, *Adverse Drug. React. Toxicol. Rev.*, 19,223-240.
- 📖 Mao H, Deng Z, Wang F, Harris TM and Stone MP (1998). An intercalated and thermally stable FAPY adduct of aflatoxin B-1 in a DNA duplex: structural refinement from ¹H-NMR, *Biochem.*, 37, 4374-4387.
- 📖 Marnett LJ (2000). Oxyradicals and DNA damage, *Carcinogenesis*, 21, 361-370.
- 📖 Martin-Aragon S, De las Heras B, Sanchez-Reus MI and Benedi J (2001). Pharmacological modification of endogenous antioxidant enzymes by ursolic acid on tetrachloride-induced liver damage in rats and primary cultures of rat hepatocytes, *Exp. Toxicol. Pathol.*, 53, 199-206.
- 📖 Mary NK, Shylesh BS, Babu BH and Padikkala J (2002). Antioxidant and hypolipidemic activity of a herbal formulation-Liposem, *Indian J Exp. Biol.*, 40, 901-904.
- 📖 Maxwell SR (1995). Prospects for the use of antioxidant therapies, *Drugs.*, 49, 345-361.
- 📖 Mayes AP (1993). Structure and functions of lipid soluble vitamins, In : Murray KR, Granner KD, Mayes AP and Rodwell WV., *Harper's Biochemistry*, Prentice-Hall International Inc., 2nd edition, Pp 588-590.
- 📖 Mc Cay PB (1985). Vitamin E: interaction with free radical and ascorbate, *Annu. Rev. Nutr.*, 5, 323-340
- 📖 Mc Cord J (2000). The evolution of free radicals and oxidative stress, *Am. J Med.*, 108, 652-659.
- 📖 Mc Cord JM (1990). Is superoxide dismutase a stress protein? In: *Stress proteins in inflammation*, edited by R Burbon, C Rice-Evans, D Blake and C Winrow (Richelien, London), P 125.
- 📖 Mc Cord JM and Fridovich I (1969). Superoxide dismutase. An enzymic function for erythrocyte protein (hemocuprein), *J Biol. Chem.*, 244, 6049.
- 📖 Meera S and Rana AC (2006). *In vitro* antioxidant activity of hydro alcoholic extract of *Taraxacum officinale* roots in rats, *Res. Lett.*, 38, 54-55.
- 📖 Mehta RG and Pezzuto JM (2002). Discovery of cancer preventive agents from natural products: from plants to prevention, *Cur. Oncol. Rep.*, 4, 478-486.
- 📖 Mensah AY, Houghton PJ, Akyirem GN, Fleischer TC, Mensah ML, Sarpong K and Adosraku R (2004). Evaluation of the antioxidant and free radical scavenging properties of *Secamone afzelii* Rhoem, *Phytother. Res.*, 18, 1031-1032.

- 📖 Mensor LL, Menezes FS, Leitao GG, Reis AS, Dos santos T, Coube CS and Leitao SG (2001). Screening of Brazilian plant extracts for antioxidant activity by the use of DPPH free radical method, *Phytother Res.*, 15, 127-130.
- 📖 Middleton E.Jr, Kandaswami C and Theoharides TC (2000). The Effects of plant Flavonoids on Mammalian cells: Implications for Inflammation Heart Disease, and Cancer. *Pharmacol. Rev.*, 52,673-751.
- 📖 Miliauskas G, Venkutonis PR and Vanbeek TA (2004). Screening of radical scavenging activity of some medicinal and aromatic plant extracts, *Food Chem.*, 85, 231-237.
- 📖 Mills GC (1960). Glutathione peroxidase and the destruction of hydrogen peroxide in animal tissues, *Arch. Biochem. Biophys.*, 86, 1-5.
- 📖 Misiasek R, Crean C, Joffe A, Geacintov NE and Shafirovich VS (2004). Oxidative DNA damage associated with combination of guanine and superoxide radicals and repair mechanisms via radical trapping, *J Bio.Chem.*, 279, 32106-32115.
- 📖 Mitra SK, Venkataranganna MV, Sundaram R and Gopumadhavan S (1998a). Protective effect of HD-03, a herbal formulation, against various hepatotoxic agents in rats, *J Ethnopharmacol.*, 63, 181-186.
- 📖 Mitra SK, Venkataranganna R, Sundaram R and Gopumadhavan, S (1998b). Effect of HD-03, a herbal formulation, on antioxidant defence system in rats, *Phytother. Res.*, 12, 114-117.
- 📖 Miyazaki T, Karube M, Matsuzaki Y, Ikegami T, Doy M, anaka N and Bouscarel B (2005). Taurine inhibits oxidative damage and prevents fibrosis in carbon tetrachloride-induced hepatic fibrosis, *J Hepatol.*, 43, 117-125.
- 📖 Mohanan PV and Devi KS (1997). Effect of sobatum on tumour development and chemically induced carcinogenesis, *Cancer Lett.*, 112, 219-223.
- 📖 Mohazzab KM and Wolin MS (1994). Properties of a superoxide anion-generating microsomal NADH oxidoreductase, a potential pulmonary artery PO₂ sensor, *Am. J Physiol.*, 267, L 823-831
- 📖 Moller P, Viscovich M, Lykkesfeldt J, Loft S, Jensen A and Poulsen HE (2004). Vitamin C supplementation decreases oxidative DNA damage in mononuclear blood cells of smokers, *Eur. J Nutr.*,43, 267-274.
- 📖 Mongelli E, Desmarchelier C, Rodriguez- Talou J, Coussio J and Cicca G (1997). *In vitro* antioxidant and cytotoxic activity of extracts of *Baccharis cordifolia* DC, *J Ethnopharmacol.*, 58, 157-163.
- 📖 Moongkarndi P, Kosem N, Luanratana O, Jongsomboonkusol, and Pongpan N (2004). Antiproliferative activity of Thai medicinal plant extracts on human breast adenocarcinoma cell line, *Fitoterapia*, 75, 375-377.
- 📖 Moron MS, De Pierre JW and Vik BM (1979). Levels of glutathione, glutathione reductase and glutathione-S-transferase activities in rat and lung liver, *Biochem. Biophys. Acta.*, 582, 3170-3185.
- 📖 Moyad MA (2002). Selenium and vitamin E supplements for prostate cancer: evidence for embellishment, *Urol.*, 59, 9.
- 📖 Mukherjee PK and Wahile A (2006). Integrated approaches towards drug development from Ayurveda and other Indian system of medicines, *J Ethnopharmacol.*, 103, 25-35.
- 📖 Mukhopadhyay (Kali) S, Mondal A and Poddar MK (2003). Chronic administration of caffeine: Effect on the activities of hepatic antioxidant enzymes of Ehrlich ascites tumour-bearing mice, *Indian J Exp. Biol.*, 41, 283-289.
- 📖 Munne-Bosch S and Alegre L (2002). The function of Tocopherols and Tocotrienols in plants, *Crit. Rev. Plant Science.*, 21, 31-57.

- 📖 Muriel P, Alba N, Perez-Alvarez VM, Shibayama M and Tsutsumi VK (2001). Kupffer cells inhibition prevents hepatic lipid peroxidation and damage induced by carbon tetrachloride, *Comp. Biochem. Physiol. C. Toxicol. Pharmacol.*, 130, 219-226.
- 📖 Murray KR (1998). Red and White blood cells, In: Murray KR, Granner KD, Mayes AP and Rodwell WV, *Harper's Lange*, Stanford Connecticut, 25th edition, Pp 767-768.
- 📖 Murthy KN, Rajesha J, Swamy MM and Ravishankar GA (2005). Comparative evaluation of hepatoprotective activity of carotenoids of microalgae, *J Med. Food.*, 8, 523-538.
- 📖 Mutalik S, Chetana M, Sulochana B, Devi PU and Udupa N (2005). Effect of Dianex, a herbal formulation on experimentally induced diabetes mellitus, *Phytother. Res.*, 19, 409-415.
- 📖 Naidu PS, Singh A and Kulkurni SK (2006). Effect of *Withania somnifera* root extract on reserpine-induced orofacial dyskinesia and cognitive dysfunction, *Phytother. Res.*, 20, 140-146.
- 📖 Naik GH, Priyadarsini KI, Satav JG, Banavalikar MM, Sohoni DP, Biyani MK and Mohan H (2003). Comparative antioxidant activity of individual herbal components used in Ayurvedic Medicine, *Phytochem.*, 63, 97-104.
- 📖 Nair SC, Pannikar B and Panikkar KR (1991). Antitumour activity of saffron (*Crocus sativus*). *Cancer Lett.*, 57, 109-114.
- 📖 Nakamura T, Komori C, Lee Y, Hashimoto F, Yahara S, Nohara T and Ejima A (1996). Cytotoxic activities of *Solanum* steroidal glycosides, *Biol. Pharm. Bull.*, 19, 564-566.
- 📖 Nakano M, Kikuyama M, Hasegawa T, Ito T, Sakurai K, Hiraishi K, Hashimura E and Adachi M (1995). The first observation of O₂⁻ generation at real time *in vivo* from non-kupffer sinusoidal cells in perfused rat liver during acute ethanol intoxication, *FEBS Lett.*, 372, 140-143.
- 📖 Nakao LS, Kadiiska MB, Mason RP, Grijalba MT and Augusto O (2000). Metabolism of acetaldehyde to methyl and acetyl radicals: *in vitro* and *in vivo* electron paramagnetic resonance spin-trapping studies, *Free Radic. Biol. Med.*, 29, 721-729.
- 📖 Nandhini ATA, Balakrishnan SD and Anuradha CV (2002). Responses of liver antioxidant system to taurine in rats fed high fructose diet, *Indian. J Exp. Biol.*, 40, 1016-1019.
- 📖 Narendhirakannan RT, Subramaniam S and Kandaswamy M (2005). Free radical scavenging activity of *Cleome gynandra* L. leaves on adjuvant induced arthritis in rats, *Mole. Cell Biochem.*, 27, 671-680.
- 📖 Neill SO, Gould KS, Kilmartin PA, Mitchell KA and Markham KR (2002). Antioxidant activities of red versus green leaves in *Elastostema rugosum*, *Plant, Cell and Environment.*, 25, 539.
- 📖 Nelson AB, Lau BH, Ide N and Rong Y (1998). Pycnogenol inhibits macrophase oxidative burst, lipoprotein oxidation and hydroxyl radical induced DNA damage, *Drug Dev. Ind. Pharm.*, 24, 139-144.
- 📖 Nelson SK, Bose SK, Grunwald GK, Myhill P, McCord JM (2006). The induction of human superoxide dismutase and catalase *in vivo*: A fundamentally new approach to antioxidant therapy, *Free Radic. Biol. Med.*, 40, 341-347.
- 📖 Nevin KG and Vijyammal P (2005). Pharmacological and immunomodulatory effects of *Aerva lanata* in Dalton's Lymphoma Ascites-Bearing mice, *Pharma. Health Sci.*, 43, 640-646.
- 📖 Nichans WG and Samuelson B (1968). Formation of malondialdehyde from phospholipids arachidonate during microsomal lipid peroxidation, *Eur. J Biochem.*, 6, 126-130.
- 📖 Nicol BM and Prasad SB (2002). Sialic acid changes in Dalton's lymphoma-bearing mice after cyclophosphamide and cisplatin treatment, *Braz. J Med. Biol. Res.*, 35, 549.
- 📖 Niki E (2004). Antioxidants and atherosclerosis, *Biochem. Soc. Trans.*, 32, 156-159.

- 📖 Niki E and Noguchi N (2000). Dynamics of antioxidant action of vitamin E, *Acc. Chem. Res.*, 37, 45-51.
- 📖 Noguchi N and Niki E (2000). Phenolic antioxidants: A rationale for design and evaluation of novel antioxidant drug for atherosclerosis, *Free Radic. Biol. Med.*, 28, 1538-1546.
- 📖 Norbury CJ and Hickson ID (2001). Cellular responses to DNA damage, *Annu Rev Pharmacol. Toxicol.*, 41,367-401.
- 📖 Noyan S, Cavusoglu I and Minbay FZ (2006). The effect of vitamin A on CCl₄ induced hepatic injuries in rats : A histochemical, immuno-histochemical and ultrastructural study, *Acta Histochem.*, 107, 421-434.
- 📖 Nwafor SW, Akah PPA and Okali CO (2001). Potentials of plant products as anticancer agents., *J Natu. Rem.*, 1/2, 75.
- 📖 Oberley LW and Oberley TD (1984). The role of superoxide dismutase and the gene amplification in carcinogenesis, *J Ther. Biol.*, 106, 403.
- 📖 Okai Y and Higashi-Okai K (2006). Radical-scavenging activity of hot water extract of Japanese rice bran-association with phenolic acids, *J UOEH.*, 28, 1-12.
- 📖 Okhawa H, Ohishi N and Yagi K (1979). Assay for lipid peroxides in animal tissues by thiobarbituric acid reaction, *Anal. Biochem.*, 95, 351-358.
- 📖 Okubo T, Nagai F, Seto T, Satoh K, Ushiyama K and Kano I (2000). The inhibition of phenyl hydroquinone-induced oxidative DNA cleavage by constituents of *Moutan cortex* and *Paeoniae radix*, *Biol. Pharm. Bull.*, 23, 199-203.
- 📖 Oliver M, Sebnell JR and Haris RS (1967). The vitamins, New York, London, Academic Press INC: Pp 338-350.
- 📖 Omura J and Sato R (1964). The carbon-monoxide-binding pigment of liver microsomes. I. Evidence for its hemoprotein nature, *J Biol. Chem.*, 239, 2370-2378.
- 📖 Oshino N, Chance B, Sies H and Bucher T (1973). The role of H₂O₂ generation in perfused rat liver and the reaction of catalase compound I and hydrogen donors, *Arch Biochem. Biophys.*, 154, 117-131.
- 📖 Packer L, Tritschler HJ and Wessel K (1997). Neuroprotection by the metabolic antioxidant alpha-lipoic acid, *Free Radic. Biol. Med.*, 22, 359-378.
- 📖 Pal A and Pal AK (2005). Studies on the genotoxicity of turmeric extracts in bacterial system, *Int. J Antimicrob. Agents.*, 16, 415-417.
- 📖 Panda S and Kar A (1997). Evidence for free radical scavenging activity of *Ashwagandha* root powder in mice, *Indian J Physiol. Pharmacol.*, 41, 424-426.
- 📖 Pandey S, Gujarat VR, Shanker K, Singh N and Dhawan KN (1994). Hepatoprotective effect of Liv 52 against CCl₄ induced lipid peroxidation in the liver of rats, *Indian J Exp. Biol.*, 32, 674-675.
- 📖 Papetti A, Daglia M, Aceti C, Quaglia M, Gregotti C and Gazzania G (2006). Isolation of an *in vitro* and *ex vivo* antiradical melanoidin from roasted barley, *J Agric. Food Chem.*, 54, 1209-1216.
- 📖 Park EJ and Pezzuto JM (2002). Botanicals in cancer chemoprevention, *Cancer Metastasis Rev.*, 31, 231-255.
- 📖 Park EJ, Nan JX, Kim JY, Kang HC, Choi JH, Lee SJ, Lee BH, Kim SJ, Lee JH, Kim YC and Sohn DH (2000). The ethanol-soluble part of a hot-water extract from *Artemisia iwayomogi* inhibits liver fibrosis induced by carbon tetrachloride in rats, *J Pharm. Pharmacol.*, 52, 875-881.
- 📖 Pellati F, Benvenuti S, Maqro L, Melegari M and Soragni F (2004). Analysis of phenolic compounds and radical scavenging activity of *Echinacea* spp., *J Pharm. Biomed. Anal.*, 35, 289-301.

- 📖 Pettit GR, Hoard MS, Doubek DL, Schmidt JM, Pettit RK, Tackett LP and Chapuis JC (1996). Antineoplastic agents 338. The cancer cell growth inhibitory constituents of *Terminalia arjuna* (Combretaceae), *J Ethnopharmacol.*, 53, 57-63.
- 📖 Pilarski R, Zielinski H, Ciesiolka D and Gulewicz K (2006). Antioxidant activity of ethanolic and aqueous extracts of *Uncaria tomentosa* (wild), DC. *J Ethnopharmacol.*, 104, 18-23.
- 📖 Plaa GL (2000). Chlorinated methanes and liver injury: highlights of the past 50 years, *Ann. Rev. Pharmacol. Toxicol.*, 40, 42-65.
- 📖 Polasek M, Skala P, Opletal L and Jahodar L (2004). Rapid automated assay of antioxidation radical-scavenging activity of natural substances by sequential injection technique (SIA) using spectrophotometric detection, *Anal. Biol. Chem.*, 379, 754-758.
- 📖 Poli G (1993). Liver damage due to free radicals, *Br. Med. Bull.*, 49, 604-620.
- 📖 Polidori MC (2003). Antioxidant micronutrients in the prevention of age related diseases, *J Postgrad. Med.*, 49, 229-235.
- 📖 Polidori MC, Mecocci P, Levine M and Frei B (2004). Short-term and long term vitamin C supplementation in human dose-dependently increase the resistance of plasma to *ex vivo* lipid peroxidation, *Arch. Biochem. Biophys.*, 423, 109-115.
- 📖 Pomilio AB, Sola GA, Mayer AM and Rumi LS (1994). Antitumour and cytotoxic screen of 5,6,7-trisubstituted flavones from *Gomphrena martiana*, *J Ethnopharmacol.*, 44, 25-33.
- 📖 Popovic M, Kaurinovic B, Trivic S, Mimica-Duki N and Bursac M (2006). Effect of celery (*Apium graveolens*) extracts on some biochemical parameters of oxidative stress in mice treated with carbon tetrachloride, *Phytother. Res.*, 20, 531-537.
- 📖 Pradeep K, Mohan CV, Anand KG and Karthikeyan S (2005). Effect of pretreatment of *Cassia fistula* Linn. leaf extracts against subacute CCl₄ induced hepatotoxicity in rats, *Indian J Exp. Biol.*, 43, 526-530.
- 📖 Pratico D, Reiss P, Tang LX, Sung S, Rokach J and McIntosh TK (2002). Local and systematic increase in lipid peroxidation after moderate experimental traumatic brain injury, *J Neurochem.*, 80, 894-898.
- 📖 Premkumar K, Absaham SK, Santhiya ST and Ramesh A (2004). Protective effect of *Spirwina furiformis* on chemical-induced genotoxicity in mice, *Fitoter.*, 75, 24-31.
- 📖 Priya TT, Bindu K, Sabu MC and Jolly CI (2006). Antioxidant and anti-inflammatory activities of the flowers of *Tabernaemontana coronaria* (L). R.B.R., *Indian J Pharma. Sci.*, 68, 352-355.
- 📖 Pryor WA (1986). Oxy-radicals and related species, their formation, lifetimes, and reactions, *Annu. Rev. Physiol.*, 48, 657.
- 📖 Quinn, PJ (2004). Antioxidants and prophylactics (Is the distribution of α -tocopherol in membranes consistent with its putative functions), *Biochem (Moscow)*, 69, 58-66.
- 📖 Rai S, Wahile A, Mukherjee K, Saha BP and Mukherjee PK (2006). Antioxidant activity of *Nelumbo nucifera* (Sacred lotus) seeds, *J Ethnopharmacol.*, 104, 322-329.
- 📖 Rajesh Kumar NV, Joy KL, Kuttan G, Ramsewak RS, Nair MG and Kuttan R (2002). Antitumour and anticarcinogenic activity of *Phyllanthus amarus* extract, *J Ethnopharmacol.*, 81, 17-22.
- 📖 Rajesh MG and Latha MS (2001). Hepatoprotection by *Elephantopus scaber* Linn. in CCl₄ induced liver injury, *Indian J Physiol Pharmacol.*, 45, 481-486.
- 📖 Rajesh MG and Latha MS (2004). Protective effect of *Glycyrrhiza glabra* Linn. on carbon tetrachloride-induced peroxidative damage, *Indian J Phamacol.*, 36, 284-287.

- 📖 Rajeswar Y, Kumar GPS, Gupta M and Mazumder UK (2005a). Studies on *in vitro* Antioxidant activities of methanol extract of *Mucuna pruriens* (Fabaceae) Seeds, Eur. Bull. Drug Res., 13, 31-38.
- 📖 Rajeshwar Y, Gupta M and Mazumder UK (2005b). Antitumour activity and *in vivo* antioxidant status of *Mucuna pruriens* (Fabaceae) seeds against Ehrlich Ascites Carcinoma in Swiss Albino Mice, Iranian J Pharmacol. Therapeu., 4, 46-53.
- 📖 Raj Kapoor B, Jayakar B and Murugesh N (2004). Antitumour activity of *Indigofera aspalathoides* on Ehrlich ascites carcinoma in mice, Indian. J Pharmacol., 36, 38-40.
- 📖 Ramasarma T (1990). H₂O₂ has a role in cellular regulation, Indian J Biochem. Biophys., 27, 269-274.
- 📖 Rana SVA, Tanu Allen and Rajul Singh (2002). Inevitable glutathione, then and now Indian, J Exp. Biology., 40, 706-716.
- 📖 Ranga RS, Sowmyalakshmi S, Burikhanov R, Akbarsha MA and Chendil D (2005). A herbal medicine for the treatment of lung cancer, Mol. Cell. Biochem., 280, 125-133.
- 📖 Rao DN, Yang MX, Lasker JM and Cederbaum AI (1996). 1-hydroxyl methyl radical formation during NADPH-and NADH-dependent oxidation of ethanol by human liver microsomes, Mol. Pharmacol., 49, 814-821.
- 📖 Rao GM, Rao AV, Raja A, Rao S and Rao A (2000). Role of antioxidant enzymes in brain tumours, Clinica Chimica Acta., 296, 203-212.
- 📖 Rao GM, Rao CV, Pushpangadan P and Shirwaiker A (2006). Hepatoprotective effects of Rubiadin a major constituent of *Rubia cordifolia* Linn, J Ethnopharmacol., 103, 484-490.
- 📖 Rao GR and Tandon SL (1969). Relationship between tetraploid *Solanum nigrum* and *Solanum luteum*, Sci. Cul., 35, 688-689.
- 📖 Rao GR, Khan R and Khan AH (1977). Cytomorphology and nature of sterility barriers of interspecific hybrids of some species of *Solanum nigrum* complex. Indian J Genet. Plant Breed., 37, 54-61.
- 📖 Rao MR, Palada MC and Becker BN (2004). Medicinal and aromatic plants in agroforestry systems, Agroforestry Systems., 61, 197-122.
- 📖 Rastogi R, Srivastava AK and Rastogi AK (2001). Long term effect of aflatoxin B1 on lipid peroxidation in rat liver and kidney: effect of Picroliv and Silymarin, Phytoter. Res., 15, 307-310.
- 📖 Ratnasooriya WD, Jayakody JR, Premakumara GA and Ediriweera ER (2005). Antioxidant activity of water extract of *Scoparia dulcis*, Fitoterapia, 76, 220-222.
- 📖 Ray G and Hussain SA (2002). Oxidants, antioxidants and carcinogenesis, Indian J Exp. Biol., 40, 1213-1232.
- 📖 Read MA (1995). Flavonoids: Naturally occurring anti-inflammatory agents: Am. J Pathol., 147, 235-237.
- 📖 Reaven PD, Khouw A, Beltz WF, Parathasarathy S and Witztum JL (1993). Effect of dietary antioxidant combinations in humans. Protection of LDL by vitamin E but not by beta-carotene, Arterioscler. Thrombo., 13, 590-600.
- 📖 Recknagel RO, Glende Jr EA and Hruszwcycz AM, (1967) in: W.A. Pryar (Ed). Free radicals in biology, Vol.III, Academic Press, New York, Pp 97-132.
- 📖 Recknagel ROC (1967). Carbon tetrachloride hepatotoxicity, Pharmacol. Rev., 19, 154-208.
- 📖 Reddy KP, Subhani SM, Khan PA and Kumar KB (1995). Effect of light and benzyladenine on dark treated graving rice (*Oryza sativa*) leaves II changes in peroxidase activity, Plant Cell Physiol., 26, 987-994.

- Reemakumari M (2006). A taxonomic revision of the Indian *Solanaceae*. Thesis submitted to Bharathiar University for the degree of philosophy (Ph.D) in Botany, Botanical survey of India, Southern Circle, Coimbatore – 641 003. Tamil Nadu, India.
- Rekha PS, Kuttan G and Kuttan R (2001). Effect of brahma rasayana on antioxidant system after radiation, *Indian J Exp. Biol.*, 39, 1173-1175.
- Rengstrongm J, Nilsson J, Tornvall P, Landou C and Hamsten A (1992). Susceptibility to low density lipoprotein oxidation and coronary atherosclerosis in man, *Lancet*, 339, 1183-1186.
- Rodrigo R and Bosco C (2005). Oxidative stress and protective effects of polyphenols comparative studies in human and rodent kidney, *A Rev. Comp. Biochem. Physiol. Toxicol. Pharmacol.*, 142, 317-327
- Rodriguez-Amaya (2003). Food carotenoids: analysis, composition and alterations during storage and processing of foods, *Forum Nutr.*, 56:35-37.
- Roe JH and Keuther CA (1943). The determination of ascorbic acid in whole blood and urine through 2,4-dinitrophenyl hydrazine derivative of dehydroascorbic acid, *J Biol. Chem.*, 147, 399-407.
- Rohini G, Sabitha KE and Devi CS (2004). *Bacopa monniera* Linn. Extract modulates antioxidant and marker enzymes status in fibrosarcoma bearing mice, *Indian J Exp. Biol.*, 42, 776-780.
- Rosangkima G and Prasad SB (2004). Antitumour activity of some plants from Meghalaya and Mizoram against murine ascites Dalton's lymphoma, *Indian J Exp. Biol.*, 42, 981-988.
- Rosenberg HR (1992). Chemistry and physiology of the vitamins, Interscience publisher, New York., Pp 425-453.
- Rotruck JT, Pope AL, Ganther HE and Swanson AB, Hafeman DG and Hoekstra WG (1973). Selenium: Biochemical role as component of glutathione peroxidase, *Science*, 179, 588-590.
- Ruch RJ, Cheng SJ and Klaurig JE (1989). Prevention of cytotoxicity and inhibition of intracellular communication by antioxidant catechins isolated from Chinese green tea, *Carcinogenesis*, 10, 1003-1008.
- Russo A, Acquaviva R, Campisi A, Sorrenti V, Giacomo DC, Virgata G, Barcellona ML and Venella A (2000). Bioflavonoids as antiradicals, antioxidants and DNA cleavage protectors, *Cell Biol. Toxicol.*, 16, 91-98.
- Russo A, Izzo AA, Cardile V, Borrelli F and Vanella A (2001). Indian medicinal plants as antiradicals and DNA cleavage protectors, *Phytomed.*, 8, 125-132.
- Sabu MC and Kuttan R (2002). Antidiabetic activity of medicinal plants and its relationship with their antioxidant property, *J Ethnopharmacol.*, 81, 155-160.
- Saha K, Lajis NH, Israf DA, Hamzah AS, Khozirah S, Khamis, S and Syahida A (2004). Evaluation of antioxidant and nitric oxide inhibitory activities of selected Malaysian Medicinal Plants, *J Ethnopharmacol.*, 92, 263-267.
- Sakihama Y, Cohen MF, Grace SC and Yamasaki H (2002). Plant phenolic antioxidant and pro-oxidant activities: phenolics-induced oxidative damage mediated by metals in plants, *Toxicol.*, 177, 67-80.
- Salomi NJ, Nair SC, Jayawardhanana KK, Varghese CD and Panikkar KR (1992). Antitumour principles from *Nigella sativa* seeds, *Cancer Lett.*, 63, 41-46.
- Sanmugapriya E and Venkataraman S (2006). Studies on hepatoprotective and antioxidant actions of *Strychnos potatorum* Linn. seeds on CCl₄ – induced acute hepatic injury in experimental rats, *J Ethnopharmacol.*, 105, 154-160.
- Saraswat B, Viesen PK, Patnaik GK and Dhawan BN (1999). *Ex vivo* and *In vivo* investigations of picrotoxin from *Picrorrhiza kurroa* in an alcohol intoxication model in rats, *J Ethnopharmacol.*, 66, 262-269.

- 📖 Saraswathy SD and Shyamala Devi CS (2001). Modulating effect of Liv 100, an ayurvedic formulation on antituberculosis drug-induced alternations in rat liver microsomes, *Phytothe.*, 15, 501-505.
- 📖 Saravanan R, Prakasam A, Ramesh B and Pugalendi KV (2002). Influence of *Piper betle* on hepatic marker enzymes and tissue antioxidant status in ethanol-treated wistar rats, *J Med. Food.*, 5, 197-204.
- 📖 Satturwar PM, Fulzele SV, Joshi SB and Dorle AK (2003). Hepatoprotective activity of Haridradi ghrita on carbon tetrachloride-induced liver damage in rats, *India J Exp. Biol.*, 41, 1447-1451.
- 📖 Schaefer S, Baum M, Eisenbrand G, Dietrich H, Will F and Jangowski C (2005). Polyphenolic apple juice extracts and their major constituents reduce oxidative damage in human colon cell lines, *Mol. Nutr. Food Res.*, 50, 24-33.
- 📖 Schaller B (2005). Prospects for the future; the role of free radicals in the treatment of stroke, *Free Rad. Biol. Med.*, 38, 411-425.
- 📖 Schectman G, James C, Bynd and Raymond Hoffman (1991). Ascorbic acid requirement for smokers: Analysis of a population survey, *Am. J Clin. Nutri.*, 53, 1466-1470.
- 📖 Schilling EE (1984). Foliar flavonoids of North American *Solanum* section *Solanum*, *Biochem. Syst. Evol.*, 12, 53-55.
- 📖 Schlebusch H, Rick W, Lang H and Knedel M (1974). Standards in the activities of clinically important enzymes, *Dtsch. Med. Wochenschr.*, 99, 765-766.
- 📖 Schmeda-Hirschmann G, Rodriguez JA, Theodulog C, Astudillo SL, Feresin GE and Tapia A (2003). Free radical scavengers and antioxidants from *Peumus boldus* mol. ("Boldo"), *Free Radic. Res.*, 37, 447-452.
- 📖 Schneider C (2005). Chemistry and biology of Vitamin E, *Mol. Nutr. Food Res.*, 49, 7-30.
- 📖 Schuldt EZ, Farias MR, Ribeiro-do-valle RM and Cklees K (2004). Comparative study of radical scavenger activities of crude extract and fractions from *Cuphea carthagenesis* leaves, *Phytochem.*, 11, 523-529.
- 📖 Seifert WF, Bosma A, Brouwer A, Hendriks HF, Roholl PJ, Van Leeuwen RE, Van Thiel-de Ruitter GC, Seifert-Bock I and Knook DL (1994). Vitamin A deficiency potentiates carbon tetrachloride-induced liver fibrosis in rats, *Hepatology*, 19, 193-201.
- 📖 Seifert WF, Bosma A, Brouwer A, Hendriks HF, Van Leeuwen RE, Van Thiel-de Ruitter GC, Seifert-Bock I and Knook DL (1995). Beta-carotene (provitamin A) decreases the severity of CCl₄-induced hepatic inflammation and fibrosis in rats, *Liver*, 15, 1-8.
- 📖 Selvendiran K, Singh JP, Krishnan KB and Sakthisekaran D (2003). Cytoprotective effect of Piperine against benzo (a) pyrene induced lung cancer with reference to lipid peroxidation and antioxidant system in swiss albino mice, *Fitoter.*, 74, 109-115.
- 📖 Sen CK (1995). Oxygen toxicity and Antioxidants: State of the Art, *Indian J Physiol. Pharmacol.*, 39, 177-196.
- 📖 Senthilnathan P, Magesh V, Padmavathi R and Sakthisekaran D (2002). Therapeutic efficacy of *Withania somnifera* along with Paclitaxel with reference to lipid peroxidation and antioxidant enzymes in experimental lung cancer, *Biomed.*, 22, 83-88.
- 📖 Seo HC Suzuki M, Kaneyama MO and Oh MJ (2003). Extraction and identification of antioxidant components from *Artemisia capillaries*, *Herbals*, 58, 1-8.
- 📖 Shahjahan M, Sabitha KE, Jainu M and Shyamala Devi CS (2004). Effect of *Solanum trilobatum* against carbon tetrachloride induced hepatic damage in albino rats, *Ind. J Med. Res.*, 120, 194-198.
- 📖 Shahjahan M, Vani G and Devi CSS (2005). Protective effect of *Indigofera oblongifolia* in CCl₄ induced hepatotoxicity, *J Med. Food.*, 8, 261-265.

- Shailajan S, Chandra N, Sane RT and Menon S (2005). Effect of *Asteracantha longifolia* nees against CCl₄ induced liver dysfunction in rat, *Indian J Exp. Biol.*, 43, 68-75.
- Shanker P, Baylan M, Huffman L, Thompson L and Larson H (2005). Vitamin E causes lowered total plasma oxidation, *J Am. Dietet. Asso.*, 109, 41-44.
- Sharma M, Pillai KK, Husain SZ and Giri DK (1997). Protective role of Propolis against alcohol-carbontetrachloride-induced hepatotoxicity in rats, *Indian J Pharmacol.*, 29, 76-81.
- Shetty K and Wahlquist ML (2004). A model for the role of the proline-linked pentose-phosphate pathways in phenolic phytochemical biosynthesis and mechanism of action for human health and environmental applications, *Asia Pac. J Clin. Nutr.*, 13, 1-24.
- Sheweita SA, Abd El-Gabar M and Bastawy M (2001). Carbon tetrachloride – induced changes in the activity of phase II drug metabolizing enzyme in the liver of male rats: role of antioxidants, *Toxicol.*, 165, 217-224.
- Shi H, Shi X and Liu KJ (2004). Oxidative mechanisms of arsenic toxicity and carcinogenesis, *Mol. Cell. Biochem.*, 255, 67-78.
- Shih CC, Wu YW and Lin WC (2005). Aqueous extract of *Anoectochilus formosanus* attenuate hepatic fibrosis induced by carbontetrachloride in rats, *Phytomed.*, 12, 453-460.
- Shivashangari KS, Ravikumar V and Devaki T (2004). Evaluation of protective efficacy of *Asteracantha longifolia* on acetaminophen-induced liver damage in rats, *J Med. Food*, 7, 245-251.
- Shukla R, Sharma SB, Puri D and Murthy PS (2000). Medicinal plants for treatment of diabetes mellitus, *Indian J Clin. Biochem.*, 15, 169-177.
- Shukla R, Gupta S, Gambhir, Prabhu KM and Murthy PS (2004a). Antioxidant effects of aqueous extracts of the bark *Ficus bengalensis* in hypercholesterolemic rabbits, *J Ethnopharmacol.*, 92, 47-51.
- Shukla S, Bhadauria M and Jodon A (2004b). Effect of Propolis extract on acute carbontetrachloride induced hepatotoxicity, *Indian J Exp. Biol.*, 42, 993-997.
- Shyamal S, Latha PG, Shine VJ, Suja SR, Rajasekaran S and Ganga Devi T (2006). Hepatoprotective effects of *Pittosporum neelgherrense* wight L Arn., a popular Indian ethanomedicine, *J Ethnopharmacol.*, 107, 151-155.
- Shylesh BS and Padikkala J (2000). In vitro cytotoxic and antitumour property of *Emilia sonchifolia* L. DC in mice, *J Ethnopharmacol.*, 73, 495-500.
- Sies H (1986). Biochemistry of oxidative stress, *Angew chem. (Int Ed Eng)*, 25, 1058.
- Singh RB, Singh NK, Rastogi SS, Wander GS, Aslam M, Onouchi Z, Kummerow FA and Nangia S (1997). Antioxidant effect of lovastatin and vitamin E on experimental atherosclerosis in rabbits, *Cardiovas. Drugs Ther.*, 11, 575-590.
- Singh K, Khanna AK and Chandan R (1999). Hepatoprotective activity of against carbon tetrachloride induced heaptotoxicity in rats, *Indian J Exp. Biol.*, 37, 1025-1026.
- Singh NP, Mc Coy MT, Tice RR and Schneider EL (1988). A simple technique for quantitation for low levels of DNA damage in individual cells, *Exp. Cell Res.*, 175, 184-196.
- Singh SM, Singh N and Shrivastava P (2006). Effect of alcoholic extract of ayurvedic herb *Tinospora cordifolia* on the proliferation and myeloid differentiation of bone marrow precursor cells in a tumour-bearing host, *Fitoter.*, 77, 1-11.
- Sinha AK (1972). Colorimetric assay of catalase, *Anal. Biochem.*, 47, 389-394.
- Sivalokanathan S, Balasubramanian MP and Vijayababu MR (2006). Effects of *Terminalia arjuna* bark extract on apoptosis of human hepatoma cell line HpeG2, *World J., Gastroentrol.*, 12, 1018-1024.

- ☞ Skrzydlewska E, Ostrowska J, Stankiewicz A and Farbiszewski R (2002). Green tea as a potent antioxidant in alcohol, Intoxication, Addic. Biol., 7, 307-314.
- ☞ Slater TF (1966). Necrogenic action of carbontetrachloride in the rat: a speculative mechanism based on activation, Nature., 209, 36-40.
- ☞ Smith MA, Perry G, Richey PL, Sayre LM, Anderson VE, Beal MF and Kowall N (1996). Oxidative damage in Alzheimer's, Nature, 382, 120-121.
- ☞ Song Z, Zhou Z, Chen T, Hill D, Kang J, Barve S and McClain C (2003). S-adenosylmethiomine (SAME) protects against acute alcohol induced hepatotoxicity in mice, J Nutr. Biochem., 14, 591-597.
- ☞ Soni MG, Polasa N and Krishnaswamy K (1999). Alterations in rat tissue glutathione-S-transferase and its isozyme (class MV) during onion feeding, Indian J Pharmacol., 31, 239-340.
- ☞ Spagna G, Barbagallo RN, Chisari M and Branca F (2005). Characterization of a tomato polyphenol oxidase and its role in browning and lycopene content, J Agri. Food Chem., 53, 2032-2038.
- ☞ Speit G and Hartmann A (2005). The comet assay: a sensitive genotoxicity test for the detection of DNA damage, Methods Mol. Biol., 291, 85-95.
- ☞ Sreepriya M and Devaki T (2001). Effect of *Indigofera tinctoria* Linn on liver antioxidant defense system during D-galactosamine/endotoxin- induced acute hepatitis in rodents, J Exp. Biol., 39, 181-184.
- ☞ Sridharan S and Shyamaladevi CS (2002). Protective effect of N-acetylcysteine against gamma ray induced damages in rats-Biochemical evaluations, Indian J Exp. Biol., 40, 181-186.
- ☞ Srikumar R, Parthasarathy NJ, Manikandan S, Narayanan GS and Sheeladevi R (2006). Effect of Triphala on oxidative stress and on cell-mediated immune response against noise stress in rats, Mol. Cell. Biochem., 283, 67-74.
- ☞ Srinivasan M, Rukkumani R, Sudheer AR and Menon VP (2005). Ferulic acid, a natural protector against carbon tetrachloride - induced toxicity, Fundum. Clin. Pharmacol., 19, 491-496.
- ☞ Stamler JS (1994). Redox signaling: nitrosylation and related target interactions of nitric oxide, Cell, 78, 931-936.
- ☞ Storz P (2005). Reactive oxygen species in tumour progression, Front Biosci., 10, 1881-1896.
- ☞ Stram DO, Huberman M and Wu AH (2002). Is residual confoundings a reasonable explanation for the apparent protective effects of beta-carotene found in epidemiologic studies of lung cancer in smoker, Am. J Epedemiol., 155, 622-628.
- ☞ Strubelt O, Obermeier F, and Siegens CP (1978). The influence of ethanol pretreatment on the effects of mine hepatotoxic agents, Acta Pharmacol. Toxicol., 43, 211-218.
- ☞ Stryker S, Stein EA, Stempfer MJ, Sober A and Willet WC (1987). Effects of diet, alcohol and cigarette use on the blood levels of beta carotene, J Am. Col. Nutr., 6, 73,
- ☞ Subbarao VV and Gupta ML (1976). Effect of an indigenous Drug Liv 52 against alcohol-induced hepatic damage. A Biochemical Study, Probe, 4, 235-239.
- ☞ Subbarao VV and Gupta ML (1978a). Changes in serum transaminases due to hepatotoxicity and the role of an indigenous hepatotoxic Liv.52, Probe, 17, 175.
- ☞ Subbarao VV and Gupta ML (1978b). Effect of carbontetrachloride and Liv 52 on liver microsomal protein, total protein and nucleic acids, Probe, 11, 83.
- ☞ Sudha K, Rao AV, Rao SN and Rao A (2004). Oxidative damage antioxidant in cerebrovascular accident, Indian J Physiol. Pharmacol., 48, 489-492.

- ☞ Suffness M and Douros J (1982). Current status of the NCI plant and animal products program, *J Natu. Pro.*, 45,1- 14.
- ☞ Sultana S, Perwaiz S, Iqbal M and Athar M (1995). Crude extracts of hepatoprotective plants, *Solanum nigrum* and *Cichorium intybus* inhibit free radical-mediated DNA damage, *J Enthano-pharmacol.*, 45,189-192.
- ☞ Summa C, Rapaso FC, Mc Court J, Scalzo RL, Wagner KH, Elmadfa I and Anklam E (2005). Effect of roasting on the radical scavenging activity of *Cocoa beans*, *Eur.food.Res. Technol.*, 34, 368-375.
- ☞ Sung SH, Lee EJ, Cho JH, Kim HS and Kim YC (2000). Sauchinone, a lignan from *Saururus chinensis*, attenuates CCl₄-induced toxicity in primary cultures of rat hepatocytes, *Biol. Pharm. Bull.*, 23, 666-668.
- ☞ Sunitha S, Nagaraj M and Varalakshmi P (2001). Hepatoprotective effect of lupeol and lupeol linoleate on tissue antioxidant defence system in cadmium-induced hepatotoxicity in rats, *Fitoter.*, 72, 516-523.
- ☞ Szeto YT and Benzie IF (2002). Effects of dietary antioxidants on human DNA *ex vivo*, *Free Radic. Res.*, 36,113-118.
- ☞ Tak PP, Nathan JZ, Green DR and Firestein GS (2000). Rheumatoid arthritis and B53: how oxidative stress might alter the course of inflammatory disease, *Immunol. Today.*, 21, 78-82.
- ☞ Talalay P (2000). Chemoprotection against cancer by induction of phase 2 enzymes, *Biofactors.*, 12, 5-11.
- ☞ Tandon SL and Rao GR (1974). *Solanum nigrum* L in evolutionary studies in world crops. (Diversity and change in the Indian subcontinent). *J Hutchinson*, ed, Pp109-117
- ☞ Tapiero H, Tew KD, Ba GN and Mathe G (2002). Polyphenols: do they play a role in the prevention of human pathologies?, *Bio. Med. Pharmacol.*, 56, 200-207.
- ☞ Tappel AL (1962). Vitamin E as the biological lipid antioxidant, *Vitam. Horm.*, 20, 493.
- ☞ Tappel AL (1975). Lipid peroxidation and fluorescent molecular damage to membranes: In: *Pathobiology of cell membranes*, edited by B.F Trump and AU Arstila, New York: Academic., Pp145-175.
- ☞ Tasduq SA, Mondhe DM, Gupta DK, Baleshwar M and Johri RK (2005). Reversal of fibrogenic events in liver by *Emblia officinalis* (fruit), an Indian Natural Drug, *Biol. Pharma. Bull.*, 28, 1304.
- ☞ Taylor JLS, Robe T, McGraw LJ, Jager AK and Staden J (2004). Towards the scientific validation of traditional medicinal plants, *Agroforestry Systems.*, 62, 131-141.
- ☞ Taylor NL, Day DA and Millar AH (2004). Targets of stress-induced oxidative damage in plant mitochondria and their impact on cell carbon/nitrogen metabolism, *J Exp. Bot.*, 55, 1-10.
- ☞ Taysi S, Polat F, Gul M, Sari RA and Bakan F (2002). Lipid peroxidation, some extracellular antioxidants, and anti oxidant enzymes in serum of patients with rheumatoid arthritis, *Rheumatoid Int.*, 21, 200-204.
- ☞ Tharakan B, Dhanasekaran M and Manyam BV (2005). Antioxidant and DNA protecting properties of anti-fatigue herb *Trichopus zeylanicus*, *Phytother. Res.*, 19, 669-673.
- ☞ Then M, Szentmihalyi K, Gere A, Jasztrab SZ and Szoke E (2005). Antioxidant properties of *Myrtilli Folium*, *Phaseoli Fcuitus Sine Seminibus* and drug mixture extract, *Acta Alimentaria.*, 34, 169-176.
- ☞ Thirumurugan RS, Kavimani S and Srivastava RS (2000). Antitumour activity of *Rhinac anthone* against Dalton's ascitic lymphoma, *Biol. Pharm. Bull.*, 23, 1438-1440.

- 📖 Tian Z, Pan RL, Si JY and Xiao PG (2006). Cytotoxicity of cycloartane triterpenoids from aerial part of *Cimicifuga foetida*, *Fitoterapia.*, 77, 39-42.
- 📖 Tilak JC, Banerjee M, Mohan H and Devasagayam TP (2004). Antioxidant availability of turmeric in relation to its medicinal and culinary uses, *Phytother. Res.*, 18, 798-804.
- 📖 Tirkey N, Pikhwal S, Kuhad A and Chopra K (2005). Hesperidin, a citrus bioflavonoid, decreases the oxidative stress produced by carbon tetrachloride in rat liver and kidney, *BMC Pharmacol.*, 5, 2.
- 📖 Tiwari AK (2001). Imbalance in antioxidant defence and human diseases: Multiple approach of natural antioxidants therapy, *Curr. Sci.*, 81, 1179-1187.
- 📖 Torres RL, Torres IL, Gamaro GD, Fontella FU, Silveira PP, Moreina JS, Lacerda M, Amoretti JR, Rech D, Dalmaz C and Bello AA (2004). Lipid peroxidation and total radical-trapping potential of the lungs of rats submitted to chronic and sub-chronic stress, *Braz J Med. Biol. Res.*, 37, 185-192.
- 📖 Traber MG (1997). Cellular and molecular mechanisms of oxidants and antioxidants, *Miner Electrolyte Metab.*, 23, 135.
- 📖 Tripathi BY (1998). Free radicals in Ayurveda, *Ancient Sci. Life.*, 17, 158-168.
- 📖 Tripathi YB, Upadhyay AK and Chaturvedi P (2001). Antioxidant property of *Similax china* Linn, *Indian J Exp. Biol.*, 39, 1176-1179.
- 📖 Trivedi NP and Rawal UM (2001). Hepatoprotective and antioxidant property of *Andrographis paniculata* (Nees) in BHC induced liver, *Indian J Exp. Biol.*, 39, 41-46.
- 📖 Tuntawiroon M, Sritongkul N, Brune M (1991). Dose dependent inhibitory effect of phenolic compounds in foods on non-heme-iron absorption in men, *Am. J Clin. Nutr.*, 53, 554-557.
- 📖 Ulicna O, Greksak M, Vancova O, Zlatos L, Galbavy S, Bozek P and Nakano M (2003). Hepatoprotective effect of rooibos tea *Astalanthus linearis* on CCl₄ induced liver damage in rats, *Physiol. Res.*, 52, 461-466.
- 📖 Upasani CD and Balaraman R (2001). Effect of vitamin E, vitamin C and *Spirulina* on the levels of membrane bound enzymes and lipids in some organs of rats exposed to lead, *Indian J Pharmacol.*, 33, 185-191.
- 📖 Ursini F, Maiorino M and Brigelieu-Elohe R (1995). The diversity of glutathione peroxidase, *Methods in Enzymol.*, 252, 38-40.
- 📖 Usuh IF, Akpan EJ, Etim EO and Farombi EO (2005). Antioxidant actions of Dried flower extracts of *Hibiscus sabdariffa* L. on Sodium Arsenite-induced oxidative stress in rats, *Pak. J Nutrition*, 4, 135-141.
- 📖 Vaca CE, Wilhelm J and Harms-Rihgdahl M (1988). Interaction of lipid peroxidation product with DNA, *A Rev. Mut. Res.*, 195, 137-149.
- 📖 Valcheva-Kuzmanova SV, Popova PB, Galunska BT and Belcheva A (2006). Protective effect of *Aronia melanocarpa* fruit juice pretreatment in a model of carbon tetrachloride-induced hepatotoxicity in rats, *Folia Med.*, 48, 57-62.
- 📖 Valko M, Izakovic M, Mazur M, Rhodes, CJ and Telser J (2004). Role of oxygen radicals in DNA damage and cancer incidence, *Mol. Cell. Biochem.*, 266, 37-56.
- 📖 Valko M, Leibfritz D, Moncol J, Cronin MT, Mazur M and Telser J (2007). Free radicals and antioxidants in normal physiological functions and human disease, *The Inter. J Biochem. Cell Biol.*, 39, 44-84.
- 📖 Valko M, Rhodes CJ, Moncol J, Izakovic M and Mazur M (2006). Free radicals, metals and antioxidants in oxidative stress induced cancer, *Chem. Biol. Interact.*, 160, 1-40.
- 📖 VanCamp W, Capiou K, Van Montagu M, Inze D and Slooten L (1996). Enhancement of oxidative stress tolerance in transgenic tobacco plants over producing Fe-superoxide dismutase in chloroplasts, *Plant Physiol.*, 112, 1703-1714.

- 📖 Vandam JAF and Vandewater B (2005). Glutathione-S-transferase Pi (GST-P) and anticancer agent induced apoptosis, Amsterdam centre for drug research, Leids universitai Medisch Centrum., Project Code – UL 2002 – 2741.
- 📖 Vassalle C, Perozzi L, Botto N, Andreassi MG and Zucchelli GC (2004). Oxidative stress and its association with coronary artery disease and different-athrogenic risk factors, *J Int. Med.*, 256, 308-315.
- 📖 Vega-Lopez S, Devaraj S and Jialal I (2004). Oxidative stress and antioxidant supplementation in the management of diabetic cardiovascular disease, *J Invest. Med.*, 52, 24-32.
- 📖 Venkateswaran S, Pari L, Viswanathan P and Menon VP (1997). Protective effect of liver, a herbal formulation against erythromycin estolate induced hepatotoxicity in rats, *J Ethnopharmacol.*, 57,161-167.
- 📖 Venkateswarlu J and Rao MK (1972). Breeding systems, crossability relationships and isolating mechanisms in the *Solanum nigrum* complex, *Cytologia.*, 37, 317-326.
- 📖 Venukumar MR and Latha MS (2002). Antioxidant effect of *Coscinium fenestratum* in CCl₄ treated rats, *Indian J Physiol. Pharmacol.*, 46, 223-228.
- 📖 Venukumar MR and Latha MS (2004). Effect of *Coscinium fenestratum* on hepatotoxicity in rats, *Indian J Exp. Biol.*, 42, 791-797.
- 📖 Vijayan P, Vijayaraj P, Setty PH, Hariharpura RC, Godavarthi A, Badami S, Arumugam DS and Bhojraj S (2004). The cytotoxicity activity of the total alkaloids isolated from different parts of *Solanum pseudocapsicum*, *Biol. Pharm. Bull.*, 27, 528-530.
- 📖 Vijayan P, Vinod Kumar S, Dhanaraj SA, Badami S and Suresh B (2002). *In vitro* cytotoxicity and Anti-tumor properties of the total alkaloid fraction of unripe fruits *Solanum pseudocapsicum*, *Pharm. Biol.*, 40, 456-460.
- 📖 Villarreal ML, Alvarez L, Alonso D, Navarro V, Garcia P and Delgado G (1994). Cytotoxic and antimicrobial screening of selected terpenoids from *Asteraceae* species, *J Ethnopharmacol.*, 42, 25-29.
- 📖 Vitale AA, Acher A and Pomilio AB (1995). Alkaloids of *Datura ferox* from Argentina, *J Ethnopharmacol.*, 49, 81-89.
- 📖 Vuorela P, Leinonen M, Saikku P, Tammela P, Rauha JP, Wennbeng T and Vuorela, H (2004). Natural products in the process of Finding New Drug candidates, *Curr. Med. Chem.*, II, 1375-1389.
- 📖 Wang H, Wei W, Wang NP, Gui SY, Wu L, Sun WY and Xu SY (2005). Melatonin ameliorates carbon tetrachloride-induced hepatic fibrogenesis in rats via inhibition of oxidative stress, *Life Sci.*, 77, 1902-1915.
- 📖 Wang M, Simon, JE, Aviles IF, He K, Zheng QY and Tadmor Y (2003a). Analysis of antioxidative phenolic compounds in Artichoke (*Cynara scolymus* L), *J Agric. Food. Chem.*, 51,601-608.
- 📖 Wang L, Yen JH, Liang HL and Wu MJ (2003b). Antioxidant effect of methanol extracts from lotus plumule and blossom (*Neleumbo nucifera* Gertn.), *J Food Drug Anal.*, 11, 60-66.
- 📖 Wang PV, Kaneko T, Tsukada H, Nakano M and Sato A (1997). Dose and route dependent alterations in metabolism and toxicity of chemical compounds in ethanol-treated rats: difference between highly (Chloroform), and poorly (carbon tetrachloride), metabolized hepatotoxic compounds, *Toxicol. Appl. Pharmacol.*, 142, 13-21.
- 📖 Wang SY, Wu JH, Cheng SS, Lo CP, Chang HN, Shyur LF and Chang HN(2004) Antioxidant activity of extracts from *Colocedrus formosana* leaf, bark and heartwood, *J Wood Sci.*, 50, 422-426.

- 📖 Wang X and Quinn PJ (1999). Vitamin E and its function in membranes, *Prog. Lipid Res.*, 38, 309-336.
- 📖 Wardi J, Reifen R, Aeed H, Zadel L, Auni Y and Bruck R (2001). Beta-carotene attenuates experimentally induced liver cirrhosis in rats, *Isr. Med. Asso. J.*, 3, 151-154.
- 📖 Wargovich MJ, Woods C, Hollis DM and Zander ME (2001). Herbs, Cancer prevention and Health, *The Am. Soci. Nutr.*, 131, S3034-S3036.
- 📖 Watt JM and Breyer-Brandwijk (1962). *Solanum nigrum* L. in the medicinal and poisonous plants of Southern and Eastern Africa, E and S. Livingstone Ltd., Edinburgh and London, 996-1000.
- 📖 Weiss SJ, Lampert MB and Test ST (1983). Long-lived oxidants generated by human neutrophils: characterization and bioactivity, *Science*, 222, 625-628.
- 📖 Weller RF and Phipps RH (1979). A review of the Black nightshade (*Solanum nigrum* L), *Protection Ecology*, 1, 121-139.
- 📖 Wijeratne SSK, Abou-zaid MM and Shahidi F (2006). Antioxidant Polyphenols in Almond and its coproducts, *J Agric. Food Chem.*, 54, 312-318.
- 📖 Wills PJ and Asha VV (2006). Preventive and curative effect of *Lysodium flexuosum* (L) SW on carbontetrachloride induced hepatic fibrosis in rats, *J Ethnopharmacol.*, 107, 7-11.
- 📖 Win W, Cao Z, Peng X, Trush MA and Li Y (2002). Different effects of genistein and resveratrol on oxidative DNA damage *in vitro*, *Mut. Res.*, 513, 113-120.
- 📖 Winterbourn CC, Hawkins RE, Brain M and Carrel RW (1975). The estimation of red cell superoxide dismutase activity, *J Lab. Clin. Med.*, 85, 337-341.
- 📖 Wirasathien L, Boonarkart C, Pengsuparp T and Suttisri R (2006). Biological activities of alkaloids from *Pseudeuvari setosa*, *Pharm. Biol.*, 44, 274-278.
- 📖 Witztum JL (1993). The role of oxidized low density lipoproteins in atherogenesis, *Br. Heart J.*, 69, 12-18.
- 📖 Wong KT and Tan BK (1996). *In vitro* cytotoxicity and immunomodulating property of *Rhaphidophora korthalssi*, *J Ethnopharmacol.*, 52, 53-57.
- 📖 Wu CH, Hsieh CL, Song TY and Yen GC (2001). Inhibitory effects of *Cassia tora* L on benzo (a) pyrene mediated DNA damage toward HepG2 cells, *J Agric. Food. Chem.*, 49, 2579-2586.
- 📖 www.frame-uk.demon.co.uk
- 📖 www.organicashitaba.com/phytochemicals.html
- 📖 www.thedoctorslounge.net
- 📖 Xiao JB, Chen XQ, Zhang YW, Jiang XY and Xu M (2006). Cytotoxicity of *Marchantia convolute* leaf extracts to human liver and lung cancer cells, *Bra. J Med. Biol. Res.*, 39, 731-738.
- 📖 Xu DH, Mei XT, Chen Y, Li YM, Lu JY and Xu SB (2005). Protective effects of 5, 4'-dihydroxy-3', 5'-dimethoxy-7-O-beta-D-glucopyranosyloxy-flavone on experimental hepatic injury, *World J Gastroenterol.*, 11, 1764-1768.
- 📖 Yagi K (1987). Lipid peroxides and human diseases, *Chem. Phys. Lipids*, 45, 337-351.
- 📖 Yang XJ, Liu J, Ye LB, Yang F, Ye L, Gao JR and Wu ZH (2006). *In vitro* and *in vivo* protective effects of proteoglycan isolated from mycelia of *Ganoderma lucidum* on carbon tetrachloride-induced liver injury, *World J Gastroenterol.*, 12, 1379-1385.
- 📖 Yen GC and Chung DY (1999). Antioxidant effects of extracts from *Cassia tora* L. prepared under different degrees of roasting on the oxidative damage to Biomolecules, *J Agric. Food Chem.*, 47, 1326-1332.