

References

1. Valiathan MS. Healing plants. *Curr Sci* **1998** , 75 , 1122 - 7.
2. Chattopadhyay MK. Herbal medicines. *Curr Sci* **1996** , 71 , p5.
3. Gupta LM & Raina R. Side effects of some medicinal plants. *Curr Sci* **1998** , 75 , 897 - 900.
4. Vishnu Ji Ram & Atul Goel. Past and present scenario of hepatoprotectants. *Curr Med Chem* **1999**, 6 , 217 - 54.
5. James GWL & Pickering RW. The protective effect of a novel compound RU-18492 on galactosamine induced hepatotoxicity in rats. *Arzheimittel Forschung Grug Res* **1976** . 26 , 2197 - 9.
6. Glende EA Jr & Recknagel RO. An indirect method demonstrating that CCl₄-dependent hepatocyte injury is linked to rise in intracellular calcium ion concentration. *Res Commun Chem Path Pharmacol* **1991** , 73 , 41 - 52.
7. Rappaport AM. The microcirculatory acinar concept of normal and pathological hepatic structure. *Beitr Path* **1976** , 157 , p 215.
8. Sheila Sherlock & James Dooley. Anatomy and function, In : *Diseases of the liver and biliary system*. London , Blackwell Scientific Publication, **1993**, 9th ed, 1 - 32.
9. Alex Mowaat P. Anatomy and physiology of liver. In : *Liver disorders in childhood*, John Apley (ed) , London, Butterworths, **1979**, 1 - 18.
10. Mitchell JR, Jallow DJ, Potter WZ, Gillette JR & Brodie DN. Acetaminophen-induced hepatic necrosis. I. Role of drug metabolism. *J Pharmacol Exp Ther* **1973** , 187 , 185 - 94.
11. Chhaya Gadgoli & Mishra SH. Antihepatotoxic activity of *Cichorium intybus*. *J Ethnopharmacol* **1997** , 58 , 131 - 4

12. Maganto P, Traber PG & Rusnell C. Long term maintenance of the adult pattern of liver specific expression for P 450b, P 450e, albumin and α -fetoprotein genes in intrasplenically transplanted hepatocytes. *Hepatology* **1990** , 11 , p 585.
13. Dalia Chattopadhyay & Nagalakshmi P. Immunological alterations in murine model after inoculation of carbon tetrachloride. *Antiseptic* **2000** , 97 , 297 - 300.
14. Recknagel RO. Carbon tetrachloride, status quo and future prospects. *Trends Pharmac Sci* **1983** , 4 , 129 - 31.
15. Slater TF. Biochemical studies on liver injury. In : *Biochemical mechanism of liver injury*, London , Academic Press **1965** , 1 - 44.
16. Slater TF & Sawyer BC. The stimulating effects of carbon tetrachloride and other halogenoalkanes on peroxidative reactions in rat liver fraction. *J Biochem* **1971** , 123 , 805 - 14.
17. Recknagel RO & Ghosal AK. Lipid peroxidation as a vector in carbon tetrachloride hepatotoxicity. *Lab Invest* **1966** , 15 , 132 - 46.
18. Recknagel RO. Carbon tetrachloride hepatotoxicity. *Pharmacol Rev* **1967** , 19 , 145 - 208.
19. Recknagel RO. A new direction in the study of carbon tetrachloride hepatotoxicity. *Life Sci* **1983** , 33 , 401 - 8.
20. Loeper J, Descatoire V & Maurice M. Presence of functional cytochrome P 450 on isolated rat hepatocyte plasma membrane. *Hepatology* **1990** , 11 , p 850.
21. Jeon YJ, Han SH, Yang KH & Kaminski NE. Induction of liver-associated transforming growth factor beta (TGF-beta 1) mRNA expression by carbon tetrachloride leads to the inhibition of T helper 2 cell-associated lymphokines. *Toxicol Appl Pharmacol* **1997** , 144 , 27 - 35.
22. Meenakshisundaram Sreepriya, Thiruvankadom Devaki & Mohammed Nayeem. Protective effects of *Indigofera tinctoria*. L against carbon tetrachloride challenges on ' in situ ' perfused rat liver. *Indian J Physiol Pharmacol* **2001** , 45 , 428 - 34.
23. Trivedi NP & Rawal UM. Hepatoprotective and antioxidant property of *Andrographis paniculata* (Nees) in BHC induced liver damage in mice. *Indian J Exp Biol* **2001** , 39 , 41 - 6.

24. Sen J, Turgut K, Hatipoglu F, Ok M & Civelek T. Evaluation of ultrasonographic and morphological liver changes in dogs with steroid hepatopathy. *Indian Vet J* **2001** , 78 , 586 - 9.
 25. Suresh MV, Bindu Menon & Indira M. Effects of exogenous vitamin C on ethanol toxicity in rats. *Indian J Physiol Pharmacol* **2000** , 44 , 401 -10.
 26. Sangeetha Banwra, Singh J & Khosla P. Effect of *Azadirachta indica* (neem) leaf aqueous extract on paracetamol - induced liver damage in rats. *Indian J Physiol Pharmacol* **2000** , 44 , 64 - 8.
 27. Ratra GS, Powell CJ, Park BK, Maggs JL & Cottrell S. Methapyrilene hepatotoxicity is associated with increased hepatic glutathione, the formation of glucuronide conjugates and enterohepatic recirculation. *Chem Biol Interact* **2000** , 129 , 279 - 95.
 28. Munde GV, Kale VG, Kable TK & Jaybhaye MM. Hepatotoxicity of anti tuberculous drugs and reintroduction of treatment. *Indian Med Gaz* **2000** , 134 , 31 - 5.
 29. Santra A, Maity A, Choudhury A & Guha Mazumdar DN. Oxidative stress in liver of mice exposed to arsenic contaminated water. *Indian J Gastroenterol* **2000** , 19 , 1 - 2.
 30. Mathur R, Mathur S & Prakash AO. Therapeutic efficacy of Liv-52 herbal drug against beryllium toxicity. *Int J Toxic Occup Envir Hlth* **1993** , 2 , p 77.
 31. Chhabra SK & Rao AR. Translactational exposure of F1 mouse pups to selenium. *Fd Chem Toxic* **1994** , 32 , 527 - 31.
 32. Sunanda Panda, Pratima Gupta & Anand Kar. Protective role of aswagandha in cadmium-induced hepatotoxicity and nephrotoxicity in male mouse. *Curr Sci* **1997** , 72 , 546-7.
 33. Pulla Reddy ACH & Lokesh BR. Effects of dietary turmeric (*Curcuma longa*) on iron induced lipid peroxidation in the rat liver. *Fd Chem Toxic* **1994** , 32 , 279 - 83.
 34. Chau-Jong Wang, Jin-Ming Wang, Wea Lung Lin, Chia-Yih Chu, Fen Pi Chou & Tsui-haw Tsong. Protective effect of Hibiscus anthocyanins against tert-butyl hydroperoxide-induced hepatic toxicity in rats. *Fd Chem Toxic* **2000** , 38 , 411 - 6.
-

35. Ahmed RS, Vandana Seth, Pasha S F & Banerjee BD. Influence of dietary ginger (*Zingiber officinales* Rose) in oxidative stress induced by malathion in rats. *Fd Chem toxic* **2000** , 38 , 443 – 50.
36. Goel SK & Gupta GSD. Modulations in hepatic mixed function oxidases in female rats following subchronic dermal exposure to gasoline : methanol blend. *Indian J Toxicol* **2000** , 7 , 1 - 10.
37. Malhotra S & Pandhi P. Analgesics for paediatric use . *Indian J Pediat* **2000** , 67, 589 - 90.
38. Bansal AK, Trivedi R, Soni GL & Bhatnagar D. Hepatic and renal oxidative stress in acute toxicity of N- nitrosodiethylamine in rats. *Indian J Exp Biol* **2000** , 38 , 916 - 20.
39. Trivedi N & Rawal UM. Hepatoprotective and toxicological evaluation of *Andrographis paniculata* on severe liver damage. *Indian J Pharmac* **2000** , 32, 288 - 93.
40. Rao GVS, Parthasarathy KR & Sundararaj A. Histopathological features of hepato-renal toxicity of butylated hydroxy toluene (BHT) in broiler chicken. *Cheiron* **2000** , 29 , 91 - 93.
41. Kausal Das K, Soma Choudhari & Narendra Biswas M. Role of ascorbic acid on transaminase activities in some metabolically active tissues of aspirin treated rats. *Indian J Physiol Pharmacol* **1999** , 43 , 70 - 2.
42. Samita Rani & Dua KK. Cypermethrin toxicity induced histological and biochemical changes in the liver of albino rats (*Rattus norvegicus*). *J Ecotoxic Envir Monit* **1999** , 9 , 41 - 6.
43. Virk S & Sharma RC. Biochemical changes induced by nickel and chromium in the liver of *Cyprinus carpio* L. *Pollution Res* **1999** , 18, 217 - 22.
44. Kamat JP . Bolor KK, Devasagayam TPA & Kesavan PC. Protection of superoxide dismutase by caffeine in rat liver mitochondria against γ - irradiation. *Curr Sci* **1999** , 77 , 286 - 9.
45. Acharya AP, Sharma AK, Ramkumar & Prasad MC. Liver alterations due to progressive feed deprivation in goats. *Indian J Vet Path* **1999** , 23 , 28 - 30.
46. Ahmad A, Pillai KK, Jameel Ahmad S, Balani DK, Najmi AK, Marwah R & Hameed A. Evaluation of the hepatoprotective potential of jigrine pre-treatment

-
- on thioacetamide induced liver damage in rats. *Indian J Pharmac* **1999** , 31 , 416 - 21.
47. Asif M, Siddique A, Nazmi AS, Razia K, Karim S, Pal SN & Pillai KK. Oxidative damage in mice liver induced by sodium valproate : protection by melatonin. *Indian J Pharmac* **1999** . 31 , 427 - 30.
48. Kothari S, Bhalerao S & Sharma SK. Effect of a herbal compound on mercury induced biochemical changes in the liver of cat fish. *Indian J Envir Toxicol* **1999** , 9 , 30 - 2.
49. Jayant Dhuley N. Effect of aswagandha on lipid peroxidation in stress- induced animals. *J Ethnopharmacol* **1998** , 60 , 173 - 8.
50. Dutta U, Devi M & Dutta K. Effect of dermal exposure to paraphenyline diamine in guinea pigs. *Indian J Toxicol* **1998** , 5 , 21 - 6.
51. Pande IP, Brajkumar T & Farooq S. Protective action of septilin on lung and liver toxicated by environmental pollutants. *Acta Cienc Indica-Chem* **1998** , 24 , 65 - 70.
52. Srivastava SJ, Singh ND & Srivastava AK. Malachite green induced histopathological lesions in the liver of a catfish, *Heteropneustes fossilis* (Bloch). *J Advd Zool* **1998** , 19 , 46 - 9.
53. Eteng MU, Ebong PE, Ettarsh RR & Umoa IB. Aminotransferase activity in serum, liver and heart tissues of rats exposed to theobromine. *Indian J Pharmac* **1998** , 30 , 339 - 42.
54. Khandelwal S, Shukla LJ & Ravi Shanker. Dibutyltin dilaurate induced hepatotoxicity- biochemical and histological alterations in rat. *Indian J Toxicol* **1998** , 5 , 21 - 9.
55. Sunanda Panda & Anand Kar. Betel leaf extract can be both anti peroxidative and peroxidative in nature. *Curr Sci* **1998** , 74 , 284 - 5.
56. John Samuel D & Panneerselvam C. Toxicity of auramine O : lipid peroxidation and antioxidant status in liver, kidney and intestine of rats. *Biomed* **1998** , 18 , 151 - 5.
57. Rajesh Sunder S & Rao MV. Hepatotoxicity of a combination of fungicide (metalaxyl + mancozeb) in wistar rats - a biochemical assessment. *Indian J Envir Toxicol* **1998** , 8 , 19 - 21.
-

-
58. Rui Ferreira, Fatima Candeias, Fatima Simoes, Jose Nascimento & Cruz Morais J. Effects of horminone on liver mixed function mono-oxygenases and glutathione enzyme activities of Wistar rat. *J Ethnopharmacol* **1997** , 58 , 21 - 30.
 59. Zhao ZS, Khan S & O'Brien PJ. The prevention of ferric nitrilotriacetate-induced nephro and hepatotoxicity by methylene dioxybenzene antioxidants. *Chem Biol Interact* **1997** , 108 , 107 - 18.
 60. Tancheva L, Stoytchev T & Rangelova D. Interaction of dexamethasone with acetyl-salicylic acid in mice. *Methods Find Exp Clin Pharmacol* **1997** , 19 , 387 - 94.
 61. Wade LT, Kenna JG & Caldwell J. Immunochemical identification of mouse hepatic protein adducts derived from the nonsteroidal anti-inflammatory drug diclofenac, sulindac and ibuprofen. *Chem Res Toxicol* **1997** , 10 , 546 - 55.
 62. Gupta BK, Saxena PN & Sharma LL. Hepatotoxic responses in *Columba livia* after yaltox intoxication. *Proc Indian Sci Congr Ass* **1997** , Pt III , Sect XVI , p112.
 63. Ganguly G, Medda C, Sarkar SK & Basu TK. Acute toxic effect of sublethal phosphamidon exposure on *Anabas testudineus* (Block). *Indian J Fish* **1997** , 44, 211 - 5.
 64. Center SA, Elston TH, Rowland PH, Rosen DK, Reitz BL, Brunt JE, Rodan I, House J, Bank S, Lynch LR, Dring LA & Levy JK. Fulminant hepatic failure associated with oral administration of diazepam in 11 cats. *J Am Vet Med Ass* **1996** , 209 . 618 - 25.
 65. Hinchbalal, Dwivedi R & Sarin R. Histopathological changes in the liver of the catfish *Heteropneustes fossilis* induced by tri-aromatic hydrocarbon. *J Ecotoxic Envir Monit* **1996** , 6 , 273 - 8.
 66. Verma RJ & Raval PJ. Biochemical changes in liver during induced aflatoxicosis in rabbits. *J Anim Morph Physiol* **1996** , 43 , 81 - 4.
 67. Ganey PE & Schultze AE. Depletion of neutrophils and modulation of Kupffer cell function in allyl alcohol -induced hepatotoxicity. *Toxicol* **1995** , 99 , 99 - 106.
 68. Isobe M, Sone T & Takabatake E. Depletion of glutathione and hepatotoxicity caused by vinyl ethers in mice. *J Toxicol* **1995** , 20 , 161 - 4
-

-
69. Liu J, Liu Y & Klaassen CD. Protective effect of oleanolic acid against chemical-induced acute necrotic liver injury in mice. *Chung Kuo Yao Li Hsueh Pao* **1995**, 16, 97 - 102.
 70. Lake BG, Evans JG, Lewis DFV & Price RJ. Studies on the acute effects of coumarin and some coumarin derivatives in the rat. *Fd Chem Toxic* **1994**, 32, 357 - 63.
 71. Ramachandani S, Das M & Khanna SK. Effect of metanil yellow, orange II and their blend on hepatic xenobiotic metabolising enzymes in rats. *Fd Chem Toxic* **1994**, 32, 559 - 69.
 72. Ma T & Chambers JE. Kinetic parameters of desulfuration and deacrylation of parathion and chlorpyrifos by rat liver microsomes. *Fd Chem Toxic* **1994**, 32, 763 - 7.
 73. Shrinivas Rao B & Harihara Mehendale M. Halomethane-chlordecone (CD) interactive hepatotoxicity - current concepts on the mechanism. *Indian J Biochem Biophys* **1993**, 30, 191 - 8.
 74. Poli G. Liver damage due to free radicals. *Br Med Bull* **1993**, 49, 604 - 20.
 75. Steup DR, Hall P, Mc Millan DA & Sipes IG. Time course of hepatic injury and recovery following co-administration of carbon tetrachloride and trichloroethylene in Fischer-344 rats. *Toxicol Pathol* **1993**, 21, 327 - 34.
 76. Dwivedi N, Das M, Joshi A, Singh GB & Khanna SK. Modulation by ascorbic acid of the cutaneous and hepatic biochemical effects induced by topically applied benzantrone in mice. *Fd Chem Toxic* **1993**, 31, 503 - 8.
 77. Chandra J & Durgaraj G. Effect of toxaphene toxicity on enzyme activity and residue levels in vital organs of guinea pigs. *Indian J Med Res* **1993**, 98, 193 - 8.
 78. Sarma AB, Chakrabarti J, Chakrabarti A, Banerjee CS, Roy D, Mukherjee D & Mukherjee A. Evaluation of pan masala for toxic effects on liver and other organs. *Fd Chem Toxic* **1992**, 30, 161 - 3.
 79. Lin JK & Ho YS. Hepatotoxicity and hepato-carcinogenicity in rats fed squid with or without exogenous nitrite. *Fd Chem Toxic* **1992**, 30, 695 - 702.
 80. Geetha A, Marar T & Shyamaladevi CS. Effect of F 128; 97: F 255-tocopherol on doxorubicin-induced changes in rat liver and heart microsomes. *Indian J Exp Biol* **1991**, 29, 782 - 5.
-

-
81. Moorthy B, Madyastha P & Madyastha KM. Destruction of rat liver microsomal cytochrome P 450 *in vitro* by a monoterpene ketone, pulegone - a hepatotoxin. *Indian J Chem* **1991** , 30 , 138 - 46.
 82. Lewis DW, Ioannides C & Parke DV. A retrospective study of the molecular toxicity of benoxaprofen. *Toxicol* **1990** , 65 , 33 - 47.
 83. Dhaliwal PS & Nauriyal DC. Clinico-enzymological and histopathological aspects of glucocorticoid - induced hepatopathy in dogs. *Indian J Anim Sci* **1990** , 60 , 659 -61.
 84. Nordmann P, Pechinot A & Kazmierczak A. Cytotoxicity and uptake of perfloxacin, ciprofloxacin and ofloxacin in primary cultures of rat hepatocytes. *J Antimicrob Chemother* **1989** , 24 , 355 - 63
 85. Singh SK & Pandey RS. Differential effects of chronic endosulfan exposure to male rats in relation to hepatic drug metabolism and androgen biotransformation. *Indian J Biochem Biophys* **1989** , 26 , 261 - 7.
 86. Mann AM & Darby FJ. Effects of 1,2-dibromoethane on glutathione metabolism in rat liver and kidney. *Biochem Pharmacol* **1985** , 34 , 657 - 63.
 87. Ugazio G, Brossa O & Grignolo F. Hepato and neurotoxicity by ethylthiourea. *Res Commun Chem Pathol Pharmacol* **1985** , 48 , 401 - 14.
 88. Castell JY, Larrauri A & Gomez-Lechon MY. A study of the relative hepatotoxicity *invitro* of the non-steroidal anti-inflammatory drugs ibuprofen, flurbiprofen and butibufen. *Xenobiotica* **1988** , 18 , 737 - 45.
 89. Tadokoro K, Ishidate K & Nakazawa Y. Evidence for the existence of isozymes of choline kinase and their selective induction in 3-methylcholanthrene- or carbon tetrachloride-treated rat liver. *Biochem Biophys Acta* **1985** , 835 , 501 - 13.
 90. Fowler EF, Thomson AW & Horne CH. Alleviation of carrageenan -induced hepatotoxicity and acronecrosis by aprotinin. *Br J Exp Pathol* **1977** , 58 , 260 -7.
 91. Akshey Gupta K, Vats SK & Bru Lal. How cheap can a medicinal plant species be ? *Curr Sci* **1998** , 74 , 565 - 6.
 92. Sreeramamurthy T, Gangarao B, Satyanarayana T & Krishna Rao RV. Hepatoprotective activity of *Eclipta alba*. *J Res Educ Indian Med* **1993** , 12 , 41 - 3.
-

-
93. Saxena AK, Singh B & Anand KK. Hepatoprotective effects of *Eclipta alba* on subcellular levels in rats. *J Ethnopharmacol* **1993**, 40, 155 - 61.
 94. Singh B, Saxena AK, Chandan BK, Agarwal SG & Anand KK. *In vivo* hepatoprotective activity of active fraction from ethanolic extract of *Eclipta alba* leaves. *Indian J Physiol Pharmacol* **2001**, 45, 435 - 41.
 95. Kapil A, Koul IB, Banerjee SK & Gupta BD. Antihepatotoxic effects of major diterpenoid constituents of *Andrographis paniculata*. *Biochem Pharmacol* **1993**, 46, 182 - 5.
 96. Visen PKS, Binduja Shukla, Patnaik GK & Dhawan BN. Andrographolide protects rat hepatocytes against paracetamol-induced damage. *J Ethnopharmacol* **1993**, 40, 131 - 6.
 97. Chattopadhyay RR & Gupta SK. Possible mechanism of hepatoprotective activity of *Azadirachta indica* leaf extract. *Indian J Physiol All Sci* **1996**, 50, 163 - 7.
 98. Binduja Saraswat, Visen PKS, Patnaik GK & Dhawan BN. *Ex vivo* and *in vivo* investigations of picroliv from *Picrorhiza kurroa* in rats - an alcohol intoxication model. *J Ethnopharmacol* **1999**, 66, 263 - 9.
 99. Anandan R, Deepa Rekha R & Devaki T. Protective effect of *Picrorhiza kurroa* on mitochondrial glutathione antioxidant system in D-galactosamine-induced hepatitis in rats. *Curr Sci* **1999**, 76, 1543 - 5.
 100. Shukla B, Visen PKS, Patnaik GK & Dhawan BN. Choloretic effect of Picroliv, the hepatoprotective principle of *Picrorhiza kurroa*. *Planta Med* **1991**, 57, 29 - 33.
 101. Santra A, Das S, Maity A & Rao SB. Prevention of carbon tetrachloride-induced hepatic injury in mice by *Picrorhiza kurroa*. *Indian J Gastroenterol* **1998**, 17, 6 - 9.
 102. Sarwat Sultana, Shahid Perwaiz, Mohammed Iqbal & Mohammed Athar. Crude extracts of hepatoprotective plants, *Solanum nigrum* and *Cichorium intybus* inhibit free radical-mediated DNA damage. *J Ethnopharmacol* **1995**, 45, 189 - 92.
 103. Chhaya Gadgoli & Mishra SH. Preliminary screening of *Achillea millefolium*, *Cichorium intybus* and *Capparis spinosa* for antihepatotoxic activity. *Fitoterapia* **1995**, LXVI, 319 - 23.
-

-
104. Selvam R, Lalitha Subramonian, Gayathri R & Angayarkanni N. The anti-oxidant activity of turmeric (*Curcuma longa*). *J Ethnopharmacol* **1995** , 47 , 59 - 67.
 105. Ashok Shenoy K, Somayaji SN & Bairy KL. Evaluation of hepatoprotective activity of *Ginkgo biloba* in rats. *Indian J Physiol Pharmacol* **2002** , 46 , 167 - 74.
 106. Rajesh MG & Latha MS. Hepatoprotection by *Elephantopus scaber* Linn in CCl₄ - induced liver injury. *Indian J Physiol Pharmacol* **2001** , 45 , 481 - 6.
 107. Sreepriya M & Devaki T. Effect of *Indigofera tinctoria* Linn on liver antioxidant defense system during D-galactosamine / endotoxin - induced acute hepatitis in rodents. *Indian J Exp Biol* **2001** , 39 , 181 - 4.
 108. Pande MS, Banerjee G & Mishra SH. Hepatoprotective activity of fruits of *Tribulus terrestris* L (Chota gokhru). *Indian J Pharmac* **2001** , 33 , 129 -33.
 109. Kitano M, Wanibuchi H, Kikuzaki H, Nakatani N, Imaoka S, Funae Y, Hayashi S & Fukushima S. Chemopreventive effects of coumapherine from pepper on the initiation stage of chemical hepatocarcinogenesis in the rat. *Jpn J Cancer Res* **2000** , 91 , 674 - 80.
 110. Premendran SJ & Kachane T. Study of hepatoprotective effect of *Eclipta alba* and *Phyllanthus fructurnus* extracts in rats. *J Mahatma Gandhi Inst Med Sci* - **2000** , 5 , 24 - 8.
 111. Asha VV & Pushpangadan P. Preliminary evaluation of the anti hepatotoxic activity of *Phyllanthus kozhikodianus*, *P. maderaspatensis* and *Solanum indicum*, *Fitoterapia* **1998** , XIX , 255 - 9.
 112. Asha VV & Pushpangadan P. Preliminary screening of *Quassia amara*, *Phyllanthus myrtifolius* and *Ceratopteris thalictroides* for hepatoprotective and choleric activities. *Biomed* **1998** , 18 , 49 - 52.
 113. Torres Durain PV, Miranda-Zamora R, Paredes-Carbajal MC, Mascher D, Ble-Castillo J, Diaz-Zagoya JC & Juarez-Oropeza MA. Studies on the preventive effect of *Spirulina maxima* on fatty liver development induced by carbon tetrachloride, in the rat. *J Ethnopharmacol* **1999** , 64 , 141 - 7.
 114. Sunil Kumar KC & Klaus Muller. Medicinal plants from Nepal; II, evaluation as inhibitors of lipid peroxidation in biological membranes. *J Ethnopharmacol* **1999** , 64 , 135 - 9.
-

-
115. La Grange I., Wang WM, Watkins R, Ortiz D, Sanchez ME, Konst J, Lee C & Reyes F. Protective effects of the flavonoid mixture, silymarin, on foetal rat brain and liver. *J Ethnopharmacol* **1999** , 65, 53 - 61.
 116. Bhakta I, Pulok Mukherjee K, Kakali Mukherjee, Banerjee S, Subhash Mandal C, Tapan Maity K, Pal M & Saha BP. Evaluation of hepatoprotective activity of *Cassia fistula* leaf extract. *J Ethnopharmacol* **1999** , 66 , 277 - 82.
 117. Sui-Ming Wong, Mary Moy Wong, Otto Seligmann & Hildebert Wagner. New antihepatotoxic naphtha-pyrone glycosides from the seeds of *Cassia tora*. *Planta Med* **1989** , 55 , 276 - 80.
 118. Jafri MA, Jalis Subhani M, Kalim Javed & Surender Singh. Hepatoprotective activity of leaves of *Cassia occidentalis* against paracetamol and ethyl alcohol intoxication in rats. *J Ethnopharmacol* **1999** , 66 , 355 - 61.
 119. Zhu M, Lin KF, Yeung RY & Li RC. Evaluation of the protective effects of *Schisandra chinensis* on Phase I drug metabolism using a CCl₄ intoxication model. *J Ethnopharmacol* **1999** , 67 , 61 - 8.
 120. Desmachelier C, Lisboa Romao R, Coussio J & Ciccia G. Antioxidant and free radical scavenging activities in extracts from medicinal trees used in the ' Caatinga ' region in Northern Brazil. *J Ethnopharmacol* **1999** , 67 , 69 - 77.
 121. Al-Sereiti MR, Abu Amer KM & Sen P. Pharmacology of rosemary (*Rosmarinus officinalis* Linn) and its therapeutic potentials. *Indian J Exp Biol* **1999** , 37 , 124 - 30.
 122. Ahmad Agil, Manuel Miro, Jose Jimenez, Jose Aneiros, Dolores Caracuel M, Andres Garcia-Granados & Concepcion Navarro M. Isolation of an anti-hepatotoxic principle from the juice of *Ecballium elaterium*, *Planta Med* **1999** , 65 , 673 - 5.
 123. Srinivas Rao K, Rao SS, Rao MEB & Choudhury KA. Hepatoprotective activity of *Vitex negundo*. *Indian J Nat Prod* **1999** , 15 , 29 - 31.
 124. Tripathy YB & Pandey E. Role of alcoholic extract of shoot of *Hypericum perforatum* Linn on lipid peroxidation on various species of free radicals in rats. *Indian J Exp Biol* **1999** , 37 , 567 - 71
 125. Yamini Tripathi B, Ekta Pandey & Dubey GP. Antioxidant property of *Hypericum perforatum* (L.) of Indian origin and its comparison with established Medhya rasayanas of ayurvedic medicine. *Curr Sci* **1999** , 76 , 27 - 9.
-

-
126. Patel DK, Mehta NK & Nanavati DD. *Tephrosia purpurea* Linn (Pers) Leguminosae - an ayurvedic drug. *Deerghayu Int* **1999** , 15 , 17 - 23.
 127. Mehta RS, Shankar MB, Geetha M & Saluja AK. Hepatoprotective activity of *Trianthema portulacastrum*. *Indian Drugs* **1999** , 36 , 241 - 4.
 128. Jaykar B, Dube R, Kavimani S, Rama V & Vimala S. Effect of *Casaria esculanta* on paracetamol-induced hepatotoxicity. *Indian Drugs* **1999** , 36 , 263 - 4.
 129. Chun-Ching Lin, Ming Hong Yen, Tsae-Shiuan Lo & Jer-Min Lin. Evaluation of the hepatoprotective and antioxidant activity of *Boehmeria nivea* var *nivea* and *B. nivea* var *tenacissima*. *J Ethnopharmacol* **1998** , 60 , 9 - 17.
 130. Rao KS & Mishra SH. Antihepatotoxic activity of monomethyl fumarate isolated from *Fumaria indica*. *J Ethnopharmacol* **1998** , 60 , 207 - 13.
 131. Heras de las B, Slowing K, Benedi J, Carretero E, Ortega T, Toledo C, Bermajo P, Iglesias I, Abad MJ, Gomez-Serranillos P, Liso P, Villar A & Chiriboga X. Anti-inflammatory and antioxidant activity of plants used in traditional medicine in Ecuador. *J Ethnopharmacol* **1998** , 61 , 161 - 6.
 132. Adegoke GO, Vijaykumar M, Sambiah K & Lokesh BR. Inhibitory effect of *Garcinia kola* on lipid peroxidation in rat liver homogenate. *Indian J Exp Biol* **1998** , 36 , 907 - 910.
 133. Rao KS & Mishra SH. Antihepatotoxic activity of *Sida cordifolia* whole plant. *Fitoterapia* **1998** , LXIX , 20 - 3.
 134. Tomonori Arao, Manabu Udayama, Junei Kinjo & Toshihiro Nohara. Preventive effects of saponins from the *Pueraria lobata* root on *in vitro* immunological liver injury of rat primary hepatocytes. *Planta Med* **1998** , 64 , 413 - 6.
 135. Xiong Q, Hase K, Tezuka Y, Tani T, Namba T & Kadota S. Hepatoprotective activity of phenyl ethanoids from *Cistanche deserticola*. *Planta Med* **1998** , 64 , 120 - 5.
 136. Lin CC, Hsu YF, Lin TC, Hsu FL & Hsu HY. Antioxidant and hepatoprotective activity of punicalagin and punicalin on carbon tetrachloride induced liver damage in rat. *J Pharm Pharmacol* **1998** , 50 , 789 - 94.
 137. Tripathy YB & Sharma M. Comparison of the antioxidant action of the alcoholic extract of *Rubia cordifolia* with rubiadin. *Indian J Biochem Biophys* **1998** , 35 , 313 - 6.
-

-
138. Tripathi YB, Mukta Sharma & Manickam M. Rubiadin, a new antioxidant from *Rubia cordifolia*. *Indian J Biochem Biophys* **1997**, 34, 302 - 6.
139. Chun-Ching Lin, Den-En-Shieh & Ming-Hong Yen. Hepatoprotective effect of the fractions of Ban-zhi-lian on experimental liver injuries in rats. *J Ethnopharmacol* **1997**, 56, 193 - 200.
140. Diallo-Sall A, Niang-Ndiae M, Ndiaye AK, Dieng C & Faye B. Hepatoprotective effect of a plant from Senegalese pharmacopoeia: *Tinospora bakis* (Menispermaceae) using an *in vitro* model. *Dakar Med* **1997**, 42, 15 - 8.
141. Vijayakumar G, Srinivasan SR & Dhanapalan P. Preliminary study on the effect of indigenous plant *Sesbania grandiflora* in carbon tetrachloride induced hepatitis in calves. *Indian J Vet Med* **1997**, 17, 17 - 21.
142. Rao KS & Mishra SH. Anti-inflammatory and hepatoprotective activities of *Sida rhombifolia* Linn. *Indian J Pharmac* **1997**, 29, 110 - 6.
143. Chun-Ching Lin, Cheng-Hsiung Chang, Jenz-Jer Yang, Tsuneo Namba & Masao Hattori. Hepatoprotective effects of emodin from *Ventilago leiocarpa*. *J Ethnopharmacol* **1996**, 52, 107 - 11
144. Thresiamma KC & Kuttan R. Inhibition of liver fibrosis by ellagic acid. *Indian J Physiol Pharmacol* **1996**, 40, 363 - 6.
145. Jer-Min Lin, Chun-Ching Lin, Ming-Feng Chen, Takashi Ujiie & Atsushi Takada. Scavenging effects of *Mallotus repandus* on active oxygen species. *J Ethnopharmacol* **1995**, 46, 175 - 81.
146. Jer-Min Lin, Chun-Ching Lin, Ming-Feng Chen, Takashi Ujiie & Atsushi Takada. Radical scavenger and antihepatotoxic activity of *Ganoderma formosanum*, *Ganoderma lucidum* and *Ganoderma neo-japonicum*. *J Ethnopharmacol* **1995**, 47, 33 - 41.
147. Khalid Hussain, Janbaz KH & Anwar-ul Hassan. Evaluation of the protective potential of *Artemisia maritime* extract on acetaminophen-and CCl₄-induced liver damage. *J Ethnopharmacol* **1995**, 47, 43 - 7.
148. Gilani AH & Janbaz KH. Preventive and curative effects of *Artemisia absinthium* on acetaminophen and CCl₄ induced hepatotoxicity. *Gen Pharmacol* **1995**, 26, 309 -15.
-

-
149. Anupam Bishayee, Alok Sarkar & Malay Chatterjee. Hepatoprotective activity of carrot (*Daucus carota* L.) against carbon tetrachloride intoxication in mouse liver. *J Ethnopharmacol* **1995** , 47 , 69 - 74.
150. Roseline Aliyu, Okoye /SC & Thomas Shier W. The hepatoprotective cytochrome P-450 enzyme inhibitor isolated from the Nigerian medicinal plant *Cochlospermum planchonii* is a zinc salt. *J Ethnopharmacol* **1995** , 48 , 89 - 97.
151. Ira Thabrew M, Christopher Gove D, Robin Hughes D, Ian Mcfarlane G & Roger Williams. Protective effects of *Osbeckia octandra* against galactosamine and tert-butyl hydroperoxide induced hepatocyte damage. *J Ethnopharmacol* **1995** , 49 , 69 - 76.
152. Jayathilaka KAPW, Thabrew MI, Pathirana C, de Silva DGH & Perera DGH. An evaluation of the potency of *Osbeckia octandra* and *Melothria maderaspatana* as antihepatotoxic agents. *Planta Med* **1989** , 55 , 137 - 9.
153. Anubha Singh & Handa SS. Hepatoprotective activity of *Apium graveolens* and *Hygrophila auriculata* against paracetamol and thioacetamide intoxication in rats. *J Ethnopharmacol* **1995** , 49 , 119 - 26.
154. Oshima Y, Namao K, Kamijou A, Matsuoka S, Nakano M, Terao K & Ohizumi Y. Powerful hepatoprotective and hepatotoxic plant oligostilbenes, isolated from the oriental medicinal plant *Vitis coignetiae* (Vitaceae). *Experientia* **1995** , 51 , 63 - 6.
155. Iijima K, Kiyohara H, Tanaka M, Matsumoto T, Cyong JC & Yamada H. Preventive effect of taraxasteryl acetate from *Inula britannica* subsp. *japonica* on experimental hepatitis *in vivo*. *Planta Med* **1995** , 61 , 50 - 3.
156. Hasegawa R, Chujo T, Saikato K, Umemura T & Tanimura A. Preventive effects of green tea against liver oxidative damage and hepatotoxicity in rats treated with 2-nitropropane. *Fd Chem Toxic* **1995** , 33 , 961 - 70.
157. Cheng-Hsuing Chang, Chun-Ching Lin, Masao Hattori & Tsuneo Namba. Effects of *Cudrania cochinchinensis* var *gerontogea*. *J Ethnopharmacol* **1994** , 44 , 79 - 85.
158. Jie Liu, Yaping Liu & Curtis Klaassen D. The effect of Chinese hepatoprotective medicines on experimental liver injury in mice. *J Ethnopharmacol* **1994** , 42 , 183 - 92.
-

-
159. Lin SC, Lin CC, Lin YH & Shyuu SJ. Hepatoprotective effects of Taiwan folk medicine : *Wedelia chinensis* on three hepatotoxin induced hepatotoxicity. *Am J Chin Med* **1994** , 22 , 155 - 68.
160. Lin JM, Lin CC, Chiu HF, Yang JJ & Lee SG. Evaluation of the anti-inflammatory and liver-protective effects of *Anoectochilus formosanus*, *Ganoderma lucidum* and *Gymnostemma pentaphyllum* in rats. *Am J Chin Med* **1993** , 21 , 59 - 69.
161. Subrata DE, Ravishankar B & Bhavsar GC. Evaluation of *Paederia foetida* for hepatoprotective and anti-inflammatory activities. *Indian J Nat Prod* **1993** , 9 , 7 - 11.
162. Pradhan AK, Roy SB, Kumar S, Chaddah P, Prasad R, Soni NC & Adhikari K. Hepatoprotective effects of *Pluchea indica* extract in experimental acute liver damage in rodents. *Phytother Res* **1993** , 7 , 352 - 5.
163. Singh A & Rao AR. Modulatory effect of arecanut on the action of mace (*Myristica fragrans*, Houtt) on the hepatic detoxification system in mice. *Fd Chem Toxic* **1993** , 31 . 517 - 21.
164. Hoffmann-Bohm K, Lotter H, Seligmann O & Wagner H. Anti-hepatotoxic C-glycosylflavones from the leaves of *Allophyllus edulis* var *edulis* and *gracilis*. *Planta Med* **1992** , 58 , 544 - 8.
165. Chatterjee T, Pal S, Roy R & Pathak M. Effect of *Euphorbia microphylla* against carbon tetrachloride (CCl₄)-induced hepatic damage in rats. *Indian Drugs* **1991** , 28 , 455 - 8.
166. Joyeux M, Rolland A, Fleurentin J, Mortier F & Dorfman P. tert- Butyl hydroperoxide-induced injury in isolated rat hepatocytes : a model for studying anti-hepatotoxic crude drug. *Planta Med* **1990** , 56 , 171 - 4.
167. Grover JK. Hepatoprotective and cardioprotective action of tulsi (*Ocimum sanctum* Linn). *Eur J Pharmac* **1990** , 183 , p 872.
168. Masaharu Tamai, Naoharu Watanabe, Mayumi Someya, Hideaki Kondoh, Sadafumi Omura, Zhang Pei Ling, Rao Chang & Chen Wei Ming. New hepatoprotective triterpenes from *Canarium album*. *Planta Med* **1989** , 55 , 44 - 7.
169. Chun-Nan Lin & Kim-Hong Gan. Antihepatotoxic principles of *Solanum capsicastrum*. *Planta Med* **1989** , 55 , 48 - 50.
-

-
170. Peter Houghton J & Hiroshi Hikino. Anti-hepatotoxic activity of extracts and constituents of *Buddleja* species. *Planta Med* **1989** , 55 , 123 - 6.
 171. Sukh Dev. Ethnotherapeutics and modern drug development : the potential of Ayurveda. *Curr Sci* **1997** . 73 , 909 - 28.
 172. Savita Buwa, Subhash Patil, Kulkarni PH & Aruna Kanase. Hepatoprotective action of Abhrak bhasma, an Ayurvedic drug in albino rats against hepatitis induced by CCl₄. *Indian J Exp Biol* **2001** , 39 , 1022 - 7.
 173. Mitra SK, Seshadri SJ, Venkataranganna MV, Gopumadhavan S, Venkatesh Udupa U & Sarma DNK. Effect of HD-O3 - a herbal formulation in galactosamine-induced hepatopathy in rats. *Indian J Physiol Pharmacol* **2000** , 44 , 82 - 6.
 174. Udupa V, Kulkarni KS, Rafiq MD, Gopumadhavan S, Venkataranganna MV & Mitra SK. Effect of HD-O3 on levels of various enzymes in paracetamol induced liver damage in rats. *Indian J Pharmac* **2000** , 32 , 361 - 4.
 175. Mitra SK, Venkataranganna MV, Sundaram R & Gopumadhavan S. Protective effect of HD-03, a herbal formulation, against various hepatotoxic agents in rats. *J Ethnopharmacol* **1998** , 63 , 181 - 6.
 176. Gupta GC & Upadhyay AK. Efficacy of herbal liver tonic yakrifit in carbon tetrachloride - induced hepatotoxicity in calves. *Indian J Vet Med* **2000** , 20 , 23 - 5.
 177. Rajesh MG, Beena PS & Latha MS. Efficacy of Kamilari on alcoholic liver cirrhosis. *Antiseptic* **2000**, 97, 320 - 4.
 178. Latha Unnikrishnan, Rajesh MG & Latha MS. Hepatoprotective effect of an Ayurvedic medicine. *Indian Drugs* **1999** , 36 , 470 - 3.
 179. Karunakar N, Pillai KK, Hussain SZ & Rao M. Investigations of anti-inflammatory activity of jigrine. *Indian J Physiol Pharmacol* **1997** , 41 , 134 - 8.
 180. Kapur V, Pillai KK, Hussain SZ & Balani DK. Hepatoprotective activity of 'jigrine' on liver damage caused by alcohol, carbon tetrachloride and paracetamol in rats. *Indian J Pharmac* **1994** , 26. 35 - 40.
 181. Saraswathy SD, Suja V, Gurumurthy P & Shyamala Devi CS. Effect of Liv 100 against anti-tubercular drugs (isoniazid, rifampicin and pyrazinamide) - induced hepatotoxicity in rats. *Indian J Pharmac* **1998** . 30 , 233 - 8.
-

-
182. Farooq S, Iqbal Ahmad & Pathak GK. *In vivo* protective role of koflet (an ayurvedic preparation) against cellular toxicity caused by CCl₄ and fly ash. *J Ethnopharmacol* **1997** , 58 , 109 - 16.
 183. Dhuley JN & Naik SR. Protective effect of Rhinax, a herbal formulation, against CCl₄-induced liver injury and survival in rats. *J Ethnopharmacol* **1997** , 56 , 159 - 64.
 184. Abub Shah MA, Vadlamudi VP & Wagh KR. Effect of actilivforte-an indigenous polyherbal formulation in experimentally induced hepatotoxicity in cross bred calves. *Indian J Anim Hlth* **1997** , 36 , 101 - 4.
 185. Cheng TJ, Qin H & Zhang PY. Protection against experimental hepatic injury by fengxiang yigankang capsule. *Chung Kuo Chung His I Chieh Ho Tsa Chih* **1994** , 14 , 162 - 4.
 186. Pradhan NR & Misra SK. Efficacy of treatment of induced hepatopathy in goats with tefroli vet granules. *Indian Vet J* **1994** , 71, 369 - 72.
 187. Saxena GP, Mahajan BG & Chandorkar RK. Efficacy of previl- an indigenous herbal formulation - in prevention of hepatotoxicity during anti-tubercular drug therapy : a single blind placebo controlled clinical trial. *Indian Med J* **1993** , 87 , 295 - 8.
 188. Saraf AP, Joglekar SN, Nabar SN & Mulay MS. Evaluation of protective effect of 'Hepatogard' - a compound herbal formulation on carbon tetrachloride induced liver damage. *Antiseptic* **1991** , 88 , 511 - 6.
 189. Kanase R, Patil S, Kanase A & Kulkarni PH. Effect of hepatoprotective ayurvedic drugs on lysosomal enzymes of liver and kidney during CCl₄ induced hepatic injury in rats. *Deerghayu Int* **1998** , 14 , 66 - 79.
 190. Yao T, Deoli Ecoosti S, Huang L, Arnon R, Spangenberg A & Zern MA. Inhibition of carbon tetrachloride-induced liver injury by liposomes containing vitamin E. *Am J Physiol* **1994** , 267 , 6476 - 84.
 191. Ramesh S, Kailash Manda & Bhatia AL. Protective effect of β carotene on radiation induced lipid peroxidation. *Curr Sci* **1997** , 73 , 470 - 1.
 192. Astorg P, Gradelet S, Leclerc J, Canivenc MC & Siess MH. Effects of β carotene and canthaxanthin on liver xenobiotic metabolising enzymes in the rat. *Fd Chem Toxic* **1994** , 32 , 735 - 42.
-

-
193. Gilani AH, Janbaz KH & Shah BH. Esculetin prevents liver damage induced by paracetamol and CCl₄. *Pharmacol Res* **1998** , 37 , 31 - 5.
 194. Sanjaykumar, Sharma LD & Ahmad AH. Pharmacokinetics of sulfadimine in normal and hepatically impaired buffalo calves. *Indian J Vet Med* **1997** , 17 , 39 - 44.
 195. Ruby AJ, Kuttan G, Dinesh Babu K, Rajasekharan KN & Kuttan R. Anti-tumour and antioxidant activity of natural curcuminoids. *Cancer Lett* **1995** , 94 , 79 - 83.
 196. Thomsen MS, Loft S, Roberts DW & Poulsen HE. Cytochrome P 450 2E1 inhibition by propylene glycol prevents acetaminophen (paracetamol) hepatotoxicity in mice without cytochrome P450 1A2 inhibition. *Pharmacol Toxicol* **1995** , 76 , 395 - 9.
 197. Chagoya de Sanchez V, Hern Andez-Munoz R, Yanez L, Vidrio S & Diaz-Munoz M. Possible mechanism of adenosine protection in carbon tetrachloride acute hepatotoxicity : role of adenosine by-products and glutathione peroxidase. *J Biochem Toxicol* **1995** , 10 , 41 - 50.
 198. Alvaro D, Gigliozzi A, Piat C, Carli L, Bini A, La Rosa T, Furfaro S & Capocaccia L. Effect of S-adenosyl-methionine on ethanol cholestasis and hepatotoxicity in isolated perfused rat liver. *Dig Dis Sci* **1995** , 40, 1592 - 600.
 199. Ip SP, Poon MK, Wu SS, Che CT, Ng KH, Kong YC & Ko KM. Effect of schisandrin B on hepatic glutathione antioxidant system in mice : protection against carbon tetrachloride toxicity. *Planta Med* **1995** , 61 , 398 - 401.
 200. Yuen ST, Gogo AR Jr, Luk IS, Cho CH, Ho JC & Loh TT. The effect of nicotine and its interactions with carbon tetrachloride in the rat liver. *Pharmacol Toxicol* **1995** , 77 , 225 - 30.
 201. Nagababu E, Sesikeran B & Lakshmaih N. The protective effects of eugenol on carbon tetrachloride induced hepatotoxicity in rats. *Free Radic Res* **1995** , 23 , 617 - 27.
 202. Kim SG, Nam SY, Chug HC, Hong SY & Jung KH. Enhanced effectiveness of dimethyl-4, 4 dimethoxy 5, 6,5,6-dimethylene dioxybiphenyl-2, 2-dicarboxylate in combination with garlic oil against experimental hepatic injury in rats and mice. *J Pharm Pharmacol* **1995** , 47 , 678 - 82.
-

-
203. Kmiec Z. Prostaglandin cytoprotection of galactosamine-incubated hepatocytes isolated from young and old rats. *Ann NY Acad Sci* **1994** , 717 , 216 - 25.
204. You X, Mulchinski EA & Agarwal AK. Protection of carbon tetrachloride hepatotoxicity by cinchona alkaloids. *Res Commun Chem Pathol Pharmacol* **1994** , 84 , 223 - 32.
205. Simko V & Michael S. Effect of ursodeoxycholic acid on *in vivo* and *in vitro* toxic liver injury in rats. *Aliment Pharmacol* **1994** , 8 , 315 - 22.
206. Icho T, Kojima S, Yoshikawa K, Yoshimura T, Shirota M, Kajiwara Y, Kitabatake K & Kubota K. Inhibition of carbon tetrachloride-induced hepatotoxicity by neopterin. *Biol Pharm Bull* **1994** , 17 , 914 - 6.
207. Gonzalez R, Ancheta O, Marquez M & Rodriguez S. Hepatoprotective effects of diethylcarbamazine in acute liver damage induced by carbon tetrachloride in rats. *Chung Kuo Yao Li Hsueh Pao* **1994** , 15 , 495 - 7.
208. Hsu FL, Tsai YJ, Kao MC & Chen CF. Antihepatotoxic activity of flavan-3-ols and their derivatives. *Am J Chin Med* **1993** , 21 , 45 - 50.
209. Guccione JL, Zemtsov A, Cobos E & Neldner KH. Acquired purpura fulminants induced by alcohol and acetaminophen. Successful treatment with heparin and vitamin K. *Arch Dermatol* **1993** , 129 , 1267 - 9.
210. Kusal Das K & Shakuntala Dasgupta. Influence of ascorbic acid on acid and alkaline phosphatase activities in some metabolically active tissues of aspirin treated rats. *Indian J Physiol Pharmacol* **1997** , 41 , 421 - 3.
211. Singh SK & Pandey RS. Differential effects of chronic endosulfan exposure to male rats in relation to hepatic drug metabolism and androgen biotransformation. *Indian J Biochem Biophys* **1989** , 26 , 261 - 7.
212. Siegers CP & Moller-Hartmann W. Cholestyramine as an antidote against paracetamol-induced hepato and nephrotoxicity in the rat. *Toxicol Lett* **1989** , 47 , 179 - 84.
213. Rajagopalan K, Sivarajan VV & Varier PR. *Cosciniun fenestratum* (Gaertn) Colebr In: Warriar PK, Nambiar VPK & Ramankutty C (eds) , *Indian medicinal plants* , Madras , Orient Longman LTD, **1994** , Vol 2 , 191 - 3.
214. Santapau H & Henry AN. *Cosciniun fenestratum* : In *A dictionary of the flowering plants in India*. New Delhi. Publications & Information Directorate (CSIR). **1994** , p 45
-

-
215. Chopra RN, Navar SL & Chopra IC. *Cosciniun fenestratum* (Gaertn) Colebr. In : *Glossary of Indian medicinal plants* , New Delhi, Publ & Infor Directorate , CSIR , **1956** . p 78.
216. Kirtikar KR & Basu BD *Cosciniun fenestratum* (Gaertn) Colebr In: *Indian Medicinal Plants* . Blatter E, Caius JF & Mhaskar KS (eds) , Dehradun , Bishen Singh Mahendrapal Singh , **1991** , Vol I , 84 - 6.
217. Singh GB, Singh S, Bani S & Malhotra S. Hypotensive action of *Cosciniun fenestratum* stem extract. *J Ethnopharmacol* **1990** , 30 , 151 - 5.
218. Rajagopalan K, Sivarajan VV & Varier PR. *Curculigo orchioides* Gaertn In: Warriar PK, Nambiar VPK & Ramankutty C (eds) , *Indian medicinal plants*, Madras . Orient Longman LTD . **1994** , Vol 2 , 245 - 8.
219. Santapau H & Henry AN. *Curculigo orchioides* : In *A dictionary of the flowering plants in India*, New Delhi, Publications & Information Directorate (CSIR) , **1994** , p 48.
220. Chopra RN, Nayar SL & Chopra IC. *Curculigo orchioides* Gaertn (Amaryllidaceae) In : *Glossary of Indian medicinal plants* , New Delhi , Publ & Infor Directorate , CSIR , **1956** , p 84.
221. Kirtikar KR & Basu BD. *Curculigo orchioides* Gaertn In : *Indian Medicinal Plants* , Blatter E, Caius JF & Mhaskar KS (eds) , Dehradun , Bishen Singh Mahendrapal Singh , **1991** , Vol IV. 2469 – 70.
222. Suri SS, Arora DK & Ramawat KG. A method for large scale multiplication of *Curculigo orchioide* through bulbil formation from leaf explant in shake flask culture. *Indian J Exp Biol* **2000** , 38 . 145 - 8.
223. Xu PJ, Xu RS & Li XY. Four new cycloartane saponins from *Curculigo orchioides*. *Planta Med* **1992** , 58 , 208 - 10.
224. Xu PJ & Xu RS. Phenyl glycosides from *Curculigo orchioides*. *Yao Xue Xue Bao* **1992** , 27 , 353 - 7.
225. Chen QS, Chen WQ & Yang SY. Pharmacologic study of *Curculigo orchioides* Gaertn. *Zhongguo Zhong Yao Za Zhi* **1989** . 14 , 618 - 20 & 640.
226. Mohun AF & Cook IJY. Simple methods for measuring serum level of the glutamic oxaloacetic and glutamic pyruvic transaminases in routine laboratories. *J Clin Path* **1957**. 10 , 394 – 9.
-

-
227. Kind PRN & King AJ. Elimination of plasma phosphate by determination of hydrolysed phenol with aminoantipyrine. *J Clin Path* **1954** , 7 , 322 – 6.
228. Naftalin L, Markaret S. Whitaker JF & Tracey D. A routine procedure for estimating serum γ -glutamyl transpeptidase activity. *Clin Chem Acta* **1969** , 26, 293 -6.
229. Lowri OH, Rosebrough NJ, Farr AL & Randall RJ. Protein measurement with Folin phenol reagent. *J Biol Chem* **1951** , 193 , 265 – 75.
230. Fring CS & Dunn R. A colorimetric method of determination of total lipids based on sulfophosphate vanillin reaction. *Am J Clin Path* **1970** , 4 , 53 – 89.
231. Zlatkis A, Zak B & Boyle JA. A new method for the direct determination of serum cholesterol. *J Lab Clin Med* **1953** , 41 , 486 – 92
232. Connerty HV, Briggs AR & Eaton EH. Estimation of phospholipids. *Clin Chem* **1961** , 7 , p 589 .
233. Van Hendle E & Zilversmith DB. Determination of serum triglycerides *Lab Clin Med* **1957** , 50 , p152.
234. Wroblewski & La Due. Lactate dehydrogenase In : Varley H (ed) *Practical clinical biochemistry*. New York , William Heinemann, **1967**, 4th ed , 161 –2.
235. Korenberg A & Horecker BL. Determination of glucose-6-phosphate dehydrogenase In : Colowick SP & Kaplan NO (ed) *Methods in enzymology*. New York and London, Academic Press, **1955** , Vol 1 , p 323.
236. Niehaus WG Jr & Samuelson B. The thiobarbituric acid assay. *Eur J Biochem* **1968** , 6 , p126.
237. Beuje JA & Aust SD. In : Colowick SP & Kaplan NO (eds), *Methods in Enzymology*, New York , Academic Press , **1978** , Vol 52 , p 302.
238. Patterson JW & Lazarow. Reduced glutathione, *Method Biochem Analysis* **1955** , 2 , 259 – 62
239. Calibrone AL. Catalase In : *Handbook of methods for oxygen radical research*. Florida . CRC Press, . **1985** , p 283.
240. Kakkar P, Das B & Viswanath DN. A modified spectrophotometric assay of superoxide dismutase. *Indian J Biochem Biophys* **1984** , 21 , 130 – 2.
-

-
241. Beutler E. Glycolytic enzymes. In: *Red cell metabolism*. Beutler E & Kelley BM (ed), New York, Churchill Livingstone, **1986**, 57 - 72.
 242. Beutler E. Red cell metabolism In : *A manual of biochemical methods* (3rd ed), New York, Grune & Stratton, **1986**, 41, 369 - 72.
 243. Racker E. Glutathione Reductase (Liver and Yeast). In : *Methods in Enzymology*, Colowick SP & Kaplan NO. (ed), New York, Academic Press, **1966**, Vol VII, 722 - 5.
 244. Seakins A & Robinson DS. The effect of administration of carbon tetrachloride on the formation of plasma lipoproteins in the rat. *Biochem* **1963** , 86 , 401 - 7.
 245. Ploa GI & Hewitt WR. Detection and evaluation of chemically induced liver injury. In : Wallace Hayes A (ed) , *Principles and methods of toxicology* , New York , Raven Press , **1989** . 2nd ed. 399 - 628.
 246. Mahendale HM, Gupta PK & Shalukhe DK. *Hepatic toxicity*. Vol I , **1985** , Delhi, Metropolitan Book , 225 - 76.
 247. Castro JA, Ferrya GC, Castro CR, Sasame H, Fenos OM & Gillette AR. Prevention of carbon tetrachloride-induced necrosis by inhibitors of drug metabolism : futher studies on their mechanism of action. *Biochem Pharmacol* **1974**, 23 , 295 - 302.
 248. Chitra Pillai K & Pillai KS. Antioxidants in health. *Indian J Physiol Pharmacol* **2002** , 46 , 1 - 5.
 249. Taruna Gemani & Parihar MS. Reactive oxygen species and oxidative DNA damage. *Indian J Physiol Pharmacol* **1998** , 42 , 440 - 52.
 250. Pradeep Venkatesh, Garg Satpal, Lalit Verma, Tewari Hem Humar & Sheena Garg. Antioxidants: basic concepts in relation to the eye. *Indian J Clin Biochem* **2001** , 16 , 9 - 14.
 251. Ashok Tiwari K. Imbalance in antioxidant defence and human diseases: multiple approach of natural antioxidants therapy. *CurrSci* **2001** , 81 , 1179 - 87.
 252. Halliwell B, Aeschbach R, Loliger J & Aruoma OI. The characterization of antioxidants. *Fd Chem Toxic* **1995** . 33 , 601 - 17.
 253. Prasad Variyar S, Venkatachalam SR, Ramesh Chander & Paul Thomas. Dietary antioxidants - natural defence against disease. *Aryavaidyam* **1999** , 12 , 149 - 58.
-

-
254. Rathore N, Kale M, John S & Bhatnagar D. Lipid peroxidation and antioxidant enzymes in isoproterenol induced oxidative stress in rat erythrocytes. *Indian J Physiol Pharmacol* **2000** , 44 , 161 - 6.
255. Sunita Tiwari, Vani Gupta & Sandeep Bhattacharya. Comparative study of antioxidant potential of tea with and without additives. *Indian J Physiol Pharmacol* **2000** , 44 , 215 - 9.
256. Uday Bandyopadhyay, Dipak Das & Ranajit Banerjee K. Reactive oxygen species : oxidative damage and pathogenesis. *Curr Sci* **1999** , 77 , 658 - 65.
257. John Beuge A & Steven Aust D. Microsomal lipid peroxidation In : *Methods in enzymology* , Vol LII , Part C , Colowick SP & Kaplan NA (ed) , Inc, Florida, Academic Press **1987** , 302 - 10.
258. Michael Calvin O, Henry Friedman S, Michael Gamcsik P, Catherine Fenselau & John Hilton. Role of glutathione in cellular resistance to alkylating agents. *Advan Enzyme Regul* **1993** , 33 . 19 - 26.
259. Campos R, Garrido A, Guerra R & Valenzuela A. Silymarin dihemisuccinate protects against glutathione depletion and lipid peroxidation induced by acetaminophen on rat liver. *Planta Med* **1989** , 55 , 417 - 9.
260. Valenzuela A, Lagos C, Schmidt K & Videla K. Silymarin protection against hepatic lipid peroxidation induced by acute ethanol intoxication in the rat. *Biochem Pharmacol* **1985**, 3, 2209 - 12.
261. De Groot H, Noll T & Tolle T. Loss of latent activity of liver microsomal membrane enzyme evoked by lipid peroxidation. Studies of nucleoside diphosphate, glucose-6-phosphatase and UDP glucuronyl transferase. *Biochem Biophys Acta* **1985** , 815 , 91 - 6.
262. Venukumar MR & Latha MS. Antioxidant effect of *Coscinium fenestratum* in carbon tetrachloride-treated rats. *Indian J Physiol Pharmacol* **2002** , 46, 223 –8.
263. Venukumar MR & Latha MS. Antioxidant effect of *Curculigo orchioides* in carbon tetrachloride-induced hepatopathy in rats. *Indian J Clin Biochem* **2002**,17, 80 – 7.
264. Venukumar MR & Latha MS. Effect of *Coscinium fenestratum* in rat model of hepatotoxicity. *Indian J Physiol Pharmacol* **2002**:(In Press)
265. Charles Pouchart J. *The Aldrich Library of NMR spectra*. Vol 2 , Inc, Wincosin , Aldrich Chemical Company . **1983** . 2nd ed., p 946 .
-

-
266. Charles Pouchart J. *The Aldrich Library of Infra red spectra* . . Inc , Wincosin , Aldrich Chemical Company , **1983**. 2nd ed. p 1513 .
267. Susan Budavari, Maryadele O'Neil J, Ann Smith, Patricia Heckelman E & Joanne Kinneary F. (eds) *The Merck Index*. Inc, Whitehouse station, NJ ,Merck & Co . **1996** , 193 -4.
268. Bhakuni DS & Jain S. In : *The alkaloids*. Abrossi (ed) , Vol 28 , New York , Academic Press . **1986** , 95 - 181.
269. Chang AK, Bhattacharya K & Ghosh DK. Amastigote inhibition and mode of action of berberine . *Exp Parasit* **1990** , 60 , 404 - 13.
270. Cordell GA, Shamma M, Saxton JE & Smith GF. Berberine In : *Dictionary of alkaloids* . Southon IW & Buckingham J (ed) , Vol I , London, New York, Chapman and Hill **1989** , p 142.
271. Ghosh KS , Gao C & Wang LC. Berberine-induced morphological differentiation and down regulation of C-ki-ras 2 proto-oncogene expression in human teratocarcinoma cells. *Cancer Lett* **1985** , 55 , 103 - 8.
272. Kuo CL, Chou CC & Yung BY. Berberine complexes with DNA in the berberine-induced apoptosis in human leukemic HL-60 cells. *Cancer Lett* **1995** , 93 , 193 - 200.
273. Anis KV , Girija Kuttan & Kuttan R. Effect of isoquinoline alkaloid berberine as an adjuvant during chemotherapy and radiation therapy. *Amala Res Bull* **1999** , 19 , 58 - 63.
274. Marini- Bettolo GB. Present aspects of the use of medicinal plants in traditional medicine. *J Ethnopharmacol* **1980** , 2 . 5 - 7.
275. Rao RR. Mechanism of dūrg induced hepatotoxicity. *Indian J. Pharmac* **1973**, 5, 313 - 8
276. Athar M, Zaker Hussan S & Hassan N. Drug metabolizing enzymes in the liver. In : Rana SVS and Taketa K (eds.) *Liver and Environmental Xenobiotics*, New Delhi, Narosa Publishing House, **1977** . 211-7
277. Remmer HI. The role of liver in drug metabolism *Amercan J Med* **1970**, 49, p.617.
278. Clawson GA Mechanism of carbon tetrachloride hepatotoxicity. *Pathol Immunopathol* **1989** , 8 . 104 - 12.
-

-
279. Recknagel RO, Glende EA, Ugazio G, Koch RR & Serinivasan S. New data in support of lipid peroxidation theory of carbon tetrachloride liver injury. *Isrl J Med Sci* **1974**, 10, 301 - 7.
 280. Ip SP & Ko KM. The crucial antioxidant action of schisandrin B in protecting against carbon tetrachloride hepatotoxicity in mice : a comparative study with butylated hydrotoluene. *Biochem Pharmacol* **1996**, 52, 1687 - 93.
 281. Zimmerman HJ & Seef LB. Enzymes in hepatic diseases. In : Goodly EI (ed). *Diagnostic Enzymology*, **1970**, Philadelphia. Lea and Febiger, p. 128-42
 282. Drotman RB & Lawhorn GT. Serum enzymes as indicators of chemical induced liver damage. *Drug Chem Toxicol* **1978**, 1, 163 - 71.
 283. Thabrew, MI, Joice PDTM & Rajatissa W. A Comparative study of the efficacy of *Pavetta indica* and *Osbeckia Octandra* in the treatment of liver dysfunction. *Planta Med* **1987**, 53, 239 - 41.
 284. Castro J, Sasame H, Sussman H & Bullette P. Diverse effects of SKF 525 A and antioxidants on CCl₄ - induced changes in liver microsomal P-450 content and ethyl morphine metabolism. *Life Sci* **1968**, 7, 129-36.
 285. Bhat VB & Madhyastha KM. C-Phytoeyanin : a potent peroxy radical Scavenger *in vivo* and *in vitro*. *Biochem Biophys Res Commun* **2000**, 275, 20 - 5.
 286. Venukumar MR & Latha M.S. Hepatoprotective effect of the methanolic extract of *Curculigo orchoides* in CCl₄-treated male rats. *Indian J Pharmac* **2002**, 34, 269-75.

LIST OF PAPERS PUBLISHED / ACCEPTED FOR PUBLICATION / COMMUNICATED

1. Venukumar MR & Latha MS. Antioxidant effect of *Coscinium fenestratum* in carbon tetrachloride- treated rats. *Indian J Physiol Pharmacol* **2002**, 46, 223 -8.
 2. Venukumar MR & Latha MS. Antioxidant effect of *Curculigo orchoides* in carbon tetrachloride-induced hepatopathy in rats. *Indian J Clin Biochem* **2002**, 17, 80 - 7.
 3. Venukumar MR & Latha M.S. Hepatoprotective effect of the methanolic extract of *Curculigo orchoides* in CCl₄-treated male rats. *Indian J Pharmac* **2002**, 34, 269-75
 4. Venukumar MR & Latha MS. Effect of *Coscinium fenestratum* in rat model of hepatotoxicity. *Indian J Physiol Pharmacol* **2002**-(In Press)
 5. Venukumar MR & Latha MS. Hepatoprotection by berberine isolated from *Coscinium fenestratum*. **2002**. *Fitoterapia*. (Communicated).
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