

DerMed Research Team Publications

1. Hsu, D.-Z., Chu, P.-Y., and Jou, I.-M., Daily sesame oil supplement attenuates joint pain by inhibiting muscular oxidative stress in osteoarthritis rat model. *J Nutr Biochem*. 2016; 29:36-40.
2. Hsu, D.-Z., Chu, P.-Y., and Jou, I.-M., Enteral sesame oil therapeutically relieves disease severity in rat experimental osteoarthritis. *Food Nutr Res* 2016; 60:29807.
3. Hsu, D.-Z. and Jou, I.-M. 1,4-Butanediol diglycidyl ether-cross-linked hyaluronan inhibits fibrosis in rat primary tenocytes by down-regulating autophagy modulation. *J Mater Sci Mater Med* 2016; 27:84.
4. Hsu, D.-Z., Chu, P.-Y., Chen, S.-J., and Liu, M.-Y., Mast Cell Stabilizer Ketotifen Inhibits Gouty Inflammation. *American Journal of Therapeutics*, 2016:e1009-1015.
5. Hsu, D.-Z., Chu, P.-Y., Wu, P.-T., Shen, P.-C., and Jou, I.-M., Oxidative stress participates in quadriceps muscle dysfunction during the initiation of osteoarthritis in rats. *Int J Clin Exp Pathol*. 2015; 8:12491-12499.
6. Periasamy, S., Hsu, D.-Z., Fu, Y.-H., and Liu, M.-Y., Sleep deprivation-induced multi-organ injury: Role of oxidative stress and inflammation. *EXCLI Journal* 2015; 14:672-668. Periasamy, S., Chu, P.-Y., Li, Y.-H., Hsu, D.-Z., and Liu, M.-Y., Sesamol ameliorates hypotension by modulating cytokines and PPAR- γ in systemic inflammatory response. *EXCLI Journal* 2015; 14:948-957.
7. Periasamy, S., Hsu, D.-Z., Chien, S.-P., Chang, P.-C., and Liu, M.-Y., A single dose of sesame oil alleviates liver injury and steatosis in steatohepatitis via modulation of oxidative stress, cytokines and PPAR- α . *J Exp Appl Animal Sci* 2015; 1:325-335.
8. Liu, C.-T., Chien, S.-P., Hsu, D.-Z., Periasamy, S., Liu, M.-Y., Curative effect of sesame oil in a rat model of chronic kidney disease. *Nephrology (Carlton)* 2015; 20:922-930.
9. Chandrasekaran, V. R., Hsu, D.-Z., and Liu, M.-Y., Beneficial Effect of Sesame Oil on Heavy Metal Toxicity: Review. *JPEN J Parenter Enteral Nutr* 2014; 38:179-185.
10. Periasamy, S., Chien, S.P., Chang, P.C., Hsu, D.-Z., and Liu, M.Y. Sesame oil mitigates nutritional steatohepatitis via attenuation of oxidative stress and inflammation: a tale of two-hit hypothesis. *Journal of nutritional biochemistry* 2014; 25:232-240.
11. Periasamy, S., Hsu, D.-Z., Chang, P.C., and Liu, M.Y. Sesame oil attenuates nutritional fibrosing steatohepatitis by modulating matrix metalloproteinases-2, 9 and PPAR- γ . *Journal of Nutritional Biochemistry* 2014; 25:337-344.
12. Hsu, D.-Z., Chen, Y.-W., Chu, P.-Y., Periasamy, S., and Liu, M.-Y., Protective effect of 3,4-methylenedioxyphenol (sesamol) on stress-related mucosal disease in rats. *Biomed Res Int* 2013; 2013:481827.
13. Hsu, D.-Z., Chen, S.J., Chu, P.Y., and Liu, M.Y. Therapeutic effects of sesame oil on monosodium urate crystal-induced acute inflammatory response in rats. *Springerplus* 2013; 2:659-668.
14. Periasamy, S., Hsu, D.-Z., Chandrasekaran, V.-R., and Liu, M.-Y., Sesame Oil Accelerates Healing of 2,4,6-Trinitrobenzenesulfonic acid-Induced Acute Colitis by Attenuating Inflammation and Fibrosis. *JPEN J Parenter Enteral Nutr* 2013; 37:674-682.
15. Hsu, D.-Z., Liu, C.-T., Chu, P.-Y., Li, Y.-H., Periasamy, S., and Liu, M.-Y., Sesame Oil Attenuates Ovalbumin-induced Pulmonary Edema and Bronchial Neutrophilic Inflammation in Mice. *BioMed Research International* 2013; Article ID 905670, 7 pages.
16. Hsu, D.-Z. (Corresponding author), Chu, P.-Y., Li, Y.-H., Chandrasekaran, V.-R., Liu, M.-Y. Role of flavin-containing-monoxygenase-dependent neutrophil activation in thioacetamide-induced hepatic inflammation in rats. *Toxicology* 2012; 298:52-58.
17. Chu, P.-Y., Hsu, D.-Z., Wang L.-K., and Liu, M.-Y. Sesame oil protects against hepatic injury via the inhibition of neutrophil activation in thioacetamide-treated rats. *Acta Phytopathologica et Entomologica Hungarica* 2012; 47:203-211.

18. Hsu, D.-Z., Li, Y.-H., Chu, P.-Y., Periasamy, S., Liu, M.-Y. 2011. Sesame oil prevents acute kidney injury induced by the synergistic action of aminoglycoside and iodinated contrast in rats. *Antimicrob Agents Chemother* 55:2532-2536.
19. Periasamy, S., Hsu, D.-Z., Chen, S.-Y., Yang, S.-S., Chandrasekaran, V.-R., Liu, M.-Y. 2011. Therapeutic sesamol attenuates monocrotaline-induced sinusoidal obstruction syndrome in rats by inhibiting matrix metalloproteinase-9. *Cell Biochem Biophys* 2011; 61:327-336.
20. Periasamy, S., Li, Y.-H., Hsu, D.-Z., Su, S.-B., Liu, M.-Y. 2011. Ostensibly ineffectual doses of cadmium and lipopolysaccharide causes liver damage in rats. *Hum Exp Toxicol* 30:624-635.
21. Chandrasekaran, V. -R., Chien, S.-P., Hsu, D.-Z., Liu, M.-Y. 2011. Anti-hepatotoxic effects of 3,4-methylenedioxyphenol and N-acetylcysteine in acutely acetaminophen-overdosed mice. *Hum Exp Toxicol* 2011; 30:1609-1615.
22. Hsu, D.-Z., Liu, C.-T., Li, Y.-H., Chu, P.-Y., Liu, M.-Y. 2010. Protective effect of daily sesame oil supplement on gentamicin-induced renal injury in rats. *Shock* 33:88-92.
23. Periasamy, S., Liu, C.-T., Hsu, D.-Z., Liu, M.-Y. 2010. Sesame oil accelerates kidney healing following gentamicin-induced kidney injury in rats. *Am J Nephrol* 32:383-392.
24. Chu, P.-Y., Chien, S.-P., Hsu, D.-Z., Liu, M.-Y. 2010. Protective effect of sesamol on the pulmonary inflammatory response and lung injury in endotoxin rats. *Food Chem Toxicol* 48:1821-1826.
25. Chu, P.-Y., Hsu, D.-Z., Hsu, P.-Y., Liu, M.-Y. 2010. Sesamol downregulates the lipopolysaccharide-induced inflammatory response by inhibiting nuclear factor-kappa B activation. *Innate Immun* 16:333-339.
26. Chandrasekaran, V. -R., Chien, S.-P., Hsu, D.-Z., Chang Y.-C., Liu, M.-Y. 2010. Effects of sesame oil against after the onset of acetaminophen-induced acute hepatic injury in rats. *JPEN J Parenter Enteral Nutr* 34:567-573.
27. Hsu, D.-Z., Chu, P.-Y., Liu, M.-Y. 2009. The non-peptide chemical 3,4-methylenedioxyphenol blocked LPS from binding to LPS binding protein and inhibited proinflammatory cytokines. *Innate Immun* 15:380-385.
28. Hsu, D.-Z., Chu, P.-Y., Chandrasekaran, V. R., Liu, M.-Y. 2009. Sesame ligand sesamol protects against aspirin-induced gastric mucosal damage in rats. *J Funct Foods* 1:349-355.
29. Chandrasekaran, V.R.-M., Hsu, D.-Z., Liu, M.-Y. 2009. The protective effect of sesamol against mitochondrial oxidative stress and hepatic injury in acetaminophen-overdosed rats. *Shock* 32:89-93.
30. Hsu, D.-Z., Chu, P.-Y., Liu, M.-Y. 2009. Effect of sesame oil on acidified ethanol-induced gastric mucosal injury in rats. *JPEN J Parenter Enteral Nutr* 33:423-427.
31. Hsu, D.-Z., Wan, C.-H., Hsu, H.-F., Lin, Y.-M., Liu, M.-Y. 2008. The prophylactic protective effect of sesamol against ferric-nitrilotriacetate-induced acute renal injury in mice. *Food Chem Toxicol* 46:2736-2741.
32. Hsu, D.-Z., Chu, P.-Y., Li, Y.-H., Liu, M.-Y. 2008. Sesamol attenuates diclofenac-induced acute gastric mucosal injury via its cyclooxygenase-independent anti-oxidative effect in rats. *Shock* 30:456-462.
33. Chandrasekaran, V.R.-M., Wan, C.-H., Liu, L.-L., Hsu, D.-Z., Liu, M.-Y. 2008. Effect of sesame oil against acetaminophen-induced acute oxidative hepatic damage in rats. *Shock* 30:217-221.
34. Hsu, D.-Z., Chien, S.-P., Li, Y.-H., Liu, M.-Y. 2008. Sesame oil does not show accumulatively enhanced protection against oxidative-stress-associated hepatic injury in septic rats. *JPEN J Parenter Enteral Nutr* 32:276-280.
35. Hsu, D.-Z., Chien, S.-P., Li, Y.-H., Chuang, Y.-C., Chang, Y.-C., Liu, M.-Y. 2008. Sesame oil attenuates hepatic lipid peroxidation by inhibiting nitric oxide and superoxide anion generation in septic rats. *JPEN J Parenter Enteral Nutr* 32:154-159.
36. Hsu, D.-Z., Chien, S.-P., Chen, K.-T., Liu, M.-Y. 2007. The effect of sesamol on systemic oxidative and hepatic dysfunction in acutely iron-intoxicated mice. *Shock* 28:596-601.

37. Hsu, D.-Z., Chen, K.-T., Chu, P.-Y., Li, Y.-H., Liu, M.-Y. 2007. Sesame oil protects against lead-plus-lipopolysaccharide-induced acute hepatic injury. *Shock* 27:334-337.
38. Hsu, D.-Z., Chen, K.-T., Lin, T.-H., Li, Y.-H., Liu, M.-Y. 2007. Sesame oil attenuates cisplatin-induced hepatic and renal injuries by inhibiting nitric-oxide-associated lipid peroxidation in mice. *Shock* 27:199-204.
39. Hsu, D.-Z., Chen, K.-T., Chien, S.-P., Li, Y.-H., Huang, B.-M., Chuang, Y.-C., Liu, M.-Y. 2006. Sesame oil attenuates acute iron-induced lipid-peroxidation-associated hepatic damage in mice. *Shock* 26:625-630.
40. Hsu, D.-Z., Chen, K.-T., Li, Y.-H., Chuang, Y.-C., Liu, M.-Y. 2006. Sesamol delays mortality and attenuates hepatic injury after cecal ligation and puncture in rats: role of oxidative stress. *Shock* 25:528-532.
41. Hsu, D.-Z., Li, Y.-H., Chu, P.-Y., Chien, S.-P., Chuang, Y.-C., Liu, M.-Y. 2006. Attenuation of endotoxin-induced oxidative stress and multiple organ injury by 3,4-methylenedioxyphenol in rats. *Shock* 25:300-305.
42. Hsu, D.-Z., Su, S.-B., Chiang, P.-J., Chien, S.-P., Li, Y.-H., Lo, Y.-J., Liu, M.-Y. 2005. Effect of sesame oil on oxidative stress-associated renal injury in endotoxemic rats: involvement of pro-inflammatory cytokines. *Shock* 24:276-280.
43. Chiang, J.P.-J., Hsu, D.-Z., Tsai, J.-C., Sheu, H.-M., Liu, M.-Y. 2005. Effects of topical sesame oil on oxidative stress in rats. *Altern Ther Health Med* 11: 40-45.
44. Hsu, D.-Z., Wang, S.-T., Deng, J.-F., Liu, M.-Y. 2005. Epinephrine protects against severe acute gastric bleeding in rats: role of nitric oxide and glutathione. *Shock* 23:253-257.
45. Hsu, D.-Z., Liu, M.-Y. 2004. Effects of sesame oil on oxidative stress after the onset of sepsis in rats. *Shock* 22:582-585.
46. Hsu, D.-Z., Liu, M.-Y. 2004. Involvement of nitric oxide in gastric protection of epinephrine in endotoxin intoxication in rats. *Toxicology* 204:203-208.
47. Hsu, D.-Z., Liu, M.-Y. 2004. Bicuculline methiodide attenuates hepatic injury and decreases mortality in septic rats: role of cytokines. *Shock* 22:347-350.
48. Hsu, D.-Z., Liu, M.-Y. 2004. Effects of GABAA receptor antagonist bicuculline methiodide on hypotension in endotoxin-intoxicated rats. *Toxicology* 200:213-219.
49. Hsu, D.-Z., Li, Y.-H., Chien, S.-P., Liu, M.-Y. 2004. Effects of sesame oil on oxidative stress and hepatic injury after cecal ligation and puncture in rats. *Shock* 21:466-469.
50. Hsu, D.-Z., Liu, M.-Y. 2004. Sesame oil protects against lipopolysaccharide-stimulated oxidative stress in rats. *Crit Care Med* 32:227-231.
51. Hsu, D.-Z., Chiang, P.-J., Chien, S.-P., Huang, B.-M., Liu, M.-Y. 2004. Parenteral sesame oil attenuates oxidative stress after endotoxin intoxication in rats. *Toxicology* 196:147-153.
52. Liu, M.-Y., Chiang, P.-J., Hsu, D.-Z., Deng, J.-F. 2003. Abamectin attenuates gastric mucosal damage induced by ethanol through activation of vagus nerve in rats. *Alcohol* 30:1-5.
53. Hsu, D.-Z., Chiang, P.-J., Hsu, C.-H., Huang, B.-M., Deng, J.-F., Liu, M.-Y. 2003. The elucidation of epinephrine as an antihypotensive agent in abamectin intoxication. *Hum Exp Toxicol* 22:433-437.
54. Hsu, D.-Z., Liu, M.-Y. 2002. Sesame oil attenuates multiple organ failure and increases survival rate during endotoxemia in rats. *Crit Care Med* 30:1859-1862.
55. Hsu, D.-Z., Hsu, C.-H., Huang, B.-M., Liu, M.-Y. 2001. Abamectin effects on aspartate aminotransferase and nitric oxide in rats. *Toxicology* 165:189-193.