Recent Publications (2011-2015)

1. Rizvi F, Mathur A and **Kakkar P** (2015). Morin mitigates acetaminophen-induced liver injury by potentiating Nrf2 regulated survival mechanism through molecular intervention in PHLPP2-Akt-Gsk3β axis. Apoptosis, 2015; 20:1296–1306.
2. Shukla S, Rizvi F, Raisuddin S and **Kakkar P** (2014). FoxOproteins’ nuclear retention and BH3-onlyprotein Bim induction evoke mitochondrial dysfunction-mediated apoptosis in berberine-treated HepG2 cells. Free Radic. Biol. Med., 76: 185-199.
3. Rizvi F, Shukla S and **Kakkar P** (2014). [Essential role of PH domain and leucine-rich repeat protein phosphatase 2 in Nrf2 suppression via modulation of Akt/GSK3β/Fyn kinase axis during oxidative hepatocellular toxicity](http://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=blL_25EAAAAJ&cstart=60&citation_for_view=blL_25EAAAAJ:35N4QoGY0k4C). Cell Death & Disease, 5(3): e1153
4. Kapoor R, Singh S, Tripathi M, Bhatnagar P, **Kakkar P**, Gupta KC (2014). [O-Hexadecyl-Dextran entrapped Berberine nanoparticles abrogate high glucose stress induced apoptosis in primary rat hepatocytes](http://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=blL_25EAAAAJ&cstart=60&citation_for_view=blL_25EAAAAJ:lSLTfruPkqcC). PLoS One, 9(2): e89124.
5. Singh J and **Kakkar P** (2014). Oroxylin A, a constituent of Oroxylum indicum inhibits adipogenesisand induces apoptosis in 3T3-L1 cells. Phytomedicine, 21: 1733-1741.
6. Kapoor R and **Kakkar P** (2014). Naringenin accords hepatoprotection from streptozotocin induced diabetes in vivo by modulating mitochondrial dysfunction and apoptotic signaling cascade. Toxicology Reports, 1: 569-581.
7. Tiwari M, Dwivedi UN, **Kakkar P** (2014). Tinospora cordifolia extract modulates COX-2, iNOS, ICAM-1, pro-inflammatory cytokines and redox status in murine model of asthma . J. Ethnopharmacol., 153, 326-337
8. Kapoor R, Rizvi F and **Kakkar P** (2013). Naringenin prevents high glucose-induced mitochondria- mediated apoptosis involving AIF, Endo-G and caspases. Apoptosis, 18: 9-27.
9. Singh J. and **Kakkar P** (2013). Modulation of liver functions, antioxidant responses, insulin resistance and glucose transport by *Orozylum indicum* stem bark in STZ induced diabetic rats. Food Chem Toxicol., 62:722-731.
10. Sinha D., Singh, J., Tandon, PK, and **Kakkar P.** (2013). Genetic diversity of *Pinus roxburghii* Sarg. collected from different Himalayan regions of India assessed by random amplified polymorphic DNA analysis. Toxicol. Int., 20(3): 208-213.

# Kapoor R and Kakkar P (2012). Protective role of morin, a flavonoid, against high glucose induced oxidative stress mediated apoptosis in primary rat hepatocytes. PLoS One;7(8): e41663

# Sharma S, Chaturvedi J, Chaudhari BP, Singh RL and Kakkar P (2012). Probiotic Enterococcus lactis IITRHR1 protects against acetaminophen-induced hepatotoxicity. Nutrition. 2012 Feb;28(2):173-81.

# Kumari A and Kakkar P (2012). Lupeol protects against acetaminophen-induced oxidative stress and cell death in rat primary hepatocytes. Food Chem Toxicol.,50(5):1781-1789.

# Singh BK, Tripathi M, Chaudhari BP, Pandey PK and Kakkar P (2012). Natural terpenes prevent mitochondrial dysfunction, oxidative stress and release of apoptotic proteins during nimesulide-hepatotoxicity in rats. PLoS One,7(4):e34200.

1. Kumari A and **Kakkar P** (2012). [Lupeol prevents acetaminophen-induced in vivo hepatotoxicity by altering the Bax/Bcl-2 and oxidative stress-mediated mitochondrial signaling cascade](http://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=blL_25EAAAAJ&cstart=20&citation_for_view=blL_25EAAAAJ:mB3voiENLucC). Life sciences, 90 (15), 561-570.
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3. Singh BK, Tripathi M, Pandey PK and **Kakkar P** (2011). Alteration in mitochondrial thiol enhances calcium ion dependent membrane permeability transition and dysfunction in vitro: a cross-talk between mtThiol, Ca2+, and ROS. Mol. Cell. Biochem., 357: 373-385.
4. **Kakkar P** (2011). Toxicological assessment of herbo-minerals: Current status and progress in India. Proceedings-Symposium on safety assessment of herbals. Toxicology International, Oct 27; S13-S16.
5. Tripathi M, Singh BK, Raisuddin S and **Kakkar P** (2011). Abrogation of nimesulide induced oxidative stress and mitochondria mediated apoptosis by Fumaria parviflora Lam. extract. *J. Ethnopharmacol*., 136: 94-102.
6. Kapoor R, **Kakkar P** (2011). Morin modulates high glucose induced apoptosis in vitro and in vivo. Free Radic. Biol. Med., 51: S62.