

## Publications during last Five Years

1. Singh, A.P., Shah, P., Mathur, N., Buters, J.T.M., Pant, M.C and **Parmar, D.:** Genetic polymorphism in Cytochrome P4501B1 and susceptibility to head and neck cancer. Mutation Research. *Fundamental and Molecular Mutagenesis* 639,11-19, 2008.
2. Singh M., Shah, P Singh, A.P., Rawali, M., Mathur, M., Pant, M.C. and **Parmar, D.:** Effect of polymorphic GST genes on susceptibility to oral cancer. Mutation Research. *Fundamental and Molecular Mutagenesis* 638, 184-194, 2008.
3. Shah, P., Singh, A.P., Madhu, S., Mathur, N., Buters, J.T.M., Pant, M.C and **Parmar, D.:** Interaction of cytochrome P4501A1 genotypes with other risk factors and susceptibility to lung cancer. Mutation Research. *Fundamental and Molecular Mutagenesis* 639, 1-10, 2008.
4. Johri, A., Dhawan, A., Singh, R.L. and **Parmar, D:** Persistence in alterations in the ontogeny of cerebral and hepatic cytochrome P450s following prenatal exposure to low doses of lindane. Toxicological Sciences 101, 331-340, 2008.
5. Singh, M., Khan, A.J, Shah, P.P., Shukla, R., Khanna, V.K and **Parmar, D.:** Polymorphism in environment responsive genes and association with Parkinson disease. Mol. Cell. Biochem. 312(1-2), 131-8, 2008.
6. Johri, A., Yadav, S., Dhawan, A and **Parmar, D.:** Responsiveness of cerebral and hepatic cytochrome P450s in rat offspring prenatally exposed to lindane. Toxicol. Appl. Pharmacol. 231, 10-16, 2008.
7. Indian Genome Variation Consortium: Genetic landscape of the people of India: a canvas for disease gene exploration. J. Genetics 87(1), 3-20, 2008.
8. Shah, P.P., Singh, A.P., Singh, M., Mathur, N., Mishra, B.N., Pant, M.C and **Parmar, D.:** Association of functionally important polymorphisms in Cytochrome P4501B1 with lung cancer. Mutation Research. *Fundamental and Molecular Mechanisms of Mutagenesis* 643, 4-10, 2008.
9. Singh, V., **Parmar, D** and Singh, M.P.: Do single nucleotide polymorphisms in xenobiotic metabolizing genes determine breast cancer susceptibility and treatment outcomes? Cancer Investigations 26, 769-783, 2008.
10. Yadav, S.S., Ruwali, M., Shah, P.P., Mathur, N., Singh, R.L., Pant, M.C and **Parmar, D:** Association of poor metabolizers of cytochrome P450 2C19 with Head and Neck cancer and poor treatment response. Mutation Research. *Fundamental and Molecular Mechanisms of Mutagenesis* 644, 31-37, 2008.
11. Dhawan, A., Bajpayee, M and **Parmar, D.:** Comet assay: a reliable tool for the assessment of DNA damage in different models. Cell Biol Toxicol. 25, 5-12, 2009.
12. Pandey, A.K., Bajpayee, M., **Parmar, D,** Kumar, R., Rastogi, S.K., Mathur, N., Thorning, P., Matas Marcel De., Shao, Q., Anderson, D and Dhawan, A Multipronged evaluation of genotoxicity in Indian petrol-pump workers. Environ. Mol. Mutag. 49(9):695-707, 2008
13. Singh, A.P., Singh M., Shah, P., Ruwali, M., Mathur, M., Pant, M.C. and **Parmar, D.:** Association of polymorphism in cytochrome P4501A1 with head and neck cancer risk. Cancer Investigations 27 (8): 869-876, 2009
14. Khan, A.J., Ruwali, M., Choudhuri, G., Mathur, N., Husain, Q and **Parmar, D:** Polymorphism in Cytochrome P450 2E1 and interaction with other genetic risk

- factors and susceptibility to alcoholic liver cirrhosis. *Mutation Research. Fundamental and Molecular Mechanisms of Mutagenesis* 664: 55-63, 2009.
15. Khan, A.J., Choudhuri, G., Mathur, N., Husain, Q and **Parmar, D**: Polymorphism in glutathione-S-transferases: A risk factors in alcoholic liver cirrhosis. *Drug and Alcohol Dependence* 101, 183-190, 2009.
  16. Pandey AK, Gurbani D, Bajpayee M, **Parmar D**, Ajmani S, Dhawan A. In silico studies with human DNA topoisomerase-II alpha to unravel the mechanism of in vitro genotoxicity of benzene and its metabolites. *Mutat Res. Fundamental and Molecular Mechanisms of Mutagenesis* 661, 57-70, 2009.
  17. Shukla, R., Sharma, V., Saxena, N, **Parmar, D.**, Das, M and Dhawan, A: DNA damaging potential of zinc oxide nanoparticles in human epidermal cells. *Toxicol. Lett.* 185 (3), 211-18, 2009.
  18. Ruwali, M., Khan, A.J., Shah, P.P, Singh, A.P., Pant, M.C. and **Parmar, D.:** Cytochrome P450 2E1 and head and neck cancer: Interaction with genetic and environmental risk factors. *Environ. Mol. Mutag* 50 (6): 473-482, 2009.
  19. Dhawan, A., Sharma, V and **Parmar, D.:** Nanomaterials: A challenge for toxicologists. *Nanotoxicology* 3, 1-9, 2009
  20. Ruwali, M., Pant, M.C, Shah, P.P, Mishra, B.N and **Parmar, D.:** Polymorphism in cytochrome P450 2A6 and glutathione S-transferase P1 modifies head and neck cancer risk and treatment outcome. *Mutat Res. Fundamental and Molecular Mechanisms of Mutagenesis* 669, 36-41, 2009.
  21. Shah, P.P., Kumar Saurabh, Pant, M.C., Mathur, N and **Parmar, D.:** Evidence for increased cytochrome P4501A1 expression in blood lymphocytes of lung cancer patients. *Mutation Research. Fundamental and Molecular Mechanisms of Mutagenesis* 670, 74-78, 2009.
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  23. Dhawan, A, Bajpayee, M and **Parmar D:** Detection of DNA damage in Drosophila and Mouse in *The Comet assay in Toxicology*. Eds. Dhawan A and Anderson A, RSC Publishing, Cambridge, CB4 0WF, UK, 2009, pp. 151-170.
  24. Yadav, S.S., Ruwali, M., Pant, M.C., Shukla, P., Singh, R.L and **Parmar, D:** **Interaction of drug metabolizing cytochrome P450 2D6 poor metabolizers with cytochrome P450 2C9 and 2C19 genotypes modify the susceptibility to head & neck cancer and treatment response.** *Mutation Research. Fundamental and Molecular Mechanisms of Mutagenesis* 684, 49-55, 2010.
  25. Singh, M., Khanna, V.K., Shukla, R and **Parmar, D:** Association of poor metabolizers of cytochrome P450 2D6(CYP2D6) and N-acetyltransferase-2 (NAT2) with Parkinson's disease. *Disease Markers* 28, 87-93, 2010.
  26. Singh K, Singh S, Singhal NK, Sharma A, **Parmar D**, Singh MP: Nicotine- and caffeine-mediated changes in gene expression patterns of MPTP-lesioned mouse striatum: Implications in neuroprotection mechanism. *Chem Biol Interact.* 29;185(2):81-93, 2010.
  27. K. Saurabh, Sharma, A., Yadav, S and **Parmar, D:** Polycyclic aromatic hydrocarbon metabolizing cytochrome P450s in freshly prepared uncultured peripheral rat blood lymphocytes. *Biochem. Pharmacol.* 79, 1182-88, 2010.

28. Khan, A.J., Husain, Q, Choudhuri, G and **Parmar, D**: Association of polymorphism in alcohol dehydrogenase and interaction with other genetic risk factors with alcoholic liver cirrhosis. *Drug and Alcohol Dependence* 109, 190-197, 2010
29. Ruwali M, **Parmar D**: Association of functionally important polymorphisms in cytochrome P450s with squamous cell carcinoma of head and neck. *Indian J Exp Biol.* 48(7):651-65, 2010 (Review).
30. Khan, A.J., Sharma, A., Choudhuri, G and **Parmar, D**: Blood lymphocyte cytochrome P450 2E1: A biomarker to predict early stage alcoholic liver cirrhosis. *Alcohol* 45(1):81-7, 2011.
31. Singh, A.P., Pant, M.C., Ruwali, M., Shah, P.P., Prasad R., Mathur, N and **Parmar, D**: Polymorphism in Cytochrome P450 1A2 and their interaction with risk factors in determining risk of squamous cell lung carcinoma in men. *Cancer Biomarkers* 8(6):351-9, 2011.
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34. Yadav, S., Pandey, A., Shukla, A., Talwelkar, S.S., Kumar, A., Pant, A.B and **Parmar, D**: MiR-497 and miR-302b regulate ethanol induced neuronal cell death through BCL2 and cyclin D2. *J. Biol. Chem.* 286(43):37347-57, 2011
35. Saurabh, K and **Parmar, D**: Blood lymphocyte cytochrome P450 2B1/2B2: A biomarker to monitor CYP2B-levels in tissues. *Biomarkers* 16 (8), 649-656, 2011.
36. Sharma, A., Saurabh, K., Yadav, S., Jain, S.K and **Parmar, D**: Ethanol induced induction of cytochrome P450 2E1 and activation of mitogen activated protein kinases in peripheral blood lymphocytes. *Xenobiotica* 42(4):317-26, 2012.
37. Srivastava, A., Yadav, S., Sharma, A., Dwivedi, U.N., Flora, S.J.S & **Parmar, D**: Similarities in diesel exhaust particles induced alterations in expression of cytochrome P-450 and glutathione S-transferases in rat lymphocytes and lungs. *Xenobiotica* 42(7):624-32, 2012.
38. Sankhwar ML, Yadav RS, Shukla RK, Pant AB, Singh D, **Parmar D** and Khanna VK: Impaired cholinergic mechanisms following exposure to monocrotophos in young rats. *Hum Exp Toxicol.* 31(6):606-16, 2012
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41. Sharma, A., Saurabh, K., Yadav, S., Jain, SK and **Parmar, D**: Expression profiling of selected genes of toxication and detoxication pathways in peripheral blood lymphocytes as a biomarker for predicting toxicity of environmental chemicals. *International Journal of Hygiene and Environmental Health* 2012 Dec 26. doi:pii: S1438-4639(12)00135-6. 10.1016/j.ijheh.2012.11.002. [Epub ahead of print].

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43. Mishra, A., Sanghi, D., Sharma, AC., Raj, S., Maurya, SS., Awasthi, S., Singh, A., **Parmar, D** and Srivastava, R.N.: Association of polymorphism in growth and differentiation factor 5 gene with Osteoarthritis knee. *Am. J. Biochem. Biotech.* 9, 1-7, 2013.
44. Singh, A., Yadav, S., Srivastava, V., Kumar, R., Singh, D., Sethumadhavan, R and **Parmar, D.**: Imprinting of cerebral and hepatic cytochrome P450s in rat offsprings exposed prenatally to low doses of cypermethrin. *Molecular Neurobiol.* 48 (1), 128-140, 2013
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