

Dr. Anil Kumar (M.Sc, Ph.D)

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Research Interest: Molecular genetics & environmental toxicology.

As a result of this rapidly changing scientific environment, regulatory and industrial toxicology practice is poised to undergo dramatic change during the next decade. The advances in molecular genetics has provided improved methods of identifying and evaluating potential human, animal and environmental toxicants, and of monitoring the effects of exposures to these xenobiotics. These advances also present distinct challenges. Using molecular genetics methods, we can make improvement in human health by studying a mutation in particular genotype.

Experience

- Worked in University College, Kurukshetra University, Kurukshetra as assistant professor for 08 months on ad-hoc basis
- Working in Centre for Medical Biotechnology, MDU, Rohtak from Sept 2013 onwards

Project running/ completed

I have completed major research project from UGC worth 17.89 Lakh Entitled “Study of xenobiotic metabolizing gene polymorphisms and their association with cytogenetic biomarker in pesticides exposed worker”

Affiliations

Lifetime member of Association of Bio-Pharma Professionals

Life time member of Indian Science Congress (ISCA).

Publications

- 1) **Anil Kumar**, Anita Yadav, Shiv Kumar Giri, Kapil Dev, Anil Khuttan, Ranjan Gupta, Neeraj Aggarwal, Sanjeev Kumar Gautam (2011) Influence of *GSTMI* and *GSTTI* genotypes and confounding factors on the frequency of Sister Chromatid Exchange and Micronucleus among road construction workers. *Chemosphere*. 84 (5): 564 - 570. **(Impact Factor: 4.21)**
- 2) **Anil Kumar**, Anita Yadav, Shiv Kumar Giri, Kapil Dev, Anil Khuttan, Ranjan Gupta, Neeraj Aggarwal, Sanjeev Kumar Gautam (2011) Effect of genetic polymorphism of *GSTMI* and *GSTTI* genotypes on cytogenetic biomarkers among coaltar workers. *Environ Toxicol Pharmacol*. 32(2): 128 - 135. **(Impact Factor: 2.09)**
- 3) **Anil Kumar**, Anita Yadav , Shiv Kumar Giri, Kapil Dev, Sachin Gulati Sanjeev Kumar Gautam, Ranjan Gupta, Neeraj Aggarwal (2012) Allelic variation of *GSTMI* and *GSTTI* genes in Haryana population. *Genomic Med Biomarkers, Health Sci*. 4, 98 -102.
- 4) **Kumar A** , Yadav A, Giri SK, Dev K, Gulati S, Gautam SK, Gupta R, Aggarwal N (2011) Increased chromosomal aberrations among road construction workers occupationally exposed to polycyclic aromatic hydrocarbons. *Res Bioscientia*. 2: 6 - 12.
- 5) Shiv Kumar Giri, Anita Yadav, **Anil Kumar**, Kapil Dev, Ranjan Gupta, Neeraj Aggarwal, Neena Seth, Sanjeev Kumar Gautam (2011) Association of *GSTMI* and *GSTTI* polymorphisms with DNA damage in coal-tar workers. *Sci. Total Environ*. 409 (20): 4465 – 4469. **(Impact Factor: 4.90)**
- 6) Giri SK, Yadav A, Kumar A et al. (2012) CYP1A1 Gene Polymorphisms: Modulator of Genetic Damage in Coal-Tar Workers. *Asian Pacific J Cancer Prev*, 13, 3409-3416. **(Impact factor: 1.50)**
- 7) Giri SK, Yadav A, Kumar A et al (2013) Polymorphic variation of CYP1A1 and CYP1B1 genes in a Haryana population, *Biochemical genetics* (**Impact factor: 1.54**)
- 8) Dev K, Gautam SK, Giri SK, **Kumar A**, Yadav A, Singh B (2011) Derivation, characterization and differentiation of amniotic fluid stem (AFS) cells in buffalo (*Bubalus bubalis*). *Reprod Dom Anim*. doi: 10.1111/j.1439-0531.2011.01947.x ISSN 0936-6768 **(Impact Factor: 1.4)**
- 9) Dev K, Gautam SK, Giri SK, **Kumar A**, Yadav A, Singh B (2012) Isolation, culturing and characterization of feeder-independent amniotic fluid stem cells in buffalo (*Bubalus bubalis*). *Res Vet Sci*. 93 (2):743 - 748. **(Impact Factor: 1.82)**
- 10) Dev K, Giri SK, **Kumar A**, Yadav A, Singh B, Gautam SK (2012) Expression of Transcriptional Factor Genes (Oct-4, Nanog, and Sox-2) and Embryonic Stem Cell-Like Characters in Placental Membrane of Buffalo (*Bubalus bubalis*). *J Membrane Biol*. 245 (4): 177 - 183. **(Impact Factor: 1.99)**
- 11) Manjit, Anita Yadav, N. K. Aggarwal, Krishan Kumar, **Anil Kumar** (2008) Tannase production by *Aspergillus fumigatus* MA under solid state fermentation. *World J Microb Biotech*. 24 (12): 3023 - 3030. **(Impact Factor: 1.66)**

- 12) Shiv Kumar Giri, Anita Yadav, **Anil Kumar**, Kapil Dev, Ranjan Gupta, Neeraj Aggarwal, Neena Seth, Sanjeev Kumar Gautam (2012) Synergistic effect of *GSTM1* and *CYP1A1-m1 (Msp1)* polymorphisms on DNA damage in coal-tar workers. Int J Recent Adv Pharm Res. 2 (1): 1 – 7. **(Impact Factor: 0.50)**
- 13) Giri SK , Gupta G, **Kumar A**, Dev K, Yadav A, Gautam S K (2011) Testosterone propionate (TP) and cyproterone acetate (CPA) combination for male contraception and spermatogenesis assessment in rat using flowcytometry”. Res Bioscientia 2: 33 - 39.
- 14) Dev K, Gautam SK, Giri SK, **Kumar A**, Yadav A, Singh B (2011) *In vitro* effect of different serum concentration on amniotic fluid-derived stem cells in second gestational age of buffalo (*Bubalus Bubalis*). Indian J Dairy Sci. 64 (2): 137 – 141. **(NAS rating : 4.80)**
- 15) Dev K, Gautam SK, Giri SK, **Kumar A**, Yadav A, Singh B (2011) Putative amniotic fluid stem cells express Oct-4 and FGF-5 genes in buffalo (*Bubalus bubalis*). Indian Buffalo Journal
- 16) Bansal,P., Kaur, P., Surekha., Kumar,A., Duhan JS (2017). Microwave assisted quick synthesis method of silver nanoparticles using citrus hybrid “Kinnow” and its potential against early blight of tomato. Research on Crops. 18(4).
- 17) Bansal,P., Kaur, P., Surekha, Kumar,A., Duhan JS (2017). Biogenesis of silver nanoparticles using *Aspergillus terreus*, its cytotoxicity and potential as therapeutic against human pathogens. RJPBCS. 8(4), 898.