

4. PUBLICATIONS

Publications at a glance

	All	Since 2012
Publications	51	21
Citations	2535	1975
h-index	24	22
i10-index	38	37
Total impact factor	177.677	
Average impact factor	3.702	
Patents	4	
Conference proceedings	79	
Invited Lectures	20	

4.1 Reviewed archival journal publications

1. Alok Dhawan, Neeraj Mathur and Prahlad K. Seth (2001) The effect of smoking and eating habits on DNA damage in Indian population as measured in the comet assay. *Mutation Research, Fundamental and Molecular Mechanisms of Mutagenesis* 474 (1-2) 121-128. **(Work from M.Sc. Dissertation)**
2. Mahima Bajpayee, Alok Dhawan, Devendra Parmar, **Alok Kumar Pandey**, Neeraj Mathur and Prahlad Kishore Seth (2002) Gender related differences in basal DNA damage in lymphocytes of healthy Indian population as revealed by the alkaline Comet assay. *Mutation Research, Genetic Toxicology and Environmental Mutagenesis*, 520 (1-2): 83-91.
3. **Alok K. Pandey**, Mahima Bajpayee, Devendra Parmar, Subodh K. Rastogi, Neeraj Mathur, Prahlad K. Seth and Alok Dhawan (2005) DNA damage in lymphocytes of rural Indian women exposed to biomass fuels as assessed by the comet assay. *Environmental and Molecular Mutagenesis* 45 (5) 435-441.
4. Mahima Bajpayee, **Alok Kumar Pandey**, Devendra Parmar, Neeraj Mathur, Prahlad K. Seth and Alok Dhawan (2005) Comet assay responses in human lymphocytes are not influenced by the menstrual cycle: a study in healthy Indian females. *Mutation Research, Genetic Toxicology and Environmental Mutagenesis* 565 (2): 163-172.
5. Mahima Bajpayee, **Alok K. Pandey**, Devendra Parmar and Alok Dhawan (2005). Current Status of Short Term Tests for Evaluation of Genotoxicity, Mutagenicity and Carcinogenicity of Environmental Chemicals and NCEs. *[REVIEW] Toxicology Mechanisms and Methods* 15: 1-26.

6. **Alok K. Pandey**, Mahima Bajpayee, Devendra Parmar, Subodh K. Rastogi, Neeraj Mathur, Prahlad K. Seth and Alok Dhawan (2006) DNA damage in lymphocytes of Indian rickshaw pullers as measured by the alkaline Comet assay. *Environmental and Molecular Mutagenesis* 47(1): 25-30.
7. Sushila Patel, Alok K. Pandey, Mahima Bajpayee, Devendra Parmar, and Alok Dhawan (2006) Cypermethrin induced DNA damage in organs and tissues of mouse: Evidence by Comet Assay. *Mutation Research* 607(2):176-83.
8. Mahima Bajpayee, **Alok Kumar Pandey**, Sabina Zaidi, Javed Musarrat, Devendra Parmar, Neeraj Mathur, Prahlad Kishore Seth, Alok Dhawan (2006) DNA damage and mutagenicity induced by endosulfan and its metabolites. *Environmental and Molecular Mutagenesis* 47(9):682-692.
9. Alok Dhawan, Julian S. Taurozzi, **Alok K. Pandey**, Wenqian Shan, Sarah M. Miller, Syed A. Hashsham, Volodymyr V. Tarabara (2006) Stable colloidal dispersions of C60 fullerenes in water: Evidence for genotoxicity. *Environmental Science and Technology* 40, 7394-7401
10. Adekunle A. Bakare, **Alok K. Pandey**, Mahima Bajpayee, Devyani Bhargav, D. Kar Chowdhuri, K. P. Singh, R. C. Murthy, Devendra Parmar and Alok Dhawan (2007) DNA damage induced in human peripheral blood lymphocytes by industrial solid waste and municipal sludge leachates. *Environmental and Molecular Mutagenesis* 48(1):30-37
11. Sushila Patel, Mahima Bajpayee, **Alok Kumar Pandey**, Devendra Parmar and Alok Dhawan (2007) In vitro induction of cytotoxicity and DNA strand breaks in CHO cells exposed to Cypermethrin, Pendimethalin and Dichlorvos. *Toxicology in vitro* 21(8):1409-18
12. Alok Dhawan, Mahima Bajpayee, **Alok K. Pandey**, Devendra Parmar (2007) Human biomonitoring studies in the Indian population using the alkaline comet assay. *Environ Mol Mutagen* 48: 620. (abstract)
13. **Alok K. Pandey**, Mahima Bajpayee, Devendra Parmar, Rakesh Kumar, Subodh K. Rastogi, Neeraj Mathur, Paul Thorning, Marcel de Matas, Qun Shao, Diana Anderson and Alok Dhawan (2008) Multipronged evaluation of genotoxicity in Indian petrol-pump workers. *Environmental and Molecular Mutagenesis* 49:695-707.
14. **Alok K. Pandey**, Deepak Gurbani, Mahima Bajpayee, Devendra Parmar, Subhash Ajmani and Alok Dhawan (2009) In silico studies with human DNA topoisomerase-II alpha to unravel the mechanism of in vitro genotoxicity of benzene and its metabolites *Mutation Res Fundamental and Molecular Mechanisms of Mutagenesis* 661:57–70.
15. Amanda B Herzog, S D McLennan, **Alok K Pandey**, Charles P Gerba, C N Haas, Joan B Rose and Syed A Hashsham (2009) Implications of detection limit of various methods for *Bacillus anthracis* in computing risk to human health. *Appl Environ Microbiol.* 75(19):6331-9
16. Poonam Singh, Pushpa Lata, Sushila Patel, **Alok K. Pandey**, Swatantra K. Jain, Rishi Shanker and Alok Dhawan (2011) Expression profiling of toxicity pathway genes by real-

time PCR array in cypermethrin-exposed mouse brain. *Toxicology Mechanisms and Methods* 21(3):193-199.

17. Ritesh K. Shukla, Vyom Sharma, **Alok K. Pandey**, Sashi Singh, Sarvat Sultana and Alok Dhawan (2011) ROS-mediated genotoxicity induced by titanium dioxide nanoparticles in human epidermal cells. *Toxicol In Vitro*. 25(1); 231-241.
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25. Shukla RK, Kumar A, **Pandey AK**, Singh SS, Dhawan A. Titanium dioxide nanoparticles induce oxidative stress-mediated apoptosis in human keratinocyte cells. *J Biomed Nanotechnol*. 2011 Feb;7(1):100-1.
26. Kalmodia S, Sharma V, **Pandey AK**, Dhawan A, Basu B. Cytotoxicity and genotoxicity property of hydroxyapatite-mullite eluates. *J Biomed Nanotechnol*. 2011 Feb;7(1):74-5.
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38. Sushma Kalmodia, Vyom Sharma, **Alok K. Pandey**, Alok Dhawan and Bikramjit Basu, Size and Composition Dependent *In Vitro* Cytotoxicity and Genotoxicity of Hydroxyapatite- Mullite Eluates, *Adv. Sci. Eng. Med.* 2012, Vol. 4, No. 1: 1-13.
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40. Ritesh K. Shukla, Ashutosh Kumar, N.V. Srikanth Vallabani, **Alok K Pandey** and Alok Dhawan, Titanium dioxide nanoparticle induced oxidative stress triggers DNA damage and hepatic injury in mammals. *Nanomedicine* 2014 Jul;9(9):1423-34
41. Nitin Sagar, **Alok K. Pandey**, Deepak Gurbani, Kainat Khan, Dharendra Singh, Bhushan P. Chaudhari, Vivek P. Soni, Naibedya Chattopadhyay, Alok Dhawan, Jayesh R. Bellare, *In-Vivo* Efficacy of Compliant 3D Nano- composite in Critical-Size Bone Defect Repair: a Six Month Preclinical Study in Rabbit. *PLoS ONE* 2013, 8(10): e77578.
42. Sandeep Mittal, **Alok K. Pandey**, Cerium Oxide Nanoparticles Induced Toxicity in Human Lung Cells: Role of ROS Mediated DNA Damage and Apoptosis *BioMed Research International* Volume 2014, Article ID 891934, 14 pages <http://dx.doi.org/10.1155/2014/891934>
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50. Violet Aileen Senapati, Govind Sharan Gupta, Alok Kumar Pandey, Rishi Shanker, Alok Dhawan and Ashutosh Kumar Zinc oxide nanoparticle induced age dependent immunotoxicity in BALB/c mice. **Toxicol. Res.**, 2017, Advance Article DOI: 10.1039/C6TX00439C, Paper **First published online** : 15 Mar 2017
51. Sandeep Mittal, Pradeep Kumar Sharma, Ratnakar Tiwari, Raja Gopal Rayavarapu, Jai Shankar, Lalit Kumar Singh Chauhan, Alok Kumar Pandey, Impaired lysosomal activity mediated autophagic flux disruption by graphite carbon nanofibers induce apoptosis in human lung epithelial cells through oxidative stress and energetic impairment. Particle and Fibre Toxicology 2017

4.2 PATENTS

1. Alok Dhawan, Devendra Parmar, Mahima Bajpayee, **Alok K. Pandey**, Kailash C. Khulbe and Prahlad K. Seth(2004).
A process for the manufacture of twin window slides having low fluorescence and a twin window slide made thereby useful for comet assay.
Patent Appl. No. 1870/DEL/2004.
2. Alok Dhawan, **Alok K. Pandey**, Mahima Bajpayee, Devendra Parmar, Mukul Das and H.O. Misra (2008).
A circular electrophoretic device for separation of charged molecules
Patent Appl. No. 0847DEL2008.
3. Alok Dhawan, H.O. Misra, Alok K. Pandey, Mahima Bajpayee, Devendra Parmar, Mukul Das (2010).
A circular electrophoretic device for separation of charged molecules using a petridish. Singapore Patent Application No.: 165130[WO 2009/122446]
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4.3 Conference proceedings/abstracts

1.	Alok Kumar Pandey , Alok Dhawan, Subodh K. Rastogi, Devendra Parmar, Mahima Bajpayee and Prahlad K. Seth. High incidence of DNA damage in rural women exposed to biomass fuels using alkaline comet assay. Symposium of Environmental Genomics and Health Sciences and XXVII Annual Conference of Environmental Mutagen Society of India, Lucknow, March 19-21, 2002.
2.	Mahima Bajpayee , Alok Dhawan, Devendra Parmar, Alok Kumar Pandey , Neeraj Mathur and P. K. Seth. Gender related differences in basal level of DNA damage in lymphocytes of a healthy Indian population using the alkaline comet assay. Symposium of Environmental Genomics and Health Sciences and XXVII Annual Conference of Environmental Mutagen Society of India, Lucknow, March 19-21, 2002.
3.	Alok Dhawan , Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar and P. K. Seth. Application of the comet assay in assessment of DNA damage in the Indian population. Symposium of Environmental Genomics and Health Sciences and XXVII Annual Conference of Environmental Mutagen Society of India, Lucknow, March 19-21, 2002.
4.	Mahima Bajpayee , Alok Dhawan, Devendra Parmar, Alok Kumar Pandey , Neeraj Mathur and P. K. Seth. Assessment of DNA damage in the lymphocytes of a healthy Indian population using the Alkaline Comet assay. 25 th Anniversary Conference of UK Environmental Mutagen Society, Plymouth, UK, June 30-July 3, 2002.
5.	Mahima Bajpayee , Alok Kumar Pandey , Devendra Parmar, and Alok Dhawan. Various Short-term tests for the assessment of mutagenic and carcinogenic potential of the environmental chemicals. Proceedings at the Short Term Training workshop on Environmental Toxicology and Health Impact Assessment, Jamia Hamdard University, New Delhi, September 23-27, 2002.
6.	Alok Dhawan , Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar and P. K. Seth. Assessment of genomic DNA damage in a healthy Indian population using the alkaline comet assay. National Scientific Conference (Hindi), CDRI, Lucknow, November 14-15, 2002.
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8.	Alok Dhawan , Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar, Neeraj Mathur, S.K. Rastogi and P. K. Seth. Human biomonitoring studies in a healthy Indian population using the alkaline comet assay. Workshop on Comet assay: Applications in Toxicology and molecular epidemiology, Lucknow, February 7-11, 2003.

9.	Alok Kumar Pandey , Alok Dhawan, Mahima Bajpayee, Devendra Parmar, Subodh K. Rastogi, Neeraj Mathur and Prahlad K. Seth. DNA damage in lymphocytes of a healthy Indian population engaged professionally in physical work as measured by the Alkaline Comet assay. Symposium on arsenic contamination in ground water and its health effects and XXVIII Annual Conference of Environmental Mutagen Society of India, IICB, Kolkata, March 14-16, 2003.
10.	Mahima Bajpayee , Alok Dhawan, Devendra Parmar, Alok Kumar Pandey , Neeraj Mathur and Prahlad K. Seth. Assessment of genotoxicity of endosulfan, its isomers and metabolites in the CHO cell line using the alkaline Comet assay. Symposium on arsenic contamination in ground water and its health effects and XXVIII Annual Conference of Environmental Mutagen Society of India, IICB, Kolkata, March 14-16, 2003.
11.	Alok Kumar Pandey , Alok Dhawan, Mahima Bajpayee, Devendra Parmar and Prahlad K. Seth. <i>In vitro, ex vivo and in vivo</i> genotoxicity of hydroquinone. International symposium on Molecular Toxicology and Environmental Health, Lucknow, November 5-8, 2003.
12.	Alok Kumar Pandey , Alok Dhawan, Mahima Bajpayee, Devendra Parmar and Prahlad K. Seth, <i>In vitro, ex vivo and in vivo</i> genotoxicity of hydroquinone. International symposium on Molecular Toxicology and Environmental Health, Lucknow, November 5-8, 2003.
13.	Mahima Bajpayee , Alok Dhawan, Alok Kumar Pandey , Devendra Parmar, Neeraj Mathur and Prahlad K. Seth, Estrogen levels do not affect the comet assay responses in human lymphocytes: a study in healthy Indian females. International symposium on Molecular Toxicology and Environmental Health, Lucknow, November 5-8, 2003.
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15.	Alok Dhawan , Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar, Neeraj Mathur, S.K. Rastogi and P. K. Seth, Monitoring human genotoxicity using comet assay. Workshop on Current Techniques in Genetic Toxicology, Lucknow, December 1-15, 2004.
16.	Alok Dhawan , Sushila Patel, Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar and Prahlad K. Seth, Multiple organ genotoxicity in mouse: A Comet assay perspective. Workshop on Current Techniques in Genetic Toxicology, Lucknow, December 1-15, 2004.
17.	Sushila Patel , Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar Prahlad K. Seth and Alok Dhawan, Evidence for cypermethrin induced DNA damage in multiple mouse organs. International Symposium on Diet in Causation & Prevention of Cancer and XXXth Annual Conference of Environmental Mutagen Society of India, Lucknow. March 17-19, 2005.
18.	Alok Kumar Pandey , Mahima Bajpayee, Devendra Parmar and Alok Dhawan, DNA damage and micronucleus induction by benzene and its metabolites using Comet assay and flow cytometry. XXIX All India Cell Biology Conference & Symposium on Gene to Genome: Environment & Chemical Interaction", Lucknow, 18-20 January 2006.

19.	<u>Mahima Bajpayee</u> , Alok Kumar Pandey , Devendra Parmar, Prahlad K Seth and Alok Dhawan, Thiamine ameliorates lead induced genotoxicity <i>in vivo</i> . XXIX All India Cell Biology Conference & Symposium on Gene to Genome: Environment & Chemical Interaction”, Lucknow, 18-20 January 2006.
20.	<u>Adekunle A. Bakare</u> , Alok Kumar Pandey , Mahima Bajpayee, D. Kar Chowdhuri and Alok Dhawan, Genotoxicity evaluation of industrial solid waste leachates in human peripheral blood lymphocytes using the comet assay. XXIX All India Cell Biology Conference & Symposium on Gene to Genome: Environment & Chemical Interaction”, Lucknow, 18-20 January 2006.
21.	Alok Kumar Pandey , Mahima Bajpayee, Devendra Parmar and Alok Dhawan, DNA damage and micronucleus induction by benzene and its metabolites in mice. (Oral presentation) XXXI Annual Conference of Environmental Mutagen Society of India (EMSI) & International Symposium on Environmental Mutagenesis and Public Health, Hyderabad, February 23-25, 2006.
22.	<u>Adekunle A. Bakare</u> , Alok Kumar Pandey , Mahima Bajpayee, Devendra Parmar, D. Kar Chowdhuri and Alok Dhawan, DNA damage induced by industrial solid waste and municipal sludge leachates in human peripheral blood lymphocytes. (Oral presentation). XXXI Annual Conference of Environmental Mutagen Society of India (EMSI) & International Symposium on Environmental Mutagenesis and Public Health, Hyderabad, February 23-25, 2006.
23.	<u>Alok Dhawan</u> , Mahima Bajpayee, Alok Kumar Pandey , Devendra Parmar, Neeraj Mathur, S.K. Rastogi and P. K. Seth, Monitoring Human Genotoxicity in Indian Population using Comet Assay. XXXI Annual Conference of Environmental Mutagen Society of India (EMSI) & International Symposium on Environmental Mutagenesis and Public Health, Hyderabad, February 23-25, 2006.
24.	<u>Alok Dhawan</u> , Julian S. Taurozzi, Alok K. Pandey , Wenqian Shan, Sarah M. Miller, Syed A. Hashsham, and Volodymyr V. Tarabara. 2006. Stable Colloidal Dispersions of C60 Fullerenes in Water: Evidence for Genotoxicity. The 2006 AIChE Annual Meeting, November 12-17, 2006, San Francisco.
25.	Alok K. Pandey , Amanda B. Herzog, Joan B. Rose and Syed A. Hashsham, Potential of quantum dots as surrogates for microbial pathogens and evaluation of their genotoxicity. 107 th General Meeting of American Society for Microbiology, Toronto, Ontario, Canada, May 21-25, 2007.
26.	<u>Amanda B. Herzog</u> , Alok K. Pandey , Tomoyuki Shibata, Joan B. Rose and Syed A. Hashsham, Implications of detection limit of various methods for <i>bacillus anthracis</i> in computing risk to human health. 107 th General Meeting of American Society for Microbiology, Toronto, Ontario, Canada, May 21-25, 2007.
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	Maryland, April 8 – 10, 2008.
29.	<u>Amanda B. Herzog</u> , Alok K. Pandey , Prianca Bhaduri, Charles P. Gerba 2, Joan B. Rose, and Syed A. Hashsham, Evaluation of Recovery Efficiency and Survival of Bacteriophage P22 and Bacillus thuringiensis on Fomites, Conference on 'Microbiology Methods for Education and Exploration' and Fall Meeting of Michigan Branch of American Society for Microbiology, October 8-9, 2010, Michigan State University.
30	Alok K. Pandey , S. Mittal, S. Kulshrestha, N.V. Srikanth Vallabani and A. Dhawan cyto- and geno- toxic potential of carbon nanomaterials in human lung cells. (Oral Presentation). International Conference on Occupational and Environmental Health (ICEOH 2011) and the Workshop 'Biomarkers & Human Exposure to Nanoparticles' – European Project NanoLINEN, October 17-19, 2011. Porto, Portugal.
31	Vyom Sharma, Ritesh K. Shukla, Alok K. Pandey , Rishi Shanker, <u>Alok Dhawan</u> . Metal oxide nanoparticles elicit Genotoxic responses in mammalian cells. (Oral Presentation). International Conference on Occupational and Environmental Health (ICEOH 2011) and the Workshop 'Biomarkers & Human Exposure to Nanoparticles' – European Project NanoLINEN, October 17-19, 2011. Porto, Portugal.
32	<u>Deepak Gurbani</u> , Santosh Kumar Bharti, Ashutosh Kumar, Alok K. Pandey , Ambrish Verma, Altaf Husain Khan, Devendra K. Patel, M.K.R. Mudiam, Swatantra K. Jain, Raja Roy, Alok Dhawan. 'Polycyclic aromatic hydrocarbons and their quinones modulate the metabolic profile and induce DNA damage in human alveolar and bronchiolar cells. (Oral Presentation) International Conference on Occupational and Environmental Health (ICEOH 2011) and the Workshop 'Biomarkers & Human Exposure to Nanoparticles' – European Project NanoLINEN, October 17-19, 2011. Porto, Portugal.
33	Alok K. Pandey , Sandeep Mittal, N. V. Srikanth Vallabani, Ritesh K. Shukla, Veeresh Kumar, Renu Pasricha, and Alok Dhawan, In vitro toxicity of different graphite nanomaterials in human lung cells. "EU-India S&T Coop Days"_December 1-2, 2011, Vienna, Austria.
34	<u>Swati Kulshrestha</u> , Sandeep Mittal, N. V. Srikanth V., Alok Dhawan and Alok K. Pandey . Comparative analysis of carbon nanotubes induced genotoxicity in human lung epithelial (A549) cells. XXXI Annual Conference of STOX, December 22-24, 2011, Jaipur.
35	<u>Sandeep Mittal</u> , Swati Kulshrestha, Alok Dhawan and Alok K. Pandey . Oxidative stress induced by Cerium oxide nanoparticles leads to DNA damage and apoptosis in human lung epithelial cells. XXXI Annual Conference of STOX, December 22-24, 2011, Jaipur.
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