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Designation: Scientist F Gr. IV (5) & Deputy Director
Date of Birth: 1st December 1963 (01-12-1963)
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Indian Institute of Toxicology Research,
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Educational Qualifications:

Degree	Year	Subjects	University
B.Sc.	1981	Zoology, Botany, Geology	Lucknow University, Lucknow, India
M.Sc.	1983	Zoology	Lucknow University, Lucknow, India
Ph.D.*	1988	Zoology	Meerut University, Meerut, India

* Title of Ph.D. Thesis: *Histopathological and histochemical study of the lesions induced by chemical carcinogens and co-carcinogens in experimental animals.*

Post Held:

Jan. 2006 - till date	<i>Scientist F (Deputy Director)</i> , Indian Institute of Toxicology Research, Lucknow
Jan. 2001 - Jan. 2006	<i>Scientist `EII</i> , Indian Institute of Toxicology Research, Lucknow
Jan. 1996 - Jan. 2001	<i>Scientist `EI</i> , Indian Institute of Toxicology Research, Lucknow
Jan. 1991 - Jan. 1996	<i>Scientist `C</i> Indian Institute of Toxicology Research, Lucknow
Jan. 1989 - June 1991	<i>Scientist Fellow</i> , Indian Institute of Toxicology Research, Lucknow
June 1988 - Jan. 1989	<i>Post Doctoral Research Fellow</i> , Indian Institute of Toxicology Research, Lucknow
March 1986 - June 1988	<i>Senior Research Fellow</i> , Indian Institute of Toxicology Research, Lucknow
March 1984 - March 1986	<i>Junior Research Fellow</i> , Indian Institute of Toxicology Research, Lucknow

Honours & Awards:

Published cover page articles in highest ranking journal of toxicology, Toxicology & Applied Pharmacology in Feb. 2005 and Jan. 2008.

- Top Cited Research Paper Published in 2008 (Life Sciences, 82; 348-58)
- Top Downloaded paper of Elsevier in 2008 (Food & Chemical Toxicology; 45, 683-690)
- Best Young Scientist of the Indian Institute of Toxicology Research (IITR), Lucknow for the year 1987 - 1988
- Fellowship of the International Agency for Research on Cancer, Lyon, France and National Institute of Environmental Health Studies, USA (1988)
- Awarded by the Indian Society of Health, Environment, Education and Research, for contributions in field of Cancer Chemoprevention (2002)
- Selected Fellow of Society of Toxicology of India (2002)
- Elected Member of National Academy of Medical Sciences (MNAMS), New Delhi
- Elected Member of National Academy of Sciences (MNASc), Allahabad
- Elected General Secretary, Environmental Mutagen Society of India
- Elected General Secretary, Society of Toxicology, India
- Elected Member, International Society of Tea Sciences

Present Assignments:

- Proteomics Prospects in Evaluation of Toxic/Carcinogenic Potential of Pesticides
- Plasma Proteomics for Novel Biomarker Development Against Specific Cancer Types
- Evaluation and Intervention of Genotoxic Potential of Pesticides via Gene Silencing

- Nutritional Genomics and Proteomics in Cancer Chemoprevention
- Studies on Genotoxic Potential of Environmental Pollutants.
- Expression and Repression Studies on Oncogenes during Experimental Carcinogenesis and Chemoprevention.

Overseas Assignments:

1988 (France): International Agency for Research on Cancer Lyon, France: Received training on Design and Analysis of Long Term Animals Carcinogenicity Experiments from NIEHS (USA). The knowledge gained at IARC was successfully implemented in our institute as reflected from the papers published afterwards.

1996 (Germany): Worked as Guest Scientist in CSIR-GSF Collaborative Project on Mathematical Modelling and Induction of Altered Hepatic Foci during Hepatocarcinogenesis, Institute of Toxicology, Tubingen University, Tubingen, Germany. The techniques for image analysis and evaluation of precancerous stages were learned and established at IITR. The manpower was trained in this area in IITR as well as in other CSIR and ICMR labs. Still providing the central facility for image analysis at IITR.

2001 (USA): Received advanced training on Flow Cytometric Applications at BD Application Centre, San Jose, California, USA from March 16-26, 2001. The facility and expertise for flow cytometry was established at IITR. About 35-40 persons were trained at our facility from different CSIR, ICMR, DBT institutes and other R&D centres. Running a Central facility for flow cytometry at IITR.

2003 (Thailand): Attended a symposium on *In Vivo* Models for Assessment of Carcinogenicity and Chemopreventive Potential of Food Components' organized by Asian Pacific Organization for Cancer Prevention at Bangkok, from Nov. 13-15, 2003.

2004 (USA) Worked as Visiting Associate Professor in the Department of Dermatology, Wisconsin University, Madison (WI), USA from June-September 2004. During this assignment I worked on the role of cell cycle regulatory genes in cancer chemoprevention and siRNA using in vivo and in vitro models.

2005 (USA) Worked as Visiting Associate Professor in the Department of Dermatology, Wisconsin University, Madison (WI), USA from September-December 2005. During this visit I worked on the role of NF kappa B and its associated molecules in tea polyphenols induced chemoprevention in transgenic mouse model for prostate cancer (TRAMP).

2008 (Holland) Participate in Human Proteome Organization Congress 2008, at Amsterdam from August 16-20, 2008.

2010 (Denmark) To deliver the invited talk in Resveratrol 2010 and as a member working group on Resveratrol at Copenhagen from September 11-17.

2010 (Australia) Participate in Human Proteome Organization Congress 2010, at Sydney from September 19-27, 2010.

2011(South Korea) To deliver the invited talk in NAPA 2011, at Seoul from February 15-18.

2011 (USA) Worked as Visiting Associate Professor in the Department of Dermatology, Wisconsin University, Madison (WI), USA from July-September 2011.

Scientific Conferences Organized (Major):

- **Joint Secretary** in Second International Congress of Toxicology in Developing Countries held at New Delhi in 1991
- **Joint Secretary** in International Conference on Environmental & Occupational Respiratory Diseases held at Lucknow in 2000
- **Organizing Secretary** of Symposium on Environmental Genomics & Health Sciences and XXVII Annual Conference of Environmental Mutagen Society of India (EMSI) held at IITR, Lucknow from March 19-21, 2002
- **Organizing Secretary** of Workshop on Advancement in Application of Flow Cytometry held at IITR, Lucknow from October 21-23, 2002
- **Organizing Secretary**, International Symposium on diet in causation and Prevention of Cancer & XXX Annual Conference of Environmental Mutagen Society of India, from March 17-19, 2005
- **Organizing Secretary** of Indo-US Conference on Medical Education and Public Health held at Lucknow from April 7-8, 2005

Ph.D./M.D/P.G. Supervised: Seventy Three

Editor, Member Editorial Board, Reviewer in Peer reviewed Journals:

Member Editorial Board: Cancer Letters (Elsevier)
Proteomics (Willey)
Journal of Proteomics (Elsevier)
Tumor Biomarkers (Springer)
Journal of Proteomics and Bioinformatics (Omics Publishing Group)
Asia-Pacific Journal of Cancer Prevention (APOCP)

- Apoptosis
- Asian Pacific Journal of Cancer Chemoprevention
- BBRC
- Cancer Letters
- Carcinogenesis

- Environmental Research
- European Journal of Clinical Nutrition
- Indian Journal of Experimental Biology
- Indian Journal of Medical Research
- Journal of Pharmacology Research
- Journal of Pharmacology Research (USA)
- Journal of Photochemistry & Photobiology
- Journal of Psychosomatic Research
- Mutation Research
- Nutrition and Cancer
- Toxicology & Applied Pharmacology
- Toxicology International

Membership of National & International Bodies:

National:

SI No.	Name of the Society	Position
1.	Indian Association for Cancer Research	Life Member
2.	Proteomic Society (India)	Council Member
3.	Society of Toxicology	General Secretary (Former)
4.	Environmental Mutagen Society of India	General Secretary (Former)
5.	National Academy of Medical Sciences	Member
6.	National academy of Sciences (Allahabad)	Member
7.	Society of Biochemists, India	Life Member

International:

SI No.	Name of the Society	Position
1.	American Association for Cancer Research	Member
2.	International Society of Tea Sciences	EC Member
3.	The New York Academy of Sciences	Member

Books/Book chapters:

1. 'Molecular Signatures of Infectious Agents: Application in human cancer control' in: Nova Science Publisher. (Ed. Helen C Krisstoff) Singh M, Srivastava AK and **Shukla Y**, (2010).

2. 'Molecular targets and therapeutic uses of Ginger (6-Gingerol)' in: Molecular Targets and Therapeutic Uses of Spices: Modern Uses of Ancient Medicine, Nigam N, George J and **Shukla Y**, World Scientific Public Co-operation Ltd. (2010) pp 225-256.
3. 'Molecular Signatures of Infectious Agents: Application in human cancer control' in: Nova Science Publisher. (Ed. Helen C Kriststoff) Singh M, Srivastava AK and **Shukla Y**, (2010) (In Press).
4. 'Cancer chemopreventive effects of black tea' Economic Crisis of Tea industry. **Shukla Y**, George J and Nigam N, Stadium Press, LLC, USA (2008) pp 286-295.
5. 'Hepatoprotective Properties of Tea' Protective Effects of Tea On Human Health. (Eds. NK Jain, M Siddiqui and Weisbergur) **Shukla Y**, Kalra N and Gupta YK, CABI (2006) pp. 120-130.
6. 'Antidiabetic Effects of Tea and Its Constituents' Protective Effects Of Tea On Human Health. (Eds. NK Jain, M Siddiqui and Welsbergur) Gupta YK, Tripathi C and **Shukla Y**, CABI (2006) pp. 102-108.
7. 'Antigenotoxic Activity of Tea' in Protective Effects of Tea on Human Health. (Eds. NK Jain, M Siddiqui and Welsbergur) **Shukla Y** and Arora A, CABI (2006) pp. 45-57.
8. 'Resveratrol as a Radioprotective Agent', **Shukla Y**, Shaw SR and Ahmed N, (Eds. DB Aggrawal and Shishir Shishodhia) Taylor & Francis Publications (2005) pp. 431-438.
9. 'Beneficial Health Effects of Black Tea: Increasing Evidences' in Medicinal Properties of Tea. (Eds. B Banerjee and TC Chaudhary) **Shukla Y**, Pal SK, Arora A, Kalra N and Gupta YK, Oxford & Eivich Publishing Company Pvt. Ltd. (2005) pp. 49-73.
10. 'Carcinogenicity and Mutagenicity of Synthetic Pyrethroids' (Eds. Prof. PK Seth and Dr. Y Shukla) **Shukla Y** and Arora A, (2002).
11. 'Antigenotoxic Potential of Tea' in International Journal of Tea Science (Ed. Prof NK Jain) **Shukla Y**, and Arora A, (2002).
12. 'Chemicals, Drugs and Plants Induced Carcinogenicity' in Veterinary Toxicology (Ed. SK Garg) **Shukla Y**, (2000).
13. 'Anticarcinogenic effects of indole-3-carbinol' XVII STOX Conference, Dec. 22-24, Tirupati, **Shukla Y** and Srivastava B, (1998) pp 10-15.
14. 'Carcinogenic, cocarcinogenic and teratogenic activity of a carbamate fungicide mancozeb' in Environmental Carcinogens and Mutagen Society, Vol. 2 (Eds. PS Chauhan and SB Chapekar) Mehrotra NK, **Shukla Y** and Anwer J, (1996).
15. Criteria and present status of the carcinogenicity of some selected pesticides in experimental animals: A brief review' in Pesticides Development and Safety (Eds. RB Raizada and TSS Dikshit) IITR, Mehrotra NK, **Shukla Y**, Kumar S, Antony M and Gupta KP, (1992) pp 43 52.
16. Carcinogenic Effects of Pesticides in Animals' By Mehrotra NK, Kumar S and **Shukla Y** (1991) 165 pages.

List of Publications in Peer Reviewed Journals:

2011

1. Pesticides and cancer: Insights into toxicoproteomic-based findings. *Journal of Proteomics*. 2011 (In Press). George J, **Shukla Y**.
2. Cypermethrin exposure leads to regulation of proteins expression involved in neoplastic transformation in mouse skin. *Proteomics*. 2011(In Press). George J, Srivastava A, Singh R, **Shukla Y**.
3. Resveratrol and black tea polyphenol combination synergistically suppress mouse skin tumors growth by inhibition of activated MAPKs, p53 and reduced cell proliferation. *Plos One*. Vol. 6(8):e23395 (2011). George J, Singh M, Srivastava AK, Bhui K, Roy P, Chaturvedi PK, **Shukla Y**.
4. Polyethylenimine-polyethyleneglycol-bis(aminoethylphosphate) nanoparticles mediated efficient DNA and siRNA transfection in mammalian cells. *Soft Matter* (7): 6103-6112 (2011). Patnaik S, Tripathi SK, Goyal R, Arora A, Mitra K, Villaverde A, Vázquez E, **Shukla Y**, Kumar P, Gupta KC.
5. Combinatorial strategies employing nutraceuticals for cancer development. *Annals of Newyork Academy of Sciences* Vol. 1229(1):162-75 (2011). **Shukla Y** and George J.
6. What is new for an old molecule? Systematic review and recommendations on the use of resveratrol. *PLoS One*. Vol. 6(6):e19881 (2011). Vang O, Ahmad N, Baile CA, Baur JA, Brown K, Csiszar A, Das DK, Delmas D, Gottfried C, Lin HY, Ma QY, Mukhopadhyay P, Nalini N, Pezzuto JM, Richard T, **Shukla Y**, Surh YJ, Szekeres T, Szkudelski T, Walle T, Wu JM.
7. 1,4-Butanediol diglycidyl ether (BDE)-crosslinked PEI-g-imidazole nanoparticles as nucleic acid-carriers in vitro and in vivo. *Molecular Biosystems*. Vol. 7(6):2055-65 (2011) Goyal R, Bansal R, Tyagi S, Kumar P, Gupta KC, **Shukla Y**.
8. Enhancement of cancer chemosensitization potential of cisplatin by tea polyphenols poly(lactide-co-glycolide) nanoparticles. *Journal of Biomedical Nanotechnology*. Vol. 7(1):202 (2011) Singh M, Bhatnagar P, Srivastava AK, Kumar P, Gupta KC, **Shukla Y**.
9. In vitro and in vivo evaluation of linear polyethylenimine nanoparticles. *Journal of Biomedical Nanotechnology*. Vol. 7(1):52-3 (2011). Goyal R, Tripathi SK, Tyagi S, Sharma A, Kumar P, Ram KR, Chowdhuri DK, Gupta KC, **Shukla Y**.
10. Gellan gum blended PEI nanocomposites as gene delivery agents: Evidences from in vitro and in vivo studies. *European Journal of Pharmaceutics and Biopharmaceutics*. Vol. 7(1):38-9 (2011). Goyal R, Tripathi SK, Tyagi S, Ravi Ram K, Ansari KM, **Shukla Y**, Kar Chowdhuri D, Kumar P, Gupta KC.
11. Synergistic growth inhibition of mouse skin tumors by pomegranate fruit extract and diallyl sulfide: Evidence for inhibition of activated MAPKs/NF- κ B and reduced cell proliferation. *Food and Chemical Toxicology*. Vol. 49(7):1511-20 (2011). George J, Singh M, Srivastava AK, Bhui K, **Shukla Y**.
12. Bromelain inhibits nuclear factor kappa-B translocation, driving human epidermoid carcinoma A431 and melanoma A375 cells through G(2) /M arrest to

- apoptosis. **Molecular Carcinogenesis** 2011 (In Press). Bhui K, Tyagi S, Srivastava AK, Singh M, Roy P, Singh R, **Shukla Y**.
13. Neoplastic alterations induced in mammalian skin following mancozeb exposure using *in vivo* and *in vitro* models. **Journal of Omics**. Vol. 15(3):155-67 (2011). Tyagi S, George J, Singh R, Bhui K and **Shukla Y**.
 14. New strategies in cancer chemoprevention by phytochemicals. **Frontiers in Biosciences**. 2011 (In Press). Singh M, Singh P and **Shukla Y**.
 15. Tea polyphenols induce apoptosis through mitochondrial pathway and by inhibiting nuclear factor kappa B and Akt activation in human cervical cancer cells. **Oncology Research** Vol. 19(6):245-57(2011). Singh M, Singh R, Bhui K, Tyagi S, Mahmood Z and **Shukla Y**.
 16. Inhibitory effects of tea polyphenols by targeting cyclooxygenase-2 through regulation of nuclear factor kappa B, Akt and p53 in rat mammary tumors. **Investigational New Drugs** Vol. 29(2):225-31(2011). Roy P., George J., Srivastava S., Tyagi S., **Shukla Y**.
 17. Resveratrol and cellular mechanisms of cancer prevention. **Annals of New York Academy of Sciences**, Vol. 1215(1):1-8 (2011). **Shukla Y** and Singh R.
 18. Linear PEI nanoparticles: efficient pDNA/siRNA carriers in vitro and in vivo. **Nanomedicine** 2011 (In Press). Goyal R, Tripathi SK, Tyagi S, Sharma A, Ram KR, Chowdhuri DK, **Shukla Y**, Kumar P, Gupta KC.
 19. Goyal R, Tripathi SK, Tyagi S, Ram KR, Ansari KM, Kumar P, **Shukla Y**, Chowdhuri DK, Gupta KC. Gellan gum-PEI nanocomposites as efficient gene delivery agents. **Journal of Biomedical Nanotechnology** Vol. 7(1):38-9 (2011).

2010

1. Genotoxic and carcinogenic risk associated with the consumption of repeatedly boiled Sunflower oil. **Journal of Agricultural and Food Chemistry** (2010) (In Press) Srivastava S., Singh M., George J., Bhui K., and **Shukla Y**.
2. Pineapple bromelain induces autophagy, facilitating apoptotic response in mammary carcinoma cells. **BioFactors**, Vol 36(6):474-82 (2010) Bhui K, Tyagi S, Prakash B and **Shukla Y**.
3. Genotoxic & carcinogenic risks associated with the dietary consumption of repeatedly heated coconut oil. **British Journal of Nutrition**, Vol 104(9):1343-52(2010) Srivastava S, Singh M, George J, Bhui K, Saxena A and **Shukla Y**.
4. Polo-like kinase 1 (plk1) knockdown enhances cisplatin chemosensitivity via up-regulation of p73 α in p53 mutant human epidermoid squamous carcinoma cells. **Biochemical Pharmacology**, Vol 80 (9) 1326-1334 (2010) Tyagi S, Bhui K, Singh R, Singh M, Sheikh R and **Shukla Y**.
5. Toxicoproteomics: new paradigms in toxicology research. **Toxicology Mechanisms and Methods**, Vol 20 (7) 415-423 (2010) George J., Singh R., Mahmood Z., and **Shukla Y**.

6. Role of senescence and mitotic catastrophe in cancer therapy. **Cell Division**, Vol. 5, 4 (2010) Singh R, George J and **Shukla Y.**
7. Studies on glyphosate-induced carcinogenicity in mouse skin: a proteomic approach. **Journal of Proteomics**, Vol. 73(5), 951-964 (2010) George J, Prasad S, Mahmood Z and **Shukla Y.**
8. Death receptors: target for cancer therapy. **Experimental Cell Research**, Vol 316 (6) 887-899 (2010) Mahmood Z and **Shukla Y.**
9. Identification of polycyclic aromatic hydrocarbons in unleaded petrol and diesel exhaust emission. **Environmental Monitoring Assessment** Vol 168 (1-4) 173-178, (2010) Yadav VK, Prasad S, Patel DK, Khan AH, Tripathi M and **Shukla Y.**
10. Induction of apoptosis by [6]-gingerol associated with the modulation of p53 and involvement of mitochondrial signaling pathway in B[a]P-induced mouse skin tumorigenesis. **Cancer Chemotherapy and Pharmacology** Vol. 65(4):687-96(2010). Nigam N, George J, Srivastava S, Roy P, Bhui K, Singh M, **Shukla Y.**
11. Regulation of cell growth through cell cycle arrest and apoptosis in HPV 16 positive human cervical cancer cells by tea polyphenols. **Investigational New Drugs**, Vol. 28(3):216-24 (2010) Singh M, Tyagi S, Bhui K, Prasad S and **Shukla Y.**
12. Tea polyphenols inhibit cyclooxygenase-2 expression and block activation of nuclear factor-kappa B and Akt in diethylnitrosoamine induced lung tumors in Swiss mice. **Investigational New Drugs**, 2010 Vol. 28(4):466-71 Roy P, Nigam N, Singh M, George J, Srivastava S, Naqvi SHN and **Shukla Y.**

2009

13. Regulation of cell signaling molecules by natural compounds: chemopreventive and chemotherapeutic approach. **Cancer Therapy**, Vol 7, 67-87 (2009) Prasad S, Taneja P, George J and **Shukla Y.**
14. Co-expression of p53 and bcl-2 proteins in human papilloma virus induced premalignant lesions of utrine cervix: correlation with progression to malignancy. **Tumor Biology**, Vol. 30 (5-6), 276-285 (2009) Singh M, Srivastava S, Singh U, Mathur N and **Shukla Y.**
15. Induction of apoptosis by tea polyphenols mediated through mitochondrial cell death pathway in mouse skin tumors. **Cancer Biology and Therapy**, Vol. 8 (13), 1281-1287 (2009) Roy P, Nigam N, George J, Srivastava S and **Shukla Y.**
16. Induction of apoptosis by lupeol in human epidermoid carcinoma A431 cells through regulation of mitochondrial, Akt/PKB and NF-kappaB signaling pathways. **Cancer Biology and Therapy**, Vol. 8 (17), 1632-1639 (2009) Prasad S, Madan E, Nigam N, Roy P, George J, and **Shukla Y.**
17. [6]-Gingerol induces reactive oxygen species regulated mitochondrial cell death pathway in human epidermoid carcinoma A431 cells. **Chemico-Biological**

- Interactions*, Vol. 181(1), 77-84 (2009) Nigam N, Bhui K, Prasad S, George J and **Shukla Y.**
18. Resveratrol enhances ultraviolet B-induced cell death through nuclear factor-kappaB pathway in human epidermoid carcinoma A431 cells. *Biochemical Biophysical Research Communication*, Vol. 384 (2), 215-220 (2009) Roy P, Kalra N, Nigam N, George J, Ray RS, Hans RK, Prasad S and **Shukla Y.**
19. Bromelain inhibits Cox-2 expression by blocking the activation of MAPK regulated NF:Kappa B and triggers mitochondrial death pathway in mouse skin tumors. *Cancer Letters*, Vol. 282 (2), 167-176 (2009) Bhui K, Prasad S, George J and **Shukla Y.**
20. Clastogenic effects of glyphosate in bone marrow cells of swiss albino mice. *Journal of Toxicology*, Vol. 2009, 308985 (2009) Prasad S, Srivastava S, Singh M and **Shukla Y.**
21. Regulation of cell signaling molecules by natural compounds: chemopreventive and chemotherapeutic approach. *Cancer Therapy*. Vol.7, 467-487 (2009) Prasad S, Taneja P, George J and **Shukla Y.**
22. Lupeol induces p53 and cyclin-B-mediated G2/M arrest and targets apoptosis through activation of caspase in mouse skin. *Biochemical Biophysical Research Communications*, Vol. 381 (2), 253-258 (2009) Nigam N, Prasad S, George J and **Shukla Y.**
23. Chemopreventive potential of resveratrol in mouse skin tumors through regulation of mitochondrial and PI3K/AKT signaling pathways. *Pharmaceutical Research*, Vol. 26 (1), 211-217 (2009) Roy P, Kalra N, Prasad S, George J and **Shukla Y.**

2008

24. Inhibitory effect of tea polyphenols on hepatic preneoplastic foci in Wistar rats. *Investigational New Drugs*, (Epub 2008 PMID: 19057850) Srivastava S, Singh M, Roy P, Prasad S, George J and **Shukla Y.**
25. Application of proteomics techniques in cancer research. *Cancer Therapy*, Vol. 6, 841-856 (2008) Roy P and **Shukla Y.**
26. Regulation of apoptosis by resveratrol through JAK/STAT and mitochondria mediated pathway in human epidermoid carcinoma A431 cells. *Biochemical and Biophysical Research Communications*, Vol. 377,1232-1237 (2008) Madan E, Prasad S, Roy P, George J and **Shukla Y.**
27. Tea: age-old beverage as an effective cancer chemopreventive agent. *Oncology Reviews*, Vol. 1, 243-252 (2008) George J, Nigam N and **Shukla Y.**
28. Prognostic factors of male breast cancer: proteomic approaches for early detection and treatment. *Journal of Proteomics & Bioinformatics*, Vol. 1,112-

- 127 (2008) George J and **Shukla Y.**
29. Correlation of phthalate exposures with semen quality. **Toxicology and Applied Pharmacology**, Vol. 231(1), 112-116 (2008) Pant N, Shukla M, Kumar Patel D, **Shukla Y**, Mathur N, Kumar Gupta Y and Saxena DK.
30. Correlation of DNA ploidy with progression of cervical cancer. **Journal of Cancer Epidemiology**. 2008:298495 (2008) Singh M., Mehrotra S., Kalra N., Singh U. and **Shukla Y.**
31. Protective effects of lupeol and mango extract against androgen induced oxidative stress in Swiss albino mice. **Asian Journal of Andrology**, Vol. 10(2), 313-318 (2008) Prasad S, Kalra N, Singh M and **Shukla Y.**
32. Regulation of Signaling pathways involved in lupeol induced inhibition of proliferation and induction of apoptosis in human prostate cancer cells. **Molecular Carcinogenesis**, Vol. 47(12), 916-924 (2008) Prasad S, Nigam N, Kalra N, **Shukla Y.**
33. Regulation of oxidative stress mediated apoptosis by diallyl sulfide in DMBA exposed Swiss albino mice. **Human and Experimental Toxicology**, Vol. 27 (1), 55-63 (2008) Prasad S, Kalra N, Srivastava S, **Shukla Y.**
34. Lupeol: connotations for chemoprevention. **Cancer Letters**, Vol. 263(1), 1-13 (2008) Chaturvedi PK, Bhui K, **Shukla Y.**
35. Suppression of NFkappaB and its Regulated Gene Products by Oral administration of Green Tea Polyphenols in an Autochthonous Mouse Prostate Cancer Model. **Pharmaceutical Research**, Vol. 25(9), 2135-2142 (2008) Siddiqui IA, **Shukla Y**, Adhami VM, Sarfaraz S, Asim M, Hafeez BB, Mukhtar H.
36. Regulation of p53, nuclear factor kappaB and cyclooxygenase-2 expression by bromelain through targeting mitogen-activated protein kinase pathway in mouse skin. **Toxicology and Applied Pharmacology**, Vol. 226(1), 30-37 (2008) Kalra N, Bhui K, Roy P, Srivastava S, George J, Prasad S and **Shukla Y.**

2007

37. Resveratrol induces apoptosis involving mitochondrial pathways in mouse skin tumorigenesis. **Life Sciences**, Vol. 82(7-8), 348-358 (2007) Kalra N, Roy P, Prasad S, **Shukla Y.**
38. Induction of apoptosis by lupeol and mango extract in mouse prostate and LNCaP cells. **Nutrition and Cancer**, Vol. 60 (1), 120-130 (2007) Prasad S, Kalra N and **Shukla Y.**
39. In vitro and in vivo modulation of testosterone mediated alterations in apoptosis related proteins by [6]-gingerol. **Molecular Nutrition and Food Research**, Vol. 51(12), 1492-502 (2007) **Shukla Y**, Prasad S, Tripathi C, Singh M, George J and Kalra N.
40. Tea and cancer chemoprevention: a comprehensive review. **Asia Pacific Journal of Cancer Prevention**, Vol. 8(2), 155-166 (2007) **Shukla Y.**

41. Theaflavins induces G2/M arrest by modulating expression of p2^{1waf1/cip1}, cdc25C and cyclin B in human prostate carcinoma PC-3 cells. **Life Sciences**, Vol. 81(17-18), 1323-1331 (2007) Prasad S, Kaur J, Roy P, Kalra N and **Shukla Y**.
42. Protective effect of *Ocimum sanctum* on 3-methylcholanthrene, 7,12-dimethylbenzanthracene and aflatoxin B1 induced skin tumorigenesis in mice. **Toxicology and Applied Pharmacology**, Vol. 224(3), 228-240 (2007) Rastogi S, **Shukla Y**, Paul BN, Karchowdhry D, Khanna SK and Das M.
43. Potential of diallyl sulfide bearing pH sensitive liposomes in chemoprevention against DMBA induced skin papilloma. **Molecular Medicine**, Vol. 13(7-8), 443-451 (2007) Khan A, **Shukla Y**, Kalra N, Alam M, Ahmad MG, Rashid S and Owais M.
44. Preventive effects of lupeol on DMBA induced DNA alkylation damage in mouse skin. **Food and Chemical Toxicology**, Vol. 45(11), 2331-2335 (2007) Nigam N, Prasad S and **Shukla Y**.
45. Preventive effects of diallyl sulfide on 7, 12- dimethylbenz[a]anthracene induced DNA alkylation damage in mouse skin. **Molecular Nutrition and Food Research**, Vol. 51(11), 1324-1328 (2007) Nigam N and Shukla Y.
46. Theaflavins induced apoptosis of LNCaP cells is mediated through induction of p53, down-regulation of NF-kappa B and mitogen-activated protein kinases pathways. **Life Sciences**, Vol. 80(23), 2137-2146 (2007) Kalra N, Seth K, Prasad S, Singh M, Pant AB, **Shukla Y**.
47. Hepatoprotective effects of lupeol and mango extract in carcinogen induced alteration in Swiss albino mice. **Molecular Nutrition and Food Research**, Vol. 51(3), 552-559 (2007) Prasad S, Kalra N and **Shukla Y**.
48. Cancer preventive properties of ginger: A brief review. **Food and Chemical Toxicology**, Vol. 45(5), 683-690 (2007) **Shukla Y** and Singh M.
49. Silver stained nucleolar organizing regions in normal and dysplastic cervical lesions: correlation with DNA ploidy and S-phase fraction by flow cytometry. **Oncology**, Vol. 71(5-6), 411-416 (2007) Singh M, Prasad S, Kalra N, Singh U, **Shukla Y**.

2006

50. Involvement of multiple signaling pathways in diallyl sulfide mediated apoptosis in mouse skin tumors. **Asian and Pacific Journal of Cancer Prevention**, Vol. 7(4), 556-562. (2006) Kalra N Arora A and **Shukla Y**.
51. Modulatory effects of diallyl sulfide against testosterone-induced oxidative stress in Swiss albino mice. **Asian Journal of Andrology**, Vol. 8 (6), 719-723 (2006) Prasad S, Kalra N and **Shukla Y**.

52. Cancer Chemoprevention with Garlic and its Constituents. **Cancer Letters**, Vol. 247 (2), 167-181(2006) **Shukla Y** and Kalra N.
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List of Papers Presented at Conferences:

1. Insights into carcinogenic hazards from pesticides and mitigation strategies. **Shukla Y** (2011). The Conference on 31st Annual Session of the Academy of Environmental Biology, India, Jhansi, October 14 -16.
2. Toxicoproteomics: Biomarker development for environmental pollutants. **Shukla Y** (2011). Annual Conference of the Proteomics Society (India), IPCON 2011 held at New Delhi, India from April 3rd-5th.
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4. Enhancement of anti-proliferative, anti-inflammatory and cancer chemosensitization potential of cisplatin by tea polyphenols poly (lactide-co-glycolide) nanoparticles. **Shukla Y** (2011). An International Symposium on the Safe Use of Nanomaterials and Workshop on Nanomaterial Safety: Status, Procedures, Policy and Ethical Concerns, Indian Institute of Toxicology Research (IITR), Lucknow, February 1-3.
5. Resveratrol and Cellular Mechanisms of Cancer. **Shukla Y** (2010). Resveratrol 2010. 1st International conference of resveratrol and health. Copenhagen, Demark, September 13-16.
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7. Application of Proteomics in Biomedical Research. **Shukla Y**. XXXVth Annual Conference of Environmental mutagen Society of India (EMSI), Chandigarh, March 12-14, 2010.
8. Pesticide induced early proteomic changes in mouse skin carcinogenesis. George J, Mahmood Z and **Shukla Y** (2010). 5th AOHUPO Congress. 14th ADNAT Convention & 1st PSI Conference on New Perspectives in Proteome Research. Feb 21-25.
9. Protein expression profiling of breast cancer patients among North Indian population. Mahmood Z, George J, Yadav AK, Kumar S and **Shukla Y**. (2010) 5th AOHUPO Congress, 14th ADNAT Convention & 1st PSI Conference on New

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 11. Genotoxic Effects of Mancozeb on Cultured Human Lymphocytes. Srivastava AK, Ali W, Bhui K, Tyagi S, Singh R and **Shukla Y.** (2010) XXXth conference of Environmental Mutagen Society of India(EMSI) and International Symposium on Mutagen and Genetic Diversity for Health and Agriculture held at Punjab University Chandigarh, March 12-14, 2010.
 12. Chemoprevention of Cancer by Dietary Phytochemicals. **Shukla Y.** (2010) 30th Annual Conference of Society of Toxicology (STOX), India and Symposium on Strategies for Safety Study Requirements for Herbal Formulations held at Jamia Hamdard (Hamdard University), New Delhi, December 9-11,2010
 13. Protein Profiling of Breast Cancer Patients among North Indian Population. **Shukla Y,** Mahmood Z, George J, Kumar S (2010). 9th Annual World Congress, Sydney, Australia, September 19-24, 2010.
 14. Proteomic approaches in diagnosis of cancer and cancer chemoprevention. George J and **Shukla Y.** International conference on frontiers in prevention, diagnosis and therapy of cancer held at Department of Pathology, Moti Lal Nehru Medical College, Allahabad, November 21 -22, 2009.
 15. Recent advances in assessment of carcinogenic hazards from xenobiotics and mitigation strategies. George J and **Shukla Y.** Toxeminar-1 for first annual national seminar of the Indian society of toxicology held at Aligarh Muslim University, Aligarh, February 22, 2009.
 16. Studies on glyphosate induced tumorigenesis in mouse skin: a proteomic approach. George J, Prasad S and **Shukla Y.** (2009) 100th American Association for Cancer Research, held at USA, April 18th – 22nd, 2009.
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 20. DNA Damage and apoptosis inducing potential of Mancozeb in CHL. Srivastava AK, Tyagi S, Bhui K and **Shukla Y.** International symposium on “Current Trends

- In Toxicology and Pre-Clinical Toxicology". XXIX Annual Conference of Society of Toxicology, India held at NII Hyderabad, November 4-7th, 2009.
21. Development of novel biomarkers in North Indian population. 13th Human Genome Meeting 2008 held at Hyderabad from September 27-30, 2008.
 22. Proteomic analysis of differentially expressed proteins in Swiss mice following glyphosate exposure. George J, Chaturvedi PK, Prasad S, Roy P and **Shukla Y**. Current Trends in Proteomics and Brainstorming Discussion on Plasma Proteomics held at Centre for Cell and Molecular Biology, Hyderabad, February 17-18, 2008.
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 24. Modulatory effects of Bromelain on DMBA induced alterations in p53, NF-kB, MAP kinase pathways Bhui K, Prasad S, Roy P, **Shukla Y**. Society of Toxicology (STOX), Bangalore, 2008.
 25. Lupeol induces p53 and cyclin-B mediated G2/M arrest and targets apoptosis through activation of caspases in mouse skin. Nigam N, Prasad S, Singh M and **Shukla Y**. International Conference on 'Predictive, Preventive and Mechanistic Mutagenesis and XXXIII Annual Meeting of Environmental Mutagen Society of India held at Aligarh Muslim University, Aligarh, January 1-3, 2008.
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 29. Nutraceuticals: Nature's gift molecules for prevention of mutagenesis and carcinogenesis. **Shukla Y**. International Conference on 'Predictive, Preventive and Mechanistic Mutagenesis and XXXIII Annual Meet of Environmental Mutagen Society of India held at Aligarh Muslim University, Aligarh. January 1-3, 2008.
 30. Regulation of apoptotic mechanisms by lupeol in human mammary cancer cells MCF-7 mediated through translocation of Bax, cytochrome c release and caspase activation. Chaturvedi PK, Prasad S, Roy P, Bhui K, George J and **Shukla Y**. XXVII Annual Convention of Indian Association For Cancer Research,

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31. Proteomic analysis of differentially expressed proteins in Swiss mice following glyphosate exposure. George J, Chaturvedi PK, Prasad S, Roy P and **Shukla Y.** (XXVII Annual Convention of Indian Association for Cancer Research, Networking Research to Applications & International Symposium on Frontiers in Functional Genomics February 6-9, 2008.
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 33. Induction of apoptosis by tea polyphenols mediated through mitochondrial cell death pathway in mouse skin tumors. Roy P, Nigam N, **Shukla Y.** Society of Toxicology (STOX), Bangalore, 2008.
 34. Chemopreventive Properties of Resveratrol in Mouse Skin. Roy P, Kalra N, Prasad S and **Shukla Y.** International Conference on Biomarkers in the health and management in and XXXII Annual Meet of Environmental Mutagen Society of India held at Coimbatore, January 10-12, 2007.
 35. Silver stained nucleolar organizing regions in normal and dysplastic cervical lesions: correlation with DNA ploidy and S-phase fraction by flow cytometry. Singh M, Prasad S, Kalra N, Singh U, **Shukla Y.** International Conference on Biomarkers in the health and management in and XXXII Annual Meet of Environmental Mutagen Society of India held at Coimbatore, January 10-12, 2007.
 36. Lupeol promotes apoptosis in prostate cancer cells PC-3 through cell cycle arrest at G2/M Phase, Caspase-3 activation and DNA fragmentation. Prasad S, Kaur J, Kalra N and **Shukla Y.** International Conference on Biomarkers in the health and management in and XXXII Annual Meet of Environmental Mutagen Society of India held at Coimbatore, January 10-12, 2007.
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 38. Diagnostic and Prognostic Value of Flow Cytometric Profile of DNA Content and S-Phase fraction in Cervical Dysplasia. Singh M, Prasad S, Kalra N, Singh U and **Shukla Y.** 30th Annual Meet of Australasian Flow Cytometry Group held at Melbourne, Australia. September 16-19, 2007.
 39. Cancer causes and prevention **Shukla Y.** Science lecture at Christian college, Lucknow, September 26, 2008.
 40. Modulatory effects of bromelain on DMBA induced alterations in p53, NF- κ B, MAPK Pathways. Bhui K, Roy P, Prasad S, George J and **Shukla Y.** XXVII Annual Conference of Society of Toxicology and International Workshop on Toxicology held at Bangalore, October 6-12, 2007.
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42. Cancer and chemoprevention: New paradigms. **Shukla Y.** lecture at UGC Dr. D.S. Kothari memorial, Dr. R.M.L. Avadh University, Faizabad, October 9, 2007.
43. Lupeol induce apoptosis in human epidermoid carcinoma A431 cells through regulation of Akt/PKB, NF- κ B and mitochondrial cell death pathway. Prasad S, Madan E, Nigam N, Chaturvedi PK and **Shukla Y.** International Conference on 'Natural products and cancer & IInd meeting of Translational Cancer Research held at the Lonavala, India from December 9-12, 2007.
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