

## CURRICULUM VITAE

**Name:** KAUSAR MAHMOOD ANSARI

### Mailing Address

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**Date of Birth:** July 15, 1976    **Gender:** Male

### Academic qualifications (beginning with the Bachelor's degree)

Degree	Board/University	Year	Division	Subjects
B.Sc.	Dr. R M L Avadh University, Faizabad, U.P., India	1997	First	Biochemistry, Industrial Microbiology, Environmental Sciences
M.Sc.	Dr. R M L Avadh University, Faizabad, U.P., India	1999	First	Biochemistry
Ph.D	University of Lucknow, Lucknow, U.P., India	2005	-	Biochemistry
Post Doctoral Fellowship	Department of Molecular Carcinogenesis, M D Anderson Cancer Center, Smithville, TX, USA.	Nov, 2004- January, 2008	-	Cancer Biology

### Details of professional posts held (in chronological order starting from joining till date)

Sl No.	Institution Place	Position	From (Date)	To (date)
1	CSIR-Indian Institute of Toxicology Research, Lucknow	Junior Scientist	Jan 31, 2008	Jan 30, 2011
2.	CSIR-Indian Institute of Toxicology Research, Lucknow	Scientist	Jan 31, 2011	Till date

### Area of research

Presently, my research work embodies the assessment and elucidation of biochemical and molecular mechanism of toxicity of commonly encountered natural food contaminants, mycotoxins. In addition, our research work is focused on discovering and evaluating anticancer activities of small molecules (phytochemicals) and providing a scientific basis (mechanisms) for their effectiveness in controlling carcinogenesis. Of specific importance is the understanding of mechanisms at all levels *viz.*, molecular, cellular and organ levels in both *in vitro* as well as *in vivo* systems by using latest techniques. The goal is to develop mechanism-based non-toxic anticancer agents for their potential use in cancer chemoprevention and treatment.

## **Major achievements in the area of specialization:**

I have published 32 articles in this area.

Articles with Citation Data: 35

Sum of the times Cited: 484

Average Citation per Article:12

h-index:12

## **Awards/Honors/Fellowship:**

### **2004**

- Awarded Senior Research Fellowship by Council of Scientific and Industrial Research, Govt. of India. (Since September 14, 2002 to November 8, 2004).
- Awarded Post-Doctoral Fellowship by University of Texas M D Anderson Cancer Center, TX, USA. (Since November 10, 2004 to January 31, 2008).

### **2005**

- Awarded best paper award for the year 2005 by Alumni Association of Department of Biochemistry, Lucknow, India.

### **2007**

- Invited presentation at Industrial Toxicology Research Center, Lucknow, India. Title “Role of Prostaglandin E2 in skin carcinogenesis” on March 12, 2007.

### **2008**

- Visited Bari, Italy to attend “Detection Techniques for Mycotoxins and Toxigenic fungi in Food Chain” organized by Institute of Sciences of Food Production (ISPA) and National Research Council from September 29 – October 3, 2008. (**Under International Travel Support Scheme for Young Scientist of DST**).

### **2010**

- Awarded “**Young Scientist Award for 2008-09**” by Council of Science and Technology, Lucknow, Govt. of Uttar Pradesh, India.
- Invited presentation at University of Allahabad, Allahabad. Title: “Molecular Mechanism of Dermal Toxicity of Patulin, a Mycotoxin”. On January 23-24, 2010.
- Invited presentation, at “International Conference & Humboldt Kolleg; Frontiers of Environmental & Health Science Useful to Mankind: A Multidisciplinary Approach” on 25-27 February, 2010 at University of Lucknow, Lucknow (U.P).
- Invited presentation at Regional Science City, Lucknow. Title: “Argemone oil: Induced Toxicity and its Modulation by Bio-antioxidants” on September 21, 2010.
- Invited presentation at “International Mycotoxin Conference 2010”, held at Park Royal Hotel, Batu Feringghi, Penang, Malaysia, 1-4 December 2010.
- Visited Penang, Malaysia to attend “International Mycotoxin Conference 2010” held at Park Royal Hotel, Batu Feringghi, Penang, Malaysia, 1–4 December 2010. (**Under International Travel Support Scheme of ISTAD, CSIR**)

### **2011**

- Awarded “**Rashtriya Gaurav Award, 2011**” by Non-Government India International Friendship Society, New Delhi, India.

### **2012**

- Awarded “**Young Investigator Award**” for the presentation entitled “Nexrutine Induces Apoptosis and Cell Cycle Arrest in Human Squamous Carcinoma and Human Melanoma

Cancer Cells and Inhibits Chemically-induced Tumor Growth in Mice” in International symposium on “Recent Advances in Cancer Research: Therapeutics to Chemoprevention” at Central University of Gujarat, Gandhinagar, India, February 8-9, 2012.

**2014**

Awarded “**ICMR International Fellowship for Young Bio-medical Scientists**” to visit Department of Pharmaceutical Sciences, University of Colorado School of Pharmacy, Mail Stop C238, 12850 E. Montview Blvd. V20-2118, Aurora, CO 80045 from October 1 to December 31, 2014.

**2015**

Elected Academic Editor for PLOS ONE.

### **Published Research Papers**

1. I. Mukhopadhyay, **Kausar M. Ansari**, A. Nazir, D. K. Saxena, M. Das, S.K. Khanna and D.K. Chowdhuri (2002). Toxicity of argemone oil: Effect on hsp 70 expression and tissue damage in transgenic *Drosophila melanogaster* (hsp 70 lac Z) Bg<sup>9</sup>. *Cell Biology and Toxicology*, 18; 1– 11. [IF: 2.51]
2. **Kausar M. Ansari**, L.K.S. Chauhan, A. Dhawan, S.K. Khanna and M. Das (2004). Unequivocal evidence of genotoxic potential of argemone oil in mice. *International Journal of Cancer*, 112; 890-895. [IF: 5.44]
3. **Kausar M. Ansari**, A. Dhawan, S.K. Khanna and M. Das (2005). *In vivo* DNA damaging potential of sanguinarine alkaloid isolated from argemone oil using alkaline comet assay. *Food and Chemical Toxicology*, 43; 147-153. [IF: 2.99]
4. M. Das, **Kausar M. Ansari**, A. Dhawan, Y. Shukla, and S.K. Khanna (2005). Correlation of DNA damage in Epidemic Dropsy patients to carcinogenic potential of argemone oil and isolated sanguinarine alkaloid in mice. *International Journal of Cancer*, 117 (5); 709-17. [IF: 5.44] **Kausar M. Ansari**, A. Dhawan, S.K. Khanna and M. Das (2006). Protective effect of bioantioxidants on argemone oil/sanguinarine alkaloid induce genotoxicity in mice. *Cancer Letters*, 244 (1); 109-18. [IF: 4.23]
6. **Kausar M. Ansari**, You Me Sung, Guobin He and S. M. Fischer (2007). Prostaglandin receptor EP2 is responsible for cyclooxygenase-2 induction by PGE<sub>2</sub> in mouse skin. *Carcinogenesis* Oct;28(10); 2063-8. [IF: 5.70]
7. **Kausar M. Ansari**, Joyce Rundhaug and Susan M. Fischer (2008). Multiple Signaling Pathways are Responsible for Prostaglandin E2-induced Murine Keratinocytes proliferation. *Mol Cancer Res.* 6; 1003-16. [IF: 4.28]
8. Challagundla K. Babu, **Kausar M. Ansari**, Sanjay Mehrotra, Subhash K. Khanna, Mukul Das (2008). Alterations in Redox Potential of Glutathione/Glutathione Disulfide and Cysteine/Cysteine Disulfide Couples in Plasma of Dropsy Patients with Argemone Oil Poisoning. *Food and Chemical Toxicology*, 46; 2409-2414 [IF: 2.99]
9. Neha Saxena, Premendra D. Dwivedi, **Kausar M. Ansari** and Mukul Das (2008). Incidence of Patulin in Apple juices and its likely intake in Indian population. *Food Additives and Contaminants: Part B*, 1:2; 140-146 [IF: 0.81]

10. Neha Saxena, **Kausar M. Ansari**, Rahul Kumar, Alok Dhawan, Premendra D. Dwivedi and Mukul Das (2009). Patulin causes DNA damage leading to cell cycle arrest and apoptosis through modulation of Bax, P<sup>53</sup> and P<sup>21/WAF1</sup> proteins in skin of mice. *Toxicology and Applied Pharmacology*, 234(2); 192-201. [IF: 4.44]
11. **Kausar M. Ansari\*** and Mukul Das (2010). Skin tumor promotion by argemone oil/alkaloid in mice: Evidence for enhanced cell proliferation, ornithine decarboxylase, cyclooxygenase-2 and activation of MAPK/NF- $\kappa$ B pathway. *Food and Chemical Toxicology*, 48; 132–138. [IF: 2.99] \*Corresponding Author
12. Challagundla K. Babu, **Kausar M. Ansari**, Sanjay Mehrotra, Satyananda Patel, Madhu Dikshit, Mukul Das (2010). Activation of Inflammatory Response and Apoptosis of Polymorphonuclear Leukocytes in Patients with Argemone Oil Poisoning. *Chem Biol Interact.* 183(1);154-64 [IF: 2.86]
13. **Kausar M. Ansari\***, and Mukul Das (2010). Potentiation of tumour promotion by topical application of argemone oil/ isolated sanguinarine in a model of mouse skin carcinogenesis. *Chem Biol Interact.* 2010 Dec 5;188(3):591-7. [IF: 2.86] \*Corresponding Author
14. Mukul Das, **Kausar M. Ansari**, Anurag Tripathi and Premendra D Dwivedi (2011). Need for Safety of Nanoparticles Used in Food Industry. *J. Biomed. Nanotechnol.* 7, 13-14. [IF: 4.20]
15. Ritu Goyal, S.K. Tripathi, S. Tyagi, K. Ravi Ram, **Kausar M. Ansari**, P. Kumar, Y. Shukla, D. Kar Chowdhuri and K. C Gupta (2011). Gella Gum-PEI Nanocomposities as Efficient Gene Delivery Agents. *J. Biomed. Nanotechnol.* 7, 38-39 (2011). [IF: 4.20]
16. Premendra D. Dwivedi, Anurag Tripathi, **Kausar M. Ansari**, Rishi Shanker and Mukul Das (2011). Impact of Nanoparticles on the Immune System. *J. Biomed. Nanotechnol.* 7, 193-194. [IF: 4.20]
17. Ritu Goyal, S.K. Tripathi, S. Tyagi, K. Ravi Ram, **Kausar M. Ansari**, Y. Shukla, D. Kar Chowdhuri, P. Kumar and K.C. Gupta (2011). Gellan gum blended PEI nanocomposites as gene delivery agents: Evidences from in vitro and in vivo studies. *Eur J Pharm Biopharm.* Sep;79(1):3-14. [IF: 4.26].
18. Rahul Kumar, P. D. Dwivedi, A. Dhawan, M. Das and **Kausar M. Ansari\*** (2011). Citrinin generated reactive oxygen species causes cell cycle arrest leading to apoptosis via intrinsic mitochondrial pathway in mouse skin. *Toxicol Sci.* Aug;122(2):557-66. [IF: 4.65]. \*Corresponding Author
19. Sushil K. Tripathi, R. Goyal, **Kausar M. Ansari**, K. Ravi Ram K, Y. Shukla , D.K. Chowdhuri , K. C. Gupta (2011). Polyglutamic acid-based nanocomposites as efficient non-viral gene carriers *in vitro* and *in vivo*. *Eur J Pharm Biopharm.* 79(3):473-84. [IF: 4.26].
20. S. Kumar, A. Misra, A.K. Verma, R. Roy R, A. Tripathi, **Kausar M. Ansari**, M. Das, P.D. Dwivedi. *Bt Brinjal in India: A long way to go.* (GM Crops, in press) 2011.
21. N. Saxena, **Kausar M. Ansari**, R. Kumar, B. P. Chaudhuri, P. D. Dwivedi and M. Das (2011). Role of Mitogen Activated Protein Kinases in Skin Tumorigenicity of Patulin. *Toxicology applied pharmacology*, 257(2):264-71. [IF: 4.44].
22. V. Mishra, **Kausar M Ansari**, R. Khanna and M. Das (2012). Role of ErbB2 mediated AKT and MAPK pathway in gall bladder cell proliferation induced by Argemone oil and Butter yellow. *Cell Biology and Toxicology*, (3):149-59. [IF: 2.51].

23. V. Mishra, M. Mishra, **Kausar M Ansari**, B. P. Chaudhari, R. Khanna and M. Das (2012). Edible oil adulterants, argemone oil and butter yellow, as etiological factors for gall bladder cancer. *Eur J Cancer*. 2012 Sep;48(13):2075-85. [IF: 5.50].
24. R. Kumar, **Kausar M. Ansari**, N. Saxena, P. D. Dwivedi, S. K. Jain, M. Das (2012). Detection of Ochratoxin A in wheat samples in different regions of India. *Food Control*, 26:63-67. [IF: 2.65]
25. R. Kumar, M. Das and **Kausar M. Ansari**\* (2012). Nexrutine® Inhibits Tumorigenesis in Mouse Skin and Induces Apoptotic Cell Death in Human Squamous Carcinoma A431 and Human Melanoma A375 Cells. *Carcinogenesis.*, 33(10):1909-1918. [IF:5.70] **\*Corresponding Author**
26. R. Kumar, **Kausar M. Ansari**\*, B. P. Chaudhari, A. Dhawan, P. D. Dwivedi, S. K. Jain and M Das\* (2012). Topical Application of Ochratoxin A causes DNA damage and tumor initiation in mouse skin. *PLoS One*, 7(10):e47280. [IF:4.09] **\*Co-Corresponding Author**
27. S. Mishra, **Kausar M. Ansari**, P. D. Dwivedi, H. P. Pandey, M. Das. Occurrence of deoxynivalenol in cereals and exposure risk assessment in Indian population. *Food Control.*, in press [IF: 2.65]
28. A. Pal, S. Alam, J. Singhal, R. Kumar, **Kausar M. Ansari** and M. Das (2013). Protective effect of topical application of  $\alpha$ -tocopherol and/or N-acetyl cysteine on argemone oil/alkaloid induced skin tumorigenesis in mice. *Nutrition and Cancer*, 2013;65 Suppl 1:78-87. [IF: 2.55]
29. R. Kumar, S. Alam, B. P. Chaudhari, P. D. Dwivedi, S. K. Jain, **Kausar M. Ansari**\* and M. Das\* (2013). Ochratoxin A-induced cell proliferation and tumor promotion in mouse skin by activating the expression of cyclin D1 and cyclooxygenase-2 through nuclear factor-kappa B and activator protein-1. *Carcinogenesis*, 34(3):647-57. [IF:5.70] **\*Co-Corresponding Author**
30. N. Dwivedi, S. Kumar, **Kausar M. Ansari**, S.K. Khanna, and Mukul Das (2013). Skin tumorigenic potential of benzanthrone: prevention by ascorbic acid. *Food Chem Toxicol*. 2013 Sep;59:687-95. [IF: 2.99]
31. G. Panigrahi, S. Tiwari, **Kausar M. Ansari**, R. K. Chaturvedi, V. K. Khanna, B. P. Chaudhari, V. M. Vashistha, S. Raisuddin, and M. Das (2014). Association between children death and consumption of *Cassia occidentalis* seeds: clinical and experimental investigations. *Food Chem Toxicol*. May;67:236-48. [IF: 2.99]
32. G. Panigrahi, A. Yadav, A. Yadav, **Kausar M. Ansari**, R. K. Chaturvedi, V. M. Vashistha, S. Raisuddin, and M. Das (2014). Hepatic transcriptional analysis in rats treated with *Cassia occidentalis* seed: involvement of oxidative stress and impairment in xenobiotic metabolism as a putative mechanism of toxicity. *Toxicol Lett*. 2014 Aug 17;229(1):273-83. [IF:3.35]
33. S. Alam, A. Pal, R. Kumar, P. D. Dwivedi, M. Das and **Kausar M. Ansari**\* (2014). EGFR-mediated Akt and MAPKs Signal Pathways Play a Crucial Role in Patulin-Induced Cell Proliferation in Primary Murine Keratinocytes via modulation of Cyclin D1 and COX-2 expression. *Mol Carcinog*. 2014 Dec;53(12):988-98. [IF:4.7] **\*Corresponding Author**
34. S. Alam, A. Pal, R. S. Yadav, S. K. Purshottam, B. P. Chaudhari, M. Das and **Kausar M. Ansari**\* (2014). Dietary administration of Nexrutine inhibits rat liver tumorigenesis and induces apoptotic cell death in human hepatocellular carcinoma cells. *Toxicology Reports* (in press). **\*Corresponding Author**

35. M. Vij, P. Natarajan, B. R. Pattnaik, S. Alam, R. Sharma, **Kausar M. Ansari**, R. S. Gokhale, V. Natarajan and M. Ganguli (2014). " Getting Under the Skin": Peptide-Mediated Nucleic Acid Delivery. *Molecular Therapy* (in press).

### **Professional Activities and Memberships**

2005-*Ad-hoc reviewer*, Carcinogenesis, Cancer Letters, Food and Chemical Toxicology, Toxicology Letters, Toxicological Sciences, Mutation Research.

2007 Member, American Association of Cancer Research

2008 Member, Indian Association of Cancer Research

2009 Member, Environmental Mutagen Society of India

2009 Member, Alumni Association of Department of Biochemistry, Lucknow University, India

2012 Life member, Indian Society of cell biology, India.

2012, Life member, Indian Nanoscience Society, India

2012, Life member, The Academy of Environmental Biology, Lucknow, India

2014, Full member, Society of Toxicology, USA

### **Research Support:**

#### **1. Department of Science and Technology, Government of India, New Delhi**

“Surveillance and molecular mechanism of toxicity of patulin, a commonly encountered mycotoxin”

Duration: 01/01/09-12/31/12

**Role: Principle Investigator**

#### **2. Council for Scientific and Industrial Research, Government of India, New Delhi**

“Role of UVR in the Potentiating of ZnO Nanoparticle induced Dermal Toxicity in Hairless Mouse Model”

Duration: 15/08/2010-15/08/12

**Role: Principle Investigator**