

## CURRICULUM-VITAE

### Pradeep Kumar Sharma (Ph.D)

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#### **Research interest:**

- ❖ Environmental carcinogenesis
- ❖ Molecular aspects of cell death (apoptosis, autophagy, necrosis)
- ❖ Oxidative stress and redox alterations mediated downstream signaling

#### **Current Position: (April 2014 -)**

- ❖ Scientist-Environmental Carcinogenesis Division, CSIR Indian Institute of Toxicology Research, Lucknow, UP India

#### **Academic Qualifications:**

- ❖ **Ph.D** in Biotechnology (2012) from GGS Indraprastha University, Delhi, INDIA and Institute of Nuclear Medicine and Allied Sciences (INMAS), Delhi-110054, INDIA.
- ❖ **Master of Science** in Biotechnology (2005) from Himachal Pradesh University, Shimla-171005, INDIA.

#### **Awards and Fellowship:**

1. Received fellowship from Jawaharlal Nehru University (JNU), Delhi, INDIA during M.Sc Biotechnology programme (2003-2005).
2. Qualified Graduate Aptitude Test in Engineering (GATE-IIT) in Life Sciences with **98.18** percentile held on Feb-2005.
3. Received Junior and Senior Research fellowship from Indian Council of Medical Research (ICMR), Govt. of India. Selected through a nationwide exam conducted by ICMR (April 2006- April 2011).
4. Qualified National eligibility test for Lectureship (LS) examination conducted jointly by Council of Scientific and Industrial Research-University grant Commission (CSIR-UGC; India) held on Dec 2005.
5. Qualified junior research fellowship (JRF) examination conducted by Department of Biotechnology- (DBT-India) held on July-2006.

6. Qualified UGC-Junior Research fellowship (JRF) examination conducted jointly by Council of Scientific and Industrial Research-University grant Commission (**CSIR-UGC; India**) held on Dec-2006.

#### **Research experience/Training**

- ❖ Research associate/Postdoctoral training: Institute of Genomics and Integrative Biology (CSIR-IGIB), New Delhi, India (April 2012- March 2014).
- ❖ Senior Research fellow (ICMR): Institute of nuclear medicine and Allied Sciences (DRDO), New Delhi, India (April 2008-March 2011).
- ❖ Junior Research fellow (ICMR): Institute of nuclear medicine and Allied Sciences (DRDO), New Delhi, India (April 2006-March 2008).

#### **Conference/Workshop-cum Training Programme Attended**

- **Pradeep K Sharma** and Rajeev Varshney: Combination of 2-deoxy-D-glucose and 6-aminonicotinamide activate ASK1-p38MAPK/JNK signaling in irradiated head and neck squamous carcinoma. International Symposium on “Recent Advances in Cancer Research Therapeutics to Chemoprevention”-February 08-09, 2012, Gujrat, India.
- **P K Sharma**, N Raghu Ram, B S Dwarakanath and R Varshney. Metabolic modifiers induced ROS in irradiated malignant cells led to the altered antioxidant enzymes response, in International conference on Radiation Biology (ICRB)-Nov 10-12, 2008, Jaipur, India.
- International symposium on ‘application of 2-Deoxy-D-Glucose in the management of cancer’ held at INMAS from 8<sup>th</sup> – 10<sup>th</sup> Nov 2006.
- Mini symposium on ‘Current Trends in Radiation Biology’ held at INMAS on 17<sup>th</sup> Nov 2006.
- Continuing Education Programme on ‘Oxidative stress in health and disease’ held at INMAS from 4<sup>th</sup> –8<sup>th</sup> Sep 2006.

## **List of Publications**

1. **Pradeep K. Sharma**, Richa Bhardwaj, Bilikere S. Dwarakanath, Rajeev Varshney. Metabolic oxidative stress induced by a combination of 2-DG and 6-AN enhances radiation damage selectively in malignant cells via non-coordinated expression of antioxidant enzymes. **Cancer Letters** (2010) 295:154–166.
2. Richa Bhardwaj\*, **Pradeep Kumar Sharma\***, Suryaprakash Singh Jadon, Rajeev Varshney. A combination of 2-deoxy-D-glucose and 6-aminonicotinamide induces oxidative stress mediated selective radiosensitization of malignant cells via mitochondrial dysfunction. **Tumor Biology** (2011) 32:951–964. (\*contributed equally)
3. **Pradeep Kumar Sharma**, Bilikere Srinivasa Dwarakanath, Rajeev Varshney. Radiosensitization by 2-deoxy-D-glucose and 6-aminonicotinamide involves activation of redox sensitive ASK1-JNK/p38MAPK signaling in head and neck cancer cells. **Free Radical Biology & Medicine** (2012) 53:1500–1513.
4. **Pradeep Kumar Sharma** and Rajeev Varshney. 2-Deoxy-D-Glucose and 6-aminonicotinamide mediated Nrf2 down regulation leads to radiosensitization of malignant cells via abrogation of GSH-mediated defense. **Free Radical Research** (2012)46:1446-1457.
5. Richa Bhardwaj, **Pradeep K. Sharma**, S. P. S. Jadon, Rajeev Varshney. A combination of 2-deoxy-D-glucose and 6-aminonicotinamide induces cell cycle arrest and apoptosis selectively in irradiated human malignant cells. **Tumor Biology** (2012) 33:1021–1030.
6. Rachna Sharma, Ved Varun Agrawal, **Pradeep Sharma**, R Varshney, R K Sinha, B D Malhotra. Aptamer based electrochemical sensor for detection of human lung adenocarcinoma A549 cells. **Journal of Physics: Conference Series** 358 (2012) 012001 doi:10.1088/1742-6596/358/1/012001.