Pankaj Sharma
Professor

Specialization: Immunology, Oxidative Stress, Cancer Biology, Stem Cell Research
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Dr. Pankaj Sharma obtained his PhD degree in Genetics from University of Delhi. He gained extensive experience in generating plant transgenics by working as post-doctoral fellow in JNU and at the Centre for Genetic Manipulation of Crop Plants, University of Delhi. Following a 2-year stint in the private sector, he moved to Department at Cancer Biology, Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio, USA in 2000 as a post-doctoral fellow and was promoted to Research Staff in 2008. During his stay at Cleveland, he worked on dysregulation of cell signaling in cancer and inflammation, and published his research in peer-reviewed reputed journals like Immunity, PNAS, Cancer Research, Oncogene and Oncotarget. He moved back to India in 2010 and joined his current responsibility as a Professor at Amity Institute of Biotechnology, Amity University. In 2015, he became an indispensible part of AIMMSCR as an Adjunct faculty. He is involved in teaching courses related to Immunology, Cancer Biology and Stem Cells. His current research interest includes oxidative stress in cancer biology and inflammation and currently has 5 PhD students working under his guidance.

Current Research Project:

DBT-funded Indo-UK sanctioned project entitled "**Developing genetics and genomics interface to develop strategies for sustainable use of resistance to white rust in oilseed mustard (Brassica juncea)**" (2015-18) (Total Cost: Rs. 304.046 Lakhs, Amity University: Rs. 63.214 Lakhs (Co-PI)).

Honors and Awards:

1. Best in Science, Department of Cancer Biology, Cleveland Clinic, Cleveland, OH, USA (2008)
2. Travel Grant from Council of Scientific & Industrial Research, Govt. of India to attend Annual Meeting of American Society of Plant Physiologists at Charlotte, North Carolina (1995)
3. Research Fellowship from University Grants Commission, Govt. of India (Qualified CSIR/UGC NET Examination in 1988) (1988 – 1993)

Selected Important Publications:

1. Khurana N, Talwar S, Chandra PK, **Sharma P**, Abdel-Mageed AB, Mondal D, Sikka SC. **(2016).** Sulforaphane increases the efficacy of anti-androgens by rapidly decreasing androgen receptor levels in prostate cancer cells. **Int J Oncol.** 49(4): 1609-19. **(IF – 3.02)**
2. Panicker SP, Raychaudhuri B, **Sharma P**, Tipps R, Mazumdar T, Mal AK, Palomo JM, Vogelbaum MA, Haque SJ. **(2010)** p300- and Myc-mediated regulation of glioblastoma multiforme cell differentiation. **Oncotarget**: 1(4): 289-303. **(IF – 5.0)**
3. **Sharma P***, Chakraborty R*, Lu Wang, Booki Min, Tremblay ML, Kawahara T, Lambeth JD and Haque SJ **(2008)** Redox Regulation of Interleukin-4 Signaling. **Immunity** 29: 551-564 **[* Indicates co- first authors]**. **(IF – 24.08)**
4. Ghosh MK, **Sharma P,** Harbor PC**,** Rahaman SO and Haque SJ **(2005).** PI3K-AKT pathway negatively controls EGFR-dependent DNA-binding activity of Stat3 in glioblastoma mutliforme cells. **Oncogene** 24: 7290-7300. **(IF – 8.45)**
5. Rahaman SO, **Sharma P,** Harbor P, Aman MJ, Vogelbaum MA, and Haque SJ **(2002).** IL-13Rα2, a decoy receptor for IL-13 acts as an inhibitor of IL-4-dependent signal transduction in glioblastoma cells. **Cancer Res** 62:1103-1109. **(IF - 9.284)**