

ACADEMIC CREDENTIALS

- **PhD Biotechnology (2012)** – University School of Biotechnology, GGSIP University, New Delhi.
Thesis Title: **Phytochemical investigation & pharmacological evaluation of herbal plants for anti-microbial, anti-oxidant, anti-inflammatory activities & nephrotoxicity**

 Supervisor: Prof. Rajinder K Gupta, GGSIP University, New Delhi
 Co- Supervisor: Prof. Bruce Beakely, University of South Dakota, USA
- **M.Sc. in Biotechnology (2004)** – 79.2% from Aligarh Muslim University, Aligarh, U.P.
- **B.Sc. (Hons.) in Chemistry (2002)** – 78.0% from Aligarh Muslim University, Aligarh, U.P.
- **S.S.S.C. (1998)** – 76.2% from Aligarh Muslim University, Aligarh, U.P.
- **High School (1996)** – 75.5%, T.R.G.I.C., Aligarh, U.P.

RESEARCH EXPERIENCE

- **March 2012- Jan 2015: Postdoctoral Research** at Translational Research Lab, Advance Centre for Treatment and Research and Education in Cancer (ACTREC), Kharghar, Navi Mumbai, India,
- **June 2005-June 2011: Doctoral research** at Microbial Technology lab, University School of Biotechnology, GGSIP University, New Delhi & Genomics and Molecular Medicine Division, Institute of Genomics and Integrative Biology, Delhi
- **Dec 2003-May 2004: M.Sc. Dissertation** entitled “Dual role of macrophages in pathogenesis and suppression of *Candida albicans*” under the guidance of Dr. M. Owais, Reader, at the Interdisciplinary Unit of Biotechnology, Aligarh Muslim University, Aligarh

EXPERIENCE

Deepika Gupta holds a PhD in Biotechnology from the University School of Biotechnology, GGSIP University, New Delhi with nearly 17 years of experience in the Academics and Industry, as a dedicated professional, she combines her extensive knowledge with practical insights to provide valuable contributions to her clients and projects. Her academic credentials, coupled with her hands-on experience, make her a respected figure in both academic and industry circles. As a freelancer, she collaborates with healthcare organizations to enhance operational efficiency and implement innovative solutions that address the evolving needs of the industry. Her commitment to excellence and ability to adapt to diverse project requirements make her a valuable asset in the healthcare sector.

- ❖ B.Sc. thesis seminar
- ❖ M.Sc. departmental dissertation

ACHIEVEMENTS & AWARDS

- Qualified CSIR-NET for the Junior Research Fellowship and Lectureship in 2004.
- Cleared Graduate aptitude test for engineering (GATE) in 2004.
- Received DBT Scholarship for pursuing M.Sc. Biotechnology during 2002-2004.
- Received special prize in Science Exhibition 2003 on model "Hemoglobin from Plants"
- Received University Gold Medal for standing 1st in B.Sc (Hons.) Chemistry, 2002.
- Received Col. M. Haider Khan Gold Medal for standing first among girls in B.Sc (Hons.) Chemistry, 2002.
- Received Mohd. Manaluddian award 2002 for standing first among girls in science faculty.
- Received Bharat Sewa Trust Scholarship, 2001.
- Received Certificate of merit for academic excellence in 2001.
- Received first prize in Inter-School Debate Competition 1996, Aligarh
- Received Merit Scholarship (State Level), 1996.
- Received Merit Scholarship (State Level), 1994.

PUBLICATIONS

1. **Deepika Gupta** (2017) Circulating Nucleic Acids (CNAs) in a New Perspective. *Journal of Cell and Developmental Biology*, 1:6.
2. Raghuram GV, **Deepika Gupta**, Siddharth Subramaniam, Ashwini Gaikwad, Naveen Kumar Khare, Malcolm Nobre, Naveen Kumar Nair, Indraneel Mittra (2017) Physical shearing imparts biological properties to DNA and ability to transmit itself horizontally across species and kingdom boundaries. *BMC Molecular Biology*, 18:21.
3. Indraneel Mittra, Urmila Samant, Suvarna Sharma, Gorantla V Raghuram, Tannistha Saha, Pritishkumar Tidke, Namrata Pancholi, **Deepika Gupta**, Preeti Prasannan, Ashwini Gaikwad, Nilesh Gardi, Rohan Chaubal, Pawan Upadhyay, Kavita Pal, Bhagyeshri Rane, Alfina Shaikh, Sameer Salunkhe, Shilpee Dutt, Pradyumna K Mishra, Naveen K Khare, Naveen K Nair & Amit Dutt (2017) Cell-free chromatin from dead cancer cells integrate into genomes of bystander healthy cells to induce DNA damage and inflammation. *Cell Death Discovery*, 3, Article number: 17015.
4. Mittra I, Khare NK, Raghuram GV, Chaubal R, Khambatti F, **Gupta D**, Gaikwad A, Prasannan P, Singh A, Iyer A, Singh A, Upadhyay P, Nair NK, Mishra PK, Dutt A (2015) Circulating nucleic acids damage DNA of healthy cells by integrating into their genomes. *Journal of Biosciences*, 40(1):91-111.
5. **Deepika Gupta**, Nandini Verma, Hasi R Das and Rajinder K Gupta (2014) Evaluation of anti-inflammatory activity of *Dracaena cinnabari* Balf f. resin. *Indian Journal of Natural Products and Resources*, 5(3), 215-222.
6. Malik, Shruti; Mann, Sonia; **Gupta, Deepika**; Gupta, Rajinder K (2013) Nutraceutical properties of *Prosopis cineraria* (L.) druce pods: a component of "panchkuta". *Journal of Pharmacognosy and Phytochemistry*, 2(2), 66-73
7. Sonia Mann, **Deepika Gupta** and Rajinder K Gupta (2012) Evaluation of nutritional and antioxidant potential of Indian Buckwheat grains. *Indian Journal of Traditional Knowledge*, 11(1), 40-44.

TECHNICAL EXPERTISE

- **Microbiology:** Isolation, Identification, Culture and maintenance of bacterial, fungal strains
- **Proteomics:** Gel chromatography, Affinity chromatography, Enzyme assays, PAGE, SDS-PAGE
- **Animal Cell Culture:** Culture and maintenance of different mammalian cell lines, cryopreservation of cells, Cell based assays like cytotoxicity assays, cytokine assays, nitric oxide assay
- **Immunology:** ELISA, Immunoblotting, Immunohistochemistry, Intracellular cytokine staining
- **Material Chemistry:** Fourier Transform Infrared Spectroscopy (FTIR), UV-Visible Spectroscopy
- **Microscopy & Imaging:** Phase contrast and Fluorescence Microscopy, Tumor cell imaging, Tissue imaging

CONFERENCES/SEMINAR/TRAINING PROGRAMS ATTENDED

- National Seminar on “Multifunctional Nanomaterials Nanostructures and Applications”, 2006, University of Delhi, Delhi, India.
- National Seminar on IPR, 2009, GGSIP University, Delhi, India.
- “Fundamentals of HPLC with LC Solution Workstation”, 2011, Shimadzu Analytical (India) Pvt. Ltd., Delhi, India.
- Oral paper presentation, “Newer Advances in Food Science & Technology”, 2011, R.B.S College, Agra, India.
- 2nd Global Cancer Genomic Consortium- Tata Memorial Centre Symposium, 2012, ACTREC, Kharghar, India.
- Recent Advances in Cancer and Cell Biology & 2nd Prof. V. V. Modi Memorial Lecture, January 6th 2018, MSU, Vadodara, India
- “Integrating Natural Products with Modern Techniques: An Interdisciplinary Approach”, 4th August, 2018, GUJCOST Sponsored National Workshop at Parul Institute of Pharmacy, Parul University, Vadodara