

CURRICULUM VITAE

Dr. POONAM SHARMA

B.Sc., M.Sc.[Biotechnology], Ph.D [Genetics]

Career Objective

Critical Thinker & Scientific professional with an aptitude for research & teaching; seeking a challenging work in R & D in Academia / Organization where I can hone my technical skills and leverage my learnings.

Education

❖ Ph.D in Genetics from Barkatullah University, Bhopal, Madhya Pradesh (2019).

Thesis Title: “Determination of Biological Dosimetry of Water Weeds in Swiss Albino Mice & Human Lymphocytes”.

Supervised by: Dr. N. Ganesh (Sr. Scientist & Head, Deptt. of Research, Jawaharlal Nehru Cancer Hospital & Research Centre, Bhopal).

❖ M.Sc. [Biotechnology] from Chinmaya Degree College affiliated to H.N.B Garhwal University, Garhwal, India (2007).

Dissertation Title: “Radio-protective potentiality of 50% Methanolic extract of *Adhatoda vasica*: Cyto - Geno analysis”

❖ B.Sc. from Sri Sathya Sai College for Women, affiliated from Barkatullah University, Bhopal (2005).

IT & Interpersonal Skills

- 1) Knowledge of Microsoft Word, Excel, PowerPoint
- 2) Excellent Communication & Presentation Skills
- 3) Proficient in report writing
- 4) Project Planning and Management; Successfully completed multiple projects in academia during Ph.D research.

Technical Skills

- 1) Proficient in Conventional Cytogenetic Techniques, G and C banding of human chromosomes, Human Lymphocyte culture.
- 2) Hands on experience with Inverted Microscope, Compound & Phase Contrast Microscope with image Analyzer, UV-Visible Spectrophotometer, Crude drug extraction, TLC, Column Chromatography, Agarose Gel Electrophoresis, Cellulose Acetate Paper Electrophoresis, MTT Assay, Tumor transplantation technique, Antioxidant Assay, Basic Microbiology techniques.

Awards & Fellowships

- 1) Senior Research Fellowship - Indian Council of Medical Research (2014-2016).
- 2) "Fellowship for Training of Young Scientist" - Madhya Pradesh Council of Science & Technology at 30th M.P. Young Scientist Congress, Bhopal, M.P. (2015).

- 3) Senior Research Fellowship - M.P Biotechnology Council Bhopal, M.P. (2009-2011).
- 4) **Fr. Gerard Memorial Women Scientist award** for best paper in oral category in National Conference on “Challenges in Life Sciences with Changing Environment”; Lucknow (2010).
- 5) Late Shri. Vasu Narayanan award for best disciplined scholar for the year 2008-2009.

Scholastic Achievements

- 1) First Prize in Poster presentation in National Seminar on "Disease vs Diagnostics: Current Scenario" sponsored by Department of Health Research at Bhopal Memorial Hospital & Research Centre, Bhopal (2016).
- 2) First Prize in Poster presentation in National Seminar on "Application of Radioisotopes and Radiation Technology in Industries, Agriculture, Healthcare and its Impact on Environment" at AISECT University, Bhopal in Association with Board of Radiation & Isotope Technology (BRIT) and National Association for Application of Radioisotopes and Radiation in Industry (NAARRI), (2015).
- 3) Second Prize in Poster presentation in ISCA & MPCST sponsored National Conference on "Emerging Trends in Biological Sciences" at Career College, Bhopal (2015).
- 4) First Prize in Oral Paper Presentation in National Conference on "Advances in Pharmaceutical Sciences And Chemistry” at National Institute of Technical Teachers Training and Research, Bhopal. (2012).
- 5) First Prize in Oral paper presentation in National Conference on “Recent trends in Life Sciences”, Chindwara, M.P.(2011).
- 6) First Prize in Poster presentation in National Conference on “Recent trends in Life Sciences”, Chindwara, M.P.(2011)

Certifications

- 1) Operator's Training Program on “Hematology Analyzer Beckman Coulter-LH 500" organized by Beckman Coulter at National Institute of Research in Environmental Health, Bhopal (2014).
- 2) Short-term Hands on Training on “Flow Cytometry Beckman Coulter-FC 500" organized by Department of Research, Jawaharlal Nehru Cancer Hospital & Research Centre, Bhopal (2014).

Workshops

- 1) "Prognostic Impact of Clinical & Molecular Genetics" organized by Department of Research, Jawaharlal Nehru Cancer Hospital & Research Centre, Bhopal (2019).
- 2) "Conventional and Molecular Cytogenetics" at Bhopal Memorial Hospital & Research Centre, Bhopal (2016).
- 3) "Research Methodology" Workshop at Bhopal Memorial Hospital & Research Centre, Bhopal organized by Indian Council of Medical Research (2015).
- 4) "International Biosafety Awareness Program" organized by American Society for Microbiology including workshop on "Culture of Responsibility" at High Security Animal Disease Laboratory, IVRI, Bhopal (2014).

Paper Publication

- 1) Radioprotective potentiality of 50% Methanolic extract of *Adhatoda vasica*, Cyto - Geno analysis, International Journal of Phytomedicine, ISSN 0975-0185, 2009
- 2) Evaluation of *in-vitro* Antitumor Property of Water Weeds (*Eichhornia crassipes* and *Pistia stratiotes*) by MTT Assay, International Journal of Medicine and Pharmaceutical Research, ISSN 2321-2624, 2018
- 3) *In-vivo* Determination of Wound Healing and Antitumor Properties of HPLC Eluted Fractions of Water Weeds (*Eichhornia crassipes* and *Pistia stratiotes*), Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences (RJLBPCS), ISSN 2454-6348, 2018

Total Experience [8.5 + Years]

Research Experience [5.5+ Years]

❖ Senior Research Fellow (Jan 2014 - Aug 2016)

Project Title: Cytogenetic analysis in MIC exposed population and their progeny

Sponsoring Organization: Indian Council of Medical Research

Location: National Institute of Research in Environmental Health, Bhopal

Responsibilities

- 1) Designed and Implemented qualitative & quantitative research plans in all stages of the project;
- 2) Conducted lymphocyte culture and chromosomal aberration analysis of 1800 human subjects approx.
- 3) Data Collection and interpretation
- 4) Statistical analysis of the results and project report preparation.

❖ Senior Research Fellow (June 2009- June 2011)

Project Title: Screening of water weeds *Eichhornia crassipes* and *Pistia stratiotes* for their antioxidant, anti-tumor and wound healing property

Sponsoring Organization: Madhya Pradesh Biotechnology Council

Location: Jawaharlal Nehru Cancer Hospital & Research Centre, Bhopal

Responsibilities

- 1) Crude drug extraction & phytochemical analysis of the extracted drugs
- 2) Screening of water weeds *Eichhornia crassipes* and *Pistia stratiotes* for their anti-oxidant, anti-tumor & wound healing properties by conducting experiments *in-vitro* & *in vivo*.
- 3) Statistical analysis of the data & project report preparation

Academic Experience [3.5+ Years]

❖ **Teacher (Science) in Bright Day School, CBSE Unit, Vadodara (October 2022 to December 2022)**

❖ **Assistant Professor at SAM Girls College, Bhopal (July 2011 -Dec 2013)**

Responsibilities:

- 1) Academic teaching for both Undergraduate and Post Graduate Programmes
- 2) Served as invigilator for Examinations
- 3) Conducted practical exams for students as both internal and external examiner
- 4) Evaluated assignments and Examination Answer scripts

Subjects Undertaken: Biotechnology, Botany, Zoology

❖ **PRT at Sagar Public School, Bhopal (Feb 2009 -May 2009)**

❖ **Assistant Professor at Indira Priyadarshini College, Chindwara, M.P. (June 2007-May 2008)**

Responsibilities:

- 1) Academic teaching for both Undergraduate and Post Graduate Programmes
- 2) Served as invigilator for Examinations
- 3) Evaluated assignments and Examination Answer scripts

Subjects Undertaken: Biotechnology & allied subjects

Paper Presentation

- 1) National Conference on "Innovation in Chemical and Environmental Science organized by Department of Engineering Chemistry and Chemical Engineering, Lakshmi Narain College of Technology and Science, Bhopal (2016).
- 2) 30th M.P. Young Scientist Congress organized by Madhya Pradesh Council of Science & Technology, Bhopal (2015).
- 3) National Seminar on "Recent Trends in Science & Technology organized by Indian Science Congress Association and Madhya Pradesh Council of Science & Technology (2015).
- 4) National Conference on "Emerging Trends in Biological Sciences organized by Career College, sponsored by Indian Science Congress Association and Madhya Pradesh Council of Science & Technology, Bhopal (2015).

- 5) National Seminar on “Innovations in Science and Technology for Inclusive Development organized by Madhya Pradesh Council of Science & Technology, Bhopal (2014).
- 6) National Conference on "Advances in Pharmaceutical Sciences And Chemistry organized by National Institute of Technical Teachers Training and Research, Bhopal (2012).
- 7) National Conference on “Recent trends in Life Sciences organized by Indira Priyadarshini College, Chindwara, Madhya Pradesh (2011).
- 8) 26th M.P. Young Scientist Congress organized by Madhya Pradesh Council of Science & Technology, Jabalpur (2011).
- 9) National Conference on “Challenges in Life Sciences with Changing Environment organized by Sacred Heart Degree College, Lucknow, Uttar Pradesh (2010).
- 10) 48th National Pharmacy Week organized by Technocrats Institute of Technology, Bhopal, Madhya Pradesh (2009).

Poster Presentation

- 1) National Seminar on "Disease vs Diagnostics: Current Scenario organized by Department of Health Research, Bhopal Memorial Hospital & Research Centre, Bhopal, Madhya Pradesh (2016).
- 2) National Seminar on "Application of Radioisotopes and Radiation Technology in Industries, Agriculture, Healthcare and its Impact on Environment organized by AISECT University, Bhopal in Association with Board of Radiation & Isotope Technology (BRIT) and National Association for Application of Radioisotopes and Radiation in Industry (NAARRI) (2015).
- 3) National Seminar on "Recent Trends in Science & Technology organized by Indian Science Congress Association and Madhya Pradesh Council of Science & Technology, Bhopal (2015).
- 4) National Seminar on “Innovations in Science and Technology for Inclusive Development Madhya Pradesh Council of Science & Technology, Bhopal (2014).
- 5) Presented at Indo-Taiwan Workshop organized at IFS College of Pharmacy, Moga, Punjab (2011).
- 6) National Conference on “Recent trends in Life Sciences organized by Indira Priyadarshini College, Chindwara, Madhya Pradesh (2011).
- 7) National Conference on “Challenges in Life Sciences with Changing Environment organized by Sacred Heart Degree College, Lucknow, Uttar Pradesh (2010).
- 8) National Conference on “Women and Child Malignancies organized by ICWCM, Bhopal, Madhya Pradesh (2010).
- 9) 33rd Annual International conference of Indian Society of Human Genetics on “Genetics Revisited: The Genomics and Proteomics Advantage organized by Indian Society of Human Genetics, Vishakhapatnam (2008).
- 10) National seminar on “Genome Analysis Perspective in the Post Genome Era and its Relevance to Society organized by Osmania University, Hyderabad (2007).

Conferences Participation

- 1) International Conference of Pharmacy (ICP-2019) on "Pharmacy: Realigning the focus on health" organized by Lovely Professional University, Punjab (2019).
- 2) National seminar on "Challenges towards Implementing CPCSEA Guidelines in Pharmacy Institutions" organized by RKDF College of Pharmacy, sponsored by Indian Council of Medical Research, Bhopal, Madhya Pradesh (2015).
- 3) National seminar on "Fostering Scientific Temper" organized by Vedula College of Pharmacy, Bhopal, Madhya Pradesh (2014).
- 4) 4th Indian Youth Science Congress organized by Rai Soni Group of Institutions, Nagpur, Maharashtra (2012).
- 5) Joint Annual conference of Central zone and M.P Chapter of Indian Orthopaedic Association organized by Indian Orthopaedic Association, Bhopal, Madhya Pradesh (2009).
- 6) National seminar on "Controlled and Targeted Drug Delivery: Nanotechnology" organized by Dr. Hari Singh Gour University, Sagar, Madhya Pradesh (2007).
- 7) National seminar on "Environmental Pollution and Sustainable Development" organized by Sri Sathya Sai College for Women, Bhopal, Madhya Pradesh (2004).

Camps Organized

- 1) "Cancer Awareness Camp" at Vigyan Mela, Mandla, M.P organized by Madhya Pradesh Council of Science & Technology (2015).
- 2) Tobacco Awareness Program on "World No Tobacco Day-31st May and International Yoga Day" at Jawaharlal Nehru Cancer Hospital and Research Centre, Bhopal (2015).
- 3) Tobacco Awareness Program on "World No Tobacco Day-31st May" at Jawaharlal Nehru Cancer Hospital and Research Centre, Bhopal (2014).
- 4) Cancer Awareness and Anti-Cancer Diet Program at Don Bosco Public School, Jhirpa, M.P. (2011).
- 5) Two days "Cancer Awareness Program" at B.H.E. Dr. Radhakrishnan Sr. Sec. School, Bhopal (2009).

Contact

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References: Available on request