

Dr. Kiran Bala Sharma

Department of Microbiology and Biotechnology
Rajkiya Kanya Mahavidyalaya
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Academia

- **Qualified HP SET (2017) and ICAR NET (2018).**
- **Ph.D. Biotechnology**
Department of Biotechnology,
Himachal Pradesh University, Shimla
- **M.Phil. Biotechnology**
Department of Biotechnology,
Himachal Pradesh University, Shimla
- **M.Sc. Microbiology**
Department of Biotechnology,
Himachal Pradesh University, Shimla

Teaching Experience

- Teaching Experience – 11 yrs at RKMV-Shimla, in the Department of Microbiology & Biotechnology
- Teaching assistant in the course of Recombinant DNA Technology – Postgraduate Curriculum
- Course work in research methodologies and scientific writing, Project management in Biotechnology and Enzyme technology

Awards/ Honours

- Granted stipend by the Department of Industries, Udyog Bhawan, Bemloe, Shimla-171001, Himachal Pradesh, (2018).
- Best paper presentation (1st prize) in National conference, 2018.
- Best paper presentation (1st prize) in International Conference, 2022.

Publications

- Paper published- 9

Conferences

- National - 4
- International -1
- Workshops-7

Technical expertise

Analytical instruments

UV-VIS Spectrophotometer, Ultrasonication, Autoclave, High Performance Liquid Chromatography, Gas Chromatography, RT-PCR, Nanodrop, BSL-2.

Microbiology & Virology

Isolation, characterization and maintenance of bacterial cultures, Yeast culture, Probiotic strains, identification of bacteria/Yeast, screening of microbes for industrial enzymes, strain preservation (lyophilization).

Animal cell culture techniques.

Protein purification FPLC, SDS & native PAGE.

Biochemical engineering Laboratory fermenter (7lt).

Recombinant DNA technology

Transformation of E. coli, genomic DNA isolation from bacteria, plant, plasmid isolation, restriction digestion & ligation of DNA, DNA amplification by PCR, Southern Blotting, RNA extraction & Cloning Enzyme technology Assay of various enzyme, ELISA.

Computers/Bioinformatics

Biostatistics, Microsoft Word, Excel, Power Point, SigmaPlot, MEGA software, BLAST, SPSS & RSM.