

Bio-Data

Dr Poonam kumari
PhD in Microbiology (NET)
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RKMV Shimla

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Education

Degrees	University/Department	Subjects/Topic
Ph D in Microbiology 2017	Department of Applied Sciences and Biotechnology, Shoolini University Solan	Isolation, characterization and applications of an alkaliphilic thermo tolerant protease from <i>Bacillus</i> sp.
M.Phil in Biotechnology 2011	Department of Biotechnology, Himachal Pradesh University, Shimla, India	Isolation and purification of protease from soil samples
M Sc in Microbiology 2009	Himachal Pradesh University, Shimla, India	Microbiology
B.Sc in Medical 2007	RKMV Shimla	Zoology, Botany, Chemistry

Work Experience

1. Currently working as Guest faculty in **RKMV Shimla** in the department of Microbiology and Biotechnology from 20.08.2022
2. Worked as Microbiologist in COVID-19 Testing Facility in **Regional Forensic Science Laboratory Mandi (H.P)** from July 2021 to 30th June 2022
3. Worked as Assistant Prof. in **Shoolini Institute of life Science and Business Management, Solan,** Himachal Pradesh (India) from August 2011 to June 2019.

Awards

1. **Receiving Rajiv Gandhi National fellowship for Ph.D program from UGC Delhi**
2. **Qualified for Agricultural Research Scientist (NET), 2018**

Academic achievements

Paper published: 6

Conferences: 4

Training/ Project:

1. A project work entitled, “In process detection of microbial contaminants of Beer and their elimination by Pasteurization at Mohan Meakin Pvt Limited, Solan”
2. One month training on COVID-19 testing at Shri Lal Bahadur Shastri Govt. Medical College Mandi at Nerchowk

Technical expertise

Analytical instruments

UV-VIS Spectrophotometer, High Performance Liquid Chromatography, Gas Chromatography, RT-PCR, BSL-2

Microbiology

Isolation, characterization and maintenance of bacterial cultures, identification of bacteria, screening of microbes for industrial enzymes, strain preservation (lyophilization)

Protein purification

SDS & native PAGE

Biochemical engineering

Laboratory fermenter (2lt)

Recombinant DNA technology

Transformation of *E. coli*, genomic DNA isolation from bacteria, plasmid isolation, restriction digestion & ligation of DNA, DNA amplification by PCR, Southern Blotting, RNA extraction

Enzyme technology

Assay of various enzyme

Computers/Bioinformatics

Internet, Microsoft Word, Excel, Power Point, Adobe, Photoshop, SigmaPlot, BLAST.

