

Dr. Pushpendra Baghel



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Personal Details

- Date of Birth: 05/02/1999
- Sex: Male
- Languages: English, Hindi

Career Objective

I aspire to build a career in veterinary microbiology where I can learn continuously, contribute to research with sincerity, and exchange knowledge within the scientific community. My goal is to grow both personally and professionally while supporting research that leads to practical improvements in animal health.

Educational Qualifications

Degree	Year	Institute	% / OGPA
M.V.Sc.(Veterinary Microbiology)	2025	ICAR-IVRI Izatnagar, Bareilly, U.P.	7.832/10
B.V.Sc. & A.H.	2023	College of Veterinary Science & Animal Husbandry, NDVSU Jabalpur, M.P.	7.7/10
12 th Board	2016	Jain Public School, Jhabua, (CBSE Board)	72%
10 th Board	2014	Jain Public School, Jhabua, (CBSE Board)	7.4/10

M.V.Sc. Thesis

- Genomic and transcriptomic analysis of *Pasteurella multocida* N-acetylglucosaminyltransferase (*nctA*) gene-deletion mutant.

Core Technical Skills

- CRISPR-Cas9
- Allelic exchange
- DNA/RNA sequencing data interpretation
- Analysis for genomic and transcriptomic studies
- Bacterial conjugation, mutant screening
- Bacterial transformation methods
- DNA isolation and plasmid extraction
- Basic microbiological and laboratory techniques
- Primer designing & sequence analysis
- Preparation of bacterial competent cells
- Bioinformatics Tools: Snapgene, DNASTAR
- Gibson assembly, Colony PCR
- Agarose gel electrophoresis
- Molecular cloning workflows
- Bacterial isolation & characterization

Training & Certification

- Five-day training programme on “CRISPR-Cas mediated genome editing for vaccines and diagnostics.”

Publication

- Popular Article: **Pushpendra Baghel**^{1*}, Pankaj Dhakarwal², Oral Rabies Vaccine: Opportunity and Challenges., DOI: <https://doi.org/10.5281/zenodo.10496251>

Fellowship

- ICAR-IVRI Institutional Scholarship for M.V.Sc.

Registration with Veterinary Regulatory Bodies

- Madhya Pradesh State Veterinary Council
- Veterinary Council of India

References

- Dr. K. N. Viswas
Principal Scientist, ICAR-IVRI Bengaluru
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I confirm that the information shared in this CV reflects my background and experience accurately and honestly.