

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-acetylglicosaminyltransferase (*nctA*) gene-deletion mutant.

Core Technical Skills

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

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.