



Dr. Rajeshwar Khandare

BVSc, MVSc and PhD, Animal Biotechnology (ICAR-NET)

Phone 82085

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To use and exploit my knowledge and skills to the best of my potential in research and educational organizations for the benefit of mankind.

Core Competencies

A) Molecular Techniques: 1. Real time PCR, PCR, flowcytometry, SDS-PAGE, Transfection, Western blotting, spectrophotometry, Lyophilization, ultra centrifugation. 2. Isolation of plasmid DNA, Restriction digestion, Ligation, PCR, Transformation 3. Synthesis and characterization of nanoparticles-DLS, FTIR, SEM

B) Cell Culture: Development of cell lines from primary culture, (Virus handled: Rabies Virus and PPRV)

a) Cells maintained- BHK-21 and Vero cells

b) Upscaling of rabies virus in BHK-21

c) Inactivation and concentration of rabies virus

d) Potency testing

e) RFFIT and titration

C) Animal Experiments: Raising Hyperimmune sera (Mice, Rabbit, Sheep, Goat), Expertise in sera collection from Rat, Mice, Rabbit, Sheep and goat

D) Computer Knowledge : All basic knowledge required for research experiment (Bioinformatics and micro office)

E) Immunological assays: Immuno-electrophoresis, ELISA, and Immunohistochemistry.

Leadership Skills:

- Demonstrated ability to generate innovative solutions to problems

Research Profile

1. MVSc- Evaluation of miRNA and Protein Biomarkers Associated with Canine Mammary Tumors
2. PhD- Evaluation of mesoporous silica nanoparticle as an immunoadjuvant for nucleic acid based and inactivated vaccine for Rabies.

Minor Subjects in Masters and Phd-

- Animal Biochemistry
- Microbiology

Professional Activities

Technical Publications

- Mahvash Hira Khan, Shantanu Kodape, **Rajeshwar Khandare**, Aditya Agrawal, Anil Gattani. The Pharma Innovation Journal 2021; SP-10(12): 757-758.
- Rajkumar James Singh, Sameer Shrivastava, Pallavi Shah Sonal, Purnima Gogoi, Saumya Srivastava, Shahid Hussain, Deepanker Bisht, Shantanu Kodape, **Rajeshwar Khandare**, Raj Kumar Singh. Biophysical Characterization of Chemically Synthesized Antimicrobial Peptide 'Mastoparan' and Evaluation of its Activity on Staphylococcus aureus Isolated from Mastitic Milk. *Int. J. Curr. Microbiol. App. Sci.* 8(11), 368-374.
- Bashetti, P. N., Avhad, C., Kshirsagar, A., **Khandare, R.**, Kurhe, R., Namapalle, M., & Bansod, A. (2024). Navigating Nipah virus outbreaks: Epidemiology, one health strategies, and pathological insights in India. *International journal of veterinary science and animal husbandry*, 9(1): 1441-1446.
- Chaitrali Avhad, Amit Kshirsagar, **Rajeshwar Khandare**, Rohit Kurhe, PN Bashetti, Mukesh Namapalle, Ashvini Bansod. *International Journal of Veterinary Sciences and Animal Husbandry* 2024; 9(1): 1419-1422.
- Mukesh Tukaram Nampalle, Ashim Kumar Biswas, **Rajeshwar Khandare**, Jayanti Laxmanrao Agashe, Jaydeep Jayvant Rokade, Jyotirmoy Saharia, Ashvini P Bansod, Avishek Biswas. *The Pharma Innovation Journal* 2023; SP-12(7): 1896-1904.
- D Bisht, S Saxena, **R Khandare**, P Kumar, P Shah, S Shrivastava. Viral nucleocapsid gene based real-time polymerase chain reaction assay for estimation of Peste des petits ruminants virus titre in infected cells. *Indian J. Comp. Microbiol. Immunol. Infect. Dis.* Vol. 44, No. 1 (January-June), 2023: 1-7.
- Mahvash Hira Khan, Shantanu Kodape, **Rajeshwar Khandare**, Aditya Agrawal, Anil Gattani. Laboratory diagnosis of brucellosis. *The Pharma Innovation Journal* 2022; SP-11(1): 1366-1367.
- **Rajeshwar Khandare**, Sonal Saxena, Sameer Shrivastava, Pradeep Kumar, Deepanker Bisht, Vinay Kumar, Owais Khan, Bhavna Kachve. In vitro immunofluorescence assay for the detection of silica nanoparticle bounded rDNA expressed glycoprotein for rabies. *International Journal of Advanced Biochemistry Research* 2024; SP-8(2): 348-351.
- PN Bashetti, Rohit Kurhe, **Rajeshwar Khandare**, Ashvini Bansod, Mukesh Namapalle, Amit Kshirsagar, Chaitrali Avhad. One health perspective for infectious diseases of animals. *International Journal of Advanced Biochemistry Research* 2024; SP-8(2): 450-456.
- Ashvini Bansod, **Rajeshwar Khandare**, Bharat Shindhe, Vitthal Shelke, Rohit Kurhe,

management in the Networked Digital Environment (2019).

- Attended 15 days training cum certificate programme on trending novel technologies in agriculture, animal husbandry, fisheries sciences and Their Allied systems (15-30 january, 2023).
- Attended 10 days training, Maharashtra shasan krida va yuvak seva sanchalay , rajya yuva prashikshan Kendra, Pune.
- Attended five days training programme on practical approaches to bioinformatics and omics technologies, ICAR-IVRI, Izatnagar, Bareilly, UP 10-14 october, 2022).
- Attended ten days training programme on synthetic peptide biology, ICAR-IVRI, Izatnagar, Bareilly, UP (21-30 september, 2023)
- Attended three days training programme on Use of Bioinformatics tools in Animal science research, ICAR-IVRI, Izatnagar, Bareilly, UP (16-18 january, 2019)

Personal Details

Date of Birth: 15^h June, 1992

Languages:

English, Hindi and Marathi

Address:

Antule Nagar, Andharwadi,
Tah+Dist, Hingoli, 431513.
Maharashtra

- Pradeep Kumar, Sonal Saxena, Abha Trivedi, Sameer Shrivastava, Deepankar Bisht, **Rajeshwar Khandare**, Sugam Patel and JJJumman Bakhsh. Cloning expression of recombinant canine TP 53 gene and confirmation of its serological reactivity with rabbit hyperimmune sera. 2023. National Conference on strategies for management of bioresources. Mahatma jyotiba Phule Rohilkhand University, Bareilly, Uttarpradesh.
- Noopur Dutta, Sonal Saxena, Sameer Shrivastava, **Rajeshwar Khandare**, Deepankar Bisht, Saminathan M and Navven Kumar. 2020. Heterologous Expression and Immunological characterization of immunodominant region in canine protein disulfide isomerase A3 (PDIA3). National conference on challenges and threats of microbes to animals and humans. ICAR-IVRI, Izatnagar.

Education

- **2024:** PhD in Animal Biotechnology from ICAR-IVRI, Izatnagar, Bareilly, UP, India.
- **2019:** Master in Animal Biotechnology from ICAR-IVRI, Izatnagar, Bareilly, UP, India.
- **2017:** Bachelor of Veterinary Science and Animal Husbandry from Maharashtra Animal and Fishery Sciences University, Nagpur, Maharashtra
- **2010: 12th (Science)** from Central Board of secondary education, Javahar Navoday Vidyalaya, Bamatnagar, Maharashtra
- **2008: 10th** from Central Board of secondary education, Javahar Navoday Vidyalaya, Bamatnagar, Maharashtra