

Dr. Deepak Kumar Sharma,
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EDUCATION-

- **PhD** (Veterinary Microbiology)
- **M.V.Sc.** (Veterinary Microbiology) with university Gold medal
- **ICAR, National Eligibility Test (NET)**
- **B.V.Sc &AH**

RESEARCH INTEREST

- Antibiotic drug resistance and virulence factors of Bacteria
- Innate immune response in following Bacterial/ viral infections
- Molecular epidemiology of Veterinary and Zoonotic importance pathogens

RESEARCH PROJECTS/ UNITS:

- **Project incharge** of ICAR sponsored Field network unit of National Center of Veterinary type Culture, Hisar at Department of Veterinary Microbiology(VMC) College of veterinary and animal science(CVAS) Navania Udaipur, Rajasthan India
- **Nodal Officer cum Project Incharge** of National Center for Disease Control, Government of India Sponsored Sentinel Surveillance of National one Health programme for prevention and control of Zoonoses (NOHCPZ), at VMC, CVAS Navania Udaipur, Rajasthan India
- **Principal Investigator** of RAJUVAS Sponsored Revolving fund project Pilot Project on Alternate Energy Generation through Biogas at CVAS Navania Udaipur

ADMINISTRATIVE OR OTHER RESPONSIBILITIES:

- Incharge Department of Veterinary Microbiology, College of veterinary and animal science(CVAS) Navania Udaipur, Rajasthan India
- Incharge TSP services Cell, CVAS, Navania Udaipur, Rajasthan India
- Incharge Research Cell, CVAS, Navania Udaipur, Rajasthan India

AWARDS AND DISTINCTIONS

- Certificate of merit and gold medal in M.V.Sc.
- Certificate of appreciation by **Honorable vice-chancellor** of RAJUVAS on **15 August 2016**
- Certificate of appreciation by **Honorable vice-chancellor** of RAJUVAS on **15 August 2017**
- Public Health foundation of India fellowship award

- Certificate of appreciation by **Dean college of veterinary and animal science Navania Udaipur** on **15 August 2020**
- Certificate of appreciation by **Honorable vice-chancellor** of RAJUVAS on **26 Jan 2021**

PATENT APPLIED:

"Formulation of bacterial consortia for organic waste decomposition" Patent Application No. 202111008533 Under publication

TEACHING EXPERIENCE (14 years as Assistant professor)

- Rajasthan University of Veterinary and animal sciences, College of veterinary and animal science Navania Udaipur Assistant professor Veterinary Microbiology, July 2014 To till date
- Apollo College of Veterinary Medicine Jaipur an Affiliated college of Rajasthan University of Veterinary and animal sciences, Assistant professor, Veterinary Microbiology, December 2005 to May 2009

RESEARCH EXPERIENCE

- **Veterinary clinical Laboratory work experience** – Four years' experience in Laboratory as veterinary officer in regional disease diagnostic center Department of Animal Husbandry Govt. of Rajasthan (From 2011 to 2014)
- **PhD Thesis dissertation:** Dynamics of Inflammasome following exposure of PPR virus
- **Public Health foundation of India fellowship:** Prevalence of *Mycobacterium bovis* using comparative intra dermal tuberculin test on cattle in small holder Peri-Urban Dairy farms in India
- **DRDE sponsored Research project:** Evaluation of usefulness of *Brucella abortus* Recombinant Protein for the Sero-diagnosis of Bovine Brucellosis in and around Udaipur
- **M.V.Sc. Thesis dissertation:** Studies on Colicin production, identification and characterization of Fimbrial antigens of *Escherichia coli* strains associated with calf diarrhea
- **Research Associate :** NATP MM project on “Development of diagnostic reagents and technologies for equine Herpes virus -1”
- **Senior Research Fellow:** NATP MM project on “Diagnosis of parasitic diseases of domestic animals”

FIELD/ EXTENSION WORK EXPERIENCE

- As Veterinary officer Rajasthan Cooperative Dairy Federation Ltd Bhilwara two years (from 2002-2004)
- As Veterinary officer Department of Animal Husbandry Govt. of Rajasthan two years (2009 to 2011)

NCBI Submission- Following sequences has been submitted numbers only-

- **Avian coronavirus** strain ACV/India/N01/2019 accession number **MT229663**
- **Chicken astrovirus** strain accession number **MT263725 and MT263726**
- ***Burkholderia multivorans strain BPSS Burkholderia multivorans strain*** accession numbers KT210887, KT223027
- *Bacillus badius* , *Bacillus licheniformis strain SB-2-3*, *Bacillus subtilis strain SB-2-7* , *Bacillus subtilis strain SB-5-3*, *Bacillus subtilis strain SB-6-3* accession numbers KT005830, KT005831, KT005832, KT005833, KT005834
- ***Burkholderia multivorans strain*** accession numbers KT210887

MICROORGANISM SUBMITTED TO NATIONAL REPOSITORY-

- *Salmonella* Welteverden isolated from Poultry enteritis submitted to NCVTC, Hisar
- *Pusomonas Auriginosa* Multidrug resistant strains, submitted to NCVTC, Hisar

PUBLICATION

1. Kumar, R., Kamboj, H., Dhanda, S., Verma, A., Chander, Y., Nehra, K., Bhati, A., Dedar, R. K., **Sharma, D. K.**, Barua, S., Tripathi, B. N., Sharma, S., & Kumar, N. (2024). Identification of miR-29a as a novel biomarker for lumpy skin disease virus exposure in cattle. *Virulence*, 15(1), 2324711. <https://doi.org/10.1080/21505594.2024.2324711> (**NAAS rating 11.20**)
2. Dhanda, S., **Sharma, D.K.**, Kamboj, H. *et al.* (2024). Evaluation of the immune responses in buffaloes vaccinated with a live-attenuated lumpy skin disease vaccine (Lumpi-ProVac^{Ind}). *Trop Anim Health Prod* **56**, 226 <https://doi.org/10.1007/s11250-024-04089-6> (**NAAS rating 7.99**)
3. Sain, A., **Sharma, D. K.**, Singathia, R., Gaurav, A., Patidar, C., Suthar, P., Rathore, K., & Juneja, R. (2024). Antibiotic resistance and virulence genes profile of Non typhoidal Salmonella species isolated from poultry enteritis in India. *Tropical animal health and production*, 56(2), 91. <https://doi.org/10.1007/s11250-024-03932-0> (**NAAS rating 7.99**)
4. **Sharma, D. K.**, Joseph B, Singathia R Gaurav A., and Kumar V., (2023) Inflammasome Activation and Pro-inflammatory Cytokine Genes Expression Following Exposure of PPRV in Vero Cells. *Indian Journal of Animal Research*. DOI: i10.18805/IJAR.B-5102 (**NAAS rating 6.44**)
5. Kumar, N., Barua, S., Kumar, R., Khandelwal, N., Kumar, A., Verma, A., Singh, L., Godara, B., Chander, Y., Kumar, G., Riyesh, T., **Sharma, D. K.**, Pathak, A., Kumar, S., Dedar, R. K., Mehta, V., Gaur, M., Bhardwaj, B., Vyas, V., Chaudhary, S., ... Tripathi, B. N. (2023).

- Evaluation of the safety, immunogenicity and efficacy of a new live-attenuated lumpy skin disease vaccine in India. *Virulence*, 14(1), 2190647. <https://doi.org/10.1080/21505594.2023.2190647> (**Naas rating 11.20**)
6. Gurjar, N. R., Shringi, B. N., Kumar, R., Miland, M., & **Sharma, D. K.** (2023). Cytokine profiling in the acute phase of viral vaccination in Poultry. *The Indian Journal of Animal Sciences*, 93(6), 561–565. <https://doi.org/10.56093/ijans.v93i6.133621> (**Naas rating 6.4**)
 7. Patidar., C., **Sharma, D. K.**, Singathia, R., Suthar, P., Saraswat, A., JOSHI M. and Purohit K. (2021)Molecular detection of avian coronavirus (Infectious bronchitis virus) associated with poultry enteritis *Indian Journal of Poultry Science* (2021) 56(2): 173–179; DOI: 10.5958/0974-8180.2021.00020.9 (**Naas rating 5.85**)
 8. Patidar., C., Sharma, D. K., Singathia, R., Suthar, P., Saraswat, A., Singh, G., Purva, M. and Sain, A. (2021). Molecular Detection and Phylogenetic Analysis of Chicken Astrovirus associated with Poultry Enteritis. *Indian Journal of Animal Research*. DOI: 10.18805/IJAR.B-4526. (**NAAS rating 6.44**)
 9. Saraswat A. Sharma D. K. Joseph B. Singathia R. Patidar C. Suthar P. and Singh G. 2021 Molecular Survey of Enteric Viruses Associated with Poultry Enteritis in Southern Rajasthan, India *International Journal of Livestock Research* 11(1)75-81 DOI-<http://dx.doi.org/10.5455/ijlr.20200831062702>
 10. Tiwari A, Pal V, Atley P, Sharma D. K., Bhatanagar C.S., Bhardwaj B. Roi G.P. and Kumar S. 2015: Real time PCR carried out on DNA extracted from serum or blood sample is not a good method for surveillance of bovine brucellosis. *Torp Anim. Health Prod.* DOI 10.1007/s11250-014-0664-8 (**NAAS rating 7.56**)
 11. Sharma D. K., Joseph B., Singathia R., Dadich R., Gaurav A., Sharma S.K., Nagda R. K., Kumar V., and Shokal K., 2020 Expression Profile of IL-1b in Peste Des Petits Ruminants (PPR) Vaccinated Goats. *Asian Journal of Microbiology, Biotechnology and Environmental Science* 22(4).637-641 (**NAAS rating 5.0**)
 12. Sharma D. K., Joseph B, Singathia R., Nagda R.K., Sharma M., Barolia S.K., 2019 Standardization of Quantitative Real Time PCR (QRT-PCR) for Detection of Inflammasome following Exposure of PPR Vaccine in Goats. *Asian Jr. of Microbiol. Biotech. Env. Sc.*Volume21 (3)779-784(**NAAS rating 5.0**)
 13. Sharma D. K., Bhardwaj B., Chouhan H.C., Chandel B.S.et al.,(2018) Isolation and Molecular Characterization of *Brucella melitensis* from Abortion Storms in Sheep with its Zoonotic Implications *Int. J. Curr. Microbiol. App. Sci*, (7) 10 PP 1348-1356
 14. Rathore, K., Joseph, B., Sharma, D. K., Gaurav, A., Sharma, S. K., Milind, M., Patel, P., Prakash, C., & Singh, L. (2018). Evaluation of multiplex polymerase chain reaction as an

- alternative to conventional antibiotic sensitivity test. *Veterinary world*, 11(4), 474–479.
<https://doi.org/10.14202/vetworld.2018.474-479>
15. Bhatnagar C.S., Bhardwaj B., Sharma D. K and Meena S.K., (2015) Incidence of Haemoprotozoan diseases in Cattle in Southern Rajasthan, India, *Int. J. Curr. Microbiol. App. Sci* 4(3):509-514
 16. Sharma, D. K. Soni S. S., Kashyap S. K., and Shringi B. N. (2004) Seroprevalance, antibiotic sensitivity pattern and transfer of plasmid coded characters of *Escherichia coli* associated with calf diarrhoea. *Indian Veterinary Journal*, , Vol. 81, No. 1, 6-8 ref. 23
 17. Singh S., Borah M. K., Sharma D. K., Joshi G. D., Gogoi R. 2009, Aspergillosis in turkey poultis *Indian Journal of Veterinary Pathology*: 33, Issue : 2 (220- 221)
 18. Sharma D. K., Jallewar P.K., and Sharma K. K., (2010) Antibiogram of bacteria isolated from bovine subclinical mastitis. *Indian Veterinary Journal* : 87(4) 407
 19. Sharma D. K., G. Joshi, Singathia R. and Lakhotia R. L. (2009) Zooanthroponosis of *Microsporium Gypseum* Infection Haryana Vet. 48 (December, 2009), pp 108-109
 20. Singh, P., Barolia, S. K., & Sharma, D. K. (2015). Isolation, Characterization and Identification of Bacillaceae bacterium spp.(GenBank Accession No: KF777817) from Fecal Contents of *Pteropus giganteus* in Udaipur, Rajasthan, India. *International Journal of Advanced Research*, 3(8), 331-335.
 21. Swarnakar G., Sharma D., Sanger B., Roat K. (2014,) Infestation of ear mites *Psoroptes cuniculi* on farm rabbits and its anthrozoonosis in Gudli village of Udaipur district, India. *International Journal of Current Microbiology and Applied Sciences*: 3(3), 651-656
 22. Sharma D. K., Joshi G., Singathia R. And Lakhotia R. L. (2010) Fungal Infections In Cattle in a Gaushala At Jaipu.r Haryana Vet. 49 (December, 2010), pp 62-63
 23. Sharma, D. K., Joshi, G., Lakhotia, R. L., & Sharma, K. (2010). Canine dermatophytosis. *Indian veterinary journal*, 87(6), 610-611.
 24. Synergic effect of β -carotene in reproductive functioning of dairy cows Bhatnagar P.C., Choudhary J.L., Bhardwaj B., Shakhar C. and Sharma D. K. *Journal of Entomology and Zoology Studies* 2020; 8(1): 700-702
 25. P.C. Bhatnagar, Choudhary J. L. , Bhardwaj B. , Shakhar C. , Gupta L. and Sharma D. K. (2020) Effect of Different Hormonal Protocols and Nutrient Supplementation on Reproductive

- Performance of Cattle under Different Field Conditions Int. J. Curr. Microbiol. App. Sci 9(1): 1511-1522
26. Singh P., Barolia S. K. and Sharma D. K. (2015) Identification, Isolation and Characterization of Enterococcus species (Gen Bank Accession No: KF777815) from Fecal Contents of *Pteropus giganteus* Int. J. Curr. Microbiol. App. Sci 4(3): 143-149
27. Singh, P., Barolia, S. K., & Sharma, D. K. (2015). Isolation, Characterization and Identification of Bacillaceae bacterium spp.(GenBank Accession No: KF777817) from Fecal Contents of *Pteropus giganteus* in Udaipur, Rajasthan, India. *International Journal of Advanced Research*, 3(8), 331-335.
28. Sharma D. K., Singathia R., Bhatnagar C.S., Manne V. and Meena S. (2020) Acute anaplasmosis in a holstein-friesian cross breed cattle: A case report International Journal of Chemical Studies 2020; 8(1): 1154-1156
29. Goswami, H., Sharma, D., Swarnakar, G., & Meena, S. (2018). Prevalence and Antibiotic Susceptibility of Bacterial Isolates associated with Cow and Buffalo Mastitis in Udaipur of Rajasthan. *Advances in BioResearch*, 9(1).
30. Milind M., Joseph B., Sharma D.K. , Gaurav A., Sharma M.C., and Prakash C. (2018) Status of Peste Des Petits Ruminants in Small Ruminants of Semi Arid Regions of Rajasthan Int. J. Curr. Microbiol. App. Sci 7(12)
31. Sharma D.K., and Soni S.S. (2008) Occurrence of Salmonella typhimurium and Salmonella weltevreden from diarrhoeic bovine calves. *Veterinary Practitioner* 9(2):125-126.
32. Sharma, D.K, Singathia, R., & Rathore K. (2021) Bovine Brucellosis Outbreaks and their Successful Management by Adulthood Vaccination at Udaipur Region of Southern Rajasthan. *International Journal of Livestock Research* 11(5)11-16
33. Sharma D.K., Joseph B., Singathia R., Nagda R.K., Sharma M., Barolia S.K. Standardization of Quantitative Real Time PCR (QRT-PCR) for Detection of Inflammasomes following Exposure of PPR Vaccine in Goats Asian J. of Microbiol. Biotech. Env. Sc 21(3) 779-784
34. Sharma D. K., Soni S. S., and Kashyap S. K., (2005) Characteristics of *Escherichia coli* strains associated with calf diarrhea Indian Veterinary Journal Vol. 82, No. 12, 1241-1243
35. Bairwa V.C., Gaurav A., Sharma D. K., Sharma S. and M. Doot (2023) Detection of Virulence Genes in Multidrug Resistant *Escherichia coli* Isolated from Bovine Subclinical Mastitis *Veterinary Practitioner* 23 (2) 393-396

36. Singathia, R., Sharma, D.K., Solanki S., Gaurav A., & Rathore K. (2021)Prevalence of Subclinical Mastitis in Cattle in and Around Udaipur District of Rajasthan Veterinary Practitioner 23(2): 296-98
37. Milind , M., Joseph, B*., Sharma, D. K., Gaurav, A., Sharma, M.C., Chandan, P., Rathore, K., and Patel P (2017)Sero-prevelance of Peste Des Petits Ruminants In Goats of Southern Rajasthan, India. Ruminant Science 6 (1)133-136
38. Swarnakar, G., Sharma D.and Goswami H.(2017)Biofilm formation, hemolysin, production and antimicrobial susptibilities of Staphylococcus aureus isolated from the mastitis milk of buffalos in Udaipur India. International International Journal of Veterinary Sc 6(1)1-6
39. Singh P. , Barolia S. K., Sharma D. K. and Patni A. (2016) Molecular Characterization and Identification of Bacillus spp. MLSU-PSSKB Isolated from Fecal Contents of Pteropus giganteus in Udaipur, Rajasthan, Indian Journal of Applied Life Sciences International 5(4): 1-6
40. Sharma, D.K, Singathia, R., & Rathore K (2021)Bovine Brucellosis Outbreaks and their Successful Management by Adulthood Vaccination at Udaipur Region of Southern Rajasthan. International Journal of Livestock Research 11(5) 11-16 <https://doi.org/10.5455/ijlr.20201205063036>

BOOK PUBLISHED:

Sharma D.K. and Singathia R., (2024) Realization of one health concept through New age Research Technology published by Indian Association of Veterinary Microbiologist and Specialists of infectious Diseases of livestock.

Life Membership of institutions / societies etc.-

1. American Society Microbiology
2. Society of veterinary sciences and biotechnology
3. Indian association of veterinary microbiologists, immunologist and specialists in infectious diseases
4. Society for immunology and Immunopathology
5. Indian society for advancement of Canine Practice
6. Indian veterinary association
7. Rajasthan Veterinary council