

## Resume

### **Dr. RAM KUMAR**

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### **ACADEMIC CREDENTIALS**

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- 2022: Ph.D. (Veterinary Microbiology)** from Rajasthan University of Veterinary Sciences, Bikaner, India-334001
- 2018: M.V.Sc. (Veterinary Microbiology)** from Rajasthan University of Veterinary Sciences, Bikaner, India-334001
- 2016: B.V.Sc. & A.H.** from Rajasthan University of Veterinary Sciences, Bikaner, India-334001

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### **AWARDS (n=3):-**

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1. Gold Medal in B.V.Sc. & A.H.
2. Gold Medal in Ph.D.
3. Best Poster presentation award in annual conference of IAVVR-2022

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### **TEACHING AND OTHER APPOINTMENTS**

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All B.V.Sc. & A.H. courses offered by the Department of Veterinary Microbiology as per VCI syllabus, with a focus on demonstrating their practical applications.

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### **PUBLICATION (n=26):-**

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1. **Ram Kumar**, Shweta Dhanda, Assim Verma, Yogesh Chander, Himanshu Kamboj, Kuldeep Nehra, Sanjay Barua, Bhupendra N. Tripathi, Shalini Sharma, Naveen Kumar (2024). “**miR-29a serves as a biomarker for functionality of T-cells and determines susceptibility to LSDV infection in different breeds of cattle**”. *Virulence*, 15(1):2324711. (Impact factor: 5.428).
2. Assim Verma, Ramesh Kumar Dedar, **Ram Kumar**, Yogesh Chander, Himanshu Kamboj, Garvit Kumar, RekhaVerma, Santosh Kumari, Shalini Sharma,

- Bhupendra N Tripathi, Sanjay Barua & Naveen Kumar (2024). **“Hesperetin blocks poxvirus replication with a low tendency to select for drug-resistant viral variants.”** *Journal of Medical Virology*, 96(4), e29555. (Impact factor: 4.0).
3. Naveen Kumar, Shalini Sharma, **Ram Kumar**, Virendra Kumar Meena, and Sanjay Barua (2024). **"Evolution of drug resistance against antiviral agents that target cellular factors."** *Virology*, 600:110239. (Impact factor: 4.0).
  4. Priyasi Mittal, Nitin Khandelwal, YogeshChander, AssimVerma, **Ram Kumar**, ChayanikaPutatunda, Sanjay Barua, Baldev Raj Gulati& Naveen Kumar (2024). **“p38-MAPK is prerequisite for the synthesis of SARS-CoV-2 protein.”** *Virus Disease*, 1-9. (NAAS rating: 5.83).
  5. Shweta Dhanda, Deepak Kumar Sharma, Himanshu Kamboj, Garvit Kumar, Priyasi Mittal, **Ram Kumar**, Assim Verma, Karishma Rathore, Mitesh Gaur, Sanjay Barua, Bhupendra NathTripathi, Shalini Sharma & Naveen Kumar (2024). **“Evaluation of the immune responses in buffaloes vaccinated with a live-attenuated lumpy skin disease vaccine (Lumpi-ProVacInd).”** *Tropical Animal Health and Production*, 56(7):226. (Impact factor: 4.5).
  6. Shalini Sharma, Khushbu Sharma, **Ram Kumar**, Deen Dayal, Shweta Dhanda, Naveen Kumar, Kundan Kumar Chaubey, ShoorVir Singh, Sikander Banger & Vishal Sharma (2024). **“Evaluation of Immune Exhaustion and Co-Inhibitory Receptor Expression in Mycobacterium avium Subspecies paratuberculosis (MAP) Seropositive Diarrhoeic Bovines.”** *Pathogens*, 13(6):473. (Impact factor: 4.7).
  7. SakshiPandita, AssimVerma, **Ram Kumar**, Yogesh Chander, DevenderYadav, Sanjay Barua, and Naveen Kumar (2023). **"miRNA profiling of lumpy skin disease virus infected primary lamb testicle cells"**. *Archives of Virology*. (Impact factor: 2.685)
  8. **Ram Kumar**, Sanjay Barua, Bhupendra N. Tripathi& Naveen Kumar (2023). **“Role of ROCK signaling in virus replication”**. *Virus Research*, 329:199105. (Impact factor: 6.286).
  9. Narasi R Gurjar, BrijnShringi, MahenderMiland, **Ram Kumar** & Deepak K Sharma (2023). **“Cytokine profiling in the acute phase of viral vaccination in Poultry”** *Indian Journal of Animal Science*, 93(06):561-565 (NAAS rating: 6.32).
  10. **Ram Kumar**, Yogesh Chander, Assim Verma, Bhupendra N. Tripathi, Sanjay Barua, & Naveen Kumar (2023). **"A novel HRM-based gap-qRT-PCR for identification and quantitation of the vaccine and field strain (s) of lumpy skin**

- disease virus." *Journal of Immunological Methods*, 519:113521. (Impact factor: 2.287).
11. **Ram Kumar**, Bhagraj Godara, Yogesh Chander, Jai Prakash Kachhawa, Ramesh Kumar Dedar, Assim Verma, Thachamvally Riyesh et al (2023). "**Evidence of lumpy skin disease virus infection in camels.**" *ActaTropica*, 242:106922. (Impact factor: 3.222).
  12. Naveen Kumar, Sanjay Barua, **Ram Kumar** et al (2023). "**Evaluation of the safety, immunogenicity and efficacy of a new live-attenuated lumpy skin disease vaccine in India.**" *Virulence*, 14(1):2190647.. (**Co-first author**). (Impact factor: 5.428).
  13. **Ram Kumar**, Yogesh Chander, Nitin Khandelwal, Assim Verma, Krishan Dutt Rawat, Brij N. Shringi, Yash Pal, Bhupendra N. Tripathi, Sanjay Barua & Naveen Kumar (2022). "**ROCK1/MLC2 activation prevents deadenylation of buffalopox virus mRNA**". *Scientific Reports*, 12(1):1-14. (Impact factor: 4.997).
  14. Yogesh Chander, **Ram Kumar**, Assim Verma, Nitin Khandelwal, Himanshu Nagori, Namita Singh, Shalini Sharma, Yash Pal, Apurvasinh Puvar, Rameshchandra Pandit, Nitin Shukla, Priyank Chavada, Bhupendra N Tripathi, Sanjay Barua, Naveen Kumar (2022). "**Resistance evolution against host-directed antiviral agents: Buffalopox virus switches to use p38- $\gamma$  under long-term selective pressure of an inhibitor targeting p38- $\alpha$ .**" *Molecular Biology and Evolution*, 1;39(9):177. (**Co-first author**). (Impact factor: 8.8).
  15. Yogesh Chander, **Ram Kumar**, Nitin Khandelwal, Namita Singh, Brij Nandan Shringi, Sanjay Barua, Naveen Kumar (2021). "**Role of p38 mitogen-activated protein kinase signalling in virus replication and potential for developing broad spectrum antiviral drugs.**" *Reviews in Medical Virology*, 31(5):1-16. (**Co-first author**) (Impact factor: 11.043).
  16. **Ram Kumar**, Nitin Khandelwal, Yogesh Chander, Himanshu Nagori, Assim Verma, Aditya Barua, Bhagraj Godara, Yash Pal, Baldev R. Gulati, Bhupendra N.Tripathi, Sanjay Barua and Naveen Kumar (2021). "**S-adenosylmethionine-dependent methyltransferase inhibitor DZNep blocks transcription and translation of SARS-CoV-2 genome with a low tendency to select for drug-resistant viral variants.**" *Antiviral Research*, 197:105232. (Impact factor: 10.103)
  17. Nitin Khandelwal, Yogesh Chander, **Ram Kumar**, Himanshu Nagori, Assim Verma, Priyasi Mittal, Thachamvally Riyesh, Sameer Kamboj, Sukhbir Singh Verma, Subhash Khatreja, Yash Pal, Baldev R. Gulati, Bhupendra N. Tripathi,

- Sanjay Barua and Naveen Kumar (2021). "**Studies on Growth Characteristics and Cross-Neutralization of Wild-Type and Delta SARS-CoV-2 From Hisar (India).**" *Frontiers in Cellular and Infection Microbiology*, 11: 1167. (Impact factor: 6.073).
18. **Ram Kumar**, Mohammad Afsar, Nitin Khandelwal, Yogesh Chander, Thachamvally Riyesh, Ramesh Kumar Dedar, Baldev R. Gulati, Yash Pal, Sanjay Barua, Bhupendra N. Tripathi, Tanweer Hussain, Naveen Kumar (2021). "**Emetine suppresses SARS-CoV-2 replication by inhibiting interaction of viral mRNA with eIF4E.**" *Antiviral Research*, 189:105056. (Impact factor: 10.103).
  19. Naveen Kumar, Yogesh Chander, Thachamvally Riyesh, Nitin Khandelwal, **Ram Kumar**, Harish Kumar, Bhupendra N. Tripathi, Sanjay Barua (2020). "**Isolation and characterization of bovine herpes virus 5 (BoHV5) from cattle in India.**" *PloS One*, 15(4): e0232093. (Impact factor: 3.752).
  20. Naveen Kumar, Yogesh Chander, **Ram Kumar**, Nitin Khandelwal, Thachamvally Riyesh, Khushboo Chaudhary, Karuppusamy Shanmugasundaram, Sanjit Kumar, Anand Kumar, Madhurendu K. Gupta, Yash Pal, Sanjay Barua, Bhupendra N. Tripathi (2021). "**Isolation and characterization of lumpy skin disease virus from cattle in India.**" *PloS one*, 16(1):e0241022. (Impact factor: 3.752).
  21. Nitin Khandelwal, YogeshChander, **Ram Kumar**, Thachamvally Riyesh, Ramesh Kumar Dedar, Manoj Kumar, Baldev R. Gulati, Shalini Sharma, Bhupendra N. Tripathi, Sanjay Barua, Naveen Kumar (2020). "**Antiviral activity of Apigenin against buffalopox: Novel mechanistic insights and drug-resistance considerations.**" *Antiviral Research*, 181:104870. (Impact factor: 10.103).
  22. Naveen Kumar, Shalini Sharma, **Ram Kumar**, Bhupendra N. Tripathi, Sanjay Barua, Hinh Ly, Barry T. Rouse (2020). "**Host-directed antiviral therapy.**" *Clinical Microbiology Reviews*, 33(3): e00168-19. (Impact factor: 26.132).
  23. **Ram Kumar**, RiyeshThachamvally, Sunil Maherchandani, Bhupendra N Tripathi, Sanjay Barua, and Naveen Kumar (2020). "**Molecular Mechanisms Associated with Virus-induced Oncogenesis and Oncolysis**". *Cancer Research Journal*, 7(3):87-100.
  24. Naveen Kumar, Nitin Khandelwal, **Ram Kumar**, Yogesh Chander, Krishan Dutt Rawat, Kundan Kumar Chaubey, Shalini Sharma, Shoor Vir Singh, Thachamvally Riyesh, Bhupendra N. Tripathi and Sanjay Barua (2019). "**Inhibitor of sarco/endoplasmic reticulum calcium-ATPase impairs multiple steps of**

**paramyxovirus replication."** *Frontiers in Microbiology*, 10:209. (Impact factor: 6.064).

25. **Ram Kumar**, Nitin Khandelwal, Yogesh Chander, Thachamvally Riyesh, Bhupendra N. Tripathi, Sudhir Kumar Kashyap, Sanjay Barua, Sunil Maherchandani, Naveen Kumar (2018). "**MNK1 inhibitor as an antiviral agent suppresses buffalopox virus protein synthesis.**" *Antiviral Research*, 160:126-136. (Impact factor: 10.103).
26. **Ram Kumar**, NitinKhandelwal, RiyeshThachamvally, Bhupendra N. Tripathi, Sanjay Barua, Sudhir Kumar Kashyap, Sunil Maherchandani, Naveen Kumar (2018). "**Role of MAPK/MNK1 signaling in virus replication.**" *Virus Research*, 253:48-61. (Impact factor: 6.286).

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#### **SENIOR RESEARCH FELLOWS (n=2):-**

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1. Department of Science and Technology (DST)-Science and Engineering Research Board (SERB)
2. National Agricultural Science Fund (NASF)-Indian Agricultural Research Institute (ICAR)

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#### **PATENT (n=2):-**

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1. **Development of a Novel test to differentiate the vaccine and field strains of LSDV.** Application serial no. 202211074538 (Filing date: December 22, 2022).
2. **A novel vaccine formulation to prevent SARS-CoV-2 infection in animals.** Application serial no. 202211026023 (Filing date: May 04, 2022).

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#### **TECHNOLOGIES (n=2):-**

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1. Lumpy Skin Disease vaccine (**Lumpi-ProVacInd, India's first LSD vaccine**)
2. **Ancovax:** India's first vaccine to prevent SARS-cov-2 (COVID-19) infection in animals

**Place: Bikaner**

**Date: October 05, 2024**



**Ram Kumar**