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Scientist (Veterinary Microbiology)

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**Current Research Projects**

1. Investigations on neuropathogenic and non-neuropathogenic variants of equine herpes virus-1 (EHV-1) and associated latency among equines in India
2. DBT-NER Project “Advanced Animal Disease Diagnosis and Management Consortium (ADMaC)
3. Authentication and accessioning of viruses of animal origin
4. Phenotypic and genotypic authentication and preservation of network bacterial isolates
5. Consortium research platform on agrobiodiversity (CRP-AB)
6. Development of repository of poxviruses of caprine, ovine and bovine origin
7. Nanobased therapeutic interventions against osteoarthritis

Research interest: His research interests are on the development of viral vaccine and point-of-care diagnostics against various viral diseases. He is also involved in isolation and authentication of various animal viruses (PPRV, CSFV, PCV-2, BPXV, CMLV, ERV, EHV-1) and poultry viruses (Infectious bursal disease virus, Newcastle disease virus, Fowlpox virus, Infectious bronchitis virus) and anaerobic bacteria (*C.chauvoei*, *C.perfringens*) in the NCVTCC repository

Research publications

1. **Riyesh T**, Barua S, Kumar N, Jindal N, Bera BC, Narang G, Mahajan NK, Arora D, Anand T, Vaid RK, Yadav M, Chandel SS, Malik P, Tripathi BN, Singh RK. Isolation and genetic characterization of swinepox virus from pigs in India. *Comp Immunol Microbiol Infect Dis*. 2016 Jun;46:60-5.
2. Kumar N, Barua S, **Riyesh T**, Chaubey KK, Rawat KD, Khandelwal N, Mishra AK, Sharma N, Chandel SS, Sharma S, Singh MK, Sharma DK, Singh SV, Tripathi BN. Complexities in Isolation and Purification of Multiple Viruses from Mixed Viral Infections: Viral Interference, Persistence and Exclusion. *PLoS One*. 2016 May 26;11(5):e0156110.
3. Manuja A, Kumar B, Chopra M, Bajaj A, Kumar R, Dilbaghi N, Kumar S, Singh S, **Riyesh T**, Yadav SC. Cytotoxicity and genotoxicity of a trypanocidal drug

- quinapyramine sulfate loaded-sodium alginate nanoparticles in mammalian cells. *Int J Biol Macromol*. 2016 Jul;88:146-55.
4. Vaid RK, Jindal N, Anand T, Bera BC, **Riyesh T**, Virmani N, Barua S, Gupta R, Mahajan NK, Joshi CG, Singh RK. First Draft Genome Sequence of *Salmonella enterica* Serovar Gallinarum Strain VTCCBAA614, Isolated from Chicken in India. *Genome Announc*. 2015 Oct 22;3(5). pii: e01221-15.
 5. Bera BC, Barua S, Shanmugasundaram K, Anand T, **Riyesh T**, Vaid RK, Virmani N, Kundu S, Yadav NK, Malik P, Singh RK. Genetic characterization and phylogenetic analysis of host-range genes of Camelpox virus isolates from India. *Virusdisease*. 2015 Sep;26(3):151-62.
 6. Anand T, Vaid RK, Bera BCh, Barua S, **Riyesh T**, Virmani N, Yadav N, Malik P. Isolation and characterization of a bacteriophage with broad host range, displaying potential in preventing bovine diarrhoea. *Virus Genes*. 2015 Oct;51(2):315-21.
 7. Vaid RK, Shanmugasundaram K, Boora A, Bera BC, Shukla BN, Anand T, Singha H, **Riyesh T**, Virmani N, Barua S, Ahir VB, Koringa PG, Sajnani MR, Bhat VD, Rana N, Singh KP, Malik P, Singh RK, Joshi CG. Draft Genome Sequence of *Pasteurella multocida* subsp. *multocida* B:2 Strain VTCCBAA264 Isolated from *Bubalus bubalis* in North India. *Genome Announc*. 2014 Jul 31;2(4).
 8. **Riyesh T**, Karuppusamy S, Bera BC, Barua S, Virmani N, Yadav S, Vaid RK, Anand T, Bansal M, Malik P, Pahuja I, Singh RK. Laboratory-acquired buffalopox virus infection, India. *Emerg Infect Dis*. 2014 Feb;20(2):324-6.
 9. Bera BCh, Shanmugasundaram K, Barua S, Anand T, **Riyesh T**, Vaid RK, Virmani N, Bansal M, Shukla BN, Malik P, Singh RK. Sequence and phylogenetic analysis of host-range (E3L, K3L, and C7L) and structural protein (B5R) genes of buffalopox virus isolates from buffalo, cattle, and human in India. *Virus Genes*. 2012 Dec;45(3):488-98.
 10. Malik P, Singha H, Khurana SK, Kumar R, Kumar S, Raut AA, **Riyesh T**, Vaid RK, Virmani N, Singh BK, Pathak SV, Parkale DD, Singh B, Pandey SB, Sharma TR, Chauhan BC, Awasthi V, Jain S, Singh RK. Emergence and re-emergence of glanders in India: a description of outbreaks from 2006 to 2011. *Vet Ital*. 2012 Apr-Jun;48(2):167-78.
 11. **Riyesh T**, Balamurugan V, Sen A, Bhanuprakash V, Venkatesan G, Yadav V, Singh RK. Evaluation of efficacy of stabilizers on the thermostability of live attenuated thermo-adapted Peste des petits ruminants vaccines. *Virol Sin*. 2011 Oct;26(5):324-37. doi: 10.1007/s12250-011-3205-x.
 12. Bera BC, Shanmugasundaram K, Barua S, Venkatesan G, Virmani N, **Riyesh T**, Gulati BR, Bhanuprakash V, Vaid RK, Kakker NK, Malik P, Bansal M, Gadvi S, Singh RV, Yadav V, Sardarilal, Nagarajan G, Balamurugan V, Hosamani M, Pathak KM, Singh RK. Zoonotic cases of camelpox infection in India. *Vet Microbiol*. 2011 Aug 26;152(1-2):29-38.
 13. Balamurugan V, Sen A, Venkatesan G, Yadav V, Bhanot V, **Riyesh T**, Bhanuprakash V, Singh RK. Sequence and phylogenetic analyses of the structural genes of virulent isolates and vaccine strains of peste des petits ruminants virus from India. *Transbound Emerg Dis*. 2010 Oct;57(5):352-64.
 14. Yadav V, Balamurugan V, Bhanuprakash V, Sen A, Bhanot V, Venkatesan G, **Riyesh T**, Singh RK. Expression of Peste des petits ruminants virus nucleocapsid protein in prokaryotic system and its potential use as a diagnostic antigen or immunogen. *J Virol Methods*. 2009 Dec;162(1-2):56-63.