



Dr. Ajay Kumar Yadav, B.V.Sc., M.V.Sc., PhD
Scientist (Veterinary Microbiology)

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Publications	Total no. of Research Paper	: 13
	Total no. of Books/Manual	: 02
	No. of patent granted (G) /filed (F)	: 02 (F)
	Copyright granted (G) /filed (F)	: NA
	Policy Document	: NA

Experience with research interest:

Dr Ajay Kumar Yadav has completed his M.V.Sc. and PhD. in the discipline of Veterinary Virology from ICAR-Indian Veterinary Research Institute (ICAR-IVRI) Izatnagar Uttar Pradesh. Dr Yadav has worked on the peste-des-petits ruminants virus in his Masters and on the generation of stable cell lines for replication competence of both peste-des-petits ruminants and canine distemper viruses during his doctorate programme. Dr Yadav has expertise on Classical & Molecular Virology, Cell culture & Molecular Biology and currently handling two projects as PI. Presently, Dr Yadav is working on developing new indigenous diagnostics against Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) and Porcine Coronaviruses (PCoV). His area of interest is development of diagnostics and vaccines for infectious diseases of livestock.

Top 10 Publications:

1. Malik Y.S., Bhat S., Kumar O. R., **Yadav A. K.**, Sircar S., Ansari M. I., ... & Dhama K. (2020). Classical swine fever virus biology, clinicopathology, diagnosis, vaccines and a meta-analysis of prevalence: A review from the Indian Perspective. *Pathogens*, 9(6), 500.
2. Kumar S., Bharti J., **Yadav A. K.**, Pegu S. R., Doley J., Paul S., Das B. C., Mohan N. H., Deb R. (2020). Pattern of antibiotics use in pigs of North Eastern India. *Indian journal of animal health*. DOI: 10.36062/ijah.59.1.2020.50-54
3. **Yadav A. K.**, Rajak K. K., Bhatt M., Kumar A., Chakravarti S., Sankar M., ... & Singh R. K. (2019). Comparative sequence analysis of morbillivirus receptors and its implication in host range expansion. *Canadian journal of microbiology*, 65(11), 783-794.
4. **Yadav A. K.**, Chaudhary D., Bhadouriya S., Chandrasekar S., Dhanesh V. V., Rajak K. K. ... & Muthuchelvan D. (2019). Expression and characterization of the non-structural protein V of small ruminant morbillivirus. *Virus Disease*, 30(3), 465-468.
5. Bhatt M., Rajak K. K., Chakravarti S., **Yadav A. K.**, Kumar A., Gupta V., ... & Mahendran K. (2019). Phylogenetic analysis of haemagglutinin gene deciphering a new genetically distinct lineage of canine distemper virus circulating among domestic dogs in India. *Transboundary and emerging diseases*, 66(3), 1252-1267.
6. Bhadouriya S., Choudhary D., **Yadav A.**, Chandra Sekar S., Dhanesh V. V., Sankar M., Rajak K. K., Singh R. P., Ramakrishnan M. A., Pandey A. B., & Muthuchelvan D. (2018). Prokaryotic Expression and Confirmation of Non-structural Protein C of Peste-Des-Petits-Ruminants Virus. *International Journal of Current Microbiology and Applied Sciences*. 7(2): 2119-2124.
7. Haq A. A., Santhamani R., Chakravarti S., **Yadav A. K.**, Rajak K. K., Upmanyu V., ... & Singh R. P. (2017). Investigation on Peste des Petits ruminants outbreak in goats of Bareilly

- district of Uttar Pradesh, India. *Journal of Immunology and Immunopathology*, 19(1), 47-54
8. Kumar R., Rajak K. K., Chandra T., Muthuchelvan D., Saxena A., Chaudhary D., **Kumar A.**, & Pandey A. B. (2015). Sequence-based comparative study of classical swine fever virus genogroup 2.2 isolate with pestivirus reference strains. *Veterinary world*, 8(9), 1059.
 9. **Yadav A. K.**, Mohanty N. N., Manu M., Negi K. C., Biswas S. K., & Rajak K. K. (2015). Point of Care Test. *International Journal of Livestock Research*, ISSN 2277-1964, Vol 5 (8) Aug'15
 10. Kumar R., Rajak K. K., Chandra T., Thapliyal A., Muthuchelvan D., Sudhakar S. B., Sharma K., Saxena A., Raut S. D., Singh V. K., Ahmad Z., **Kumar A.**, Chaudhary D., Singh R. K., Pandey A. B. (2014). Whole-genome sequence of a classical swine fever virus isolated from the Uttarakhand state of India. *Genome announcements*, 2(3), American Society of Microbiology (ASM).

Technologies developed:

1. A single step nucleic acid based diagnostic for simultaneous detection of Nucleocapsid (N), Matrix (M) and Glycoprotein5 (ORF5) genes of Porcine Reproductive and Respiratory Syndrome (PRRS) virus infection in pigs
2. IT tool: African Swine Fever Mobile App in English and Hindi

Awards:

1. ICAR-National Talent Scholarship (NTS) in B.V.Sc. & AH (2007-2012)
2. ICAR-Junior Research Fellowship (JRF) in M.V. Sc. (2012-2014)
3. Topper in the Discipline of Veterinary Microbiology in M.V.Sc. (2012-2014)
4. ICMR-Junior Research Fellowship (JRF) & Senior Research Fellowship (SRF) in PhD (2014)
5. Topper in the PhD entrance examination of ICAR-IVRI (2014)
6. ICAR-National Eligibility Test in Veterinary Microbiology (2015 & 2017)
7. Topper in ARS (2016) Veterinary Microbiology
8. Member of Institute Biosafety Committee (2020)

Membership of professional society:

- Member of Uttar Pradesh State Veterinary Council (UPVC)
- Member of Veterinary Council of India (VCI)
- Life member of Society for Biosafety (SBS)
- Life member of Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases (IAVMI)
- Life member of Indian Association of Veterinary Public Health Specialists (IAVPHS)
- Life membership of the Indian Science Congress Association (ISCA)
- Life member of Agricultural Research Service Scientists Forum (ARSSF)