

Personal Details

Name	Anil Kumar Mishra
Date of Birth	20-08-1979
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Education

Degree	Board / University	Year	Marks (%)	Division	Discipline
High School	UP Board	1994	68.66	First	Science
Intermediate	UP Board	1996	62.20	First	Science (Biology)
BVSc & AH	GBPUAT (Pantnagar, Uttarakhand)	2004	77.69	First with Distinction	Veterinary Science & Animal Husbandry
MVSc	(IVRI, Izatnagar, Bareilly, UP)	2006	81.76	First	Veterinary Microbiology
PhD	(IVRI, Izatnagar, Bareilly, UP)	2010	82.28	First	Veterinary Microbiology

Publications

Research Articles	44 (International: 13/National: 31)
Books	1
Training Manuals	5
Review Articles	4
Lead Papers	4
Folders	2
Case Reports	1
Book Chapters	17
VTCC Accessions	21
GenBank Accessions	21
Manual Chapters	50
Popular/Technical Articles	33
Abstracts	81

Major Research Accomplishments

- The immunomodulatory bolus ("IMU-4") for boosting immunity in kids and pregnant goats was commercialized (as co-inventor)
- The patent on "method for development of herbal immunomodulator composition for

goats” was filed via application number - 201811028895 (as co-inventor)

- Development of phage therapeutic preparation against colibacillosis in neonatal goat-kids (as inventor), DIVA ELISA for JD, PCR assay for diagnosis of EPEC, PCR assay for diagnosis of orf virus, LAMP for diagnosis of caprine brucellosis, TaqMan® real-time PCR assays for diagnosis of caprine brucellosis, Databases on epsilon & alpha toxins of *Clostridium perfringens*, Oil adjuvant vaccine by saponin co-adjuvantation for hemorrhagic septicemia, Phages lysate vaccine against *Salmonella Abortusequi*, Aloe vera teat dip for control of mastitis & Process to purify PPRV and FMDV from the different virus mixture (as co-inventor)

Research Articles

1. Mishra A K, Rawat M, Viswas K N, Abhishek, Kumar S and Reddy G B M, 2013. Expression and lytic efficacy assessment of *Staphylococcus aureus* phage SA4 lysin gene. *Journal of Veterinary Science* 14 (1), 37-43.
2. Mishra A K, Sharma N, Kumar A, Kumar N, Manjunatha Reddy G B, Kumar S and Kumar N, 2014. Isolation, characterization and therapeutic potential assessment of bacteriophages virulent to *Staphylococcus aureus* associated with goat mastitis. *Iranian Journal of Veterinary Research* 15 (4):320-325.
3. Mishra A K, Singh D D, Gururaj K, Gupta G, Sharma N, Kumar N, Shivasharanappa N and Paul S, 2017. *UspA* gene based characterization of *Escherichia coli* strains isolated from different disease conditions in goats. *Journal of Animal Research*, 7 (6): 1-6.
4. Mishra A K, Sharma N, Singh D D, Gururaj K, Abhishek, Kumar V, Sharma D K, 2018. Prevalence and bacterial etiology of subclinical mastitis in goats reared in organized farms. *Veterinary World*, 11(1): 20-24.
5. Mishra A K, Singh D D, Gururaj K, Kumar A, Dixit A, Gupta G, Sharma N, Gupta G and Yadav S, 2019. Molecular characterization of diarrhoeogenic *Escherichia coli* isolated from neonatal goat-kids. *Journal of Animal Research*, 9 (1): 51-59.
6. Kumar N, Chaube K K, Chaudhary K, Singh S V, Sharma D K, Gupta V K, Mishra A K and Sharma S, 2013. Isolation, identification and characterization of a peste des petits ruminant's virus from outbreak occurred in Nanakpur, India. *Journal of Virological Methods* 189 (2):388-392.
7. Kumar N, Wadhwa A, Chaubey K K, Singh S V, Gupta S, Sharma S, Sharma D K, Singh M K and Mishra A K, 2014. Isolation and phylogenetic analysis of an orf virus from sheep in Makhdoom, India. *Virus Genes* 48 (2):312-319.
8. Kumar N, Barua S, Riyesh T, Chaubey K K, Rawat K D, Khandelwal N, Mishra A K, Sharma N, Chandel S S, Sharma S, Singh M K, Sharma D K, Singh S V and Tripathi B N, 2016. Complexities in isolation and purification of multiple viruses from mixed viral infections: viral interference, persistence and exclusion. *PLoS One* 11 (5).
9. Pawaiya R V S, Singh D D, Gangwar N K, Gururaj K, Kumar V, Paul S, Sharma N, Mishra A K, Kumar A, Sharma D K and Singh S V, 2017. Retrospective study on

mortality of goats due to alimentary system diseases in an organized farm. *Small Ruminant Research* 149: 141–146.

10. Shivasharanappa N, Sharma N, Sharma D K, Pawaiya R V S, Vamadevan B, Mishra A K and Paul S, 2017. Neuropathological lesions of clinical and sub clinical Coenurosis (*Coenurus cerebralis*) in organized goat farms in India. *Acta Parasitologica* 62 (2): 482-487.
11. Saini S, Gupta V K, Gururaj K, Singh D D, Pawaiya R V S, Gangwar N K, Mishra A K, Dwivedi D, Andani D, Kumar A & Goswami T K, 2017. Comparative diagnostic evaluation of OMP31 gene based TaqMan® real-time PCR assay with visual LAMP assay and indirect ELISA for caprine brucellosis. *Tropical Animal Health and Production* 49 (6): 1253–1264.
12. Singh D D, Pawaiya R V S, Gururaj K, Gangwar N K, Mishra A K, Andani D, Singh M K, Bhushan S and Kumar A, 2018. Molecular detection of *Clostridium perfringens* toxinotypes, enteropathogenic *Escherichia coli*, rotavirus and coronavirus in diarrheic fecal samples of neonatal goat kids. *Veterinarski Arhiv* 88 (1): 1-20.
13. Abhishek, Kumar B, Anjay , Mishra A K, Prakash C, Priyadarshini A, Rawat M, 2018. Immunization with Salmonella Abortusequi phage lysate protects guinea pig against the virulent challenge of SAE-742. *Biologicals* 56: 24–28.
14. Kumar S, Chaturvedi V K, Kumar B, Kumar P, Somarajan S R, Mishra A K, Yadav A S and Sharma B, 2012. Improved humoral immune response of oil adjuvant vaccine by saponin co-adjuvantation against Haemorrhagic septicaemia in mice and buffalo calves. *Indian Journal of Animal Sciences* 82 (9): 953–957.
15. Singh D D, Pawaiya R V S, Gururaj K, Gangwar N K, Mishra A K, Singh R, Andani D and Kumar A, 2018. Detection of *Clostridium perfringens* toxinotypes, enteropathogenic *E. coli*, rota and corona viruses in the intestine of neonatal goat kids by molecular techniques. *Indian Journal of Animal Sciences* 88 (6): 655–661.