

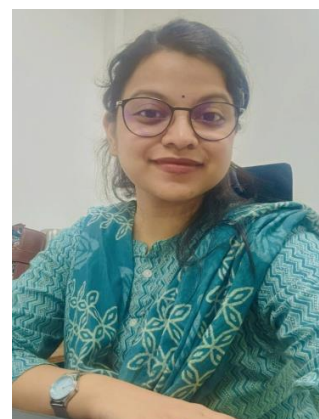
Dr. Sushmita Nautiyal

M.V.Sc., Ph.D. (Veterinary Microbiology)

Scientist

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Date of joining the institute: 7th July, 2025

Educational background

S.No	Degree	Year	Institute/University
1.	B. V. Sc. & A.H.	2018	College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar (Uttarakhand)
2.	M.V. Sc. (Veterinary Microbiology)	2020	Indian Veterinary Research Institute, Izatnagar, Bareilly (U.P.)
3.	Ph.D. (Veterinary Microbiology)	2023	Indian Veterinary Research Institute, Izatnagar, Bareilly (U.P.)

WORK HISTORY

S.No.	Particular	Area of work/Thesis title	Period
1.	M.V.Sc.	Effects of detergents and downstream processing of samples for detection of bluetongue virus antigen in an antigen capture ELISA.	2018-2020
2.	Ph.D.	Prevalence of Bovine herpesvirus-1 and CRISPR/Cas9 mediated development of a mutant BoHV-1 and its evaluation as a live-modified vaccine candidate	2020-2023

PUBLICATION (No. Only)

Research Articles	08
Review Articles	01
Technical Articles	01
Papers in Conference, Seminar, Symposia	04

RESEARCH PUBLICATIONS

1. **Nautiyal, S.**, Nandi, S., Sharma, K., Gairola, V., Balaji, K. S., Biswas, S. K., ... & Sharma, G. K. (2023). Development and evaluation of recombinant gD protein based ELISA for sero surveillance of BoHV-1 in India. *Biologicals*, 84, 101720.
2. Nandi, S., Mahajan, S., Mishra, R., **Nautiyal, S.**, Agrawal, R. K., Singh, M., ... & Sharma, G. K. (2023). LSDV126 gene based molecular assays for specific detection and characterization of emerging Lumpy Skin Disease virus. *Journal of Virological Methods*, 312, 114665
3. Sharma, K., Mathesh, K., Janmeda, P., **Nautiyal, S.**, Lakshmi, P. S., Subash, A., ... & Sharma, G. K. (2024). Production and characterization of biologicals for disease diagnosis and pathological evaluation of elephant endotheliotropic herpesvirus (EEHV). *Journal of Virological Methods*, 114970.
4. Biswas, S. K., Mondal, B., Chand, K., **Nautiyal, S.**, Subramaniam, S., Singh, K. P., ... & Ramakrishnan, M. A. (2021). Genetic and phylogenetic characterization of polycistronic dsRNA segment-10 of bluetongue virus isolates from India between 1985 and 2011. *Virus Genes*, 57(4), 369-379.
5. Borkakoti, R., Karikalan, M., Nehul, S. K., Jogi, H. R., Sharma, K., **Nautiyal, S.**, ... & Sharma, G. K. (2023). A retrospective study showing a high rate of seropositivity against SARS-CoV-2 in wild felines in India. *Archives of Virology*, 168(4), 109.
6. Sai Balaji, K. G., Karikalan, M., Saravanan, S., Mahajan, S., Rajeshkumar, K., Vaseem, M., **Nautiyal, S.**, ... & Sharma, G. K. (2024). High mortality in free-ranging wild boars associated with African swine fever virus in India. *Archives of Virology*, 169(7), 137
7. Smaraki, N., Biswas, S.K., Mahajan, S., Gairola, V., Gulzar, S., Deepa, P., Sharma, K., Jogi, H.R., **Nautiyal, S.**, Mishra, R. and Nandi, S., 2024. Design and assessment of a double antigen indirect ELISA for lumpy skin disease surveillance in India. *Journal of Virological Methods*, 329, 114998.
8. Biswas, S.K., Hosamani, M., Chand, K., Chauhan, A., Ain, K.U., Selvarajan, V., **Nautiyal, S.**, Bashir, M., Hemadri, D., Sharma, G.K. and Sreenivasa, B.P., 2025. Expression of bluetongue virus full-length VP7 protein in insect cells and its diagnostic utility for detection of antibodies to the virus infection. *Journal of Immunological Methods*, 538, p.113801.

Awards and achievements:

- **Vice-Chancellor's medal** for best graduating student of Bachelor of Veterinary Science & Animal Husbandry degree programme **(2018)**
- **Young Scientist Award** for best oral presentation during 14th Uttarakhand State Science and Technology Congress **(2020)**
- **Prof. P.K. Uppal National Young Scientist Award** for best paper presentation in Microbiology session during **National Congress** on Canine Practice & **Symposium** on "Newer Concepts and Approaches in Small Animal Practice and Welfare" organized by Indian Society for Advancement of Canine Practice (ISACP), **(2022)**
- ICAR-IVRI institutional fellowship during M.V.Sc. **(2018)**
- Qualified **ICMR-Junior Research Fellowship (JRF)** examination, **(2020)**
- **ICAR Senior Research Fellowship (ICAR-SRF)** during Ph.D. **(2020)**