


Dr. N. S. Maan	
	Prof. & Head
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Educational Qualifications	<p>1984 B.V.Sc & A.H., LUVAS, Hisar 1988 M.V.Sc., LUVAS, Hisar 2000 Ph.D., LUVAS, Hisar</p>
Employment Details	<p>Prof. & Head 13, June, 2016 –Till-to-date</p>
Area of specialization	<ul style="list-style-type: none"> • Metagenomics • Nutrigenomics • Mineral nutrition
Membership of scientific societies	<p>Animal Nutrition Society of India Indian Poultry Science Association Veterinary Council of India Haryana Veterinary Council</p>
Research Publications	<p>100 Research papers, 9 chapters in books, 12 Scientific articles in Proceedings/ Manuals</p>
Selected Publications	<ol style="list-style-type: none"> 1. Narender Singh Maan, Sushila Maan, Abraham. C. Potgieter, Isabel M. Wright, Manjunatha Belaganahalli and Peter P.C. Mertens (2016). Development of real time RT-PCR assays for detection and typing of Epizootic hemorrhagic disease virus. <i>Transbound Emerg Dis.</i> 2016 Feb 17. doi: 10.1111/tbed.12477. [Epub ahead of print]; PMID: 26888716. 2. Narender S. Maan, Sushila Maan, Manjunatha Belaganahalli, Gillian Pullinger, Antonio J. Arenas Montes, Marcela R. Gasparini, Marc Guimera, Kyriaki Nomikou, Peter P.C. Mertens (2015). A quantitative real-time reverse transcription PCR (qRT-PCR) assay to detect genome segment 9 of all 26 bluetongue virus serotypes. <i>J. Virol. Methods.</i> 213: 118-126. 3. N.S. Maan and Sajjan Sihag (2014). Growth, Nutrient Utilization and Zinc Status in Goats as Affected by Supplementary Zinc Sources. <i>Indian J. Anim. Nutr.</i> 31 (3) : 227-231 . 4. N.S. Maan, A.B. Mandal, Sajjan Sihag and V. K. Khatta. (2014). Feeding plane and mineral status of Murrah buffaloes in Bhiwani district of Haryana state. <i>Indian J. Anim. Nutr.</i> 31(1): 53-59.

5. **Maan, N.S.**, A. B. Mandal, D. S. Dahiya, V. S Panwar and V. K. Khatta (2013). Studies on correlations between dietary intake of different minerals with their concentrations in serum, hair and milk in Murrah buffaloes. *Indian Journal of Animal Sciences* 83 (8): 815-819.
6. **Maan N.S.**, Maan, S., Johnson D.J., Belaganahalli, M.N, Ostlund, E.N, et al (2012). Identification and differentiation of the twenty six Bluetongue virus serotypes by RT-PCR amplification of the serotype-specific genome segment 2. *PLoS ONE* 7(2): e32601.
7. **Maan, N.S.**,Maan, S., Guimera, M., Pullinger, G., Singh, K.P., et al (2012). Complete Genome Sequence of an Isolate of Bluetongue Virus Serotype 2, Demonstrating Circulation of a Western Topotype in Southern India. *J. Virol.* 86(9):5404.
8. **Maan, N.S.**,Maan, S., Nomikou, K., Guimera, M., Pullinger, G., et al (2012). The genome sequence of bluetongue virus type 2 from India: evidence for reassortment between eastern and western-topotype field strains. *J. Virol.* 86(10):5967.
9. **Maan, N.S.**, Maan, S., Nomikou, K., Prasad, G., Singh, K.P., et al (2012). Full Genome Sequence of Bluetongue Virus Serotype 1 from India. *J. Virol.* 86(8):4717.
10. **Maan, N.S.**, Maan, S., Guimera, M., Nomikou, K., Morecroft, E., et al (2012). The Genome Sequence of a Reassortant Bluetongue Virus Serotype 3 from India. *J. Virol.* 86(11):6375.
11. **Maan N.S.**, Sushila Maan, Kyriaki Nomikou, Manjunatha N. Belaganahalli, Chris Oura et al (2011). Serotype specific primers and novel gel-based RT-PCR assays for the nine serotypes of African Horse Sickness Virus: Typing of viruses from recent outbreaks in North-Africa. *PLoS ONE* 6(10): e25686.
12. **Maan N.S.**, Sushila Maan, Kyriaki Nomikou, Donna J. Johnson, Mehdi El Harrak, et al (2010). RT-PCR assays for seven serotypes of epizootic haemorrhagic disease virus & their use to type strains from the Mediterranean region and North America. *PLoS ONE* 5(9): e12782.
13. Vinus, Rajesh Dalal, Nancy Sheoran, **NS Maan** and BS Tewatia. 2018. Potential benefits of herbal supplements in poultry feed: A review . *The Pharma Innovation.* 7(6):651-656.
14. Sheoran, N., **Maan, S.**, Kumar, A., Batra, K., Choudhary, D., Sihag, S., Kumar, V., and Maan, N. S. (2017). Probiotic and prebiotic supplementation improving the production performance and immune characteristics of laying hens. DOI: 10.18805/ijar.B-3394
15. Sheoran, N., Kumar. R., Kumar, A., Batra, K., Sihag, S., Kumar, V., **Maan, S.** and Maan, N. S. (2017) Nutrigenomic evaluation of Garlic (*Allium sativum*) and Holy basil (*Ocimum sanctum*) leaf powder supplementation on growth performance and immune characteristics in broilers

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16. Sheoran, N., **Maan, N. S.**, Sihag, S. and Kumar, G. (2015) Effect of probiotics and prebiotics supplementation on productive trait and egg quality in laying hens. *Indian J. Anim.Nutr.* **32(4):398-404.**
 17. Nancy Sheoran, Vinus, Sajjan Sihag and **NS Maan** (2017). Expression analysis of immunity related genes in White Leghorn layers supplemented with probiotics and prebiotics. *The Pharma Innovation Journal* 2017; 6(11): 14-18.
 18. Maan S, Kumar A, Gupta AK, Dalal A., Chaudhary D., Gupta T. K., Bansal N., Kumar V, Batra K., Sindhu N, Kumar A, Mahajan N. K., **Maan N. S.**, Mertens P. P. C (2017). Concurrent infection of Bluetongue and Peste-des-petits ruminants virus in small ruminants in Haryana State of India. *Transbound Emerg Dis.* 2016; 00:1-5. doi:10.1111/tbed.12610
 19. Sushila Maan, Anuj Tiwari, Deepika Chaudhary, Anita Dalal, Nitish Bansal, Vinay Kumar, Kanisht Batra, Aman Kumar, Naresh Kakker, and **Narender Singh Maan** (2017). A comprehensive study on sero-prevalence of bluetongue virus in Haryana state of India. *Veterinary World*, 10(12): 1464-1470.
 20. Anita Dalal, Naresh Kumar Kakker, Aman Kumar, Deepika Chaudhary, Nitish Bansal, Neelesh Sindhu, Tarun Kumar, **Narender Singh Maan** and Sushila Maan (2017). Whole Genome Sequence Analysis of Bluetongue Virus Serotype 12 from Northern India. *Int. J. Curr. Microbiol. App. Sci.* 6(12): 2346-2348. doi:<https://doi.org/10.20546/ijemas.2017.612.270>.
 21. Anita Dalal, Sushila Maan, Nitish Bansal, Vinay Kumar, Aman Kumar, **Narender Singh Maan** and Naresh Kumar Kakker. (2017). Molecular Analysis of Genome Segment-3 of Bluetongue Virus Serotype 12 Isolates from Haryana. *Veterinary World*, 10(11):1389-1393.
 22. Real time PCR assay for differentiation of *Brucella abortus* and *Brucella melitensis*. Vinay Kumar, Sushila Maan, Aman Kumar, Kanisht Batra, Deepika Chaudhary, Anita Dalal, Akhil K Gupta, Nitish Bansal, Nancy Sheoran, **N.S. Maan.** (2017). *Indian J. Anim. Res.*, Print ISSN:0367-6722 / Online ISSN:0976-0555.