



Dr Satish Kumar, B.V.Sc., M.V.Sc.
Scientist (Animal Genetics and Breeding)

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Publications	Total no. of Research Paper	:15
	Total no. of Books/Manual	: 01
	No. of patent granted (G) /filed (F)	: Nil
	Copyright granted (G) /filed (F)	: Nil
	Policy Document	: Nil
Experience with research interest:		
<p>Expertise of working in the field of genetics of disease resistance against paratuberculosis and mastitis disease in cattle. I am working on genome wide association study (GWAS) of humoral mediated immune response against classical swine fever virus vaccine in pigs. The informative SNPs can be used for selection of CSF resistant animals. My research interest includes molecular characterisation and exploration of molecular genetic marker for improvement in reproduction and production traits in indigenous pigs.</p>		
Top 10 Publications:		
<ol style="list-style-type: none"> 1. Kumar S., Kumar, S., Singh, R. V., Chauhan, A., Kumar, A., Bharati, J., & Singh, S. V. (2019). Association of Bovine CLEC7A gene polymorphism with host susceptibility to paratuberculosis disease in Indian cattle. <i>Research in veterinary science</i>, 123, 216-222. 2. Kumar S., Kumar, S., Singh, R. V., Chauhan, A., Kumar, A., Sulabh, S., Bharati, J., & Singh, S. V. (2019). Genetic association of polymorphisms in bovine TLR2 and TLR4 genes with Mycobacterium avium subspecies paratuberculosis infection in Indian cattle population. <i>Veterinary research communications</i>, 43(2), 105-114. 3. Kumar S., Kumar, S., Singh, R., Chauhan, A., Agrawal, S., Kumar, A., & Singh, S. (2017). Investigation of genetic Association of Single Nucleotide Polymorphisms in SP110 gene with occurrence of Paratuberculosis disease in cattle. <i>International Journal of Livestock Research</i>, 7(3), 81-88. 4. Kumar S., Bharati, 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. <i>Indian Journal of Animal Health</i>, 59(1), 50-54. 5. Gopi, B., Singh, R. V., Kumar S., Kumar, S., Chauhan, A., Kumar, A., & Singh, S. V. (2020). Single-nucleotide polymorphisms in CLEC7A, CD209 and TLR4 gene and their association with susceptibility to paratuberculosis in Indian cattle. <i>Journal of Genetics</i>, 99(1), 14. 6. Sulabh, S., Panigrahi, M., Ahmad, S. F., Varshney, R., Verma, A., Baba, N. A., Kumar S., Kumari, S., Chauhan, A., Kumar, P., & Bhushan, B. (2019). Peptidoglycan and lipoteichoic acid induces differential mRNA response of immune- 		

related genes in PBMC of crossbred, Tharparkar cattle and Murrah buffalo. *Animal biotechnology*, 30(2), 166-174.

7. Sulabh, S., Panigrahi, M., Varshney, R., Gupta, J. P., **Kumar S.**, Verma, A., Kumar, A., Asaf, V.M., Kumar, P., & Bhushan, B. (2019). In-vitro analysis of Interleukin-10 expression in cell cultures of Crossbred cattle, Tharparkar cattle and Murrah buffalo in response to mastitis causing antigens derived from *Staphylococcus aureus* and *Escherichia coli*. *Biological Rhythm Research*, 1-10.
8. Sulabh, S., Panigrahi, M., **Kumar S.**, Varshney, R., Verma, A., Baba, N. A., Gupta, J.P., Chauhan, A., Kumar, P., Dutt, T. & Bhushan, B. (2019). Differential cytokine response of *Escherichia coli* lipopolysaccharide stimulated peripheral blood mononuclear cells in crossbred cattle, Tharparkar cattle and Murrah buffalo-An in vitro study. *Spanish journal of agricultural research*, 17(1), 13.
9. Sagar, N. G., Baranwal, A., Saini, B. L., **Kumar S.**, & Prasad, A. R. (2017). Effect of non-genetic factors on the growth traits of Vrindavani cattle. *Int. J. Livest. Res*, 7(7), 234-240.
10. Baranwal, A., Sagar, N. G., Pruthviraj, D. R., Saini, B. L., **Kumar S.**, & Kumar, A. Effect of Environmental Factors on Production and Reproduction Traits of Vrindavani Cattle.

Technologies developed:

Nil

Awards:

1. ICMR-JRF (2016) in Life Sciences for PhD
2. CSIR-NET (2016) in Life Sciences
3. CSIR-UGC-JRF (2016) Life Sciences
4. ICAR-NET (2015) in Animal Genetics and Breeding
5. UGC-NET (2014) in Social Medicine and Community Health
6. Institutional fellowship of IVRI for M.V.Sc (2013-15)
7. Merit Scholarship for B.V.Sc& A.H (2008-13)

Membership of professional society:

- Life membership of Indian Society of Animal Genetics and Breeding (ISAGB)
- Life membership of Society for Conservation of Domestic Animal Biodiversity (SOCDAB)
- Life membership of Indian Science Congress
- Life membership of ARS scientist forum (ARSSF)