



Dr. Sheikh Firdous Ahmad, 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	: Nil
	No. of patent granted (G) /filed (F)	: Nil (G)/Nil (F)
	Copyright granted (G) /filed (F)	: Nil (G)/ Nil (F)
	Policy Document	: Nil

Experience with research interest:

Dr Ahmad has completed his M.V.Sc. from ICAR-Indian Veterinary Research Institute (ICAR-IVRI). Dr. Ahmad has experience in whole-genome data analysis and molecular genetics-based research. He possesses experience in molecular genetics, genetics of disease resistance and immunogenetics. He has worked with molecular as well as animal breeding data and published research findings in reputed peer-reviewed journals. He has special interest in genomics, molecular data and bioinformatics. He has special interest in application of artificial intelligence and machine learning in animal sciences.

Top 10 Publications:

1. **Ahmad S.F.**, Panigrahi M., Chhotaray S., Pal D., Parida S., Bhushan B., Gaur G.K., Mishra B.P. and Singh R.K. 2019. Revelation of genomic breed composition in a crossbred cattle of India with the help of Bovine50K BeadChip. *Genomics*. DOI: [10.1016/j.ygeno.2019.08.025](https://doi.org/10.1016/j.ygeno.2019.08.025).
2. **Ahmad S.F.**, Panigrahi M., Chhotaray S., Pal D., Chauhan A., Sonwane A., Bhushan B., Gaur G.K., Mishra B.P. and Singh R.K. 2018. Population structure and admixture analysis in Frieswal crossbred cattle of India - A pilot study. *Animal Biotechnology*. DOI: [10.1080/10495398.2018.1538013](https://doi.org/10.1080/10495398.2018.1538013).
3. **Ahmad S.F.**, Gaur G.K., Sahoo N.R., Bharti P.K. and Naha B.C. Genetic parameters of pre-weaning weights in crossbred piglets using multi-trait animal model. *Tropical Animal Health and Production*. DOI: 10.1007/s11250-019-01985-0.
4. **Ahmad S.F.**, Panigrahi M., Ali A., Dar R.R., Narayanan K. and Bhushan B. 2019. Evaluation of two bovine SNP genotyping arrays for breed clustering and stratification analysis in well-known taurine and indicine breeds, *Animal Biotechnology*. DOI: 10.1080/10495398.2019.1578227.
5. Chhotaray S., Panigrahi M., Pal D., **Ahmad S.F.**, Bhushan B., Gaur G.K., Mishra B.P. and Singh R.K. 2019. Ancestry informative markers derived from discriminant analysis of principal components provide important insights into the composition of crossbred cattle. *Genomics*. DOI: [10.1016/j.ygeno.2019.10.008](https://doi.org/10.1016/j.ygeno.2019.10.008).
6. Patra B., Panigrahi M., **Ahmad S.F.**, Dandapat S., Kumar P. and Bhushan B. 2019. Association of bovine major histocompatibility complex class I (BoLA-A) alleles with immune response to *Brucella abortus* strain 19 in cattle calves. *Veterinary Microbiology*. DOI:

<p>10.1016/j.vetmic.2019.108569.</p> <p>7. Dar R.R., Ali A., Ahmad S.F., Singh S.K., Patra M.K., Panigrahi M., Kumar H. and Krishnaswamy N. 2019. Immunomodulatory effect of curcumin on lipopolysaccharide and/or flagellin induced production of PGE₂ and relative expression of proinflammatory cytokines in the primary bubaline endometrial stromal cells. <i>Reproduction in Domestic Animals</i>. DOI: 10.1111/rda.13435.</p> <p>8. Sulabh S., Panigrahi M., Ahmad S.F., Varshney R., Verma A.D., Baba N.A., Kumar S., Kumari S., Chauhan A., Kumar P. and Bhushan B. 2018. Peptidoglycan and lipoteichoic acid induces differential mRNA response of immune related genes in PBMC of crossbred, Tharparkar cattle and Murrah buffalo. <i>Animal Biotechnology</i>. DOI: 10.1080/10495398.2018.1461633.</p> <p>9. Khade K.A., Panigrahi M., Ahmad S.F., Chauhan A., Kumar P. and Bhushan B. 2019. Cloning and characterization of Bubaline mammary miRNAs - An <i>in-silico</i> approach. <i>Molecular Biology Reports</i>. DOI: 10.1007/s11033-019-04594-0.</p> <p>10. Panda S., Gaur G.K., Sahoo N.R., Ahmad S.F., Ramachandrappa P.D. and Bharti P.K. 2020. Evaluation of animal models for genetic analysis of growth performance in Landilly pigs. <i>Turkish Journal of Veterinary and Animal Sciences</i>. DOI: 10.3906/vet-1908-33.</p>
<p>Technologies developed: Nil</p>
<p>Awards: Nil</p>
<p>Membership of professional society:</p> <ul style="list-style-type: none"> • Life Member of Society for Conservation of Domestic Animal Biodiversity (SOCDAB)