

Brief Biodata		
Name	:	Dr Umesh Singh
Designation	:	Principal Scientist (AG&B)
Discipline	:	Animal Genetics & Breeding
Email	:	usinghas@gmail.com
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❖ Education qualification		
Degree	Subject (s)	Institute
Doctor of Philosophy	Animal Breeding	HPKV, Palampur
*Area of Research		
Cattle Genetics & Breeding and Molecular Genetics		
❖ Fellowship/Awards etc. (Not more than five)		
1.	Fellow- SOCDAB, Karnal	
2.	Fellow- NADS (I) Karnal	
3.	Fellow – ISAGB, New Delhi	
4.	Fellow- RAASA, New Delhi	
5.	Fellow- ISNS, Chennai	
❖ Patent / Technologies / Methodologies / System etc. (Not more than five):		
1.	Development of an in-house built lamp assay for rapid detection of cow components adulterated in buffalo mili/meat. patent no. : 474562 granted	
2.	A visible Test for Differentiating Cow and Goat milk/Meat: Patent Granted No. 503089	
3.	Development of a Rapid User Friendly Single Tube Tetra Primer PCR Based Diagnostic Assay for Detection of Bovine Leukocyte Adhesion Deficiency (BLAD) Carriers in Cattle: Patent Granted – No. 411559	
4.	Development of tetra primer displacement PCR (T-ARMS DPCR) assay for detection of Complex vertebral malformation (CVM) carriers in cattle	
5.	SIRELAM: SYSTEMATIC INFORMATION RESOURCES FOR DAIRY ANIMAL MANAGEMENT: Copyrights Registration no. SW-17701/2023	
❖ Selected Publications: (Max. 20) <u>total articles published: 148</u>		
1.	Singh Umesh and Manuja N K. 1995. Inheritance of wool quality traits in native (Gaddi) exotic (Rambouillet and Merino) and crossbred sheep. <i>The Indian Journal of Small Ruminants</i> 1 (2):1-4.	
2.	Singh Umesh and Manuja N K 2000. Genetic and phenotypic correlation of reproductive and productive traits in exotic and their crosses with Gaddi sheep in Himachal Pradesh. <i>Indian Journal of Animal Sciences</i> 70 (1) : 63-64.	
3.	Singh Umesh Gupta R K, Singh Mohan and Gurung B S 2000. Reproduction and production performance of Aseel, an indigenous breed of chicken. <i>Indian Journal of Poultry Science</i> 35 (2): 202-204.	
4.	Singh Umesh. 2001. Lifetime calvings from Jersey and Red Sindhi X Jersey half breeds in an Organized Dairy Herd in Himachal Pradesh. <i>The Indian Journal of Animal Reproduction</i> , 22 (2) : 187-188.	



5.	Singh, Umesh , Sharma, S. R., Bhatt, R. S., Risam, K. S., Kumar Davendra, Sawal R. K. and Swain N. (2004). Effect of feeding on the production performance of German Angora rabbits. <i>Indian Journal of Animal Sciences</i> , 74(5): 550-551
6.	Singh, Umesh , Sharma, S. R., Bhatt, R. S., Risam, K. S., Kumar Davendra, Sawal R. K. and Swain N. (2004). Effect of parity on the production performance of German Angora rabbits. <i>Indian Journal of Animal Sciences</i> , 74 (5): 547-549
7.	Singh Umesh , Sharma S. R., Bhatt R. S., Bhasin V., Risam K. S. (2003). Estimates of Genetic and Non-genetic parameters of growth and reproductive traits in New Zealand White rabbits under sub- temperate Himalayan conditions in India. <i>Egyptian Journal of Rabbit Science</i> , 13:1-9.
8.	Singh Umesh , Sharma S R, Bhatt R S, Kumar D and Risam K S. (2006) Effect of shearing intervals on growth and wool parameters of German Angora rabbits. <i>Indian Journal of Animal Science</i> , 76: 88-91.
9.	Singh Umesh , Gaur G. K, Garg R. C and Vinoo R. (2006). Genetic evaluation of Ongole bulls at organized herds. <i>Indian Journal of Animal Sciences</i> , 76 (11): 931-933.
10.	Singh Umesh , Sharma S. R., Bhatt R. S., Bhasin V., Risam K. S. (2007). Growth and reproductive performance of Grey Giant rabbits under sub-temperate conditions in Himachal Pradesh. <i>Indian Journal of Animal Sciences</i> , 77 (4): 328-330.
11.	Singh Umesh , Kumar Arun, Beniwal B. K. and Vinoo R. (2007). Performance evaluation of Ongole cows by birth weight and sex of their calves. <i>Indian Journal of Dairy Science</i> 60 (1):30-32.
12.	Singh Umesh , Kumar Arun, Beniwal B. K. and Khanna A S. (2008). Evaluation of breeding values of Haryana bulls on organized farms. <i>Indian Journal of Animal Sciences</i> 78 (4): 388-390
13.	Singh Umesh , Kumar Arun, Beniwal B. K. and Vinoo R. (2008). Factors affecting the first lactation traits in Ongole cows. <i>Indian Veterinary Journal</i> 85(6):626-629
14.	Singh Umesh , Kumar Arun, Kumar Sushil and Beniwal B K. 2011. Evaluation of Sahiwal cattle for lifetime traits in an organized herd. <i>Indian Journal of Animal Sciences</i> , 81 (7):708-710
15.	Singh Umesh , Kumar Sushil, Deb Rajib, Mann Sandeep and Sharma Arjava (2013). Genotypic profiling of coding region of leptin gene and their association studies on reproductive and milk production traits in Sahiwal and Frieswal cattle of India. <i>African Journal of Biotechnology</i> vol. 12(42):6140-6146.
16.	Singh Umesh , Deb Rajib, Alyethodi R.R., Alex Rani, Kumar Sushil, Chakraborty Sandip, Dhama Kuldeep, and Sharma Arjava (2014) Molecular markers and their applications in Cattle Genetic Research: A review- <i>Biomarkers and Genomic Medicine (Science Direct Elsevier)</i> 6: 49-58
17.	Singh Umesh , Kumar Sushil, Ganguly Indrajit, Gaur G K, K Jagadeesan, Kumar Sunil, Mann Sandeep and Singh Rani (2014). Identification of genetic polymorphism in two exonic coding region of <i>LEPTIN GENE</i> among indigenous and crossbred cattle. <i>Indian Journal of Animal Research</i> , 48 (5): 403-407.
18.	Singh Umesh , Deb Rajib, , Kumar Sushil, Singh Rani, Sengar Gyanendra and Sharma Arjava. (2015). Association of prolactin and beta-lactoglobulin genes with milk production traits and somatic cell count among Indian Frieswal (HF 3 Sahiwal) cows. <i>Biomarkers and Genomic Medicine</i> 7: 38-42
19.	Singh Umesh , Alex Rani, Chaudhary Ayushi, Deb Rajib, Raja Venketesan Thiruvethur, Rathod Bharatsingh, Savaliya Bhagavanji Dayabhai, Kumar Sushil and Das Achintya Kumar. 2022. Genetic variants in 5'UTR and exonic region of NPY gene

	alter the reproduction performance in Indian cattle breeds. Reproduction in Domestic Animals, DOI: 10.1111/rda.14281
20.	Singh Umesh , Alex Rani, Kumar Sushil, Deb Rajib, Raja T V, Singhal Shaily, Sengar Gyanendra Singh, Rathod B S, K Murthy S, and Patil N.V. 2020. Association of bovine KISS1 Single Nucleotide Polymorphisms with reproductive traits in Indian Cattle. Reproduction in Domestic Animals: 55:922-930, doi.org/10.1111/rda.13704
*On-going research projects	
1.	Indigenous Breeds Project of AICRP on Cattle
2.	
*Research Scholar	
1.	01 – Ph. D student Guided
2.	02 - M V Sc./ M Sc. Guided