



ANEET KOUR, Ph.D.  
Scientist (Animal Genetics and Breeding)  
ICAR-National Research Centre on Yak  
Dirang-790101, West Kameng District  
Arunachal Pradesh, India  
Email: [aneetk25@gmail.com](mailto:aneetk25@gmail.com)  
Phone: +91-9796455788

### Scholarly Interests

My research interests include genetic marker identification, Genome-wide Association Studies (GWAS) and Bayesian inference in phenotypic and genomic data analysis. My current focus is on elucidation of genomic diversity and identification of genetic markers associated with novel traits in Yaks. In the future, I would like to make endeavors in the areas of marker validation through genome editing and genomic prediction.

### Recent publications

1. Raina, Varinder Singh, **Anheet Kour**, Atish Kumar Chakravarty, and Vikas Vohra. "Marker-assisted selection vis-à-vis bull fertility: coming full circle—a review." *Molecular Biology Reports* (2020): 1-11.
2. **Anheet Kour** and SM Deb. "Genome-Wide Association Study: A Genomic resort to tackle the menace of Anti-microbial Resistance." *Indian Journal of Animal Health* (2019), 58(2):71-86.
3. **Anheet Kour**, A.K. Chakravarty, Varinder Raina and Poonam Ratwan. "Buffalo: An important Economic Resource for Rural Households." *Indian Dairyman* (2019): 80-86
4. **Anheet Kour**, A.K. Chakravarty, Varinder Singh Raina, Saleem Yousuf, Poonam Ratwan and T Karuthadurai. "Genetic variation in intronic region of GH1 gene and its potential as a marker for test day milk production traits in Holstein Friesian crossbred cattle." *Indian Journal of Animal Sciences* (2019), 89(9): 979–982.
5. **Anheet Kour** and Varinder Singh Raina. "Genome-Wide Association Study: First step towards a genomics future in Dairy Cattle Breeding." In: *Advances in Veterinary Sciences*, Volume 5 (Ed.) Dr. S. Sreedhar. (2019). Akinik publications, New Delhi. ISBN: 9789353356637
6. **Anheet Kour**, A.K. Chakravarty, A.K. Gupta and Varinder Raina. "Identification of genetic marker for CSN3 gene in Karan Fries (Holstein Friesian crossbred) population." *Indian Journal of Animal Sciences* (2018), 88 (7): 808–811.
7. **Anheet Kour**, A.K. Chakravarty, Varinder Raina and Pradeep Nag. "Effect of Intron 3 and Exon 5 polymorphism in GH1 gene on milk production and milk composition traits in Karan Fries (Holstein Friesian crossbred) cattle." *International Journal of Livestock Research* (2018), 8(11), 81-87.

### Awards and Recognitions

1. Received the 'Best FOCARS Trainee' award for 111<sup>th</sup> Foundation Course for Agricultural Research Scientist (FOCARS) training programme
2. **Anheet Kour**, S.M. Deb, Varinder Singh Raina, Nilesh Nayee, Anupama Mukherjee and I.D. Gupta. 2020. Genome-wide Association studies coupled with Bayesian statistics pave the way for selection of superior Sahiwal animals in future. Best Poster Presentation Award in the International Conference on "Advances and Innovations in Agriculture and Allied Sciences" organised by SAAR from 31<sup>st</sup> January 2020 to 1<sup>st</sup> February 2020 at JNU, New Delhi.
3. **Anheet Kour**, Varinder Singh Raina, Saleem Yousuf, Poonam Ratwan and A.K. Chakravarty. 2019. Contribution of SNPs in GH1 gene to the Test Day wise Breeding Values for milk yield in HF Crossbred cattle. Second Best poster award in the XV<sup>th</sup> National Symposium of SOCDAB on "Animal Genetic Resources for Food and Social Security" held on 7-8 Feb, 2019 at ICAR-NBAGR, Karnal.
4. **Anheet Kour**, A.K. Chakravarty, Varinder Raina, Poonam Ratwan and Arun Pratap Singh. 2017. Marker Assisted Selection Strategy for Improving Kappa-Casein Yield in Milk of Crossbred (Karan Fries) Cattle. Best poster presentation award in International Conference of SBBS on "Recent Trends in Bioinformatics and Biotechnology for Sustainable Development" from 12-10-2017 to 13-10-2017 held at SKUAST, Jammu.