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Scholarly Interests:

My research interest includes molecular biology, genetics and genome editing. In the future, I would like to study the genetic diversity, identification and analysis of the genes governing adaptation, milk production and disease resistance in the native Yak population. Further, I would like to work on the facets of increasing the Indian Yak population and conservation of the Yak germplasm.

Publications:

1. **Loat, S.**, Kumari, N., Saini, S., Dige, M. S., Kumar, A., Dhilor, N., ... & Kataria, R. S. (2023). Allelic diversity at BoLA DRB3 locus and association with predisposition to clinical mastitis in indicus and crossbred cattle. *Animal Biotechnology*, 34(4), 1030-1039.
2. Kumari, N., Mishra, S. K., Saini, S., Kumar, A., **Loat, S.**, Dhilor, N., ... & Kataria, R. S. (2022). Identification of novel allelic patterns and evolutionary lineage of BoLA MHC class II DQA locus in indicine and taurine cattle. *Animal Biotechnology*, 33(7), 1746-1752.
3. **Loat, S.**, Kumari, N., Dhilor, N., Kumar, A., Kumar, N., Niranjana, S. K., ... & Kataria, R. S. (2020). Expression analysis of MHC class II DRB3 gene in mastitis affected indicus and crossbred cattle. *Indian Journal of Animal Sciences*, 90(3), 395-396.
4. Kumari, N., **Loat, S.**, Saini, S., Dhilor, N., Kumar, A., & Kataria, R. S. (2019). Role of BoLA-DRB3 genetic diversity against resistance to mastitis in cattle: Review. *Journal of Veterinary Science and Research*, 1, 30-36.

Abstracts published in Conferences:

1. Namita Kumari, **Shubham Loat**, Shallu Saini, Nitika Kumari, S.K.Mishra, Anurag Kumar and R.S.Kataria. Identification of novel allelic patterns through genetic diversity analysis of MHC class II locus of indigenous cattle breeds. National conference on advances in biotechnology-An interdisciplinary approach, Sharda University, Noida.
2. Shallu Saini, **Shubham Loat**, Namita Kumari, S.K.Mishra, Nitika Dhilor, Anurag Kumar and R. S. Kataria. Documentation of Allelic Diversity at DRB3 Locus of Major Histocompatibility Complex Class II in Indicus, Exotic and Crossbred Cattle. International conference on New Horizons in Green Chemistry & Technology, Uttaranchal college of applied and life sciences, Dehradun.
3. **Shubham Loat**, Namita Kumari, Shallu Saini, Nitika Dhilor, Anurag Kumar, S K Niranjana and R. S. Kataria. Genetic diversity analysis at DRB3 locus of bovine MHC class II among indicus and exotic cattle and its association with disease resistance. XVIth SOCDAB National Symposium on "Animal Genetic Resources for Food and Social Security".

Awards:

1. Third prize in International conference on New Horizons in Green Chemistry & Technology, Uttaranchal college of applied and life sciences, Dehradun.
2. First prize in National conference on advances in biotechnology-An interdisciplinary approach, Sharda University, Noida.