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Research areas/areas of interest

Population and Molecular Genetics (Cattle/Buffalo Breeding)

Research Projects

Sl. No.	PI/Co-PI	Title
1	PI	Characterization of small hill cattle of Kumaon region
2.	PI	Economic viability of large and small breeds of dog under Tarai conditions
3.	Co-PI	Characterization and conservation of local hill fowl of Kumaon region
4.	Co-PI	Studies on genetic abnormalities of reproductive disorders in crossbred and Sahiwal cattle
5.	Co-PI	Characterization and conservation of local hill fowl of Kumaon Region
6.	Co-PI	Network Project on AnGR Characterize/Conserve Indigenous Animal Genetic Resources of Uttarakhand (In Operation)
7.	Co-PI	Enhancing Sustainable Livelihoods and Economic Empowerment among Tribal Families in Uttarakhand through Scientific Goat Farming
8.	Co-PI	Empowering Tribal Families in Uttarakhand: A Poultry-Based Approach to Economic Security
9.	Co-PI	Network Project on Buffalo Improvement (In Operation)

Selected Research Publications

1. Rahman, Javid Ur; **Kumar, D.** Singh, S.P.; Shahi, B.N.; Ghosh, A.K.; Dar, A.H. and Togla, Oshin. (2025). Genome-wide association studies of milk composition traits in indicine Badri cattle using ddRAD sequencing approach. *Tropical Animal Health and Production*. Vol 57(10): 1-13.

2. Rahman, Javid Ur; **Kumar D.**; Singh, S.P.; Shahi, B.N.; Ghosh, A.K. and Jahan, Tarannum (2025). Genome-wide association studies revealed genomic regions associated with production and reproduction traits in indicine cattle. *The Nucleous*, Online published. (<https://doi.org/10.1007/s13237-0225-00538-1>)
3. Rahman, Javid Ur; **Kumar, D.** Singh, S.P.; Shahi, B.N.; Ghosh, A.K.; Kumar, Anil; Dar, A.H.; Ahmad, S.F.; Pathak, Abhishek; Verma, M.K. (2024). Genetic diversity, population structure analysis and codon substitutions of Indicine Badri cattle using ddRAD sequencing. *3 Biotech*, 14(2): 46.
4. Rahman, J.U., **Kumar, D.**, Singh, S.P., Shahi, B.N., Gupta, A.K., Verma, M.K., Pathak, A., Dar, A.H., Kumar, A., Sharma, R.K. (2023). Genome-wide identification and annotation of SNPs and their mapping in candidate genes related to milk production and fertility traits in Badri cattle. *Tropical Animal Health and Production* 55(2): 117.
5. Girimal, Dhanraj G.; **Kumar, D.**; Shahi, B.N. and Kumar, S. (2023). Testing of traditional ways of predicting lactation yield for selecting dairy cattle. *Indian Journal of Traditional Knowledge*. 22 (3), 514-517.
6. Girimal, D.G., **Kumar, D.**, Shahi, B.N., Ghosh, A.K., Kumar, S. (2022). Sire evaluation using conventional methods and animal models in Sahiwal cattle. *Indian Journal of Animal Sciences* 92 (4), 492-496.
7. Arya, Vineeta; Shahi, B.N.; **Kumar, D.**; Barwal, R.S.; Kumar, Sunil & Gautam, Lokesh (2020). Comparison of lactation curve models for fortnightly test day milk yield. *Indian Journal of Animal Science*. 90 (3). Pp 140-144.
8. Ganie, Z.A., **Kumar, D.**, Kumar, Sundip, Shahi, B.N., Ghosh, A.K. (2017). Genetic diversity analysis of Chaugarkha goat using microsatellite markers. *Indian Journal of Animal Sciences* 87(1): 122-124.
9. Deshmukh, B., **Kumar, D.**, Kashyap, N., Sharma, D. (2015). Study of genetic polymorphism of various chicken breeds using microsatellite markers. *Indian Journal of Animal Research* 49(1):1-7.
10. **Kumar, D.**, Gaur, A.K. (2015). Performance studies of hill cattle: A unique indigenous germplasm of Uttarakhand. *Indian Journal of Animal Sciences*. 85 (12):1390-1392.

Books/Book Chapters

- **Kumar, D.** and Bhatt, P. A Textbook on Pet Animal Management. ICAR, New Delhi, (2022). ISBN: 978-81-7164-251-9
- Dr. A.K. Ghosh; **Dr. D. Kumar** and Dr. R.S. Barwal (2025). बकरी पालन एक सम्पूर्ण मार्गदर्शिका ISBN: 978-93-343-8486-4
- Dr. Sunil Kumar; **Dr. D. Kumar**; Dr. Maansi and Dr. Arpita Sharma.Kandpal. (2025). कुक्कुट पालन: देखभाल, प्रबंधन एवं विपणन ISBN: 978-93-343-2083-1

Other Information

- Characterization, conservation and breed registration of Uttara Fowl (Team Member)
- Characterization, validation and registration of genetic resources found in Uttarakhand state.
- The Uttarakhand Bovine Breeding Act 2018 (Acted as a Team Member)
- Actively contributing as a member of various universities, state, and national-level committees focused on livestock development, academic advancements, and policy

formulation. Additionally, serving as an expert in the selection process for university professors and scientists at the national level.