

Name: Dr. Ankit Magotra

Designation: Deputy Director Research, Directorate of Research,
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Research Domain:

Animal Genomics; Quantitative Genetics; Bioinformatics; Biotechnology; Artificial
Intelligence; Livestock Farming; Animal Welfare

Educational Qualifications:

S. No	Examination Passed	Year	University	Division
1	Ph.D.	2016	NDRI, Karnal	1st
2	M.V.Sc.	2010	AAU, Jorhat, Assam	1st
3	B.V.Sc. & A.H.	2008	OUAT, Bhubaneswar, Orissa	1st

❖ **Professional Experience:**

- **Deputy Director Research, Directorate of Research, SKUAST-J**
4th July 2024 – Present
- **Assistant Professor, Department of Animal Genetics and Breeding, LUVAS, Hisar**
26th November 2013 – 3rd July 2024
(10 years, 7 months, and 12 days)

❖ **Additional Roles:**

- Assistant Coordinator (P&C), Directorate of Research (2 years 3 months)
- In-charge, Animal Genomics Lab (9 years)
- In-charge, Cattle Treatment and Reproduction Section, and Animal Database Management (online and offline) (4 years)
- In-charge, Goat Section (2 years)
- In-charge, Sheep Section (4 years 6 months)

❖ **Research Projects Handled:**

Role	Number	Completed
Principal Investigator (PI)	03	03
Co-Principal Investigator (Co-PI)	14	08

❖ **Students Guided as Major Advisor:**

S. No	Degree	Number
1	M.V.Sc.	04
2	Ph.D.	02

❖ **Publication Record:**

Publication Type	Total Number	International	National
Research Articles	120	61	59
Review Articles	09	02	07
Books (ISBN)	03	01	02

❖ **Infrastructure Developed:**

- Established Animal Genomics Lab under RKVY project.
- Equipped lab with advanced technologies including Sanger Sequencer, PCR, Robotic DNA/RNA purification system, Real-time PCR, Gel documentation system, Bright-field, and phase-contrast microscopes.
- Developed DNA bank (Cattle, Buffalo, Sheep, Goat) for genomic studies, collaborating with NDDB, NDRI, and NBAGR.
- Developed “DNA Bank Database Management Software” under RKVY project.
- Contributed to national COVID-19 testing efforts at NRC Equine and Agroha Medical College.

❖ **Policy Documents/Events Organized/Collaborations:**

- Drafted “The Haryana Animal (Registration, Certification, and Breeding) Bill, 2019”.
- Prepared conservation, breeding, and research plans to save house sparrows.
- Organized multiple national seminars on sustainable development in livestock farming.
- Collaborated with C-DAC Mohali for AI applications in livestock.
- Prepared revenue generation documents for various departments.

❖ **ICT/Training Modules:**

- Developed three Android-based applications.
- Coordinated nine training courses.

❖ **Instructional Material Developed:**

- Five manuals for UG and PG courses.

❖ Awards and Recognitions:

1. **Young Scientist Award-2024** (National conference on Smart and Sustainable Dairy Farming)
2. **Best Researcher Award-2024** (1st International Conference on Emerging Technologies in Agriculture & Allied Sciences)
3. Appreciation Letter from Additional Chief Secretary, Govt. of Haryana (Animal Husbandry & Dairying Department)
4. **Dr. M. L. Madan Award-2024** (Outstanding contribution in Animal Genetics and Breeding)
5. **G.B. Singh Memorial Award-2019** (Meritorious contribution to research in Animal Reproduction)
6. Certificate of Appreciation (Director NDRI, Dairy Production research)
7. Numerous other national and institutional awards for research, paper presentations, and capacity-building initiatives.

❖ Scientific Society Memberships:

- Haryana Veterinary Council (HVC-2508)
- Indian Association for the Advancement of Veterinary Research (IAAVR)
- Society for Bioinformatics and Biological Sciences (SBBS)
- Indian Society for Advancement of Canine Practice
- Indian Society for Sheep and Goat Production and Utilization
- Indian Dairy Association

❖ Selected Publications (Top 10):

1. Magotra, A., Bangar, Y.C., & Yadav, A.S. (2022). Neural network and Bayesian-based prediction of breeding values in Beetal goat. *Tropical Animal Health and Production*, 54(1), 282. NAAS rating: 7.89, Impact Factor: 1.8.
2. Magotra, A., et al. (2021). Growth curve modeling and genetic analysis of growth traits in Beetal goat. *Small Ruminant Research*, 195, 106300. NAAS rating: 7.89, Impact Factor: 1.8.
3. Magotra, A., et al. (2021). Influence of maternal and additive genetic effects on offspring growth traits in Beetal goat. *Reproduction in Domestic Animals*, 10.1111/rda.139. NAAS rating: 7.7, Impact Factor: 1.7.
4. Magotra, A., et al. (2018). SNP of CACNA2D1 gene associated with clinical mastitis in Sahiwal and Karan Fries cattle. *Animal Biotechnology*. NAAS rating: 9.7, Impact Factor: 3.7.
5. Yadav, T., et al. (2021). Effect of SNP in leptin gene on production and reproduction traits in Indian dairy cattle. *Animal Biotechnology*. NAAS rating: 9.7, Impact Factor: 3.7.
6. Gothwal, A., et al. (2022). DGAT1 gene mutation and its impact on production traits in Indian dairy cattle. *Animal Biotechnology*. NAAS rating: 9.7, Impact Factor: 3.7.
7. Mehla, K., et al. (2014). Genome-wide analysis of heat stress response in Sahiwal cattle. *Gene*. NAAS rating: 9.5, Impact Factor: 3.5.
8. Magotra, A., et al. (2015). SINE insertion in FSH beta gene in indigenous pigs. *Molecular Biology Reports*, 42(3), 465-470. NAAS rating: 8.8, Impact Factor: 2.8.
9. **Magotra, A.,** Gupta, I. D., Ahmad, T., & Alex, R. (2020). Polymorphism in DNA repair gene BRCA1 associated with clinical mastitis and production traits in indigenous dairy

cattle. *Research in Veterinary Science*, 133, 194–201. **8.4 NAAS rating, 2.4 Impact Factor.**

10. Jeet, V., **Magotra, A.**, Bangar, Y. C., Kumar, S., Garg, A. R., Yadav, A. S., & Bahurupi, P. (2021). Evaluation of candidate point mutation of Kisspeptin 1 gene associated with litter size in Indian goat breeds and its effect on transcription factor binding sites. *Domestic Animal Endocrinology*, 78, 106676. **8.1 NAAS rating, 2.1 Impact Factor.**