

Dr. Javid Ur Rahman

Scientist-B, CSR&TI, Berhampore

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EDUCATION

Ph.D. in Animal Genetics and Breeding

(2018-2022)

GB Pant University of Agriculture and Technology, Uttarakhand, India

Thesis Title: “Assessment of genetic diversity and identification of novel SNPs in Badri cattle using genotyping by sequencing approach”

M.V. Sc. in Animal Genetics and Breeding

(2016-2018)

ICAR-National Dairy Research Institute, Karnal, Haryana, India

Thesis Title: “Comparative Evaluation of Functional Traits in Indigenous and Crossbred Cattle”.

B.V. Sc. & A.H

(2011-2016)

Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar, India

National Eligibility Test Qualified (Agricultural Scientists Recruitment Board, ICAR).

(2018)

HONORS / AWARDS/ ACHIEVEMENTS

1. **Indian Council of Agriculture Research- Junior Research Fellowship** during the M.V.Sc degree programme. All India Rank 18, ICAR-JRF, 2016
2. **Indian Council of Agriculture Research- Senior Research Fellowship** during the Ph.D degree programme. All India Rank 01. ICAR-SRF, 2018.
3. **Young Scientist Award** for outstanding contribution in the field of Animal Genetics and Breeding by “The society for academic research and rural development”. (2022)
4. **Best paper presentation award** at Indian Society of Animal Genetics and Breeding: National conference, 2021.
5. **Bharat Ratna Pt. Govind Ballabh Pant Award (2021-22)**. First from college of Veterinary and Animal Sciences.
6. **Genome Sequencing** of 96 Badri cattle animals and submission of their genomic data in **EVA-EMBL-European Bioinformatics Institute** under accession number: Project: **PRJEB59419** Analyses: **ERZ16007574**. <https://wwwdev.ebi.ac.uk/eva/?eva-study=PRJEB59419>

PUBLICATIONS

1. **Rahman, J.U.***, Kumar, D., Singh, S.P., Shahi, B.N., Ghosh, A.K., Kumar A, Dar, A.H., Ahmad S.F., Pathak, A. and Verma, M.K. Genetic diversity, population structure analysis and codon substitutions of Indicine Badri cattle using ddRAD sequencing. *3 Biotech*, **Accepted on 18 Dec 2023 (2023)**.
2. **Rahman, J.U.***, Kumar, D., Singh, S.P., Shahi, B.N., Ghosh, A.K., Verma, M.K, Pathak, Dar, A.H., Kumar, A. and Sharma, R.K. Genome-wide identification and annotation of SNPs and their mapping

- in candidate genes related to milk production and fertility traits in Badri cattle. *Trop Anim Health Prod*, 55, 117 (2023).
3. Dar, A.H., Singh, S. K., **Rahman, J.U.***, and Ahmad, S.F. Effects of Probiotic Lactobacillus acidophilus and/or Prebiotic Mannan oligosaccharides on Growth Performance, Nutrient Utilisation, Blood metabolites, Faecal Bacteria and Economics of Crossbred Calves. *Iran J Vet Res*. 2022;23(4):322-330.
 4. Dar, A.H., Kumar, S., Mukesh, M., Ahmad, S. F., Singh, D. V., Sharma, R. K., Ghosh, A.K., Singh, B., **Rahman, J.U.** and Sodhi, M. Genetic characterization and population structure of different coat colour variants of Badri cattle. *Mol. Biol. Rep.*, 47(11), 8485-8497. 2020
 5. Dar, A.H., Kumar, S., Sodhi, M., **Rahman, J.U.***, Yadav, S. and Baba, N.A. Physical and Morphometric Characterisation of Badri Cattle. *J. Anim. Res.*, 12(02), 01-05. 2022.
 6. **Rahman, J.U.***, Kumar, D., Shahi, B.N., Ghosh, A.K., Singh, S.P., Sharma, R.K., Kumar, A. and Singh, S. (2021). Assessment of non-genetic factors affecting production and reproduction traits in Badri cattle. *J. Anim. Res.*, 11(3): 375-380.
 7. Verma, M.K, Ahmad, A.H., Singh, S.P., Pant, D., Kumar, N. and **Rahman, J.U.*** (2022). Hepatoprotective Activity of Chenopodium album against Cyclophosphamide-Induced Hepatotoxicity in rats. *Indian Vet. J.*, 99 (06) : 25 - 29.
 8. Nabi, B., Upadhyay, S.R. Rasool, S., **Rahman, J.U.***, Singh, R., Nabi, S., Sofi, O.M., and Sheikh, A.A. (2022). Insight to Antibiotic Resistance Under One Health Banner - A Review. *Indian Vet. J.*, 99 (06) : 07 - 15.
 9. **Rahman, J.U.***, Gupta, A.K., Yousuf, S., Baba, N.A., Rana, E., Paray, A.R., Dar, A.H and Ahmad, S.F. (2020). Effect of season and parity on incidence of udder, calving and uterine disorders of Gir cattle in an organized herd. *J. Pharm. Innov.*, 9(5): 14-17.
 10. Dar, A.H., Kumar, S., Singh, D.V., Sodhi, M., Sharma, R.K., Ghosh, A.K., Sigh, B., **Rahman, J.U.** (2019). Seasonal variation in blood biochemical characteristics of Badri cattle. *J. Pharm. Innov.*, 8(9): 147-150.
 11. Paray, A.R., Bhakat, M., Lone, S.A., Mohanty, T.K., Sinha, R., **Rahman, J.U.**, Khanday, Z.B. and Danish, Z. 2018. Role of preputial washing in reducing microbial load and improving bovine semen quality. *Asian Pac. J. Reprod.*, 7 (3): 97-102.
 12. Kumar, N., Verma, M.K., **Rahman, J.U.**, Singh, A.K., Patidar, S. and Jakhar, J. (2021). An Overview of the Various Methods for Diagnosis, Treatment, and Controlling of Trypanosomiasis in Domestic, Pet, and Wild Animals. *Biological Forum – An International Journal*, 13(3a): 389-399.
 13. Kumar, N., Verma, M.K., Singh, A.K., **Rahman, J.U.**, Jakhar, J and Patidar, S. (2021).A Review of the Epidemiological, Clinical, and Pathological Aspects of Malignant Catarrhal Fever. *Biological Forum–An International Journal*,13(3a):575-583.
 14. Pathak, A., Singh, S.P, Shahi, B.N., Verma, M.K and **Rahman, J.U.** 2021. Variation In Milk Composition Of Badri Cattle At Different Altitudes Of Uttarakhand. *Journal of Veterinary Pharmacology and Toxicology*.20(2):87-91.
 15. Pathak, A., Singh, S.P, Shahi, B.N., Verma, M.K and **Rahman, J.U.** 2022. Comparative analysis of hematobiochemical profile of Badri cattle at different altitudes of Uttarakhand. *Journal of Veterinary Pharmacology and Toxicology*.21(1):35-37.
 16. Pal S., Singh B., Dongre S., **Rahman J.U.** and T, Thomas. 2023. Heritability estimates of performance traits in Sahiwal cattle. 10 (5): 425-431.

CONFERENCES

1. “XIX SOCDAB National Symposium on “Contemporary Technology for Animal Genetic Resource

- (AnGR) Management” organized by Society for Conservation of Domestic Animal Biodiversity at ICAR-National Bureau of Animal Genetic Resources, Karnal on September 21-22, 2022
2. National Conference on “Animal Breeding Strategies in the Era of Genomics and Phenomics” and XV Annual Convention of Indian Society of Animal Genetics & Breeding December 17-18, 2021, ICAR-NBAGR, Karnal.
 3. Virtual International Conference on “Promising Genetic and Genomic Technologies – Frontier in Selection and Animal Improvement” jointly organized by Department of AGB, Veterinary College and Research Institute, Orathanadu and Department of AGB, College of Veterinary and Animal Sciences, Pookode from 27-Jan-2021 to 28-Jan-2021.
 4. XVIII Annual Convention and National Webinar on Harnessing Potential of Indigenous Animal Genetic Resources for Enhancement of Productivity and Profitability February 11-12, 2021, ICAR-NBAGR, Karnal.
 5. International Conference on Recent Advances and Innovations in Biological and Applied Sciences (RAIBAS-2022) during June 14-16, 2022 organised by “The society for academic research and rural development” 2022.
 6. International conference on “Recent Trends in Bioinformatics and Biotechnology for Sustainable Development” held from October 12-13,2017 at Faculty of Veterinary and Animal Husbandry, SKUAST-Jammu.

LIST OF PAPERS PRESENTED IN INTERNATIONAL AND NATIONAL CONFERENCES

1. Genome-Wide Association Study of Fat and Protein Content in Milk of Badri Cattle.
2. Studies on reproduction traits and non-genetic factors affecting these traits in Badri cattle.
3. Badri cattle ddRAD sequencing reveals its colour variants are not distinct

LIST OF ABSTRACTS PUBLISHED IN INTERNATIONAL AND NATIONAL CONFERENCES

1. Genome-Wide Association Study of Fat and Protein Content in Milk of Badri Cattle.
2. Badri Cattle ddRAD Sequencing Reveals its Colour Variants are not Distinct
3. Comparative Analysis of Udder Health Indicator Traits in Indigenous and Crossbred Cattle using logistic Regression
4. Studies on reproduction traits and non-genetic factors affecting these traits in Badri cattle.
5. Effect of non-genetic factors on production traits in Badri cattle.
6. Effect of Preputial Washing on microbial load of Preputial cavity in Sahiwal bulls.

INTERNATIONAL WORKSHOPS ATTENDED

1. International workshop on “Microbial Omics and Metagenomics” conducted between 25 January to 31 Jan 2021.
2. International bioinformatics workshop for “Cancer genomics” conducted between 01 March to 12 March 2021.

TRAININGS PROGRAMMES ATTENDED

1. Workshop on Advanced Microbial Diagnosis and Bioinformatics (Dec 2023)
2. Five Days Training Programme on “Applications of Bioinformatics in Genome Analysis”
3. Seven Days Training Programme on “Use of Artificial Intelligence and Machine Learning for Revamping the Existing Animal Breeding Systems”.

4. Thirteen Days Training Programme on “Artificial Intelligence”.
5. Five Days Training Programme on “The Basic Concepts of Statistical Methods for Research Data Analysis”.
6. Short Training Course on Molecular Diagnostics” conducted between 20 March to 26 March 2015 under Star college scheme DBT. GOI.
7. 21 Days National Innovative Training Programme On “Advances in fodder production, utilization and conservation for improving livestock health, productivity and environmental sustainability.
8. 21 Days National Innovative Training Programme On “Recent Technologies of Agribusiness Management and Agri Entrepreneurship.

SHORT COURSES ATTENDED

1. Six weeks online course on “Management of Infertility in Cattle” conducted by TANUVAS, Chennai, IIT Kanpur and Common wealth of learning, Canada.
2. Six weeks online course on “Fluid Therapy and Management of Clinical Syndrome in Cattle and Small Ruminants” conducted by TANUVAS, Chennai, IIT Kanpur and Common wealth of learning, Canada.
3. Six weeks online course on “e-Extension” conducted by BHU, IIT Kanpur and Common wealth of learning, Canada.
4. Eight weeks online course on “Nutrition, Therapeutics and Health” conducted jointly by IIT Kanpur and Common wealth of learning, Canada.

REVIEW ACTIVITIES FOR JOURNALS

1. Tropical Animal Health and Production (Springer Nature)
2. Life Sciences (Elsevier) Review under process

PROFESSIONAL SKILLS

Animal breeding, molecular genetics, bioinformatics and Veterinary medicine and surgery

PROFESSIONAL AFFILIATIONS

1. Society for conservation of domestic animal biodiversity, India.
2. Society for bioinformatics and biological sciences, India.
3. The society for academic research and rural development.
4. Jammu & Kashmir state veterinary council.

Place: Berhampore (WB)

Date: January, 2024

(Javid Ur Rahman)