

FACULTY MEMBER ACADEMIC PROFILE

- 1. Full name of the faculty member:** Professor Manoranjan Roy
- 2. Designation:** Professor
- 3. Specialisation:** Animal Genetics and Breeding
- 4. Contact information:** Phone: 9836367035 e-mail ID: drmanoranjanroy@gmail.com
- 5. Academic qualifications:**

College/ University from which the degree was obtained	Abbreviation of the degree
West Bengal University of Animal and Fishery Sciences	B.V.Sc.&A.H.
West Bengal University of Animal and Fishery Sciences	M.V.Sc. (Animal Genetics & Breeding)
West Bengal University of Animal and Fishery Sciences	Ph.D. (Animal Genetics & Breeding)

6. Positions held/ holding or Work Experience:

Positions held/holding	Period
Professor Dept. of Animal Genetics & Breeding, F/o VAS, WBUAFS	Teaching, Research and Extension (From 27.09.2022 to till date)
Associate Professor Dept. of Animal Genetics & Breeding, F/o VAS, WBUAFS	Teaching, Research and Extension (From 27.09.2019 to 26.09.2022)
Assistant Professor Dept. of Animal Genetics & Breeding, F/o VAS, WBUAFS	Teaching, Research and Extension (From 14.08.2012 to 27.09.2019)
Veterinary Officer and Assistant Director Animal Resource Dev. Dept, Govt. of West Bengal.	Administrative, Research and Extension (From 11.8.2006 to 13.08.2012)

7. Awards:

- **First Prize** in Oral Presentation (Animal Breeding) at ISAGBCON 2022, held in Kerala.
- **First Prize** for Oral Presentation at the National Symposium on “Biodynamic Animal Farming for the Management of Livestock Diversity under Changing Global Scenario”, organized by the College of Veterinary and Animal Sciences (CVAS), Kerala Veterinary and Animal Sciences University, Mannuthy, Kerala, from 8–10 February 2017.
- **Second Prize** for Oral Presentation at the International Symposium on “Technological Innovations in Muscle Food Processing for Nutritional Security, Quality and Safety” and the 8th Conference of the Indian Meat Science Association, held at West Bengal University of Animal and Fishery Sciences (WBUAFS), Kolkata, from 22–24 November 2018.
- **Second Prize** for Oral Presentation at the 19th Indian Veterinary Congress, XXVI Annual Conference of IAAVR, and the National Symposium on “Innovative Progress in Animal Health and Production for Safe and Secure Food under the One Health Programme Perspective”, held

at West Bengal University of Animal and Fishery Sciences (WBUAFS), Kolkata, from 1–2 February 2019.

8. Other notable activities: Professional Expertise, Academic Engagement, Training and Extension Activities

A. Professional Expertise, Advisory and Institutional Responsibilities

- Expert Member for the Registration of Bovine Semen Stations under the Directorate of Animal Husbandry & Veterinary Services (DAHVS), Department of Animal Resources Development, Government of West Bengal.
- Expert Member for the Drafting of the “West Bengal Goat Breeding Policy–2023” under DAHVS, Department of Animal Resources Development, Government of West Bengal.
- Expert Member for the Selection and Procurement of Black Bengal Bucks for the Regional Semen Production Laboratory and Semen Bank under PBGSBS, Department of Animal Resources Development, Government of West Bengal.
- Member of the State-Level Review Committee for the Accelerated Breed Improvement Programme using Sex-Sorted Semen (ABIP-SS) under PBGSBS, Department of Animal Resources Development, Government of West Bengal.
- External Expert for the Selection and Procurement of Breeding Black Bengal Goats at ICAR-NDRI, Eastern Regional Station, Kalyani, West Bengal.
- External Expert, Board of Studies, for the restructuring and revision of the PG and Ph.D. curricula of the Department of Animal Genetics & Breeding, Faculty of Veterinary Science & Animal Husbandry, Ranchi Veterinary College, Birsa Agricultural University, Kanke, Ranchi, Jharkhand.
- External Panel Member for the Walk-in-Interview for selection of a Part-Time Veterinary Doctor at AIIMS, Kalyani, on 26th April 2022.
- Selection Committee Member and Subject Expert for the recruitment of Senior Research Fellow (SRF) under the NICRA Project.
- Inspector, Veterinary Council of India, for inspection of the College of Veterinary Science, Korutla, P.V. Narasimha Rao Telangana Veterinary University, Hyderabad, Telangana, during 13th to 15th September 2021.
- Nodal Officer, NAHEP Component-2, under ICAR-NAARM, Rajendranagar, Hyderabad, representing West Bengal University of Animal and Fishery Sciences (WBUAFS), from 1st April to 1st June 2021.
- Expert Member for exploring the possibilities of crossbreeding in goats under the Department of Animal Husbandry & Dairying, Krishi Bhawan, New Delhi, on 19th November 2019.
- Expert Member for establishing the State Showcase Sheep Farm at Salboni under the National Livestock Mission (NLM), on 4th June 2018.
- Expert Member in the meeting on improvement of goat production in West Bengal, held at Pranisampad Bhavan under the Department of Animal Resources Development, Government of West Bengal, on 22nd May 2018.

- Expert Member in the Video Conference with ARD and General Administration officials from different districts of West Bengal, held at NABANNA on 17th October 2017.
- Member of the State-Level Committee for inspection and recommendations regarding biosecurity measures in State Poultry Farms under the Department of Animal Resources Development, Government of West Bengal, on 27th June 2013.
- Member of the Expert Group for evaluation of Centrally Sponsored Projects, review of goat improvement programmes, and formulation of breeding policy under State and Central Government initiatives at Kotulpur Goat-cum-Fodder Farm, Department of Animal Resources Development, Government of West Bengal, during 10th to 11th December 2014.
- Expert Member in the brainstorming session on the breeding policy for the dairy herd maintained at ICAR-NDRI, Eastern Regional Station, Kalyani, West Bengal, on 28th October 2014.

B. Invited Speaker, Resource Person and Extension Activities

- Invited Speaker on *“Scope of Entrepreneurship Development in Animal Husbandry Sector with Special Reference to Goat Farming: A West Bengal Perspective”* at the Regional-Level Workshop on Entrepreneurship Development Programme (EDP) under CSS-NLM, organized by the Deputy Director, ARD & PO, Hooghly District.
- Invited Speaker on *“Latest Scientific Overview on Black Bengal Goat with Special Reference to Feeding, Breeding & Management”*, disseminating contemporary scientific knowledge for the advancement of goat farming.
- Speaker at the State-Level *Prani Sampad Bikash Saptaha-2022*, held at Rabindrabhavan, Purulia, during 13th to 14th December 2022.
- Expert Resource Person for the farmers’ training programme on *“Advanced Training on Goatery with Special Emphasis on Black Bengal Goat Farming”*, organized at Krishi Vigyan Kendra, North 24 Parganas, Ashokenagar, on 21st November 2022.
- Resource Person at the awareness programme and Animal Health Camp organized on the occasion of *Lok Sanskriti Utsav, Krishi-O-Hastashilpa Mela-2022* at Purbasthali-I Block, Srirampur, Purba Bardhaman.
- Speaker at the *Pranisampad Mela* at Purbasthali-I Block on 15th January 2021.
- Speaker and Trainer in a training programme for SC farmers on goat management under the project *“Monitoring of Drug Residues and Environmental Pollutants”*, held at the BLDO Office, Chinsurah-Mogra Development Block, Hooghly, on 6th July 2019.

C. Professional Development, Training and Workshops

- Successfully completed the 21-day CAFT Training Programme on *“Updates on Male Infertility, Semen Technology and Quality Oocyte Production”* at the Centre for Advanced Faculty Training (CAFT) in Veterinary Gynaecology and Reproduction, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana, from 16 September to 7 October 2013.
- Completed the UGC-Sponsored Orientation Programme at UGC-HRDC, Jadavpur University, Kolkata, from 7th September to 7th October 2015.

- Participated in the training programme on *“Data Recording, Record Keeping & Analysis of Goat Production System”* at ICAR-CIRG, Farah, Mathura, Uttar Pradesh, from 1–5 March 2016.
- Participated in the workshop on *“Ethical Issues and Use of Plagiarism Detection in Research”* at INFLIBNET, Gandhinagar, Gujarat, from 29th to 31st August 2022.
- Participated in the programme on *“Role of CCSEA in Animal Experiments”*, organized by the Indian Pharmacological Society on 6th August 2023 at Viceroy Boutique Hotel, Kolkata.
- Participated in the National Workshop on *“Implementation of National Education Policy 2020”* at NITTTR, Kolkata, from 15th to 16th July 2023.
- Participated in Agrivision–2023 and the 7th National Convention on *“Sustainable Agriculture for a Self-Reliant India”* at NAS Complex, ICAR, New Delhi, from 5th to 6th May 2023.
- Participated in the workshop on *“Standard Operating Practices (SOP) for Formulation of Research Proposal”*, organized under the ICAR National Professor Project, WBUAFS, on 11th March 2024 at WBUAFS, Kolkata.

D. Conferences, Seminars and Research Presentations

- Presented a research paper at the XIII Asia International Conference of Leather Science & Technology on *“Leather 2050: Challenges and Opportunities”*, held in Kolkata during 6th to 8th March 2026.
- Represented WBUAFS and presented a research proposal at the InDeVet Summit, funded by the Indo-German Science and Technology Centre (IGSTC), held at Leipzig University, Germany, during 28th to 30th April 2025.
- Participated in the International Conference (ISAGBCON–2025) on *“Precision Animal Breeding through Genomics, Artificial Intelligence and Machine Learning”* and the XIX Annual Convention of the Indian Society of Animal Genetics & Breeding, held at Biswa Bangla Convention Centre, Newtown, Kolkata, during 13th to 14th November 2025.
- Participated in the 9th Annual Convention of the Society of Veterinary Biochemists and Biotechnologists of India (SVBBI) and National Symposium on *“Advancing Animal Health and Production through Biochemical and Biotechnological Innovations”*, held at WBUAFS, Kolkata, during 28th to 29th November 2025.
- Participated in the National Seminar on *“Contemporary Context of West Bengal: Present Scenario of Higher Education”*, held at Aikyatan Bhawan, EZCC, Kolkata, during 19th to 20th July 2025.
- Participated in the Pre-Conference Student Workshop on *“Building Research Skills for the Next Generation of Scientists”*, organized in conjunction with ISAGBCON–2025 by the Department of Animal Genetics & Breeding, WBUAFS, on 12th November 2025 at Vivel Bhawan, WBUAFS, Kolkata.
- Participated in the XVIII Annual Convention and National Conference of the Indian Society of Animal Genetics & Breeding (ISAGB) on *“New Vistas in Harnessing Genetic Resources for Sustainable Animal Production”*, organized by the Department of Animal Genetics & Breeding at Bihar Veterinary College, Bihar Animal Sciences University, Patna, during 21st to 22nd November 2024.

E. Academic Development and Research Guidance

- **Peer Review and Scholarly Contribution:** Serving as a reviewer for reputed national and international journals, including *Reproduction in Domestic Animals*, *Animal Biotechnology*, *Exploratory Animal and Medical Research*, *Current World Environment*, and the *Journal of the Indian Society of Coastal Agricultural Research*.
- **Postgraduate Research Mentorship:** Providing academic and research guidance to M.V.Sc. and Ph.D. scholars, supporting them in the development and successful completion of their research work.
- **ASRB Examination Contribution:** Serving as a Paper Setter for the Agricultural Scientists Recruitment Board (ASRB), Government of India, contributing to the assessment and selection of scientific talent.
- **Recruitment Examination:** Serving as a Paper Setter for the recruitment of Subject Matter Specialists (SMS) under CADC, West Bengal.
- **University Academic Assessment:** Contributing as a Paper Setter for Undergraduate (UG) and Postgraduate (PG) examinations across various universities, supporting academic evaluation and standards.

F. Co-curricular and Extension Activities

- **Community Outreach and Animal Health Services:** Actively participated in Animal Health Camps, Vaccination Camps, and Goshti meetings organized across different clusters of the AICRP on Goat Improvement, Black Bengal Field Unit, contributing to livestock health awareness and farmer-oriented extension activities.
- **Sports and Cultural Engagement:** Enthusiastically participated in the Central Annual Sports and Cultural Meet of WBUAFS, promoting a vibrant academic and institutional environment beyond the classroom.
- **Student Mentorship:** Served as a Mentor-Teacher for B.V.Sc. & A.H. students, providing academic guidance, motivation, and support for their overall professional development.
- **Institutional and Event Coordination:** Actively contributed as a member of various organizing committees for conferences, reunions, seminars, and other institutional programmes, demonstrating strong organizational and collaborative skills.
- **Educational Tour Coordination:** Served as a Tour Guide for students during educational tours, facilitating experiential learning and ensuring meaningful academic exposure beyond the classroom.

G. Professional Society Memberships

Actively associated with several reputed professional, scientific, and academic organizations, contributing to professional development, knowledge exchange, and the advancement of animal science and veterinary research. Memberships include:

- Indian Society of Animal Genetics and Breeding (ISAGB)
- Indian Society for Sheep & Goat Production and Utilization
- Society for Conservation of Domestic Animal Biodiversity

- The Indian Society for Study of Animal Reproduction
- Society of Bio-resource, Environment and Agricultural Research
- Animal Nutrition Society of India (ANSI)
- West Bengal Veterinary Council

H. Project handled

Name of the project	Sponsored by	Responsibility	Duration
Scientific intervention for enhancing Buffalo productivity, health, and livelihood security among Scheduled Caste households in Murshidabad district, West Bengal.	ICAR-CIRB, Hissar, Haryana	Principal Investigator	June'2026 to continue
Livelihood Improvement of Scheduled Caste Farmers of Bagmundi & Arsha Block of Purulia District of West Bengal through Livestock, Poultry and Fishery based enterprises	ICAR-IIAB, Ranchi, Jharkhand	Principal Investigator	Sept'2023 to continue
Socio Economic Development of SC beneficiaries through animal husbandry and fish farming based approach at selected villages of West Bengal under SCSP Programme	ICAR, Govt. of India.	Principal Investigator	June'2024 to March'2025
All India Co-ordinated Research Project (AICRP) on Goat Improvement, Black Bengal Field Unit-Kolkata, under West Bengal University of Animal and Fishery Sciences.	Govt. of India and Govt. of West Bengal	Principal Investigator	Nov'2016 to May'2023
Livelihood improvement of poor and tribal people through livestock based enterprises under selected villages of West Bengal - under TSP.	Govt. of India	Co-Investigator	April'2019 to March'2021
RKVY project on Livelihood Improvement of Poor and Tribal People through livestock Based Enterprises under selected villages of Jhargram Block of West Bengal.	Govt. of India and Govt. of West Bengal	Co-Investigator	April'2015 to March'2020
Livelihood improvement of poor and tribal people through livestock based enterprises under selected villages of West Bengal - under TSP.	Govt. of India	Co-Investigator	April'2017 to Jan'2018
All India Co-ordinated Research Project (AICRP) on Goat Improvement, Black Bengal Field Unit-Kolkata, under West Bengal University of Animal and Fishery Sciences.	Govt. of India and Govt. of West Bengal	Co-Investigator	April'2013 to Oct'2016
"Characterization of candidate genes for sexual precocity in indigenous goats" at National Bureau of Animal Genetic Resources (NBAGR), Karnal, Haryana,	ICAR, Govt. of India	Co-Worker	July'2012 to March'2014
"Modernization of Black Bengal Goat producing station at Kotulpur" under RKVY at Kotulpur Goat-cum Fodder Farm, Bankura, West Bengal under ARD Department.	Govt. of India and Govt. of West Bengal	Officer-In Charge	August'2010 to August'2012

"Assistant to states for Fodder development programme" implemented at Kotulpur Goat-cum Fodder Farm, Bankura, West Bengal under ARD Department.	Govt of India	Officer-In Charge	July'2009 to August '2012
"Conservation of Threatened Breed-Black Bengal Goat" implemented at Kotulpur Goat-cum Fodder Farm, Bankura, West Bengal under ARD Department.	Govt. of India and Govt. of West Bengal	Officer-In Charge	July'2007 to August'2012

9. Publication:

a. National Publication:

- (i) **Roy M.**, Dutta Gupta R. and Senapati P. (2001): Studies on Polymorphism of Glucose-6-Phosphate Dehydrogenase (G-6-PD) Enzyme in Indian Buffaloes. *J. Interacad.* **5(4)**: 500-503. (NAAS Rating 3.96).
- (ii) **Roy M.**, Dutta Gupta R. and Senapati P. (2002): Association of Glucose-6-Phosphate Dehydrogenase (G-6-PD) Enzyme with the activity of this enzyme in Indian Buffaloes. *J. Interacad.* **6(Spl)**: 590-593. (NAAS Rating 3.96).
- (iii) **Roy M.**, Dutta Gupta R. and Senapati P. (2003): Relationship of Glucose-6-Phosphate Dehydrogenase (G-6-PD) types, G-6-PD activity levels with the reproductive statuses in female Indian Buffaloes. *J. Interacad.* **7(4)**: 442-444. (NAAS Rating 3.96).
- (iv) Nandi D., Roy S., Bera S., **Roy M.**, Senapati P. K. and Samanta, A. K. (2007): Genetic variants of 'Milk S1-casein' in Black Bengal goat and their association with reproduction and milk trace minerals. *Indian J. Anim. Hlth.* (2007), **46(2)**: 105-110. (NAAS Rating 4.08).
- (v) **Roy M.**, Senapati P. K., Roy S. and Nandi D. (2013): Factors affecting variability of resistance in Garole sheep naturally infected with *Haemonchus contortus*. *Explor. Anim. Med. Res.* **3(1)**: 57-64. (NAAS Rating 4.27).
- (vi) **Roy M.**, Senapati P. K., Roy S. and Nandi D. (2013): Variability of resistance to *Haemonchus contortus* infection vis-à-vis Haematological and Biochemical parameters in Garole sheep. *Explor. Anim. Med. Res.* **3(2)**: 145-153. (NAAS Rating 4.27).
- (vii) Ahlawat S., Sharma R., Maitra A., Tantia M. S., **Roy M.** and Mandakmale S. (2014): New genetic polymorphisms in Indian goat BMP1B gene. *Ind. J. Anim. Sci.* **84(1)**: 39-44, January 2014. (NAAS Rating 6.19).
- (viii) **Roy M.**, Senapati P.K., Pakhira M. C., Roy S. and Nandi D. (2014): Haemoglobin phenovariants vs resilience status, haematological, biochemical and mineral profile in Garole sheep naturally infected with *Haemonchus contortus*. *Explor. Anim. Med. Res.* **4(2)**: 217-227. (NAAS Rating 4.27).
- (ix) Sikder S. K., Chatterjee J. K., Nandi D., **Roy M.** and Roy S. (2015): Studies on body growth pattern of Black Bengal Goat according to Agro-climatic zones and rearing practices in West Bengal, India. *Explor. Anim. Med. Res.* **5(1)**: 86-95. (NAAS Rating 4.27).
- (x) Kumar R., Taraphder S., Sahoo A. K., Senapati P. K., Paul R., **Roy M.**, Sarkar U., Raja D., Samanta I. and Baidya S. (2016): Polymorphism and nucleotide sequence of BMP-15 gene in an organized herd of Garole sheep (*Ovis aries*). *Indian J. Anim. Hlth.* (2016), **55(1)**: 77-86. (NAAS Rating 4.08).

- (xi) Roy D.C., Pakhira M. C. and **Roy M** (2016): Estimation of Amino acids, Minerals and Other Chemical Compositions of Azolla. *Advances in Life Sciences*, **5(7)**: ISSN 2278-3849, 2692-2696, 2016. (NAAS Rating 3.15).
- (xii) Pakhira M. C., Biswas P., Roy D. C., **Roy M.**, Bera S., Jana P. S. and Das A.K. (2016): Controlling Feather Pecking & Cannibalism in Laying Hens without Beak Trimming in Deep Litter-A Review. *Advances in Life Sciences*, **5(10)**: ISSN 2278-3849, 3904-3911, 2016. (NAAS Rating 3.15).
- (xiii) Mishra S P., Datta S., Sarkar U., **Roy M.**, Taraphder S., Mohanty D., Rosalin B P and Bhuyan C (2017): Recent trends in molecular and reproductive breeding technologies for improvement of farm animals. *Res. J. Chem. Environ. Sci.*, Vol **5(3)**: June 2017: 01-13. (NAAS Rating 4.64).
- (xiv) Tudu N K., Mishra S P., Datta S., **Roy M.**, Sarkar U., Ghosh C and Kesh S. S. (2017): Comparative study on growth and reproductive Performance of Black Bengal Goats under different Rearing systems at Nadia district, West Bengal. *Res. J. Chem. Environ. Sci.*, Vol **5(4)**: August 2017:45-50. (NAAS Rating 4.64).
- (xv) Mishra S P., Taraphder S., **Roy M.**, Sarkar U., Datta S., Saikhom R., Rosalin B. P. and Mohanty D. (2017): Breeding techniques to exploit non-additive gene action for improvement of Livestock. *Bull. Env. Pharmacol. Life Sci.*, Vol **6(9)**: August 2017: 126-134. (NAAS Rating 4.95).
- (xvi) Kumar S., Patra G., Sarkar H., Roy A., Roy M., Biswas S., Bhaskar ON. And Bhyattacharyya D. (2019). Study on effect of age on slaughter traits and carcass characteristic of black Bengal goats in different agro-climatic condition of West Bengal. *Journal of Pharmacognosy and Phytochemistry*. SP5: 01-05. (NAAS Rating 5.21).
- (xvii) Mondal K., Chatterlee J. K., Samanta A. K., Bera S., **Roy M.**, Biswas S., Dey A. And Patra G. (2020). Effect of different litter materials on growth performance and carcass characteristics of broiler chicken. *Indian J. Anim. Hlth.*, **59(2)**: 194-199. (NAAS Rating 4.08).
- (xviii) Niang, H., **Roy, M.**, Datta, S., Sarkar, U., Senapati, P. K., & Bera, S. (2021). Studies on reproduction and genetic parameters of Black Bengal goat (*Capra hircus bengalensis*) at farmers' field under different agro-climatic zones of West Bengal. *Indian Journal of Animal Sciences*, **91(5)**: 401–405. (NAAS Rating 6.28).
- (xix) M. Mondal, A. Maity, D. Mandal, F. Mridha, P.S. Jana, M.C. Pakhira, **M. Roy** and Prachi Kshatriya (2021). Diagnosis and Therapeutic Management of Canine Ehrlichiosis. *Indian J. Vet. Public Hlth.*, **7(2)**: 43-47. (NAAS Rating –Not available).
- (xx) Jasmine A J, **Sarkar U, Roy M, Datta S** (2022). Influence of non-genetic factors on body weight in Black Bengal goats maintained under field condition. *Indian Journal of Animal Sciences*, 92 (10): 1194–1198. NAAS rating: 6.29/Impact Factor: 0.294
- (xxi) Mondal K, Chatterjee J K, Das A, **Roy M** and Patra G (2023). A study on productive performance of Garole sheep in Sundarban areas of West Bengal. *Indian Journal of Animal Health*, **62(2)**:328-339. NAAS rating: 5.26
- (xxii) Datta S, Roy M, Sarkar U, Taraphder S, Bera S and Maity A (2024). Risk factors impacting kid survival of Black Bengal goats raised in field condition of West Bengal, India. *Exploratory Animal and Medical Research* 14(2), DOI:10.52635/eamr/14.2.273-278. NAAS : 6.10/ IF: 0.23
- (xxiii) Roy Manoranjan (2025). **Livestock Management and Leather Quality: A Report.** Journal of Indian Technologists' Association. Volume: LXXV, No.11, November 2025: Pages 56-63. NAAS rating: NA

b. International Publication:

- (i) Sharma R., Ahlawat S., Maitra A., **Roy M.**, Mandakmale S. and Tantia M.S. (2013): Polymorphism of *BMP4* gene in Indian goat breeds differing in prolificacy. **Gene**. **532(2013)**:140-145. (NAAS Rating 8.42).
- (ii) Ahlawat S., Sharma R., Maitra A., **Roy M.** and Tantia M. S. (2014): Designing, optimization and validation of tetra-primer ARMS PCR protocol for genotyping mutations in caprine *Fec* genes. **Meta Gene 2 (2014)**: 439-449. (NAAS Rating –Not available).
- (iii) Maitra A., Sharma R., Ahlawat S., Tantia M. S., **Roy M.** and Prakash V. (2014): Association analysis of polymorphisms in caprine *KISS1* gene with reproductivetraits. **Anim. Reprod. Sci.** <http://dx.doi.org/10.1016/j.anireprosci.2014.09.013>. (NAAS Rating 7.61).
- (iv) Ahlawat S., Sharma R., **Roy M.**, Tantia M. S. and Prakash V. (2015): Association analysis of novel SNPs in *BMPR1B*, *BMP15* and *GDF9* genes with reproductive traits in Black Bengal Goats. **Small Ruminant Research**. **132(2015)**: 92-98. (NAAS Rating 6.95).
- (v) Sharma, R., Ahlawat, S., Maitra, A., **Roy, M.**, Mandakmale, S. and Tantia, M.S. (2015): First-time characterization of *JY-1-like* sequence in goats. **S. Afr. J. Anim. Sci.** **Vol. 45(2)**. ISSN: 0375-1589 (NAAS Rating 6.68).
- (vi) Sharma R., Ahlawat S., **Roy M.**, Prakash V. and Tantia M. S. (2015): Polymorphism of *JY-1* gene is not associated with reproductive traits in goats. **Mol. Biol. Rep.** DOI 10.1007/s11033-015-3918-2, ISSN 0301-4851. (NAAS Rating 7.83).
- (vii) Sharma, Rekha., Maitra, A., Ahlawat, Sonika., **Roy, Manoranjan.**, Mandakmale, S. and Tantia, M.S. (2015): Identification of novel SNPs in *INHBB* gene of Indian goat. **Ind. J. Anim. Sci.**, **85(1)**: 55-59, January 2015. (NAAS Rating 6.19).
- (viii) Ahlawat S., Sharma R., **Roy M.**, Mandakmale S., Prakash V. and Tantia M. S. (2016): Genotyping of novel SNPs in *BMPR1B*, *BMP15* and *GDF9* genes for association with prolificacy in seven Indian Goat Breeds. **Animal Biotechnology**, 2016, **27 (3)**: 199-207. (NAAS Rating 6.75).
- (ix) **Roy M.**, Sarkar U., Datta S., Senapati P. K., Bera S., Pakhira M. C., and Das A. K. (2018). Socio-economic Studies of Black Bengal Goat Rearing in Different Agro-climatic Zones of West Bengal. **Int. J. Pure App. Biosci.**, **6(1)**: 300-304 ISSN: 2320-7051. (NAAS Rating 4.74).
- (x) Das B.C., Bera S., Pandit S., Panda R., **Roy M.** (2018). Prevalence of parasitic infestation of Black Bengal goats in coastal area of Sundarban of West Bengal. **Multilogic in Science**, **Vol.8, Issue-XXV**, April-2018. Page 225-228. ISSN: 2277-7601 (NAAS Rating 5.20).
- (xi) Das B. C., Bera S., Pandit S., Panda R., Panda S. and **Roy M.** (2018). Goat Farmers' Status and Efficiency in the Coastal Areas of Sundarbans. **LS-An International Journal of Life Sciences**, **Vol. 7, No.3**, pp. 172-173. (NAAS Rating 3.66).
- (xii) Das B. C., Bera S., Banerjee D., Panda R. and **Roy M.** (2018). Comparative adaptability reflected by Haematological Parameters and Serum Minerals-Electrolyte in Coastal Areas of Sundarban, West Bengal. **Int. J. Livestock Res.** Manuscript Number: IJLR-2018-02-102. (NAAS Rating 5.36).
- (xiii) Das B. C., Bera S., Pandit S., Panda R. and **Roy M.** (2018). Studies on growth parameters of Black Bengal goats in coastal Sundarban of West Bengal. **International Journal of Fauna and Biological Studies**, 2018; **5(6)**: 01-04.(NAAS Rating 4.00).
- (xiv) Datta, S., Mishra, S., Taraphder, S., **Roy, M.**, & Das, U. (2018). Applications of transgenic animal production for enhancement of human welfare: A critical review. **Int. J. Livestock Res**, **8(2)**, 32-42. (NAAS Rating 5.36).

- (xv) Mondal M., A. Maity, D. Mandal, P.S. Jana, **M. Roy**, M. C. Pakhira, F. Mridha, A. Soren, R. Raj and Kumar, K. (2021). Diagnosis and Therapeutic Management of *Hepatozoonosis* in Dog. **Int. J. Curr. Microbiol. App. Sci.**, 10(08): 550-555. (NAAS Rating 5.38).
- (xvi) Mukherjee A, Gali J, Kar I, **Datta S, Roy M**, Acharya A P, Patra A K (2023). Candidate genes and proteins regulating bull semen quality: a review. *Tropical Animal Health and Production*, 55: 212. NAAS rating: 7.89/ Impact Factor: 1.893

c. Popular Articles:

- (i) Sharma R., Ahlawat S., Maitra A., **Roy M.**, Mandakmale S. and Tantia M.S. (2013): Polymorphism of *BMP4* gene in Indian goat breeds differing in prolificacy. **Gene**. **532(2013)**:140-145. (NAAS Rating 8.42).
- (ii) Ahlawat S., Sharma R., Maitra A., **Roy M.** and Tantia M. S. (2014): Designing, optimization and validation of tetra-primer ARMS PCR protocol for genotyping mutations in caprine *Fec* genes. **Meta Gene 2 (2014)**: 439-449.
- (iii) Maitra A., Sharma R., Ahlawat S., Tantia M. S., **Roy M.** and Prakash V. (2014): Association analysis of polymorphisms in caprine *KISS1* gene with reproductivetraits. **Anim. Reprod. Sci.** <http://dx.doi.org/10.1016/j.anireprosci.2014.09.013>. (NAAS Rating 7.61).
- (iv) Ahlawat S., Sharma R., **Roy M.**, Tantia M. S. and Prakash V. (2015): Association analysis of novel SNPs in *BMP1B*, *BMP15* and *GDF9* genes with reproductive traits in Black Bengal Goats. **Small Ruminant Research**. **132(2015)**: 92-98. (NAAS Rating 6.95).
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- (ix) Datta, S., Mishra, SP., Taraphder, S., **Roy, M.**, Sarkar U. And Das, AK. (2018). Applications of transgenic animal production for enhancement of human welfare: A critical review. **Int. J. Livestock Res**, **8(2)**, 32-42. (NAAS Rating 5.36).

d. Books/ Books chapter:

- (i) Chagal Palan Sahayika (Booklet in Bengali): Authored by P. K. Senapati, M. Roy, U. Sarkar, S. Bera and M. C. Pakhira. Published by AICRP on Goat Improvement, Black Bengal Field Unit, Kolkata (WBUAFS).
- (ii) Package of practices for rearing of Black Bengal goats (Booklet in Bengali): Authored by M. Roy, U. Sarkar, S. Bera, M. C. Pakhira, G. Patra, S. Pandit Published by AICRP on Goat Improvement, Black Bengal Field Unit, Kolkata (WBUAFS).
- (iii) Package of practices for rearing of Black Bengal kids (Booklet in Bengali): Authored by M. Roy, U. Sarkar, S. Bera, M. C. Pakhira, G. Patra and S. Pandit. Published by AICRP on Goat Improvement, Black Bengal Field Unit, Kolkata (WBUAFS).

- (iv) Compendium of Abstracts, ISAGBCON- 2025 WBUAFS Kolkata (in English): Authored by A K Das, M Roy, U Sarkar, S Datta, S Taraphder, S M Deb & others. Publisher: ISAGBCON-2025, Department of Animal Genetics and Breeding.
- (v) Hansh, Murgi O Shukor Palan Ebong Machh Chasher Katha (Book in Bengali): Authored by M Roy, S Bera, M C Pakhira, U Sarkar, S K Sau, P Mali, G Ziauddin, G Patra and S Datta (2024). ISBN: 978-81-976618-8-4: Date: Dec'2024 Publisher: Mehanati Prokashani

e. **Manuals:**

- (i) Practical Manual on Animal Genetics and Breeding: Paper-I for UG courses (B.V.Sc & A.H.)
- (ii) Practical Manual on Animal Genetics and Breeding: Paper-II for UG courses (B.V.Sc & A.H.)