



*Dr. Oshin*

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## EDUCATION:

| Qualification   | University   | Class           | Year   |
|---|--------------|-----------------|--|
| Ph. D (Animal Genetics and Breeding)  | NDRI, Karnal | 1 <sup>st</sup> | 2019-23  |
| MVSc. (Animal Genetics and Breeding)  | NDRI, Karnal | 1 <sup>st</sup> | 2017-19  |
| BVSc. & AH<br>MVSc. Polymorphism in PHKA2 gene & its association with Udder traits and Milk production in Sahiwal cows    | LUVAS, Hisar | 1 <sup>st</sup> | 2012-17  |
| Ph.D. Genome wide characterization and functional assessment of Copy Number Variations in Sahiwal and Karan Fries cattle. |              |                 | Dr. S. M. Deb (then, Head of division, AG&B, NDRI, Karnal)<br>Dr. Anupama Mukherjee (Principal Scientist, AG&B, NDRI, Karnal). |

## DISSERTATION PROJECTS:

### Membership

1. Society For Conservation of Domestic Animal Biodiversity
2. Indian Society of Animal Genetics and Breeding

## ACCOMPLISHMENTS:

| Sr. No. | Name of Award/Honour  | Conferred by (Name of Organization) & Year of Award   |
|---------|-----------------------|---|
| 1.      | Young Scientist Award | International Conference on Innovative and Current advances in Agriculture and Allied Sciences, 12-14 June, 2022. Society for Scientific Development in agriculture & technology, Meerut (U.P.) India, 2022 |

|    |  |   |
|----|--|---|
| 2. | Best Oral Presentation                     | Technical Session 10 during 4 th International Conference on Innovative and Current advances in Agriculture and Allied Sciences, 12-14 June, 2022 |
| 3. | JRF  | ICAR, 2017  |
| 4. | Dean's merit award in MVSc.                | Awardee, ICAR-NDRI, 2017-18   |
| 5. | Dean's merit award in Ph.D                 | Awardee, ICAR-NDRI, 2019-20   |
| 6. | Institutional fellowship in MVSc. and PhD. | ICAR-NDRI, 2017-2019, 2019- 2022  |
| 7. | ICAR-NET                                   | ICAR, 2019  |
| 8. | Inspiring lady veterinarian award          | Pashudhan praharee, 2021  |

## TECHNICAL QUALIFICATIONS

1. Internship training program of six months related to different disciplines viz. veterinary Clinical Medicine, Surgery and Radiology, and Unit of animal reproduction, Gynecology and obstetrics.
2. Training at Govt. Livestock Farm (GLF) including AI Services.
3. Training in poultry production and management.
4. Training at Haryana Veterinary Vaccine Institute (HVVTI, production unit), Hisar, Haryana.
5. Training at meat and milk plant, Hisar.
6. Training at Disease Free Small Animal House, Hisar, Haryana.
7. Training at TVCC Regional centre (uchani), Karnal, Haryana.
8. Active participation in disease control campaigns
9. International Training on Bayesian method of estimating Genomic breeding value
10. Basic sonography in Veterinary & Animal Sciences
11. Mammalian genome editing by CRISPR technique
12. 16<sup>th</sup> national symposium on Animal Genetic Resources for Food and Social Security
13. 21 day Online international training cum orientation programme on "Advances in Pharmacology: Addressing the Paradigm shift in clinical and paraclinical Sciences"
14. National level online training program on "Statistical data analysis using R software"
15. 21 days e-training course on "Skill Development on Advanced Bioinformatics in Genome Analysis of Livestock and Pets" organized by the College of Animal Biotechnology and DBT-CRCN project Monitoring Unit of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana
16. Webinar on "Preventing future zoonotic pandemics: interventions at the wildlife-livestock-human interference" organized by ICAR-NRCE

## PUBLICATIONS AND SCHOLARLY WORK

### a) Research Articles - 11

#### International

Mukherjee, S., Mukherjee, A., Kumar, S., Verma, H., Bhardwaj, S., Togla Oshin., ... & Rajkhowa, C. (2022). Genetic Characterization of Endangered Indian Mithun (*Bos frontalis*), Indian Bison/Wild Gaur (*Bos gaurus*) and Tho-tho Cattle (*Bos indicus*) Populations Using SSR Markers Reveals Their Diversity and Unique Phylogenetic Status. *Diversity*, 14(7), 548.

#### National

1. Oshin, Deb, S. M., Kadyan, S., Kumar, S., Nandhini, P. B., & Mukherjee, A. (2021). Association of milk production and udder type traits with polymorphism of phosphorylase kinase regulatory subunit alpha-2 gene in Sahiwal cattle. *The Indian Journal of Animal Sciences*, 91(8).
2. Oshin, Deb, S. M., Kadyan, S., Nandhini, P. B., Kumar, S., & George, L.(2021). Genetic Profiling

- of PHKA2 Gene and its Association with Udder Type Traits in Indian Dairy Cattle. *Indian Journal of Animal Research*, 1, 6.
3. Oshin, Deb, S. M., Kadyan, S., Nandhini, P. B., & Kumar, S. (2022). Non genetic factors affecting udder type traits in Sahiwal cattle. *Indian Journal of Dairy Science*, 75(4): 347-352
  - 4 Oshin, Bhardwaj, S., Yadav, N., Gujral, S., Wani, Y. M., Kumar, I., & Mukherjee, A. (2021).5- Title: Effect of non-genetic factors on the production performance traits in Gir cattle. *Ruminant Science*, 10 (2): 265-270
  - 5 Oshin, Kadyan, S., Bhardwaj, S., Kumar, I., Gujral, S., & Wani, Y. M. (2021). Udder type traits: A selection criterion in indigenous dairy cattle. *The pharma Innovation*, 10(5): 728-731
  - 6 Oshin, Bhardwaj, S., Kadyan, S., Yadav, N., & Gujral, S. (2021). Influence of non-genetic factors on milk yield traits in Sahiwal cows. *The pharma Innovation*, 10(11): 2272-2276
  - 7 Sagar, K., Gulati, H. K., Oshin, Sushil, K., & Sajjan, S. (2020). Effect of-carotene supplementation on milk yield and its composition in Murrah buffaloes. *Haryana Veterinarian*, 59(2), 206-209.
  - 8 Sagar, K., Gulati, H. K., Oshin., Sushil, K., & Sajjan, S. (2020). Effect Of  $\beta$ -Carotene Supplementation on Haemato-Biochemical Parameters and Reproductive Traits Of Murrah Buffaloes. *Ruminant Science*, 9(2): 345-349
  - 9 Yadav N., Mukherjee S., Bhardwaj S., Oshin, Gujral S. and Mukherjee A.(2022). Bayesian Using Gibbs Sampling (BUGS) Algorithm for Life Time Traits in Sahiwal Cattle. *Ruminant Science*.
  10. Kumar, Sushil, I. D. Gupta, Nisha Sharma, Revanasiddu Deginal, Anshuman Kumar, Anuj Chauhan, Oshin., Naseer Ahmad Baba, Saleem Yousuf, and Archana Verma. "Effect of season, parity and stage of lactation on productive performance of Sahiwal cattle." *Indian Journal of Animal Research* 55, no. 5 (2021): 597-602.

## b) Review Articles - 3

1. Oshin,T., Kadyan, S., Bhardwaj, S., Kumar, I., Gujral, S., & Wani, Y. M. (2021). Udder type traits: A selection criterion in indigenous dairy cattle. *The pharma Innovation*, 10(11):181
2. Bhardwaj, S., Oshin,T., Yadav, V., Tripathi, P., Yadav, N., & Mukherjee, A. (2021). Impact of covid-19 on molecular cytogenetics in domestic animal studies: A mini-review. *The pharma Innovation*,10(11):153
3. Bhardwaj, S., Oshin,T., Yadav, V., Tripathi, P., Wani, Y. M., & Kumar, I. (2021). Present status of genetically modified animal products: A minireview .*The pharma Innovation*,10(11): 2440-2443.

## c) Popular Articles -13

- 1 Oshin,T., Kadyan S., Togla K.L. 2021, August. Significance of Poultry in India. *Poultry Planner*, 23 (8).
- 2 Oshin,T., Togla K.L., Khurana R. 2021, May. Feed management of Heat Stressed Bovines. *Dairy Planner*, 18 (5).
- 3 Oshin,T., Kadyan S., Verma M. 2020, June. Bovine scenario in Haryana challenges and strategies to implement breeding policies. *Livestock technology*,10(1).
- 4 Oshin,T., Togla K.L., Kumar S. 2021, June. Role of Lucrative government Schemes in upliftment of Dairy industry in Haryana. *Dairy Planner*, 18(6)
- 5 Oshin,T., Kadyan S., Nandhini P.B. 2020, July. भारत में पियरी क्षेत्र की संक्षिप्त पृष्ठभूमि: अतीत, वर्तमान और भविष्य. *Pashudhan Gyan*.
- 6 Oshin,T., Togla K.L., Kumar S. 2021, April. जैविक मुर्गी पालन की अवधारणा. *Poultry Planner*, 23(04).
- 7 Bhardwaj S., Oshin,T., Koul Y. 2021, November. Biosynthesis of Milk. *Dairy Planner*,18(11).
- 8 Bhardwaj S., Oshin,T., Yadav V. 2021, October. Milking systems for dairy cattle. *Pashudhan Praharee*.

- 9 Bhardwaj S., Oshin,T., Kumar I., Wani Y.M. 2021, December. Fitting eggs in the trendy plant-based diets. Poultry Planner
- 10 Oshin,T., Bhardwaj S., Kadyan S. 2021, December. कुक्कुट पालन में प्रमुख समस्याएं. Livestock Technologies
- 11 Oshin,T., Bhardwaj S., Koul Y. 2021, December. Organic poultry production. Poultry planner.
- 12 Nandhini P.B., Oshin,T., George L. 2021, April. Dairy Cattle Wellbeing. Dairy Planner,18 (4).
- 13 George L., Achankunju J.P., Oshin,T., 2021, May.Need based cattle breeding policy framework for Kerala. Food and Scientific Report, 2 (5): 2582- 5437

#### d) Research Bulletins/Extension Bulletins/Chapters inBooks -5

| SR. NO. | TITLE OF PUBLICATION  | DETAILS   | AUTHORS  |
|---------|---|---|--|
| 1       | बकरियों के प्रमुख ु िोग औ उनका प्रबंधन  | Comprehensive training manual related to scientific goat rearing practices and latest techniques for profitable goat farming ( AGB, LUVAS)                                | Oshin,T., Ankit magotra, Y. C. Banger, Devesh Kumar Yadav  |
| 2       | पशुधन अभिलेख : उद्देश्य एवं क्रियान्वयन   | RKVY-RAFTAAR PROJECT<br>“Productivity enhancement of Scheduled caste goat farmers through awareness programs and latest molecular techniques.”                            | Devesh Kumar Yadav, Oshin,T., Ankit Magotra, Y.C. Banger   |
| 3       | Nanotechnology in Animal Breeding and Reproduction  | 2022, Book chapter in “Recent Advances And Applications Of Nanotechnology In Livestock Production Management”   | Sabyasachi mukherjee, Oshin,T. and Anupama Mukherjee   |
| 4       | Genomic Characterization of Indian Mithun (Bos frontalis), Wild Gaur (Bos gaurus) and Tho-Tho Cattle (Bos indicus) – Population Diversity, Unique Phylogenetic and Chromosomal Status | 2023, Book Chapter in Cutting Edge Research in Biology Vol. 6<br><br>DOI: <a href="https://doi.org/10.9734/bpi/cerb/v6/4983C">10.9734/bpi/cerb/v6/4983C</a>               | Sabyasachi Mukherjee, Anupama Mukherjee, Sanjeev Kumar, Harendra Verma, Shivam Bhardwaj, Oshin,T., Siddhartha N. Joardar, Imsusosang Longkumer, Moonmoon Mech, K. Khate, Kezhavituo Vupru, Suresh Kumar, M. H. Khan, Chandan Rajakhowa |
| 5       | Functional Characterization Of Genomic Regions Under Positive Selection   | December 1 -21, 2022<br>36th National Training Programme on Exploring integration of multiomics and conventional breeding approaches for sustainable livestock production | Anupama Mukherjee, Shivam Bhardwaj and Oshin,T.  |

#### CO-CURRICULAR ACTIVITIES:

|    |   |   |         |
|----|---|---|---------|
| 1. | Distt. Badminton Sports   | 1 <sup>st</sup> position  | 2007-08 |
| 2. | Inter-college youth festival CCSHAU-Hisar                           | 1 <sup>st</sup> in spot painting<br>2 <sup>nd</sup> in group dance (folk) | 2013-14 |
| 3. | 15 <sup>th</sup> all India Inter agricultural university youth fest | 4 <sup>th</sup> place in act play   | 2014-15 |
| 4. | World immunology day, poster-making competition                     | 1 <sup>st</sup> position  | 2015    |
| 5. | Mendel Bicentenary, poster making                                   | 1 <sup>st</sup> position  | 2022    |
| 6. | World veterinary day, national e-quiz competition, LUVAS            | 1st position  | 2021    |
| 7. | 42 <sup>nd</sup> Haryana state school sports competition            | Participant   |         |

|    |   |                        |
|----|---|------------------------|
| 8  | NCC   | B&C certificate holder |
| 9  | 13 <sup>th</sup> All India Inter agricultural university youth fest at Jabalpur 2012-13 | Participant            |
| 10 | Assistant Secretary in Fine arts and Hobbies committee                                  | 2019-20 , NDRI         |

**DECLARATION:**

I hereby state that all the above information is true to my knowledge.

Date: 12 Dec, 2023

(Dr.Oshin)