

Dr. Prasanth M. Nair

Scientist

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PROFILE

Research-driven Scientist with expertise in Veterinary Science, Sericulture, and Animal Nutrition, committed to advancing sustainable livestock production and sericulture through innovative research. Passionate about developing science-based solutions that enhance animal health, sericulture byproduct utilization, food security, and environmental sustainability.

EDUCATION

ICAR-National Dairy Research Institute, PhD Haryana, India
(On-going)

Major: Animal Nutrition

Thesis : Effect of different feed additives on rumen microbiome and enteric methane emission in indigenous lactating cows

ICAR-National Dairy Research Institute, MVSc 2019 – 2021
Haryana, India

Major: Animal Nutrition

Recipient of Dean's Merit Award

Thesis: Effect of specific trace minerals supplementation on growth performance and immunity in Sahiwal male calves

Kerala Veterinary & Animal Sciences University, BVSc 2013 – 2019
Kerala, India

Recipient of the Prime Minister's Scholarship

PROFESSIONAL EXPERIENCE

Central Silk Board, Ministry of Textiles, Scientist-B 2023 – present
Karnataka, India

- Leading 3 funded projects as Principal Investigator and 3 as Co-Investigator.
- Research spans human and animal nutrition, focusing on value addition of sericulture by-products.
- Contributing to sustainable food systems and environmental impact reduction.

Animal Husbandry Department, Government of Kerala, Veterinary Surgeon 02/2023 – 11/2023
Kerala, India

Experienced in field-level veterinary services and supported disease control programs under the state government.

LANGUAGES

English	● ● ● ● ●	Malayalam	● ● ● ● ●
Hindi	● ● ● ● ●	Tamil	● ● ● ● ●

AREA OF EXPERTISE

— Sericulture, Ruminant Nutrition, Mineral Nutrition, GHG Emission, Male Reproductive Nutrition, Feed Additives, Anti-nutritional Factors, Enteric Methane Mitigation

PROJECTS

Optimization of preservation techniques and quality assessment of mulberry and eri silkworm pupae for human consumption, *Principal Investigator*
CSB-ICAR Collaborative Project

Evaluation of Artificial diet for popular and new breeds of silkworm *Bombyx mori*, *Principal investigator*
CSB In-House Project

Toxicological studies to assess the Mulberry and Eri silkworm pupae for human consumption *Principal Investigator*
CSB-ICAR Collaborative project

Exploration of mulberry forages as a potential alternative feed resource for sustainable small ruminant production, *Co-Investigator*
CSB-ICAR Collaborative project

Mitigating Human-Animal Conflicts in Forest Fringe Villages: Mulberry Based Cropping Program-Derived Animal Repellents, *Co-Investigator*
CSB-FCRI, Mattupetty Collaborative project

Pesticide mapping: Mapping of Pesticide Residues in pupae of Mulberry Silkworm, *Bombyx mori*, *Co-investigator*
CSB In-House Project

Up gradation of methane emission factors for Indian livestock and preparation of inventory of GHGs emissions from Indian livestock, *Research Scholar*
MoE & F, GoI- NDRI Collaborative Project

Potential of selected methane inhibitors under in vitro model and towards carbon neutrality in livestock sector, *Research Scholar*
NDRI In-House Project

Supplementation of micronutrients on attaining early sexual maturity of males, *Research Scholar*
NDRI In-House Project

TECHNICAL SKILLS

- Data Handling & Visualization - SPSS | R | Google Colab | PRISM
- Research Tools - Gas Chromatography | Spectrophotometry | ELISA | In vitro technique | In vivo animal trial | Metabolic trial | Proximate analysis | Mineral Profiling | Metagenomics | Metatranscriptomics

AWARDS

- **Prime Minister's Scholarship Awardee**, (UG)
- **Dean's Merit Award from ICAR-NDRI**
- **Best Paper Presentation Award**, *Animal Nutrition Society of India*, 2022
- **Best Poster Presentation Award**, *ICAR-NDRI*

PUBLICATIONS

Nair, P. M., Srivastava, R., Mani, V., Arulkumar, S., Tyagi, N., & Mondal, G. (2025). The importance of zinc, copper and manganese and their impact on growth, immunity and fertility of male cattle: a review. *BioMetals*, 1-22. <https://doi.org/10.1007/s10534-025-00692-8> 

Nair, P. M., Sivaprasad, M. S., Rahman, A. T. F., Chaudhary, P., Arulkumar, S., Mani, V., & Mondal, G. (2024). Major metabolic diseases in dairy animals, nutritional aspects and treatment-A review. *Indian J Anim Health*, 63(2), 194-206. <https://doi.org/10.36062/ijah.2024.13923> 

Nair, P.M., Srivastava, R., Chaudhary, P. et al. Impact of zinc, copper, manganese and chromium supplementation on growth performance and blood metabolic profile of Sahiwal (*Bos indicus*) male calves. *Biomaterials* (2023). <https://doi.org/10.1007/s10534-023-00527-4> 

Srivastava R., **Nair P.M.**, Dewry R, Kulkarni N., Mani V., Mondal G., (2023). Semen characteristics, nutrient utilization and immuno-endocrine status in response to dietary supplementation of a novel trace mineral mixture in crossbred bulls. *Journal of Trace Elements and Minerals* <https://doi.org/10.1016/j.jtemin.2023.100088> 

Rahman, A.F., Sharma, M., Mariappan, A.K., Kumar, S.V., Rana, D.S., Pankaj, D.K., Kumar, N., **Nair, P.M.**, Thamizhan, P., Saikumar, G. and Singh, V., 2023. Clinicopathological investigation of nutritional osteodystrophia fibrosa in a flock of young stall-fed goats. *Iranian Journal of Veterinary Research*, 24(4), p.351. <https://doi.org/10.22099/IJVR.2023.47971.6968> 

Nair, P. M., Anil B.G., Chouraddi, R., Sreeja, S. J., Johnson, A., Naveen, P., Gujjalkar, P., Singh, A. K., (2022). A Review on the Effects of Micronutrients in Heat Stress Alleviation in Dairy Animals. *Current Journal of Applied Science and Technology*, 41(36), 59-68. <https://doi.org/10.9734/cjast/2022/v41i363971> 

Nair, P. M., Anil, ., Sivaprasad, M. S., Anand, V. M., Akash, ., Singh, A. K., Yadav, S., Gujjalkar, P., Jisna, K. S., Rahman, A. T. F., Chouraddi, R., Durge, A., & Jigyasha, . (2022). The Effect of Trace Mineral Supplementations on Egg Production and Quality: A Review. *Current Journal of Applied Science and Technology*, 41(37), 9-18. <https://doi.org/10.9734/cjast/2022/v41i373969> 

Nair, P. M., Anil B.G., Durge, A., Dhaigude, V., Baby, B. M., Gujjalkar, P., Chouraddi, R., Yadav, S., (2022). Public Health Threats from Pet Bird Zoonoses. *Journal of Scientific Research and Reports*, 28(11), 10-20. <https://doi.org/10.9734/jsrr/2022/v28i111699> 

Sivaprasad, M. S., Vinod, V. K., Jisna, K. S., **Nair, P. M.**, & Parmar, N. (2020). Egg yolk antibodies (IgY) and its relevance in animal and human health-An updated review. *Journal of Food and Animal Sciences*, 1, 81-86. doi: <https://doi.org/10.51128/jfas.2020.A015> 

Anil,., Yadav, S., Anand, V. M., Chouraddi, R., Yadav, S. K., Singh, A. K., **Nair, P. M.**, Prabhakar, ., Tiwari, J., & Durge, A. (2022). A Review on the Role of Exogenous Fibrolytic Enzymes in Ruminant Nutrition. *Current Journal of Applied Science and Technology*, 41(36), 45-58. <https://doi.org/10.9734/cjast/2022/v41i363966> 

Naveen P, Rakesh Chouraddi , Anil1 , , Akash , Anand V. M , Sukanshi Yadav , Amit Kumar Singh* , **Prasanth M. Nair** , Prashant Gujjalkar , Jigyasha , Ajay Durge "Different Taste Enhancing Feed Additives In Livestock Feeding- A Review" Vol. Xii, Issue Xxxxiv, Oct 2022, Multilogic In Science, Issn 2277-7601, Page 322-329. <https://www.ycjournal.net/Multilogicinscience/ArticleDetails.aspx?ref=NgAzADEANAA=> 

Sukanshi Yadav, Anil, Naliyapara HB, Amit Kumar Singh, **Prasanth M Nair**, Rakesh Chouraddi, Ajay Durge and Jigyasha Tiwari. A review on gut health in chicken: Associated factors and nutritional strategies. *The Pharma Innovation Journal*. 2022; 11(10S): 1734-1742. <https://www.thepharmajournal.com/special-issue?year=2022&vol=11&issue=10S&ArticleId=16387> 

REFERENCES

Dr. Veena Mani, Retd. Principal Scientist, Department of Animal Nutrition, ICAR- NDRI
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Dr. Goutam Mondal, Principal Scientist, Department of Animal Nutrition, ICAR- NDRI
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