Dr Preeti Lakhani

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Educational Qualifications	• 2018 – Ph.D. (Veterinary/Animal Physiology), National Dairy Research Institute (NDRI), Karnal; 85.0% • 2015 – M.V.Sc. (Veterinary Physiology and Biochemistry), Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana; 83.5% • B.V.Sc. & A.H., Nanaji Deshmukh Veterinary Science University (NDVSU), Jabalpur; 79.8%
Ph.D. Research	• Thesis: "Effect of dietary betaine supplementation on growth performance, immunity and antioxidant status of Karan Fries heifers during summer" • Guide: Dr Parveen Kumar • Institute: National Dairy Research Institute (NDRI), Karnal • Year of award: 2018
Employment Details	• Assistant Professor, Department of Veterinary Physiology & Biochemistry, LUVAS, Hisar – 05.08.2019 to present
Research Interests	• Environmental and stress physiology • Thermal stress physiology in dairy cattle and buffaloes • Nutritional interventions, antioxidant status, immunity and metabolic responses during heat stress
Students Guided / Academic Work	• one
Research Publications	• Research articles: 16 • Review articles: 7 • Popular articles: 10 Book chapters : 8 • The detailed proforma contains a publication list; selected entries are presented below.
Selected Publications (10)	• Lakhani, P., Kumar, P., Lakhani, N. and Bhimte, A. (2019). Effect of dietary betaine supplementation on growth performance, immunity and oxidative stress in Karan Fries heifers during heat stress. International Journal of Chemical Studies, 7(4): 533–541. • Lakhani, P., Kumar, P., Alhussein, M. N., Lakhani, N., Grewal, S. and Vats, A. (2019). Effect of betaine supplementation on growth performance, nutrient intake and expression of IGF-1 in Karan Fries heifers during thermal stress. Theriogenology. DOI: 10.1016/j.theriogenology.2019.10.021. • Lakhani, P., Alhussien, M. N., Lakhani, N., Jindal, R. and Nayyar, S. (2018). Seasonal variation in physiological responses, stress and metabolic-related hormones, and oxidative status of Murrah buffaloes. Biological Rhythm Research, 49(6): 844–852.

	• Lakhani, P., Kumar, P., Lakhani, N. and Alhussien, M. N. (2018). The influence of tropical thermal stress on the seasonal and diurnal variations in the physiological and oxidative status of Karan Fries heifers. Biological Rhythm Research. • Singh, S. V., Soren, S., Shashank, C. G., Kumar, S., Lakhani, P., Grewal, S. and Kumar, P. (2018). Global warming: Impact, adaptation and amelioration strategies for bovine under tropical climatic conditions. Indian Journal of Animal Sciences, 88(1): 5–20. • Lakhani, P., Thakur, A., Kumar, S. and Singh, P. (2017). Artificial induction of lactation in bovines: Scope and limitations. International Journal of Livestock Research, 7(4): 102–112. • Lakhani, P., Jindal, R. and Nayyar, S. (2017). Effect of supplementation of amla powder on biochemical parameters in summer-stressed Murrah buffaloes. International Journal of Current Microbiology and Applied Sciences, 6(2): 296–301. • Lakhani, P., Jindal, R. and Nayyar, S. (2016). Effect of heat stress on humoral immunity and its amelioration by amla powder (Emblica officinalis) supplementation in buffaloes. Journal of Animal Research, 6(3): 401–404. • Lakhani, P., Jindal, R. and Nayyar, S. (2016). Effect of amla powder supplementation on haematological parameters, ceruloplasmin and transferrin levels in summer-stressed Murrah buffaloes. Theriogenology Insight, 6(2): 109–117. • Lakhani, P., Jindal, R. and Nayyar, S. (2015). Supplementation of amla (Emblica officinalis) powder during summer stress in buffaloes. Indian Journal of Animal Nutrition, 32(3): 238–340. . Plant secondary metabolites as a potential source to inhibit methane production and improve animal performance. Lakhani, N. and Lakhani, Preeti (2018). International Journal of Chemical Studies. 6(3): 3375–3379. . Effect of feeding a rumen modifier on nutrient intake, growth and performance of buffalo calves. Lakhani, N., Lakhani, Preeti, Kamra, D. N. and Bhimte, A. (2018). International Journal of Chemical Studies. 6(3): 3371–3374. . Enteric methane mitigation and improved animal performance by feeding rumen modifier. Lakhani, N., Kamra, D. N., Lakhani, Preeti, Anju Kala, Yadav, V., Bhimte, A. and Banakar, P. S. (2018). Journal of Entomology and Zoology Studies. 6(4): 01–04. . Endocrine changes in livestock during heat and cold stress. Bhimte, A., Thakur, N., Lakhani, N., Yadav, V., Khare, A. and Lakhani, Preeti (2018). Journal of Pharmacognosy and Phytochemistry. 7(4): 127–132. . Effect of feeding a rumen modifier on growth performance and methanogenesis in growing buffalo calves. Lakhani, N., Kamra, D. N. and Lakhani, Preeti (2017). Indian Journal of Animal Research. 51(10): 939–951. . Effect of feeding a rumen modifier on methane production and nitrogen balance in growing buffalo calves. Lakhani, N., Kamra, D. N. and Lakhani, Preeti (2017). Journal of Entomology and Zoology Studies. 5(6): 43–47.
Books / Chapters / Popular Articles	Published international book chapters 1. Lakhani, P., Rautela, A., … Singh, R. P. (2025). “Impact of Mastitis on the Composition and Quality of Milk.” Chapter 53 in Handbook of Milk Production Quality and Nutrition. Academic Press, Elsevier. ISBN: 978-0-443-24820-7. pp. 627–639. (First author; author/chapter in book; Enclosure 65). 2. Kumar, R., Lakhani, P., Kumar, A. Y. N., and Ghosh, M. (2024). “Nanotoxicity and Mechanisms.” In: Prasad, M., Kumar, R., Ghosh, M., Syed, S. M., and Chakravarti, S. (eds.), Nanotechnology Theranostics in Livestock Diseases and

	Management. Springer. ISBN: 978-981-16-1609-9. pp. 699–741. (Author/chapter in book; Enclosures 66–67). 3. Lakhani, P., Shakkarpude, J., Bhimte, A., and Kanwar, A. (2025). "Innate Behavior." Chapter 3 in Principles of Animal Behavior. CRC Press. ISBN: 978-1-003-42684-4. (Author/chapter in book; Enclosure 68). 4. Lakhani, P., Kumar, R., Kanwar, A., and Nisha (2025). "Ecology and Behavior." Chapter 4 in Principles of Animal Behavior. CRC Press. ISBN: 978-1-003-42684-4. (Author/chapter in book; Enclosure 69). 5. Lakhani, P., Shakkarpude, J., and Kanwar, A. (2025). "Temperature Regulation and Maintenance." Chapter 2 in Fundamentals of Veterinary Pathophysiology. CRC Press, Taylor & Francis. ISBN: 978-1-032-73123-0. (Author/chapter in book; Enclosures 70–72). 6. Lakhani, P., Shakkarpude, J., and Kanwar, A. (2025). "General Introduction." Chapter 2 in Fundamentals of Veterinary Pathophysiology. CRC Press, Taylor & Francis. ISBN: 978-1-032-73123-0. (Author/chapter in book; Enclosures 70–72). Training compendium contributions (2026) • 7. Kumar, R., and Lakhani, P. (2026). "Metabolomics in Diagnostics: Practical Approach." In the compendium for the ICAR-Centre of Advanced Faculty Training programme, Current Advances in Diagnosis and Control of Animal Diseases, Department of Veterinary Microbiology, LUVAS, 22 January–11 February 2026. • 8. Kumar, R., and Lakhani, P. (2026). "Principles and Application of IR Thermography in Veterinary Practice." In the ICAR-sponsored Winter School on Recent Advances in Farm and Companion Animal Surgery, Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, LUVAS, Hisar, 21 January–10 February 2026. Extension / popular contribution • 9. Lakhani, P., and Kumar, R. "दुधारू पशुओं में थनैला (स्तनशोथ) रोग: पहचान, उपचार एवं रोकथाम." Hindi educational material prepared for a farmers'/extension ghoshti on mastitis at Makhosarani. Previously listed books and popular articles Feeding Poultry for Designer Egg Production (2018). Authors include N. Lakhani, P. Lakhani, V. Yadav, and A. Bhimte; Poultry Valley. Nutritional Factors Affecting Egg Shell Quality (2018). Authors include N. Lakhani, P. Lakhani, and V. Yadav; Poultry Valley. Improvement of Poor-Quality Roughages through Biological Treatment (2017). Livestock Line. Neem Leaves as a Potential Supplement in Ruminant Feeding (2018). Biotech Articles. Role of Antioxidants in Poultry (2018). Biotech Articles. Importance of Developing Designer Eggs (2018). Poultry Valley.
Awards / Fellowships / Recognition	• Best Oral Presentation, Society of Animal Physiologists (SAPI), 2018 • Nihar Gour Gold Medal, NDVSU, 2013 • NCC 'B' and 'C' Certificates, NDVSU, 2009 • Institute Fellowship, NDRI, 2015 • Merit Certificate in Ph.D., NDRI, 2018 • ASRB-NET, ICAR, Government of India, 2016 • Merit Scholarship in M.V.Sc., GADVASU, 2013 • Honours Certificate in M.V.Sc.

	• Best Poster Presentation, Biotecnika and Government of Karnataka, 2020 • Qualified ASRB Mains, ICAR, 2016 (as listed in the short biodata)
Professional Experience / Other Details	• Institution: Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), a State Government university • Category: General; Gender: Female • Date of birth: 11 December 1989 • Patent details “Switching system which operates automatically based on real time light intensity of animals/birds farm in all-weather condition (Patent applied as Co developer Patent no:1917/2587/3344”