Dr. Surbhi

Designation	**Assistant Professor**
	Department of Veterinary Physiology & Biochemistry College of Veterinary Sciences Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), Hisar -125004 (Haryana) India Phone: 01662- 256121 (O) Mobile: +919416807229 E-mail: drsurbhi8@luvas.edu.in
Educational Qualifications	• 2019: Ph.D., Veterinary Biochemistry, COVS, LUVAS, Hisar • 2016: M.V.Sc., Veterinary Biochemistry, COVS, LUVAS, Hisar • 2014: B.V.Sc. & A.H., COVS, LUVAS, Hisar
Employment Details	• Assistant Professor (January, 2020 –Present)
Research Interests	• Parasitic Biochemistry • Acaricide resistance
Students Guided	• As Major Advisor: Nil • As Member Advisory Committee: 02 students
Research Projects Handled/Undergoing	• PI in LUVAS funded Institutional Project "Eco-friendly tick control: formulation and evaluation of plant-based product for animal health". • Co-PI in HSCSIT funded "Holistic Investigation of Surra Infection in Haryana's Bovine Population: Novel Diagnostic Markers and Epidemiology"
Publications	• **Total Research Papers Published:** >30 • **>8.0 NAAS rating:** 06 • **6.0-8.0 NAAS rating:** 12 **Google Scholar index** • **Research Citations**: 183 • **h-index**: 8 • **i-10index: 5** • **Book Chapters: 0**8 • **Practical/Training Manuals:** 09 • **PopularArticles:** 14 • **Gene Sequences Submitted to GenBank: 06** • **Seminar/ Conference/ Workshops Attended: 14**

	• Gupta, S., Sangwan, N., Sangwan, A. K., Mann, S., Gupta, S., Kumar, A., & Kumar, S. (2023). Understanding the resistance mechanisms of *Rhipicephalus microplus* ticks to synthetic pyrethroids and organophosphates in south-west regions of Haryana, North India. Pesticide Biochemistry and Physiology. 196, 105634. (NAAS Rating: 10.00) https://doi.org/10.1016/j.pestbp.2023.105634 • Gupta, S., Sangwan, N., Sangwan, A. K., Gupta, S., Kumar, A., Maan, S., Kumar, A. & Kumar, S. (2024). Acaricide resistance status of deltamethrin and coumaphos in *Hyalomma anatolicum* ticks collected from different districts of Haryana. Experimental and Applied Acarology. 92(4), 809-833. (NAAS Rating: 7.7)https://doi.org/10.1007/s10493-023-00894-0 • Sharma, D., Gupta, S., Vohra, S., Sethi, K., Rani, R., Gupta, S., Kumar, S. & Kumar, R. (2026). Dual assessment of cepharanthine: *In vitro* and *in vivo* inhibitory effects on multi-host haemoprotozoa, *Trypanosoma evansi*. Veterinary Parasitology, 110791. (NAAS Rating: 8.2) https://doi.org/10.1016/j.vetpar.2026.110791 • Gupta, S., Sethi, K., Vohra, S., Gupta, S., Rani, R., Kumar, S. and Kumar, R. (2025). Shifting Paradigms: Imidocarb dipropionate as an alternative chemotherapeutic strategy for *Trypanosoma evansi* infection in animals. Veterinary Parasitology. 338: 110558 (NAAS Rating: 8.2) https://doi.org/10.1016/j.vetpar.2025.110558 • Gupta, S., Vohra, S., Sethi, K., Rani, R., Gupta, S., Kumar, S., Kumar, R. and Rana, T., 2025. Capsaicin, a Vanilloid derivative, modulates arginine kinase mRNA expression in *Trypanosoma evansi*. Acta Parasitologica. 70(6): 232. (NAAS Rating: 7.5) https://doi.org/10.1007/s11686-025-01170-4 • Gupta, S., Vohra, S., Sethi, K., Gupta, S., Bera, B. C., Kumar, S., & Kumar, R. (2022). In vitro anti-trypanosomal effect of ivermectin on *Trypanosoma evansi* by targeting multiple metabolic pathways. Tropical Animal Health and Production. 54(4), 1-9. (NAAS Rating: 7.7) https://doi.org/10.1007/s11250-022-03228-1 • Gupta, S., Vohra, S., Sethi, K., Gupta, S., Kumar, S., & Kumar, R. (2022). Gene expression study to elucidate the anti-trypanosomal activity of quinapyramine methyl sulphate (QPS). Parasitology International. 91, 102632. (NAAS Rating: 7.9) https://doi.org/10.1016/j.parint.2022.102632 • Maharana, B. R., Gupta, S., Gupta, S., Ganguly, A., Kumar, B., Chandratre, G. A., & Bisla, R. S. (2021). First report of molecular and phylogenetic analysis of *Physaloptera praeputialis* in naturally infected stray cats from India. *Parasitology Research*, *120*(6), 2047-2056. https://doi.org/10.1007/s00436-021-07163-2 • Gupta, S., Gupta, S., & Kumar, S. (2021). Emergence of fipronil resistance in cattle ticks *Rhipicephalus microplus* and *Hyalomma anatolicum* collected from Haryana, India. *International Journal of Tropical Insect Science*, *41*(1), 401-407. https://doi.org/10.1007/s42690-020-00218-4 • Gupta, S., Gupta, S., & Kumar, S. (2022). Deltamethrin and coumaphos resistance and role of biochemical mechanisms in camel tick, *Hyalomma dromedarii* collected from Haryana state of India. *International Journal of Tropical Insect Science*, *42*(1), 269-274. https://doi.org/10.1007/s42690-021-00542-3
Awards/ Fellowships/ Recognition received	• Second Position in Ph.D. (LUVAS, 2018–19) • ICMR-JRF Fellowship in Ph.D • LUVAS Merit fellowship during UG and PG • Scientist Associate Award in GRISAAS-2018 • Best Oral presentation award in SVBBI-2023 Conference • Awarded with travel grant from CSIR, HSCSIT and ICMR to attend international conference GARCX-2025. • Best Oral presentation award in IAAVR-2024 Conference.

Membership of Professional Scientific Societies	• Life member of Society of Veterinary Biochemist and Biotechnologist of India (SVBBI) • Life member of Society of One Health Biochemist (SOHB) • Life member of Indian Association for Advancement of Veterinary Parasitology (IAAVP) • Life member of Association of Mastitis • Haryana Veterinary Council (HVC)
Reviewer of Scientific Journals	• BMC Veterinary Research • Experimental and Applied acarology