

	Dr. Surbhi
	Assistant Professor
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Educational Qualifications	<p>2019 Ph.D. (Veterinary Biochemistry), LUVAS, Hisar 2016 M.V.Sc. (Veterinary Biochemistry), LUVAS, Hisar 2014 B.V.Sc & A.H., LUVAS, Hisar</p>
Employment Details	<ul style="list-style-type: none"> January, 2020 – till date: Assistant Professor, Department of Veterinary Physiology & Biochemistry May, 2019 to December, 2019- Research fellow under project “Production of Myostatin edited buffalo bulls using CRISPR/CAS technology” at ICAR-CIRB, Hisar
Research Interests	<ul style="list-style-type: none"> Detoxification mechanism Host-pathogen interaction
Membership of scientific societies	<ul style="list-style-type: none"> Life member of Society of Veterinary Biochemists and Biotechnologists Haryana Veterinary Council
Selected Publications	<ol style="list-style-type: none"> Surbhi, Sangwan, N. and Sangwan, A. K. (2019). Molecular characterization of anti-platelet aggregating proteins in salivary gland extracts of <i>Hyalomma anatolicum</i> ticks. <i>Indian Journal of Animal Research</i>, 53(4): 461-468. Surbhi, Sangwan, N. and Sangwan, A. K. (2018). <i>In vitro</i> effects of <i>Rhipicephalus (Boophilus) microplus</i> tick’s salivary gland inhibitory proteins/peptides on bovine platelet aggregation and adhesion. <i>Journal of Entomology and Zoology Studies</i>, 6(3): 1281-1286. Surbhi, Sangwan, N., Sangwan, A. K. and Gupta, S. (2019). Acaricide resistance status of <i>Hyalomma anatolicum</i> and <i>Rhipicephalus (Boophilus) microplus</i> ticks collected from various locations of Haryana. <i>The Haryana Veterinarian</i>, 58(2): 288-289. Surbhi, Sangwan, N., Sangwan, A. K. and Gupta, S. (2019). Development stage specific and sex related changes in esterase pattern of <i>Hyalomma anatolicum</i> and <i>Rhipicephalus (Boophilus) microplus</i> ticks of Haryana. <i>The Haryana Veterinarian</i>, 58(2): 228-231.

Publications

- Research papers: 13
- Book chapter: 1
- Abstracts in National Conferences/Seminars: 16
- Popular Articles: 14
- Review articles: 1

Awards/ Fellowships/Recognition received

- Merit scholarship holder throughout Undergraduate course
- Merit scholarship holder throughout Postgraduate course
- ICMR-JRF fellowship during Ph.D.
- Ph.D. 2nd position award among all disciplines.
- Qualified NET with 74.44% conducted by ASRB (ICAR) in 2017.
- Scientist Associate award by GRISAAS in 2018
- Best poster presentation award by SVBBI in 2019
- Best Research Paper award in National Conference sponsored by Department of Higher Education in 2019

Detailed List of Publications

Original Research Articles

- **Surbhi**, Sangwan, N., Sangwan, A. K., Singh, V., Kumar, A. (2016). Inhibition of bovine platelets aggregation in response to *Hyalomma anatolicum* salivary gland proteins/peptides. *Veterinary World*, 9(11): 1264-1268.
- **Surbhi**, Sangwan, N., Sangwan, A. K. and Kumar, A. (2018). Inhibition of bovine platelet aggregation by salivary gland proteins/ peptides of *Rhipicephalus (Boophilus) microplus* ticks. *The Pharma Innovation*, 7(5): 598-601.
- **Surbhi**, Sangwan, N. and Sangwan, A. K. (2019). Molecular characterization of anti-platelet aggregating proteins in salivary gland extracts of *Hyalomma anatolicum* ticks. *Indian Journal of Animal Research*, 53(4): 461-468.
- **Surbhi**, Sangwan, N. and Sangwan, A. K. (2018). *In vitro* effects of *Rhipicephalus (Boophilus) microplus* tick's salivary gland inhibitory proteins/peptides on bovine platelet aggregation and adhesion. *Journal of Entomology and Zoology Studies*, 6(3): 1281-1286.
- **Surbhi**, Sangwan, N., Sangwan, A. K. and Baloda, S. (2018). Effect of *Rhipicephalus (Boophilus) microplus* ticks salivary gland proteins/peptides on mobilization of intracellular calcium ion. *The Pharma Innovation*, 7(7): 256-269.
- **Surbhi**, Sangwan, N., Sangwan, A. K., Singh, V. and Kumar, A. (2018). Electrophoretic Characterization of Anti-platelet Aggregating Proteins/Peptides from Salivary Gland of *Rhipicephalus (Boophilus) microplus*. *International Journal of Current Microbiology and Applied Sciences*, 7(7): 2619-2626.
- **Surbhi**, Gupta, S., Sangwan, A. K. and Sangwan, N. (2018). Synthetic pyrethroids and Amitraz resistance

in *Hyalomma anatolicum* ticks of Sirsa district, Haryana. *The Pharma Innovation*, 7(8): 576-578.

- **Surbhi**, Gupta, S., Sangwan, A. K. and Sangwan, N. (2018). Determination of efficacy of commercial acaricides against *Ornithodoros savignyi* ticks collected from Haryana. *Journal of Entomology and Zoology Studies*, 6(5): 237-239.
- **Surbhi**, Sangwan, N., Sangwan, A. K. and Gupta, S. (2019). Acaricide resistance status of *Hyalomma anatolicum* and *Rhipicephalus (Boophilus) microplus* ticks collected from various locations of Haryana. *The Haryana Veterinarian*, 58(2): 288-289.
- **Surbhi**, Sangwan, N., Sangwan, A. K. and Gupta, S. (2019). Development stage specific and sex related changes in esterase pattern of *Hyalomma anatolicum* and *Rhipicephalus (Boophilus) microplus* ticks of Haryana. *The Haryana Veterinarian*, 58(2): 228-231.
- Kumar, A., Sindhu, N., Kumar, P., Kumar, T., Charaya, G., **Surbhi**, Jain, V. K. and Sridhar (2015). Incidence and Clinical Vital Parameters in Primary Ketosis of Murrah Buffaloes. *Veterinary World*, 8(9): 1083-1087.
- Kumar, A., Kumar, T., Kumar, P., Sindhu, N., Charaya, G., Goel, P., Sridhar and **Surbhi**. (2015). Comparative Evaluation of Different Therapeutic Regimes in Primary Ketotic Buffaloes. *Journal of Cell and tissue research*, 15(3): 5221-5225.
- Kumar, P., Jain, V. K., Kumar, A., Sindhu, N., Kumar, T., Charaya, G., **Surbhi**, Kumar, S., Agnihotri, D. and Sridhar. Clinico Haematobiochemical Studies on Fever of Unknown Origin (FUO) In Buffaloes. *Veterinary World*, 8(10): 1225-1229.

Review Articles

- **Surbhi**, Gupta, S. and Gupta, S. K. (2018). Acaricide resistance mechanisms and monitoring tools available for *Rhipicephalus (Boophilus) microplus*. *The Pharma Innovation*, 7(7): 398-405.

Book Chapter

- Gupta, S. and **Surbhi** (2018). Non –conventional approach of tick control in Indian scenario. *Advances in medico-veterinary parasitology: An Indian perspective*: 303-322.

Popular Articles

- Ankit Kumar, **Surbhi**, Jyoti Shunthwal and Tarun Gupta (2016). Care of Neonatal calf. *The Indian Cow*. 48:44-45.
- Ankit Kumar, **Surbhi**, Jyoti Shunthwal and Neelesh Sindhu (2016). Ketosis. *The Indian Cow*. 49:14-16.
- **Surbhi**, Ankit Kumar, Jyoti Shunthwal, Archana Sarangi and Subhasish Sahu (2017). Avian influenza: A threat to poultry farming. *Poultry World*. 42.
- Ankit Kumar, **Surbhi**, Jyoti Shunthwal and Neelesh Sindhu (2016). Pashu ration mai khanij mishran ka mahatav. *The Indian Cow*. 50: 38-40.
- **Surbhi**, Ankit Kumar, Jyoti Shunthwal and Vinus (2017). Pashuo mai afra Rog. *Pashudhan Gyan*. 1:43-44.
- Sajjan Sihag, Jyoti Shunthwal, Vinus and **Surbhi** (2016). Proper milking techniques in cows. *The Indian Cow*. 50:22-23.
- Vinus, Jyoti Shunthwal, **Surbhi** and Deven Arora (2017). Dhudharu pashuo mai khanij mishran ka mahatav. *Kheti Duniya Patiala*. 2.
- Vinus, Jyoti Shunthwal and **Surbhi** (2017). Pashuo ke liye silage uttpadan. *Haryana Kheti* . 9:10.
- Jyoti Shunthwal, Vinus and **Surbhi** (2017). Broiler: mass uttpadan ke liye murgi palan: aavasayak jankari. *Haryana Kheti* . 9:11.
- Ankit Kumar, Tanvi, **Surbhi** and Biswa Ranjan Maharana (2018). Caring of Animals during Summer.

Livestock Line. 12(2):29.

- Tanvi, **Surbhi** and Ankit Kumar (2018). Dairy waste management and composting. *Haryana Kheti*. 31.
- **Surbhi**, Saurabh Baloda, Tanvi and Snehil Gupta (2019). Roundworms infection in poultry and their management. *Poultry technology*. 13(10):102.
- Saurabh Baloda, **Surbhi**, Tanvi, and Snehil Gupta (2019). CARE 90 PROGRAM. *Livestock technology*. 8(8):28.
- **Surbhi**, Saurabh Baloda, Tanvi and Ankit Kumar (2019). Tapeworms and flukes infection of poultry and their management. *Poultry world*. 13(9):20.

Abstracts

- **Surbhi**, Nirmal Sangwan, Ankit Kumar and Arun K. Sangwan (2017). Isolation of platelet adhesion inhibitory proteins/peptides from salivary gland extract of *Hyalomma anatolicum* ticks. Abstract published in compendium of ICAVLS 2017 on “International Conference on Recent Trends in Agriculture, Veterinary & Life Sciences 2017” held from 2-4 February 2017 at Goa, India.
- **Surbhi**, Nirmal Sangwan, Saurabh Baloda and Arun K. Sangwan (2017). Effects of salivary gland proteins/peptides of *Rhipicephalus (Boophilus) microplus* ticks on bovine platelet aggregation inhibition. Abstract published in compendium of XXVI National Congress of Veterinary Parasitology & International Symposium on “Current Concepts in Diagnosis & Control of Parasitic Disease to Combat Climate Change” held from 15-17th February 2017 at Shimoga, India.
- **Surbhi**, Nirmal Sangwan, Arun K. Sangwan and Vijender Singh (2017). Isolation of platelet adhesion inhibitors from salivary gland extract of *Rhipicephalus (Boophilus) microplus* ticks. Abstract published in compendium of 17th Indian Veterinary Congress and XXIV Annual Conference of IAAVR & National Symposium on “Newer Generation Vaccine, Diagnostics for Improvement of Animal Health & Productivity vis-à-vis Genomic Interventions For The Social Benefit” held from 8-9 April, 2017 at IVRI, Bareilly, UP, India.
- **Surbhi**, Nirmal Sangwan, Arun K. Sangwan and Sweety (2017). Isolation and identification of platelet aggregation inhibitors from salivary gland of *Hyalomma anatolicum* ticks. Abstract published in compendium of 17th Indian Veterinary Congress and XXIV Annual Conference of IAAVR & National Symposium on “Newer Generation Vaccine, Diagnostics for Improvement of Animal Health & Productivity vis-à-vis Genomic Interventions for the Social Benefit” held from 8-9 April, 2017 at IVRI, Bareilly, UP, India.
- **Surbhi**, Nirmal Sangwan and Arun K. Sangwan (2017). *In vitro* inhibition of platelet aggregation and mode of action of isolated proteins/peptides from salivary glands of *Hyalomma anatolicum* ticks. Abstract published in compendium of Second Annual Convention of Society of Veterinary Biochemists and Biotechnologists in India and National Symposium on “Innovative and Emerging Biochemical and Biotechnological Tools to Augment Animal Health and Production” held from 2-3 June, 2017 at Bangalore, India.
- **Surbhi**, Nirmal Sangwan and Arun K. Sangwan (2017). Inhibition of intracellular calcium release in response to *Hyalomma anatolicum* ticks’ salivary gland proteins/peptides. Abstract published in compendium of 27th National conference of Parasitology in India and National Symposium on “Parasitology to Nanotechnology: Changing Facets and Innovations” held from 25-27 April, 2017 at Convention centre, NIMHANS, Bangalore, India.
- **Surbhi**, Nirmal Sangwan and Ankit Kumar (2017). Isolation and identification of thrombin inhibitors from salivary glands of *Rhipicephalus (Boophilus) microplus* ticks. Abstract published in compendium of 27th National conference of Parasitology in India and National Symposium on “Parasitology to Nanotechnology: Changing Facets and Innovations” held from 25-27 April, 2017 at Convention centre NIMHANS, Bangalore, India.
- **Surbhi**, Nirmal Sangwan and Arun K. Sangwan (2017). Mobilization of intracellular calcium ion in response to *Rhipicephalus (Boophilus) microplus* ticks’ salivary glands platelet aggregating inhibitory proteins. Abstract published in XVII Annual Conference of “Indian Society of Veterinary Pharmacology and Toxicology” and National Symposium on “Combating Antimicrobial Resistance” held on 20-22 December, 2017 at LUVAS, Hisar (Haryana).

- **Surbhi**, Nirmal Sangwan and Arun K. Sangwan (2018). Anti-platelet aggregating peptides in salivary glands of *Hyalomma anatolicum* and *Rhipicephalus (Boophilus) microplus* ticks: Differences in their effects on blood coagulation. Abstract published in Proceedings of 3rd Annual Convention of Society of Veterinary Biochemists and Biotechnologists in India and National Symposium on “Bridging biochemical interventions and environmental remediation for one health improvement” held on 2-3 November 2018 at LUVAS, Hisar, Haryana.
- **Surbhi**, Nirmal Sangwan, Arun K. Sangwan and Snehil Gupta (2018). Biochemical basis for development acaricide resistance in *Hyalomma anatolicum* ticks collected from Haryana. Abstract published in Proceedings of 3rd Annual Convention of Society of Veterinary Biochemists and Biotechnologists in India and National Symposium on “Bridging biochemical interventions and environmental remediation for one health improvement” held on 2-3 November 2018 at LUVAS, Hisar, Haryana.
- **Surbhi**, Nirmal Sangwan, Arun K. Sangwan and Snehil Gupta (2018). Comparative study of esterases in *Hyalomma anatolicum* and *Rhipicephalus microplus* ticks. Abstract published in Proceedings of 3rd Annual Convention of Society of Veterinary Biochemists and Biotechnologists in India and National Symposium on “Bridging biochemical interventions and environmental remediation for one health improvement” held on 2-3 November 2018 at LUVAS, Hisar, Haryana.
- Tanvi, **Surbhi**, Ankit Kumar and Sneh Goyal (2019). Qualitative analysis of lignocellulolytic enzymes produced by *Aspergillus Dentatus* under diverse culture conditions. Abstract published in Proceedings of National Conference on "Biodiversity & Environmental Sustainability in Modern Era" sponsored by Department of Higher Eductaion held on 16th February 2019 at CRM Jat college, Hisar, Haryana.
- Snehil Gupta, **Surbhi** and Arun K. Sangwan (2019). Comparative evaluation of efficacy of commercial and technical grade deltamethrin against *Rhipicephalus (Boophilus) Microplus* tick. Abstract published in Proceedings of National Conference On "Biodiversity & Environmental Sustainability in Modern Era" sponsored by Department of Higher Eductaion held on 16th February 2019 at CRM Jat college, Hisar, Haryana.
- Jyoti shunthwal, Sajjan Sihag, Vinus, Promila, Nancy Sheoran, Saurabh Baloda, Rakesh Kumar, **Surbhi** and Zile Singh Sihag (2016). Effect of linseed oil on carcass traits and meat composition of broiler chicks. Abstract published in “National symposium on Rural poultry for Livestock, Nutritional and Economic Security and XXXIII Annual conference of Indian Poulrty Science Association” held from 3-5 November, 2016 at Guwahati, India.
- Jyoti shunthwal, Sajjan Sihag, Promila, Nancy Sheoran, Saurabh Baloda, Rakesh Kumar and **Surbhi** (2016). Investigation of the effect of feeding linseed oil on serum parameters of broiler chicks. Abstract published in “National symposium of 15th Convocation of NAVS” held from 22-23 october, 2016 at KCVAS, Amritsar.
- Jyoti Shunthwal, Sajjan Sihag, Nancy Sheoran, **Surbhi** and Madhu Sudan Guray (2017). Effect of feeding linseed oil on livability, economics and meat quality in broiler chicks. Abstract published in souvenir of “Second National Conference on New Horizons in Human Health and Nutrition” held from 2-3 March, 2017 at Shoolini University, Solan, HP, India.