

Curriculum Vitae



Name : Dr. Shanker Kumar Singh
Designation : Associate Professor (Veterinary Medicine)
Date of Birth : 25/10/1980
Date of joining : Nov 22, 2023 (Associate Professor)
Oct 13, 2011 (Asst Professor)
Employee code : 801
State Reg No. : 2702 (Bihar Veterinary Council)
Address : Department of Veterinary Medicine, U.P. Pandit Deen Dayal Upadhyaya Pashu-Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan (DUVASU), Mathura – 281 001, UP., India.
Residential Address : Address: B-1, Old Campus, College of Veterinary Science and Animal Husbandry, DUVASU, Mathura – 281 001, U.P.
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EDUCATION

2007 - 2010 Ph.D., Indian Veterinary Research Institute, Izatnagar, Bareilly, UP., India.
Major subject: Veterinary Medicine
Minor subjects: Veterinary Immunology and Animal Biochemistry
Thesis project: Evaluation of antioxidant potential of *Calendula officinalis* in canine sarcoptic acariasis.

2005 - 2007 M.V.Sc., Indian Veterinary Research Institute, Izatnagar, Bareilly, UP., India.
Major subject: Veterinary Medicine
Minor subject: Animal Biochemistry
Thesis project: *In vitro* disease resistance and free radical scavenging potential of certain indigenous bio-organics and *in vivo* corroboration in mice and canine

1999 - 2005 B.V.Sc. & A.H., Bombay Veterinary College, Mumbai, India.
Major: Veterinary Science and Animal Husbandry

WORK EXPERIENCE

11/ 2023 – Present Associate Professor. Department of Veterinary Medicine, Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu-Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan (DUVASU), Mathura, UP., India.

10/ 2011 – 11/2023 Assistant Professor. Department of Veterinary Medicine, Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu-Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan (DUVASU), Mathura, UP., India.

- Teaching veterinary medicine to undergraduate, graduate, and doctoral students.
- Major research advisor for post-graduate and doctoral students.
- Conducting research in veterinary dermatology, vector-borne diseases of animals, host-parasite interactions, parasitic disease immune-pathology, and livestock production diseases.
- Team member to investigate various animal disease outbreaks in the state and country.
- Offering veterinary medical services to livestock, pets, and wildlife brought to the university hospital that are clinically ill.
- Educating farmers, owners of livestock, and veterinary specialists.
- Organizing / Participating Scientific Events
- Taking part in various activities assigned by the University .
- Supporting University Administration

09/ 2010 – 09/2011 Medical Veterinary Officer. Laboratory Animal Resource Section, SRMS Institute of Medical Sciences, Bareilly, UP., India

- Maintaining laboratory animals for experimental use.
- Conducting *in vivo* experimental trials in laboratory animals.
- Therapeutic management of clinically sick laboratory animals.
- Training undergraduate medical students for laboratory animals handling.

PROFESSIONAL TRAINING

INTERNATIONAL

01/03/2023-31/05/2023 Three-months Overseas Training (Visiting Scholar) in **Veterinary Dermatology** Unit.

- Department of Veterinary Clinical Medicine, College of Veterinary Medicine, Veterinary Teaching Hospital University of Illinois at Urbana-Champaign, USA.

NATIONAL

03/01/2024-12/01/2024 10 days short course on “Recent Developments in Livestock Phenome Data Recording, Analysis and Interpretation in the Era of Genomics”

- ICAR-National Research Centre on Camel, Bikaner, from 3rd to 12th Jan 2024.

01/09/2022-30/09/2022 One-month MOOC training on “Digital Assessment and Evaluation Methodologies”

- ICAR-National Academy of Agricultural Research and Management (NAARM), Hyderabad

13/05/2020 - 24/06/2020 Six-weeks Online Training on “Comprehensive disaster risk management framework”

- National institute of disaster management (NIDM), Ministry of Home Affairs , Government of India, New Delhi in collaboration with the World Bank (GFDRR), Washington

26/09/2018 - 16/10/2018 21 days ICAR Winter School Training on “Practicability, Scope and Future prospect of Ethno-Botanicals in Minimizing Antibiotic Resistance”

- Division of Veterinary Medicine, Indian Veterinary Research Institute, Izatnagar, UP., India

14/09/2017 - 04/10/2017 21 days national training on “Updates on Vectors and Vector Borne Diseases”

- Department of Veterinary Parasitology, Centre of Advanced Faculty Training (CAFT) in Parasitology, Veterinary College, KVAFSU Regional campus, Hebbal, Bengaluru (Karnataka), India.

08/10/2013 - 28/10/2013 21 days ICAR Summer School Training on “Advances in Diagnosis, Therapy and Prevention of Emerging and Re-emerging Diseases of Livestock”

- Department of Veterinary Medicine, College of Veterinary Science, GADVASU, Ludhiana (Punjab), India.

26/11/2011 - 30/11/2011 Five days Orientation and Sensitization Workshop on “Science Writing/Journalism”

- National Council for Science and Technology Communication, DST, New Delhi & Department of Mass Communication, Aligarh Muslim University, Aligarh, UP., India.

RESEARCH EXPERIENCE

- **12 Years +**

Students Research Projects

- Evaluation of therapeutic effects of chewable fluralaner against canine sarcoptic mange
- Studies on immuno-ophthalmopathy of bovine tropical theileriosis in calves with special reference to immunomodulatory effects of injectable trace minerals complex supplementation
- Evaluation of the ameliorative potential of a polyherbal formulation on Toll-like receptors and cytokines expression in peripheral blood mononuclear cells and lesional skin of dogs with generalized demodicosis
- Studies on the ameliorative potential of a polyherbal formulation on the expression of skin barrier proteins and cytokines in dogs with atopic dermatitis
- Evaluation of the therapeutic potential of certain homoeopathic preparations in canine atopic dermatitis
- Studies on add-on effects of a polyherbal formulation on clinical recovery and immuno-competence of dogs with demodicosis
- Studies on the effects of prepartum supplementation of ammonium chloride along with immunomodulators on metabolomics and immunodynamics of periparturient indigenous cows
- Effects of prepartum supplementation of antioxidants and anionic salt on metabolic and oxidative status of transition *Sahiwal* cattle
- Metabolic profiling of cattle and buffaloes suffering from mastitis and its management using adjunctive remedial

Number of Student Guided as Major Advisor

MVSc

10 Students

- 1-Dr. Snaju Kumari (2021)
- 2-Dr. Richa Khusboo (2020)
- 3-Dr. Sandeep P. Soma (2019)
- 4-Dr. Srita Kanwal (2019)
- 5-Dr. Sujeet Kumar Chaudhary (2018)

	6-Dr. Alok Singh (2017)
	7-Dr. Vivek Kumar Singh (2016)
	8-Dr. Brijesh Kumar Yadav (2015)
	9-Dr. Krishna Veer Singh (2013)
	10-Dr. Deepak Sharma (2013)
PhD	One
	1-Dr. Pradeep Kumar Ram (2020)

PROJECTS COMPLETED/ONGOING

Ongoing Projects

- **Principal Investigator** of an extramural project entitled “Clinical Evaluation of Some Homeopathic Medicines against Mites Induced Dermatitis in Dogs” funded by Central Council for Research in Homeopathy (Under Deptt. of AYUSH, Ministry of Health and Family Welfare, Govt. of India) (INR 27.47 Lakhs)
- **Co-Pi** of UPCAR, Uttar Pradesh funded project on “Evaluation of acaricide resistance and development of herbal formulations for tick control in large ruminants of Mathura” (21.08 Lakhs)
- **Co-Pi** of RKVY-RAFTAAR, Uttar Pradesh funded project on “Capacity Building & Entrepreneur Development of Farming Community through Establishment of Community Radio Station”. (INR 98.57Lakhs)

Completed Projects

- **Resource Person** of UPCAR, Uttar Pradesh funded project on “Imparting Scientific Knowledge of Animal Rearing for Better Production through Technology Transfer to Livestock Owner’. (INR 14.812 Lakhs)
- **Associated Investigator** of ICAR funded Outreach Programme on Ethno-Veterinary Medicine entitled “Pharmacological Studies and Development of Polyherbal Formulation for Reproductive Disorders in Animals”. (98.80 Lacs) (2014-2020)
- **Co-Pi** of RKVY; Uttar Pradesh funded project on “Strengthening of clinical diagnostic and therapeutic facilities at the university hospital for benefits of farmers and livestock owners. (INR 223.20 Lakhs)
- **Principal Investigator** of an institutionally funded project entitled “Studies on Effects of Prepartal Nutritional Supplements on Production Diseases of Indigenous Transition Cows” (INR 1.50 Lakhs)
- **Co-PI** of an institutionally funded project entitled “Evaluation of acaricidal potential of herbal essential oils against bovine ticks (1.90 Lakhs)

- **Co-PI** of an institutionally funded project entitled “Expression profile of cytokines and TLRs in cattle and buffaloes with natural tropical theileriosis” (2.00 Lakhs)

PROFESSIONAL MEMBERSHIPS

- Member of National Academy of Veterinary Science (NAVS), New Delhi.
- Member of Executive Council (Central Region Secretary) of Indian Society for Veterinary Medicine (ISVM) (2018-2023)
- Life member – Indian Society for Veterinary Medicine (ISVM).
- Life member – Indian Society for Advanced Canine Practice (ISACP).
- Life member –Indian Science Congress.
- Registered member – Bihar Veterinary Council (BVC).
- Editorial member of International Journal of Veterinary Science and Research
- Editorial member of World Journal of Veterinary Science
- Editorial member of Journal of Veterinary Research and Animal Husbandry
- Associate Editor of International Journal of Parasitology Research
- Editorial member of “EC Veterinary Science Journal”
- Editorial member of “EC Pharmacology and Toxicology”

SCIENTIFIC CONFERENCE/SYMPOSIA/WORKSHOP ORGANIZED

- **Treasurer** of National Symposium of Indian Society for Buffalo Development on “Modern approaches for sustainable buffalo production in the scenario of climate change” held at DUVASU, Mathura (October 27-28, 2023)
- **Editorial Board Member** of 2nd Edition of International Conference on Dermatology Cosmetology: DERMATOLOGY 2023.
- **Organizing Secretary** of National Dialogue on “Sustainable growth and development of Indian Dairy Sector” of TAAS, New Delhi held at DUVASU, Mathura (December 16-17 2022)
- **Organizing member** of 2nd Annual Meeting of Society of Veterinary Science and Biotechnology (SVSB)-2014, organized at DUVASU, Mathura (UP), India.
- **Program Committee Member** (Referee) of 2nd Annual International Conference on Advances in Veterinary Science Research (VETSCI

2014) organized by Global Science and Technology Forum in Singapore.

SCIENTIFIC CONFERENCE/SYMPOSIA/WORKSHOP
PARTICIPATED

- Participated in International Workshop on “Quality and Safety Audits of Foods from Animal Origin” organized at DUVASU, Mathura. (Dec 20-22, 2023)
- Participated in National Conference of Indian Society for Buffalo Development (ISBD) and Symposium on Modern Approaches for Sustainable Buffalo Production in the Scenario of Climate Change (ISBDCON 2023) organized by DUVASU, Mathura (October 27-28, 2023)
- Participated in First National Conference of Society for Promotion of Farm and Companion Animal (SPFCA) on the theme “Fostering One Health for Food Safety and Security through Sustainable Animal Husbandry & Aquaculture Practices” held at Bihar Veterinary College, BASU, Patna (November 10-11, 2022)
- Participated in 38th Annual Convention of ISVM organized by Department of Veterinary Medicine, KVAFSU, Veterinary College, Hebbal, Bengaluru (5-7 February 2020)
- Participated in 37th Annual Convention of ISVM-2019 organized by Department of Veterinary Medicine , RAJUVAS, Bikaner (1-3 February 2019)
- Participated in 36th Annual Convention of ISVM & National Symposium on “Animal Health Service delivery –The Priorities of the Professionals for Enhancing Farmers’ Income”
- Participated in 1-3rd Feb 2018, Organized by Department of Veterinary Medicine, Orissa University of Agriculture and Technology, Bhubaneswar.
- Participated in 35th Annual Convention of ISVM & National Symposium on “Innovative Techniques, Emerging Issues and Advancement in Veterinary Medicine to Meet the Challenges : Present and The Future” 22-24th Feb 2017, organized by Department of Veterinary Medicine, Veterinary College and Research Institute, Tirunelveli (TN).
- Participated in 34th Annual Convention of ISVM & National Symposium on “Newer Approaches in Diagnosis and Management of Animal Diseases for Sustainable Health and Production” 17-19th Feb 2016, Organized by Department of Veterinary Medicine, GADVASU, Ludhiana
- Participated in International Conference on “Challenges and Opportunities in the field of Veterinary Microbiology” and 28th Annual Convention of IAVMI 30/10/2014 to 01/11/2014., organized by Department of Microbiology, DUVASU, Mathura

- Participated in 31st Annual Convention of ISVM & National Symposium on “Advancing Veterinary Medicine and its Specialties in Farm and Companion Animals” 9-11th Jan 2013., organized by Department of Veterinary Medicine, CoVSc & AH, Mhow, NDVSU, Jabalpur (M.P.)

SCIENTIFIC JOURNALS REFEREE

- Scientific Reports
- Frontiers In Veterinary Science
- Frontiers In Immunology
- Frontiers In Pharmacology
- Experimental Parasitology
- Veterinary Quarterly
- Acta Veterinaria Eurasia
- Experimental and Applied Acarology
- Acta Parasitologica
- Tropical Animal Health and Production
- Topics in Companion Animal Medicine
- Veterinary Medicine and Science
- Molecular and Biochemical Parasitology
- Parasite Immunology
- BMC Veterinary Research
- Parasites & Vector
- Veterinary Parasitology
- Veterinary Immunology and Immunopathology
- Parasitology
- Livestock Science
- Veterinary Dermatology
- Phytotherapy Research
- Small Ruminant Research
- Veterinary Parasitology: Regional Studies and Reports
- Journal of Immunology and Immunotherapy
- Indian Journal of Animal Sciences
- World Journal of Veterinary Science
- Research Opinion in Veterinary Science
- Journal of Parasitic Diseases
- Iranian Journal of Pharmacology and Therapeutics
- Iranian Journal of Veterinary Research
- Haryana Journal of Field Veterinarian
- National Journal of Integrated Research in Medicine
- International Journal of Parasitology Research
- Proceedings of the National Academy of Sciences B: Biological Science

HONOURS AND AWARDS

- Appreciation award by Indian Society for Veterinary Medicine (ISVM)-2023
- Appreciation award Indian Society for Buffalo Development (ISBD)-2023
- Appreciation award by Indian Society of Genetics, Biotechnology Research and Development-2023
- Best Oral Presentation Award (2nd), Annual convention of VIPM society and National Symposium- held during 6th -7th May 2022 at NDUAT, Kuamarganj, Ayodhya, UP, presented by my PhD student Dr. Pradeep Kumar Ram.
- Best Oral Presentation Award (3rd), Annual convention of VIPM society and National Symposium- held during 6th -7th May 2022 at NDUAT, Kuamarganj, Ayodhya, UP, presented by my MVSc student Sanju Kumari.
- PhD student thesis awarded Shri Lal Bahadur Shastri VIPM Best PhD Thesis Award-2020 to my PhD student (Dr. Pradeep Kumar Ram)
- Awarded Membership of National Academy of Veterinary Science, New Delhi -2020
- Member of Executive Council of Indian Society for Veterinary Medicine (ISVM) (2018-2023)
- Mock Evaluator of Uttar Pradesh for National Mission of World Organization for Animal Health (OIE) for evaluation of Performance of Veterinary Services
- Awarded “Best Oral Presentation Award (1st)” in National Symposium and XIV Biennial Conference of Association of Public Health Veterinarians on “Public health challenge mitigation strategies at the confluence of One Health Approaches” held during 24-25 January 2020 at DUVASU, Mathura.
- Awarded “Best Oral Presentation Award (1st)” in “Complementary and Alternative Medicine” session of 37th Annual Convention of ISVM held during 01-03 February 2019 at RAJUVAS, Bikaner.
- Rapporteur for a Scientific Session of 36th Annual Convention and National Symposium of ISVM held during 01-03 February 2018 at Bhubaneswar.
- Awarded “Best Oral Presentation Award (1st)” in “Companion Animals Infectious Diseases” technical session of 36th Annual Convention and National Symposium of ISVM-2018 at Bhubaneswar.

- Awarded “Best Poster Presentation Award (2nd)” in Wild, Zoo & Exotic Animals Medicine” technical session of 36th Annual Convention and National Symposium of ISVM-2018 at Bhubaneswar.
- Awarded “Best Oral Presentation Award (2nd)” in 35th Annual Convention of ISVM and National Symposium (2017)
- Awarded “Best Oral Presentation Award (3rd)” in 35th Annual Convention of ISVM and National Symposium (2017)
- Awarded “Best Poster Award (3rd)” in 34th Annual Convention of ISVM and National Symposium (2016)
- Awarded “Best Poster Award (3rd)” in 32nd Annual Convention of ISVM and International Symposium (2014)
- Awarded “Best Poster award (2nd)” in XXVII IAVMI Annual Convention (2013)
- Commendation letter for Outstanding Participant in 21 days summer school training organized at GADVSU-2013
- Best Student Award for PhD (2013) (IVRI Bronze Medal for PhD)
- Vice-chancellor’s appreciation letter (2013)
- Rapporteur in 31st Annual Convention of ISVM (2013)
- Best clinical article ISVM award (2009)
- Senior Research Fellowship, ICAR, (2007)
- Merit Scholarship for PhD (2007)
- Junior Research Fellowship, ICAR, (2005)

SUCCESS OF STUDENT (AS MAJOR GUIDE)

MVSc students have joined the Government Sectors

- Dr. Vivek Kumar Singh, Assistant Professor, BASU, Patna, Bihar.
- Dr. Alok Singh, Assistant Professor, NDUAT, Kumarganj
- Dr. Deepak Sharma, Veterinary Officer Rajasthan Gov.
- Dr. Krishna Veer Singh, Veterinary Officer Uttar Pradesh Gov.
- Dr. Brajesh K Yadav, Veterinary Officer Uttar Pradesh Gov.
- Dr. Sanju Kumari, Veterinary Officer Uttar Pradesh Gov.
- Dr. Sarita Kanwal, Veterinary Officer Uttarakhand Gov.

Concepts/Process

- (1.) **Concept** of association of TLRs in host-parasite interplay during the canine demodicosis was documented by Kumari et al. (2018) for the first time (Kumari P, Nigam R, Choudhury S, Singh SK, Yadav B, Kumar D, Garg SK. 2018. *Demodex canis* targets TLRs to evade host immunity and induce canine demodicosis. *Parasite Immunology* 40(3). e.12509. doi: 10.1111/pim.12509.) This published report has been cited in an

international esteemed book of Dermatology namely “Plewig and Kligman’s Acne and Rosacea. 2019. In Demodex Mites and Demodicosis. Springer, Cham., p 573-594. Additionally, this scientific report has also been cited in **14** referred research publications.

- (2.) **Concept** of T-cells response (CD4+ and CD8+ T cells regulation) in pathogenesis of canine demodicosis was documented by Singh et al. (2010) for the first time (Singh S K, Dimri U, Sharma M C, Sharma B and Saxena M. 2010. Determination of CD4+ and CD8+ T cells in the peripheral blood of dogs with demodicosis. *Parasitology* 137: 1921–1924.) This published report has been cited in an international esteemed book of Veterinary Dermatology namely “Muller and Kirk's Small Animal Dermatology” (Miller WH, Griffin CE and Campbell K L. 2013. Parasitic skin diseases. In: *Muller and Kirk's Small Animal Dermatology*, 7th edition. Philadelphia, PA: W.B. Saunders Co., p 284-342.). Additionally, this scientific report has also been cited in **39** referred research publications.
- (3.) **Concept** of development of a novel therapeutic approach having glucocorticoids sparing potential for management of canine atopic dermatitis was documented by Singh et al. (2010) for the first time by using pentoxifylline and PUFAs (Singh S K, Dimri U, Saxena S K and Jadhav R K. 2010. Therapeutic Management of canine atopic dermatitis by combination of pentoxifylline and PUFAs. *Journal of Veterinary Pharmacology and Therapeutics* 33: 495–498). This published report has been cited in an international esteemed book of Veterinary Science namely “Veterinary Allergy” (Mueller R S. 2014. Non conventional treatments: In Noli C, Wayne A F and Rantz R; *Veterinary Allergy*, WILEY BLACKWELL, p 96-100). This published report is also cited in another international esteemed book of Veterinary Science namely “Kirk's Current Veterinary Therapy XV” (John D. Bonagura, David C. Twedt, 2013. Canine atopic dermatitis, Elsevier Health Sciences). This report is also cited in Proceeding of the Seventh World Congress of Veterinary Dermatology in “Advances in Veterinary Dermatology” (Rosenkrantz WS and Meldelsohn CL. 2013. Refractory Atopic Dermatitis: In Sheila M F T, Linda A F and Ann M H; *Advances In Veterinary Dermatology*, vol 7: WILEY BLACKWELL, Chapter 8.8.). Additionally, this report has also been cited in **35** referred research publications.
- (4.) **Concept** of over production of reactive oxygen species and hastened apoptosis of peripheral blood leukocytes in pathogenesis of canine sarcoptic mange was revealed by Singh et al. (2011) for the first time (Singh S K, Dimri U, Sharma M C, Swarup D and Sharma B. 2011. Determination of oxidative status and apoptosis in peripheral blood of dogs with sarcoptic mange. *Veterinary Parasitology* 178: 330-338.). This published report has been cited in an internationally esteemed book namely “Intracellular Membranes—Advances in Research and

Application: 2012 Edition” (Acton A. 2012. In: *Intracellular Membranes—Advances in Research and Application*. Scholarly Editions, Atlanta, Georgia). Additionally, this report has also been cited in **41** referred research publications.

- (5.) **Concept** of increased apoptosis of leukocytes in immuno-pathogenesis of canine demodicosis was documented by Singh et al. (2011) for the first time (Singh SK, Dimri U, Sharma MC, Swarup D, Sharma B, Pandey HO, Kumari P. 2011. The role of apoptosis in immunosuppression of dogs with demodicosis. *Vet Immunol Immunopathol.*, 144: 487– 492.) This published report has been cited in an international esteemed book “6th edition of Jubb, Kennedy, and Palmer’s Pathology of Domestic Animals” by Maxie MG; Edinburgh; New York: Elsevier Saunders pp, 628, e1). Additionally, this scientific report has also been cited in **35** referred research publications.

Methodology Developed:

Developed new rapid method “**Superglue Slide Impression (SSI) Method**” of detection of *Demodex* mites in dogs “**Singh SK**. 2019. Superglue Slide Impression (SSI) method: A novel diagnostic application for canine demodicosis. *Experimental and Applied Acarology*. 79(3-4):387-393.

Book Published:

A Textbook as per VCI syllabus for B.V.Sc & AH course “**A Text Book of Veterinary Medicine: Production, Metabolic and Deficiency Diseases**” Kalyani Publisher, New Delhi-2020

PUBLICATIONS

Total Citations : 1080 **h-index** : 20 **i10-index** : 32

Publications	NAAS Rating
1. Paliwal S, Shanker D, Sudan V, Singh SK . 2023. Comprehensive genetic diversity and molecular evolutionary analysis of <i>Theileria annulata</i> isolates based on TAMS 1 gene. <i>Ticks and Tick-borne Diseases</i> . 14 (6): 102241.	9.20
2. Khare S, Kumar M, Kumar V, Kushwaha R, Vaswani S, Kumar A, Yadav RS, Singh SK , Singh Y, Shukla PK. 2023. Dietary Chromium Picolinate Supplementation Improves Glucose Utilization in Transition Calf by Ameliorating Insulin Response. 201(6):2795-2810.	9.90
3. Singh SK , Jaiswal AK, Kumari S, Gaur RS, Sharma P, Khushboo R, Jaiswal M. 2022. Therapeutic effects of oral fluralaner in pet rabbits	8.60

with severe sarcoptic mange (*Sarcoptes scabiei*). *Veterinary Parasitology*. 304:109693. doi: 10.1016/j.vetpar.2022.109693.

4. Kumar S, Paliwal S, Sudan V, Shanker D, **Singh SK**. 2022. An endpoint visualization loop-mediated isothermal amplification (LAMP) for detecting bubaline theileriosis. *Beni-Suef Univ J Basic Appl Sci* 11, 67. <https://doi.org/10.1186/s43088-022-00251-x> **9.10**
5. Ram PK, **Singh SK**, Sudan V. 2021. The phenotypic and haemato-biochemical appraisal of tropical theileriosis in newborn calves. *Tropical Animal Health and Production* 53, 477. <https://doi.org/10.1007/s11250-021-02889-8> **7.70**
6. Kanwal S, **Singh SK**, Soman SP, Choudhury S, Kumari P, Ram PK, Garg SK. 2021. Expression of barrier proteins in the skin lesions and inflammatory cytokines in peripheral blood mononuclear cells of atopic dogs. *Scientific Reports* 11, 11418. <https://doi.org/10.1038/s41598-021-90992-z> **10.60**
7. Yadav BK, Singh VK, **Singh SK**. 2021. Lipid mobilization and serum metabolites dynamics of Sahiwal cows during the transition period. *Biological Rhythm Research*, 52(9), 1364-1371. **7.10**
8. Gaur RS, Shanker D, Sudan V, **Singh S**, Jadaun A. 2021. Associative Diversity of ITS 1 gene in Different *Trypanosoma evansi* Isolates of Equine Origin from Semi Arid India. *Journal of Animal Research*, 4(11), 755-760. **4.78**
9. Kumar S, Sudan V, **Singh S**, Shanker D, Devi A, Gaur RS. 2021. Equi merozoite antigen 1 (ema 1) gene based phylogenetic characterization of *Theileria equi* from Mathura, India. *Journal of Veterinary Prarasitology*, 35(2), 108-113. **5.00**
10. Ram PK, **Singh SK**, Srivastava A, Kumar G, Jaiswal AK, Yadav B, SK Garg. 2021. Effects of Injectable Trace Minerals (ITMs) on Th1/Th2 Cytokine Balance of Newborn Calves with Tropical Theileriosis. *Biological Trace Element Research* 199 (4), 1397-1404. **9.90**
11. Singh VK, **Singh SK**, Tripathi AK, Nakade UP, Choudhury S, Yadav B, Garg SK. 2021. Evaluation of immuno-regulatory cytokines and negative energy balance markers drift of zebu cows during the transition period. *Biological Rhythm Research* 52 (2), 199-205. **7.10**
12. Gaur RS, Shanker D, Sudan V, Paliwal S, **Singh S**, Jadaun A. 2021. Associative Genetic Diversity of RoTat 1.2 VSG in Different *Trypanosoma evansi* Isolates. *Acta Parasitologica* 66, 199-204. **7.50**
13. Ram PK, **Singh SK**, Kumari P, Srivastava M, Sudan V, Pandey RP, **8.20**

- Garg SK. 2020. Role of cytokines in the clinical manifestation of exophthalmia in newborn calves with tropical theileriosis. *Parasite Immunology* 42 (10), e12761.
14. **Singh SK**, Singh VK, Yadav BK, Singh RK. 2020. Canine trypanosomiasis requires repeated administration of diminazene aceturate. *Indian Journal of Veterinary Medicine*, 40(1), 11-15. ----
 15. Soman SP, **Singh SK**, Kumari P, Choudhury C, Singh A, Kanwal S, Khushboo R, Garg SK. **2020**. Quantification of immuno-regulatory cytokine and toll-like receptors gene expression in dogs with generalized demodicosis. *Veterinary Parasitology* 280: 109063. **8.60**
 16. **Singh SK**. 2019. Superglue Slide Impression (SSI) method: A novel diagnostic application for canine demodicosis. *Experimental and Applied Acarology*. 79(3-4):387-393. **8.20**
 17. Singh A, Kumari P, **Singh SK**, Soman SP, Choudhury S, Srivatava A, Nigam R, Garg SK. 2019. Pre- and post-therapy circulating immuno-stimulatory and immuno-suppressive cytokines in dogs with juvenile-onset generalized demodecosis. *Veterinary Parasitology* 275 : 108954. **8.60**
 18. Chaudhary SK, **Singh SK**, Kumari P, Kanwal S, Soman SP, Choudhury S, Garg SK. 2019. Alterations in circulating concentrations of IL-17, IL-31 and total IgE in dogs with atopic dermatitis. *Veterinary Dermatology*. 30: 383–e114. **7.40**
 19. **Singh SK**, Singh VK, Ram PK, Yadav BK, Nakade UP. 2018. --- Assessment of non-corpuscular markers of protein oxidation, lipid peroxidation and antioxidant status of calves with natural tropical theileriosis. *Indian J. Vet. Med.* 38 (1&2), 60-63.
 20. Varshney JP, Kumar G, **Singh SK**. 2018. Evaluation of promising biochemical markers of nutritional osteodystrophy in goats. *Small Ruminant Research* 169, 86-89. **7.80**
 21. Gupta KK, Srivastava M, Sudan V, **Singh SK**, Choudhury S, Shanker D. 2018. Variation in cardiac markers and electrocardiographic alterations in young calves naturally infected with bovine tropical theileriosis. *Tropical Animal Health and Production* 50(6): 1227-1230. **7.70**
 22. Kesharwani PK, Kumar V, Roy D, Kumar M, **Singh SK**, Kushwaha R, Vaswani S. 2018. Effect of feeding sugarcane molasses based distilleries raw spent wash on growth performance, nutrient utilization and blood biochemical parameters in heifers. *Indian Journal of Animal Nutrition*, 35(1): 22-30. **5.19**

23. **Singh SK**, Singh VK, Kumari P, Nakade UP, Garg SK. 2018. **7.90**
Trypanosoma evansi induces detrimental immuno-catabolic alterations and condition like type-2 diabetes in buffaloes. Parasitology International 67 (2): 140-143.
24. Kumari P, Nigam R, Choudhury S, **Singh SK**, Yadav B, Kumar D, Garg SK. 2018. Demodex canis targets TLRs to evade host immunity and induce canine demodicosis. Parasite Immunology 40(3).e. 12509. doi: 10.1111/pim.12509. **8.20**
25. Ajith Y, Dimri U, Dixit SK, **Singh SK**, Gopalakrishnan A, Madhesh E, Rajesh JB, Sangeetha SG. 2017. Immunomodulatory basis of antioxidant therapy and its future prospects: An appraisal. Inflammopharmacology 25(5): 487-498. **11.80**
26. Kumari P, Nigam R, Singh A, Nakade UP, Sharma A, Garg SK, **Singh SK**. 2017. Demodex canis regulates cholinergic system mediated immunosuppressive pathways in canine demodicosis. Parasitology 144(10):1412-1416. **8.40**
27. Singh KV, Sharma D, **Singh SK**, Srivastava M, Garg SK and Yadav BK. 2017. Assessment of alteration in metabolic profile and milk composition of buffaloes with subclinical mastitis. Buffalo Bulletin 36(2): 295-302. **6.20**
28. Tiwari R, **Singh SK**, Choudhury S, Garg SK. 2017. Antifungal activity of Eucalyptus citriodora and Saraca indica leaves methanolic extracts against fungal isolates from dermatological disorders in canines. International Journal of Pharmacology 13:643-648. **6.60**
29. Ajith Y, Dimri U, **Singh SK**, Gopalakrishnan A, Devi G, Verma MR, Joshi V, Alam S. 2017. Lice induced immuno-oxidative wreckage of goats. Veterinary Parasitology 242: 24-30. **8.60**
30. Kumar J, Swain DK, **Singh SK**, Sirohi R, Dang AK. 2017. Molecular insights into the neutrophils activation in zebu cattle during seasonal variation. Biological Rhythm Research, 48 (4): 567-575. **7.10**
31. Swain DK, Yadav S, **Singh SK**. 2017. Effect of four different in vitro incubation temperatures on functional dynamics, process of capacitation and apoptosis in goat spermatozoa. Small Ruminant Research 147, 120-124. **7.80**
32. Swain DK, Kumar J, Yadav S, **Singh SK**, Singh Y, Dang AK. 2017. The functional dynamics of neutrophils during different seasons in zebu cattle. Biological Rhythm Research 48 (2): 227-237. **7.10**
33. Yadav BK, **Singh SK**, Nakade UP, Singh VK, Sharma A, Srivastava M, Yadav B, Singh Y, Sirohi R, Garg SK. 2017. Ameliorative potential of prepartal trace minerals and vitamins supplementation on parturition-induced redox balance and myeloperoxidase activity of periparturient Sahiwal cows. Biological Trace Element Research 177: 72-79. **9.90**
34. Singh S, Kumar M, Kumar V, Roy D, Kushwaha R, Vaswani S, Singh Y, **Singh SK**. 2016. Evaluation of molasses based biometanated distillery spent wash as an alternative feed for growing **5.19**

- cattle. *Indian Journal of Animal Nutrition* 33 (4): 388-393.
35. Tiwari R, Yadav SK, **Singh SK**. 2016. Methicillin Resistant **6.60**
Staphylococcus aureus isolated from wounds of livestock and
companion animals of U.P. India: A Preliminary Study. *International*
Journal of Pharmacology 12(8): 821-829.
 36. Singh RK, Tripathi AK, **Singh SK**, Singh AP, Yadav SC. 2016. **6.40**
Seroprevalence epidemiological studies on equine trypanosomosis
using Ab-ELISA in a part of semi-arid zone of northern plains of India.
Indian journal of animal sciences 87(7): 743-745.
 37. **Singh SK**, Singh VK, Yadav BK, Nakade UP, Kumari P, Srivastava **8.60**
MK, Sharma A, Choudhary S, Swain D, Garg SK. 2016. Potential
association of reduced cholinesterase activity with Trypanosoma
evansi pathogenesis in buffaloes. *Veterinary Parasitology* 225: 29-32.
 38. Ratta B, Pokhriyal M , **Singh SK**, Kumar A , Saxena M, Sharma **8.60**
B. 2016. Detection of Peste des petits ruminants virus (PPRV) genome
from nasal swabs of dogs. *Current Microbiology* 73, 99-103.
 39. Verma AK, **Singh SK**. 2016. Control and therapeutic management ---
of bovine tropical theileriosis in crossbred cattle. *Journal of Parasitic*
Diseases 40(1), 208-210.
 40. Sudan V, **Singh SK**, Jaiswal AK, Parashar R, Shanker D. 2015. **7.70**
First molecular evidence of the transplacental transmission of
Theileria annulata. *Tropical animal health and production* 47(6), 1-3.
 41. Gangwar C, Kumar R, Singh SP, **Singh SK**, Srivastava MK, Saxena **6.40**
A. 2015. Serum metabolites and macro mineral profile of prepartum
buffaloes affected with cervico-vaginal prolapse. *Indian Journal of*
Animal Sciences 85 (6): 575-577.
 42. Verma AK, Kumar A, **Singh SK**, Rahal A, Ahmed I, Singh D, Singh --
AP, Singh L. 2015. Prevalence and resistance to antimicrobial agents
of Campylobacter sp. isolated from dogs in India. *Journal of Biological*
Sciences. 14(2): 142-148.
 43. **Singh SK**, Sudan V, Sachan P and Srivastava A. 2015. Salvage of --
Theileria infected calves with clinical manifestation of exophthalmia.
Journal of Parasitic Diseases 39 (3): 448-451.
 44. Tiwari R, Yadav SK, **Singh S**, Gangwar NK. 2015. Bacterial Etiology --
Of Skin And Wound Infections Along With Antibigram Profiling In
Reference To Emerging Antibiotic Resistance In Animals. *Advances in*
Animal and Veterinary Sciences 3(5):259-268.
 45. **Singh SK**, Dimri U, Sharma MC, Sharma B, Saxena M and Kumari **8.60**
P. 2014. Assessment of the cytokine profile in peripheral blood
mononuclear cells of naturally Sarcoptes scabiei var. canis infested
dogs. *Veterinary Parasitology* 206: 253-257.
 46. Dimri U, Bandyopadhyay S, **Singh SK**, Ranjan R, Mukherjee R, **8.60**
Yattoo MI, Patra PH, De UK and Dar AA. 2014. Assay of alterations in
oxidative stress markers in pigs naturally infested with Sarcoptes
scabiei var. suis. *Veterinary Parasitology* 205(1-2): 295-299.

47. **Singh SK** and Dimri U. 2014. The immuno-pathological conversions of canine demodicosis. *Veterinary Parasitology* 203(1-2): 1-5. **8.60**
48. Sharma D, **Singh SK**, Srivastava MK, Sachan P, Srivastava A, Singh AP. 2014. Evaluation of metabolic status and milk compositions of indigenous cattle with subclinical mastitis and its amelioration by nutritional supplementations. *Indian Journal of Animal Sciences* 84(8): 846-850. **6.40**
49. **Singh SK**, Sudan V, Singh AP, Yadav BK. 2014. Evaluation of Clinical Markers for Diagnosis of Bovine Theileriosis-A Study of 21 Calves. *Intas Polivet* 15(2): 91-95. --
50. Verma AK, Kumar A, **Singh SK**, Rahal A, Ahmad I, Singh D, Singh A P and Singh L. 2014. Prevalence and Resistance to Antimicrobial Agents of *Campylobacter* sp. Isolated from Dogs in India. *Journal of Biological Sciences* 14(2): 142-148. --
51. Kumari P, **Singh SK**, Dimri U, Kataria M and Ahlawat S. 2014. Immunostimulatory activities of *Withania somnifera* root extract in dexamethasone induced immunocompromised mice and in vitro model. *Asian Journal of Complementary and Alternative Medicine* 2(2): 6-10. --
52. Dimri U, Sharma MC, **Singh SK**, Kumar P, Jhambh R, Singh B, Bandhyopadhyay S and Verma MR. 2013. Amelioration of altered oxidant/antioxidant balance of Indian water buffaloes with subclinical mastitis by vitamins A, D3, E, and H supplementation. *Tropical Animal Health and Production* 45(4), 971-978. **7.70**
53. **Singh SK** and Dimri U. 2013. Amelioration of sarcoptic mange-induced oxidative stress and apoptosis in dogs by using *Calendula officinalis* flower extracts. *ISRN Oxidative Medicine*. <http://dx.doi.org/10.1155/2013/657672> --
54. **Singh SK**, Dimri U, Ahmed QS, Sayedda K and Singh KV. 2013. Efficacy of doramectin in *Trixacarus caviae* infestation in guinea pigs (*Cavia porcellus*). *Journal of Parasitic Diseases* 37(1):148-150. --
55. Mahima, Singh KV, Verma AK, Kumar V, **Singh SK** and Roy D. 2013. Hematological and serum biochemical profile of apparently healthy Haryana cattle heifers in Northern India. *Pakistan Journal of Biological Sciences* 16(21): 1423-1425. --
56. Singh D, Verma AK, Kumar A, Srivastava M, **Singh SK**, Tripathi AK, Srivastava A and Ahmed I. 2013. Detection of canine parvo virus by polymerase chain reaction assay and its prevalence in dogs in and around Mathura, Uttar Pradesh, India. *American Journal of Biochemistry and Molecular Biology* 3(2): 264-270. --
57. **Singh SK**, Dimri U, Sharma MC, Swarup D, Kumar M and Tiwari R. 2012. *Psoroptes cuniculi* induced oxidative imbalance in rabbits and its alleviation by using vitamins A, D3, E, and H as adjunctive remedial. *Tropical Animal Health and Production* 44, 43-48. **7.70**

58. Dimri U, **Singh SK**, Sharma MC, Behera SK, Kumar D and Tiwari P. 2012. Oxidant/antioxidant balance, minerals status and apoptosis in peripheral blood of dogs naturally infected with *Dirofilaria immitis*. *Research in Veterinary Science* 93: 286-299. **8.40**
59. Kumar M, Mishra KK, Gurav A, Vijayakumar H, **Singh SK** and Mondal D B. 2012. Therapeutic management of ivermectin toxicosis in a dog- A case report. *Indian Journal of Veterinary Medicine* 32(1): 56-57. --
60. Jadhav RK, **Singh SK**, Dar AA, Tiwari R and Sharma MC. 2012. Immune mediated musculoskeletal disorders of dogs: an overview. *Journal of Advanced Veterinary Research* 2: 59-67. --
61. Kumar A, Dar AA, **Singh SK**, Ansari AA and Dey S. 2012. Tail chasing in a German shepherd dog: a compulsive obsessive disorder. *Indian Journal of Veterinary Medicine* 32(1), 52-53. --
62. **Singh SK**, Dimri U, Sharma MC, Swarup D and Sharma B. 2011. Determination of oxidative status and apoptosis in peripheral blood of dogs with sarcoptic mange. *Veterinary Parasitology* 178, 330-338. **8.60**
63. **Singh SK**, Dimri U, Sharma MC, Swarup D, Sharma B, Pandey HO and Kumari P. 2011. The role of apoptosis in immunosuppression of dogs with demodicosis. *Veterinary Immunology and Immunopathology* 144: 487- 492. **7.80**
64. Behera SK, Dimri U, **Singh SK** and Mohanta RK. 2011. The curative and antioxidative efficiency of ivermectin and ivermectin + vitamin E-selenium treatment on canine *Sarcoptes scabiei* infestation. *Veterinary Research Communication* 35: 237-244. **8.20**
65. **Singh SK**, Dimri U, Kataria M and Kumari P. 2011. Ameliorative activity of *Withania somnifera* root extract on paraquat-induced oxidative stress in mice. *Journal of Pharmacology and Toxicology* 6(4): 443-449. --
66. Singh S, **Singh SK**, Kumar M, Chandra K and Singh R. 2011. Ameliorative potential of quarcetin against paracetamol-induced oxidative stress in mice blood. *Toxicology International* 18(2):140-145. **5.56**
67. **Singh SK**, Kumar M, Jadhav RK and Saxena SK. 2011. An update on therapeutic management of canine demodicosis. *Veterinary World* 4(1): 41-44. **7.60**
68. **Singh SK**, Dimri U, Sharma, Sharma B, Saxena M. and Behera SK. 2011. Treatment of generalized canine demodicosis by *Withania somnifera* root extract. *Indian Veterinary Journal* 88(5): 29-31. **4.99**
69. Kumar M, Behera SK, **Singh SK**, Mishra KK and Mondal DB. 2011. Therapeutic management of colic in equines. *Indian Veterinary Journal* 88(10), 118. **4.99**
70. Kumar M, Monsang SW, Pawde AM, **Singh SK**, Madhu DN and Zama MMS. 2011. Post-surgical healing effects of placentrex in equine (*Equus caballus*) ocular setariosis: a review of 22 cases. *The Indian Journal of Field Veterinarians* 6(4): 71-73. **5.25**

71. **Singh SK**, Srivastava M, Sachan P and Singh KV. 2011. Restorative management of phorate poisoning in a dog. *Journal of Canine Development and Research* 7: 85-87. **4.57**
72. Singh V, Somvanshi R, Yasotha T, Subodh SK, **Singh SK** and Dayal S. 2010. Detection of BPV-2 in cutaneous warts of Indian water Buffaloes (*Bubalus bubalis*). *Buffalo Bulletin* 29(2): 133-140. **6.20**
73. **Singh SK**, Dimri U, Sharma MC, Sharma B and Saxena M. 2010. Determination of CD4+ and CD8+ T cells in the peripheral blood of dogs with demodicosis. *Parasitology* 137:1921-1924. **8.40**
74. **Singh SK**, Dimri U, Saxena SK and Jadhav RK. 2010. Therapeutic Management of canine atopic dermatitis by combination of pentoxifylline and PUFAs. *Journal of Veterinary Pharmacology and Therapeutics* 33: 495-498. **7.30**
75. **Singh SK** and Dimri U. 2010. Use of *Withania somnifera* extract in canine demodicosis. *Indian Veterinary Journal* 87(10): 1091-1092. **4.99**
76. Kumar P, **Singh SK**, Singh YR and Jhala MK. 2010. A brief view on molecular diagnosis and surveillance of West Nile Virus. *Avicenna Journal of Medical Biotechnology* 2(4): 34-35. --
77. Dimri D, **Singh SK**, Sharma MC, Kumar P, Waila T, Kumar S, Ranjan R and Kumar N. 2009. Efficacy of doramectin against canine demodicosis. *Indian Veterinary Journal* 86: 1127-1128. **4.99**
78. Varshney JP, Chaudhari S, **Singh SK** and Dey S. 2009. Acute Plumbism in a Pomeranian dog- A Case Report. *Indian Journal of Veterinary Medicine* 29(2):133-134. --
79. Dimri U, Ranjan R, **Singh SK**, Sharma MC, Swarup D, Diwedi P, Sharma AK and Kataria M. 2007. Clinico-pathological and hemato-biochemical changes in buffaloes with sarcoptic mange. *Indian Journal of Veterinary Pathology* 31(2), 160-162. **4.97**

Lead Paper/Expert Lecture in Scientific Training

- **Expert Lecture** on “Bio-markers of diagnostic importance in livestock metabolic diseases- A novel disease phenotype for herd health management” in ICAR Sponsored 10 days short course on “Recent Developments in Livestock Phenome Data Recording, Analysis and Interpretation in the Era of Genomics” held at ICAR-National Research Centre on Camel, Bikaner, from 3rd to 12th Jan 2024.
- **Lead Paper** on “Production diseases of buffaloes under impending climatic changes” in National Symposium of Indian Society for Buffalo Development on Modern approaches for sustainable buffalo production in the scenario of climate change. October 27-28, 2023 at DUVASU Mathura.

- **Expert Lecture** on “Management of Production Diseases in Goats” in ICAR Sponsored Winter School from 11th to 31st Jan, 2022 organized by Veterinary Physiology Department, DUVASU, Mathura
- **Expert Lecture** on “Production disease management of dairy cows under impending climatic changes” in DST-SERB sponsored High-end Workshop, at IVRI, Izatnagar held during 18th to 27th September 2023.

Institutional Building Activities

- Assistant Director Research
- Hostel Warden (SN Hostel)
- Internship Coordinator of Veterinary Medicine Unite
- Advisory Board Member of Institute of Para-Veterinary Sciences
- Member of Drafting Committee of DUVASU IT Policy-2022
- Member of Infrastructure and Learning Resources Committee
- Convener of Clinical Health Camps
- Member of e-tender evaluation team of the University
- Sports Counsellor- Men’s Table Tennis
- In-charge of PG Laboratory, Department of Veterinary Medicine