

Resume

Dr Diwakar

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ACADEMIC CREDENTIALS

2017: MVSc (Veterinary Microbiology) from Rajasthan University of Veterinary Sciences, Bikaner-334001

- Thesis title: “**Profiling of some virulence and antibiotic resistance associated genes in *Staphylococcus aureus* isolated from goats with clinical mastitis**”.

2014: BVSc & AH from Rajasthan University of Veterinary Sciences, Bikaner-334001

AWARDS/ ACHIEVEMENTS

1. Award of **Gold Medal** in M.V.Sc.
2. **Merit list in 2nd, 3rd, 4th and 5th** professional years of B.V.Sc. & A.H.
3. **Award in oral presentation** (2016) at National Conference on Mankind: Facing Environmental Challenges & Tackling Disasters (MFECTD), Jodhpur (1st rank)
4. **Award in Poster presentation** (2018) at XIIth Annual Convention of Association of Indian Zoo & Wildlife Veterinarians & National Conference on Wildlife health management vis-à-vis prospect of mitigation of extrinsic influences impinging their conservation (2nd rank & 3rd rank)

EXPERIENCE

1. **07.08.2023 to Continue: Assistant Professor (Dairy Microbiology)** College of Dairy Science and Technology, RAJUVAS, Bikaner
2. **11.04.2022 to 05.08.2023: Assistant Professor (Veterinary Microbiology)** at MJFCVAS, Chomu, Jaipur
3. **06.12.2021 to 09.04.2022: Assistant Professor (Veterinary Microbiology)** at Shourabh College of Veterinary Science, Kheda, Hindauncity Karauli
4. **03.09.2020 to 10.11.2021: Veterinary surgeon** at Tagore College of Veterinary sciences, Bhiwani
5. **11.01.2017 to 02.11.2020: Project associate** (research, extension and teaching) in Wildlife Centre, CSWMH, RAJUVAS, Bikaner

TEACHING AND OTHER APPOINTMENTS

1. All B. tech. courses offered by the Department of Dairy Microbiology as per ICAR (5th Dean committee) syllabus, with a focus on demonstrating their practical applications.
2. Academic coordinator and purchase officer College of Dairy Science and Technology.
3. All B.V.Sc. & A.H. courses offered by the Department of veterinary Microbiology as per VCI syllabus, with a focus on demonstrating their practical applications.

AREA OF RESEARCH INTERESTS

- Dignostics and therapeutics

PUBLICATIONS

Research Articles

1. **Diwakar**, Akriti, Sunita Choudhary, Dharendra Meena, Taruna Bhati, and AK Kataria (2019). Antibiotic Sensitivity Pattern of Some *Staphylococcus aureus* Isolates From Milk From Goats With Clinical Mastitis. *Ruminant science* Vol 8 No 1, p 19-22.
2. **Diwakar***, S Choudhary, Akriti, T Bhati and AK Kataria (2018). Polymorphism in X- region of spa gene in *S. aureus* isolates from goats with clinical mastitis. *Entomology and Zoology Studies*. 1915-1918.
3. Sunita, **Diwakar** and AK Kataria (2019). Antibiotic Resistance Pattern *Staphylococcus aureus* milk isolates from cattle with clinical mastitis. *Ruminant Science*. Vol(2) No 6, p 319-322.
4. Kumar Gaurav, Pragma Nathiya, **Diwakar**, Taruna bhati and A.K. Kataria (2019). Detection of Enterotoxin genes (seg, she and sei) in *Staphylococcus aureus* milk isolates from cow with sub-clinical mastitis. *Journal of Animal Research* Vol (9) No 2, p 275-280.
5. S Choudhary, **Diwakar**, T Bhati and AK Kataria (2018). Molecular typing of virulence associated gene (spa) of *S. aureus* isolated from cattle clinical mastitis. *Journal of Entomology and Zoology Studies*. Vol 6(1): 1057-1060.
6. D. Meena, S.K. Sharma, **Diwakar**, Sunita, V.K. Meena and A. K. Kataria (2017). Resistotyping of camel skin wounds associated *Staphylococcus aureus* on the basis of multidrug resistance pattern. *Journal of Camel Practice and Research*. Vol (24)No 1, p 67-71.
7. Akriti, **Diwakar** and A Gaurav (2019). Prevalence and antibiotic resistance pattern of *Staphylococcus aureus* of dairy origin from Udaipur (Rajasthan) region. *Journal of Entomology and Zoology Studies*. Vol 7(4): 1143-1145.

8. **Diwakar**, Akriti, AK Kataria and Sudesh Kumar (2023).Molecular characterization of *Staphylococcus aureus* capsules in Caprine Clinical Mastitis. *The Pharma Innovation Journal* 2023; SP-12(7): 1809-1812.
9. Jorawar Singh, Basant Bais, Rakesh Ranjan, Rajani Joshi, **Diwakar**, Parma Ramand Ajay Sharma (2020). Study of Formulation, Sensory Evaluation and Microbiological Study of Camel and Buffalo Milk based Khoa Burfi Blended with Watermelon Seeds *Int. J. Curr. Microbiol. App. Sci.* Vol 9(5): 1231-1242.
10. A Nirwan, M Shekhawat, D Suthar, **Diwakar** and AK Kataria (2020).The biofilm-forming potential of *Staphylococcus aureus* isolates from various sources using phenotypic and genotypic assays. *Journal of Entomology and Zoology Studies.* Vol. 8(1): 531-535.
11. Sophia Zaidi , Kritika Gahlot , **Diwakar**, Femina Anjum, A. K. Kataria.(2020). Characterisation of *Escherichia coli* Recovered from Wild Animals Kept at Bikaner Zoo for Their Antibiotic Resistance. *Journal of Pharmaceutical Research International*, Vol. 32:1-8.
12. Urmila Pannu, Akriti, Rishi Kumar Pareek and **Diwakar** (2020). Prevalence and antibiotic resistance pattern of *Staphylococcus aureus* in cattle of gaushalas from Bikaner (Rajasthan) region. *Entomology and Zoology Studies.* 8(4): 2177-2179.
13. Taruna Bhati*, Kumar Gaurav, Sunita Choudhary, **Diwakar** and Anil Kumar Kataria (2019). Molecular Detection of Some Virulence Genes of *Staphylococcus aureus* Isolates Associated with Bovine Mastitis in Arid and Semi-Arid Regions of India. *International Journal of Current Microbiology and Applied Sciences.* Vol. 8(11): 2350-2362.
14. Pragya Nathiya*, Kumar Gaurav, **Diwakar**, Sandeep Kumar Sharma and A.K. Kataria(2018).Detection of Phenotypic Variations and Biotypes of *Staphylococcus aureus* Obtained from Cattle Mastitic Milk. *International Journal of Current Microbiology and Applied Sciences* Vol 7(9): 2319-7706.
15. AK Kataria, N Kataria, RK Pareek, Akriti, **Diwakar**, Sunita Choudhary and RN Kumawat (2018). Effect of temperature humidity index on migration of Himalayan griffon (*Gyps himalayensis*) at Jorbeer conservation reserve, Bikaner, India. *Journal of Entomology and Zoology Studies;* 6(5): 747-751.

Popular Articles

1. **Diwakar**, Akriti and Lokendra (2023). Rabies: A Threat to Human and Animal Life.The Science World, July, 2023; 3(07),1503-1505.
2. **Diwakar**, Akriti and Lokendra (2023). Brucellosis: A Re-Emerging Zoonosis. The Science World, July, 2023; 3(07), 1506-1511.

Practical manual

1. Microbiology Manual (Paper-I; Veterinary bacteriology and mycology) according New VCI 2016.
2. Microbiology Manual (Paper-I, veterinary immunology and virology) according New VCI 2016.

Abstracts

1. A.K. Kataria, Sophia Zaidi, Komal Khichar, Neha Panwar, **Diwakar** and Aarti Nirwan (2018). Antibigram of *Escherichia coli* isolated from faeces of different wildlife animals kept at Bikaner zoo. Paper accepted in XIIth Annual Convention of Association of Indian Zoo & Wildlife Veterinarians & National Conference on “Wildlife health management vis-à-vis prospect of mitigation of extrinsic influences impinging their conservation” held during 29th-30th September, 2018, organized by College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar-263145, Uttarakhand. Pp 41.
2. A.K. Kataria, **Diwakar**, R. K. Pareek, Akriti and S. S. Rathore (2018). Antibigram of *Escherichia coli* isolates from faeces of zoo animals. Paper accepted in XIIth Annual Convention of Association of Indian Zoo & Wildlife Veterinarians & National Conference on “Wildlife health management vis-à-vis prospect of mitigation of extrinsic influences impinging their conservation” held during 29th-30th September, 2018, organized by College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar-263145, Uttarakhand. Pp. 42.
3. Komal Khichar, Neha Panwar, Sophia Zaidi, Aarti Nirwan, **Diwakar** and A.K.Kataria (2018). Genotyping of *Escherichia coli* from Black Buck (*Antelope cervicapra*) for shiga toxin gene (*stx2*). Paper accepted in XIIth Annual Convention of Association of Indian Zoo & Wildlife Veterinarians & National Conference on “Wildlife health management vis-à-vis prospect of mitigation of extrinsic influences impinging their conservation” held during 29th-30th September, 2018, organized by College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar-263145, Uttarakhand. Pp. 50.
4. N. Panwar, K. Khichar, S. Zaidi., S. K. Yadav, **Diwakar**, S. S. Rathore* and A. K. Kataria (2018). Detection and characterization of the *hlyA* gene containing *Escherichia coli* using polymerase chain reaction. Paper accepted in XIIth Annual Convention of Association of Indian Zoo & Wildlife Veterinarians & National Conference on “Wildlife health management vis-à-vis prospect of mitigation of extrinsic influences impinging their conservation” held during 29th-30th September, 2018, organized by College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar-263145, Uttarakhand. Pp 51.

5. Sophia Zaidi, A.K.Kataria, **Diwakar**, Kritika Purva and Aarti Nirwan (2018). Antibiotic resistance in faecal *Escherichia coli* isolates from different captive animal species: A phenotypic and genotypic study. Poster presented in International Conference on Future Diagnostic, Therapeutic and Theranostics modalities held during December 29th -31st, 2018 organised by Interdisciplinary biotechnology Unit, faculty of life sciences, Aligarh Muslim university, Aligarh, India. Poster no. 55 page no. 97.
6. Anil Kumar Kataria, **Diwakar**, Kumar Gaurav, Pragya Nathiya and Taruna Bhati. "A comparative study of drug sensitivity pattern of faecal *E. coli* isolates from wild animals of Bikaner zoo and Machia biological park, Jodhpur". VI Annual convention of society for veterinary science & biotechnology and national symposium on "newer concepts and approaches for improvement in animal health and production" 13-14 December 2018.
7. Kumar, G.; Nathiya, P.; Gupta, M.; Yadav, S.K.; **Diwakar**, Bhati, T. And Kataria A.K. (2017). Detection of Shiga toxin gene stx2 in *Escherichia coli* from faecal isolates of zoo animals. Poster presented in International conference of Society of bioinformatics and biological science on "Recent trends in bioinformatics and biotechnology for sustainable development" held during 12-13 Oct. 2017 at Jammu (J & K) organised by Faculty of veterinary sciences and AH, Sher-e-Kashmir Univ. OF Agri. Sciences and Technology of Jammu, R.S. Pura Jammu. Pp75.
8. Nathiya, P.; Kumar, G.; Panwar, N.; Khichar, K.; **Diwakar**, Bhati, T. And Kataria A.K. (2017). Occurrence of haemolysin gene hlyA in *Escherichia coli* isolates from faeces of zoo animals. Poster presented in International conference of Society of bioinformatics and biological science on "Recent trends in bioinformatics and biotechnology for sustainable development" held during 12-13 Oct. 2017 at Jammu (J & K) organised by Faculty of veterinary sciences and AH, Sher-e-Kashmir Univ. OF Agri. Sciences and Technology of Jammu, R.S. Pura Jammu. Pp79.
9. A.K. Kataria, **Diwakar**, Rishi Kumar Pareek, R.N. Kumawat (2018). Gastrointestinal parasitic status in some wild captive animals at Bikaner (Rajasthan) zoo. Paper accepted in XXVII National Congress of Veterinary Parasitology and National Symposium on Technologies for sustainable parasite control and redressal of detection methods directed for upliftment of rural economy held during 12-14 Feb 2018.
10. Sophia Zaidi, **Diwakar**, Kritika Gahlot, S.S. Rathore and A.K. Kataria (2019). Antibiotic Resistance in Bacteria: A global emerging threat to Environment. ICECC-2019 during 21st and 22nd December 2019 organized by SANGAM University, Bhilwara. 181/179.

11. Sophia Zaidi, Diwakar, Kritika Gahlot, S.S. Rathore and A.K. Kataria (2019). Widespread occurrence of bacterial virulence genes in wild captive Environment of Rajasthan 182/179-180.
12. **Diwakar**, S.K. Yadav, Akriti, T. Bhati And A.K. Kataria. Detection Of Hemolysin gene Hly_a in *Escherichia Coli* From Faecal Isolates Of Bikaner Zoo Animals ICECC-2019 during 21st and 22nd December 2019 organized by SANGAM University, Bhilwara. 165/166-167.
13. **Diwakar**, Akriti, Ram kumar, S. K. Yadav, T. Bhati and A.K. Kataria (2019). Bacteriophage use as therapy for various infections. ICECC-2019 during 21st and 22nd December 2019 organized by SANGAM University, Bhilwara. 164/167.
14. S. K. Yadav, **Diwakar**, Akriti and A.K. Kataria (2019). Antibioqram study of *E. coli* isolates obtained from faeces of wild zoo animals: wildlife zoonoses, a threat to public health. ICECC-2019 during 21st and 22nd December 2019 organized by SANGAM University, Bhilwara. 172/173.
15. Akriti, Urmila Pannu, R. K. Pareek, **Diwakar**, Sandip kumar Yadav, and A.K. Kataria (2019), Prevalence of Staphylococcus aureus and MRSA in Bikaner Gaushalas. ICECC-2019 during 21st and 22nd December 2019 organized by SANGAM University, Bhilwara. 162/166.
16. A.K. Kataria, R. K. Pareek, **Diwakar**, Akriti, Urmila Pannu and N. Kataria (2019). Vulture in relation to environmental factors at Jorber conservation reserve, Bikaner, Rajasthan, India. ICECC-2019 during 21st and 22nd December 2019 organized by SANGAM University, Bhilwara. 163/167.

Place: Bikaner

Date: 05 October 2024



Diwakar