

## DR TARUNA BHATI



### 1. Overview:

- ★ Dedicated teacher having more than 10 years of experience of teaching UG, PG and PhD courses of Veterinary Microbiology, Biotechnology and Laboratory Diagnosis
- ★ Devoted scientist with 10 years of experience of research in the field of clinical microbiology and biotechnology
- ★ Excellent communication skills; maintain positive relations with staff and students
- ★ Familiar with Microsoft Word, Microsoft Excel, MS power point, Internet.

### 2. GENERAL INFORMATION:

<b>Full Name</b>	Dr. Taruna Bhati
<b>Father's Name</b>	Col Onkar Singh Bhati
<b>Date of birth</b>	27/09/1976
<b>Bonafide Residence</b>	Rajasthan (India)
<b>Permanent Home Address</b>	Kalasar House, Praudh Shiksha Bhawan Road, Old Ginnani, Bikaner-334001 (Raj)
<b>Designation</b>	Assistant Professor (Stage 2)
<b>Discipline</b>	Veterinary Science
<b>Area of specialization</b>	Veterinary Microbiology (PhD)
<b>Present place of posting with full Official Address.</b>	Department of Veterinary Microbiology, College of Veterinary and Animal Science, Rajasthan University of Animal Science, Bikaner

## II. EDUCATIONAL QUALIFICATIONS

### 2.1 Examinations/Degree

<b>Exam*/Degree</b>	<b>Year</b>	<b>University or Board</b>	<b>% Marks or GPA**</b>	<b>Division or Rank</b>
BVSc & AH	2001	Rajasthan Agricultural University (RAU)	8.45**	I Rank
MVSc	2013	RAJUVAS	8.51**	I Rank
PhD	2019	RAJUVAS	8.58**	I Div

\*\* obtained out of 10

## 2.2 AWARDS AND DISTINCTIONS DURING EDUCATIONAL CAREER

<b>Awarded gold medal for Bachelor Degree</b> of Veterinary Science and Animal Husbandry from RAU, Bikaner, India.
<b>Institutional Fellowship:</b> Master of Veterinary Science (Microbiology): 2011-2013
<b>Awarded gold medal for Masters of Veterinary Science (M.V.Sc.)</b> in Veterinary Microbiology from Rajasthan University of Veterinary and Animal Sciences, Bikaner, India.
<b>National Eligibility Test (NET) for Lectureship-</b> in Veterinary Microbiology-conducted by Agriculture Scientist Recruitment Board, Indian Council of Agriculture Research, New Delhi, qualified in September 2014.
<b>Best poster award in National conference</b> on “Perspectives and challenges towards environmental sustainability” jointly organized by GICES, Sri Ganganagar and SKRAU, Bikaner, Rajasthan.
<b>Received certificate of outstanding contribution</b> by Rajasthan University of Veterinary and Animal Sciences on 15 Aug 2018 for being selected as member in editorial board of Indian Journal of Veterinary and Journal of Immunology and Vaccine Technology.
<b>Awarded Topper Certificate</b> in Applied Environmental Microbiology course in NPTEL online Certificate course exam (MOOC) conducted by IIT,Roorkee and Funded by Ministry of HRD, Govt. of India in 2019
<b>Received certificate of excellence in reviewing</b> by the Journal of advances in Microbiology in 2020 in recognition of <b>an outstanding contribution to the quality of journal.</b>
<b>Received Adarsh Vidya Saraswati Rashtriya Puruskar (National award of excellence 2020) by Global Management council</b>
<b>Received Best Poster award in</b> International Conference on “Current Approaches in Agricultural, Animal Husbandry and Allied Sciences for Successful Entrepreneurship (CAAHASSE-2021)” held on 13-15 March 2021
<b>Received Best Paper award in</b> V th Annual Convention of SVBBI and National Symposium organized by Department of Veterinary Biochemistry, College of Veterinary Science & Animal Husbandry, DUVASU, Mathura on March 24th& 25th 2021
<b>Received Women Scientist award</b> for outstanding contribution in the field of Veterinary Microbiology by Society for Scientific Development in Agriculture and Technology (SSDAT) on the occasion of international web conference on Innovative and Current Advances in Agriculture and Allied Sciences (ICAAAS-2021) during 19–21 July, 2021 in on-line mode at Society Headquarter, Meerut (U.P.) India.
<b>Received certificate of excellence in reviewing</b> by the Microbiology Research Journal International in Aug 2021 in recognition of <b>an outstanding contribution to the quality of journal.</b>
<b>Received certificate of outstanding contribution</b> by Rajasthan University of veterinary and Animal Sciences on 15 Aug 2021 for receiving best poster award in international conference.
<b>Received Excellence in Teaching award</b> for outstanding contribution in the field of Veterinary Microbiology by Society for Scientific Development in Agriculture and Technology (SSDAT) on the occasion of International web conference on Global Research Initiatives for Sustainable Agriculture and Allied Sciences (GRISAAS-2021) during 13–15 Dec, 2021.
<b>Received certificate of excellence in reviewing</b> by the Archives of Current international in October 2022 in recognition of <b>an outstanding contribution to the quality of journal</b>
<b>Received certificate of excellence in reviewing</b> by the South Asian Journal of Research in Microbiology in May 2023 in recognition of <b>an outstanding contribution to the quality of journal</b>

### III. PROFESSIONAL EXPERIENCE

Post with pay scale	Organization	Period	Length	Nature of duties
Veterinary Officer	Department of Animal Husbandry, Government of Rajasthan	18 Jan 2013 to 17 June 2014	1.5 yrs	Extension and Administration
Assistant professor (stage-1) (15600-39100+ 6000)	CVAS, Bikaner RAJUVAS	21 June 2014 to 17 April 2019	5yrs	Teaching Research Extension
Assistant professor (stage-2) (15600-39100+ 7000)	CVAS, Bikaner RAJUVAS	17 April 2019	Continuing	Teaching Research Extension

#### 3.1 NATURE OF EXPERIENCE

##### 3.1.1 Teaching

- A) Experience in teaching veterinary microbiology and animal biotechnology undergraduate courses (both theory and practical).
- B) Teaching post graduate courses of veterinary microbiology and animal biotechnology (both theory and practical).
- C) Teaching PhD courses of veterinary microbiology and animal biotechnology (both theory and practical).
- D) Developed Practical Manuals for Veterinary Systematic Bacteriology and Mycology, and Animal Biotechnology.

##### 3.1.2 RESEARCH

S.No.	Project Title	Capacity in which associated	Funding Agency	Location	Duration
1.	Characterization of <i>Staphylococcus aureus</i> isolated from cattle with subclinical mastitis.	Master's thesis research (self)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2011 -2013
2.	Clonal Association of <i>Staphylococcus aureus</i> Isolates from Milk of Cattle with Clinical Mastitis, Udder Surfaces and Milkers Based on Some Virulence and Antibiotic Resistance Genes	Doctoral thesis research (self)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2015 -2018
3.	Characterisation of <i>Enterococcus species</i> isolated from poultry for some virulence and antibiotic resistance genes	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2018-19
4.	Profiling of some virulence and antibiotic resistance associated genes in <i>Staphylococcus aureus</i> obtained from open wounds in cattle.	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2018-19
5.	Centre for studies on wild life management and health	Principal investigator	State-plan	CVAS, Bikaner	Nov 2018 to Aug 2020

	(CSWMH)				
6.	Evaluation of single and combined effects of antibiotics and some antimicrobial peptides on biofilms of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> isolates.	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2019-2020
7.	Profiling of some virulence and antibiotic resistance associated genes in <i>Escherichia coli</i> isolates from Egyptian vultures ( <i>Neophron Percnopterus</i> ).	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2019-2020
8.	Characterization of <i>Escherichia coli</i> isolates from diarrheic calves	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2020-2021
9.	Characterization of Animal and Human Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) isolates	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2021-2022
10.	Virulence genes and antimicrobial resistance profiles of <i>Staphylococcus aureus</i> isolates from goat meat in Bikaner	Major advisor (MVSc)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	Bikaner	2022-2023

### 3.1.3 RESEARCH REPORTS/PUBLICATIONS

PARTICULARS	NUMBER
<b>Research Paper/Abstracts</b>	<b>43 research papers</b> (list enclosed) <b>69 abstracts</b> (list enclosed)
<b>Master's Thesis supervised as major Advisor</b>	07
<b>Students registered for Master's thesis guidance</b>	02 (At present)
<b>Students registered for Doctoral's thesis guidance</b>	01

**Member of advisory committee of many MVSc and PhD scholars of Department as well as of other departments.**

#### 3.2.1. Membership of Professional Societies:

1. Veterinary Practitioner –Life member
2. Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious diseases (IAVMI) –Life member
3. Indian Association for the Advancement of Veterinary Research (IAAVR)- Life member
4. Indian Veterinary Association (IVA)- Life Member
5. Association of Mastitis- Life member
6. Indian Society for Veterinary Immunology and Biotechnology (ISVIB)- Life member

### 3.2.2. Member of editorial board of Scientific Journals

1. Member of editorial board of Journal of Immunology and Vaccine Technology
2. Member of editorial board of Indian journal of Veterinary
3. Member of editorial board of International Journal of Animal Science and Technology
4. As a reviewer in SciRange publications
5. Member of editorial board of Glacier journal of scientific research

### 3.2.3. Event Organized As Member Of Core Committee

1. **Member of Organizing Committee** : Divisional ASCAD seminar entitled “Recent scientific trends for augmenting health production and reproduction in food animals “ held on 05-06 Feb 2014 at Bikaner.
2. **Member of Organizing Committee** : National Seminar on “Translational Research in Biotechnology for Improving Animal Health and Production” and 3rd Annual Meeting of Society of Veterinary Science and Biotechnology ,Bikaner, RAJUVAS, held on October 7-8, 2015.
3. **As Rapporteur** : in a Technical Session during 5th Annual Convention of Society of Veterinary Biochemists and Biotechnologists of India (SVBBI) and National Symposium on “Current Challenges for Animal Biochemists and Biotechnologists for Improving Animal Health and Production in Post COVID Scenario” organized by Department of Veterinary Biochemistry, College of Veterinary Science and Animal Husbandry, U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura (UP) India on 24th-25th March, 2021.
4. **As co-co-ordinator**: of ASCAD training programme on “ Diagnostic tools for Control, Treatment &Eradication of livestock diseases” for veterinary officers of Animal Husbandry, GoR from 1 to 15 March 2022 at CVAS, Bikaner.
5. **As co-co-ordinator** : of 5 days training programme on “ Diagnosis of Infectious diseases of livestock and poultry during outbreaks” by APEX centre from 22-26 March at CVAS, Bikaner.
6. **As Rapporteur**: in oral session during 22<sup>nd</sup> Indian Veterinary Congress and XXIX Annual Conference of IAAVR and National Symposium on “Advancements in Veterinary Medical Research contributing to “One Health” for betterment of Animal and Public Health and their Welfare” organized by IAAVR at MPUAT, Udaipur during 8-9 April 2022.

## 4. Extension

S.No.	Details of activity	Capacity in which associated	Funding agency	Location	Period From-To	Work Done
1	<b>Radio talks on</b> 1.Rajuvas mei vanya jeev, swasthya evam prabhandan Kendra ka mahtwa 2. Badalte mausam mein pashuon mein hone wale sankramak rog evam upchaar			All India radio station, Bikaner	24/01/2019  03/03/2016	Extension activity
	<b>Short trainings</b>					Extension activity
2.	Wild life rescue, training technique and care	PI, CSWMH	GOR	Organized at CVAS, Navania	3 days (19-21 Dec, 2018)	
3.	Animal Husbandry & Dairy	PI, CSWMH	GOR	Organized at	2 dayas (24 to	

	Development			CVAS, Navania under Van Dhan Yojna	25 Jan 2019)	
4.	वन्यजीवअपराधनियंत्रण	PI, CSWMH	GOR	CVAS, Bikaner	One day workshop on 15 Mar 2019	
5.	वन्यजीव संख्या आकलन	PI, CSWMH	GOR	CVAS, Bikaner	One day workshop on 15 May 2019	
6.	Lecture delivered वन्यजीवअपराधनियंत्रण	PI, CSWMH	GOR	CVAS, Bikaner	One day on 15/03/2019	
7.	Lecture delivered on Biotechnological tools in the diagnosis and control of diseases	As expert in ASCAD training	GOR	CVAS, Bikaner	On 4, 8 and 11 march 2022	Extension activity
8.	Lecture delivered on Bacterial culture and ABST	As expert	HRD, RAJUVAS	CVAS, Bikaner	On 23 march 2022	Extension activity
9.	Lecture delivered on Maldi ToF MS analysis for bacterial identification	As expert	SERB, DST sponsored	NRCC, Bikaner	21 April 2022	Extension activity
10.	Lecture delivered on Biotechnological tools in the diagnosis and control of diseases	As expert in ASCAD training	GOR	CVAS, Bikaner	On 13-17 march 2023	Extension activity
11.	Lecture delivered on Infectious Microorganisms and Animal Feed Safety Challenges	As expert in winter school	ICAR	CVAS, Bikaner	5th - 25th February, 2024	Teaching and Extension activity
12.	Lecture delivered on Antimicrobial Resistance-a Global threat to health	As expert in APEX training	GOR	CVAS, Bikaner	11-13 March 2024	Teaching and Extension activity

### Annexure

#### Research Papers Published (43):

- 1.Sharma S. K., Nathawat P., Bhati T., Mohammed N., Choudhary S., Raj R., Solanki S., Kataria A. K., (2013) Characterization of *Staphylococcus aureus* isolated from nasal discharge from pneumonic camels (*Camelus dromedaries*). ABAH Bioflux 5(1):38-43.
2. S.K. Sharma, A.K. Kataria, B.N. Shringi, P. Nathawat, **T. Bhati** and N. Mohammed (2013) Detection of hypermucoviscous *Klebsiella pneumoniae* in camel (*Camelus dromedaries*) during an outbreak of acute respiratory tract infection. Journal of Camel Practice and Research. Vol 20 (2), p 139-143
3. **Taruna Bhati**, A.K. Kataria, P. Nathawat, S. K. Sharma, N. Mohammed and M. Mathur. (2013) Antimicrobial susceptibility profiling of *Staphylococcus aureus* isolates from bovine subclinical mastitis. Veterinary Research. 6(2);39-42.
4. Nathawat P., **Bhati T.**, Sharma S. K., Mohammed N., Kataria A. K., (2013) Prevalence of *Staphylococcus aureus* in lactating goats with clinical mastitis and their antibiogram studies. ABAH Bioflux 5(1):32-37.
5. N. Kataria, J. Bargujar, P.K. Pilonia, N. Arya, **T. Bhati**, N. Mohammed, P. Nathawat, M. Mathur, S. Choudhary, S. Asopa, Abhimanu and A.K. Kataria, (2013). Evaluation of Stress and Metabolic Adjustments in Buffaloes with Post Parturient Haemoglobinuria. Veterinary Research, 6: 43-47.

6. N. Mohammed, S. Solanki, **T. Bhati**, P. Nathawat, S.K. Sharma, S. Kumar, A. Joshi, P.K. Pilania, L.N. Sankhala, M. Mathur, A. Ahuja, N. Kataria and A.K. Kataria, (2013). Clinico-Physiological Observations and Haematological Profiling of Colicky Equine. *Veterinary Research*, 6: 58-63.
7. N. Mohammed, N.Arya, P. Nathawat, S. K. Sharma, S. Solanki, **T. Bhati**, P.K.Pilania, A. Joshi, L.N. Sankhala, M. Mathur, A. Ahuja, N.Kataria, A.K.Kataria (2013). Blood lactate levels and therapeutic management of equine colic. *Veterinary Research*
8. **Taruna Bhati**, Prerna Nathawat, Irfan Ahmed Mir, Sandeep Kumar Sharma, Rahul Yadav and Anil Kumar Kataria Dec.(2014). PCR-RFLP of *Staphylococcus aureus* Coagulase gene Isolated From Bovine Subclinical Mastitis. *Journal of Pure and Applied microbiology*, Vol 8(6),p-4711-4714.
9. Yadav, R.; Sharma, S. K.; Yadav, J.; **Bhati, T.** And Kataria, A. K. March (2015). Phenotypic and genotypic haemolysin properties of *Staphylococcus aureus* obtained from milk of cattle and buffalo with clinical mastitis. *Journal of Pure and Applied microbiology*. 9 (1): 349-355
10. **T. Bhati**, P. Nathawat and A.K. Kataria. June (2015) Coagulation of Plasmas from Various Species of Animals by *Staphylococcus aureus* of Subclinical Mastitis Origin. *Veterinary Practitioner*, Vol 16(1):92-93.
11. Prerna Nathawat, **Taruna Bhati**, Sandeep Kumar Sharma, Rahul Yadav and Anil Kumar Kataria. June (2015). Characterization of *Staphylococcus aureus* of Goat Mastitis Milk Origin for cap and clfA Genes. *Journal of Pure and Applied microbiology*. Vol. 9(2): 1055-1061.
12. **Bhati T**, Nathawat P, Sharma S K, Yadav R, Bishnoi J, Kataria AK. April (2016) Polymorphism in *spa* gene of *Staphylococcus aureus* from bovine subclinical mastitis, *Veterinary World*, 9(4): 421-424.
13. **Bhati, T.**; Nathawat, P.; Sharma, S. K.; Rathore, P. And Kataria, A. K. July (2016). Cultural, biochemical and haemolytic properties of *Staphylococcus aureus* isolated from cases of subclinical mastitis in cattle. *International Journal of Development Research*, Vol. 06, Issue, 07, 8371-8375.
14. **Taruna Bhati** and A. K. Kataria Aug (2016) A comparative study of somatic cell counts in Milk from cross-bred and rathi cattle with Subclinical mastitis. *International Educational Scientific Research Journal*. Vol.2(8):30-31
15. Rahul Yadav, Kritika Gahlot, Jyotika Yadav, Mukul Purva, **Taruna Bhati**, Anupama Deora, Pankaj Kumar, Sunil Maherchandani and Sudhir K. Kashyap. Dec (2016) Prevalence of thermophilic *Campylobacter jejuni* isolated from Cloacal samples of poultry. *The Haryana Vet*. 55 (2), 195-197
16. S Choudhary, Diwakar, **T Bhati** and AK Kataria. Molecular typing of virulence associated gene (*spa*) of *S. aureus* isolated from cattle clinical mastitis. *Journal of Entomology and Zoology Studies*. 6(1): 1057-1060.
17. 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. *Journal of Entomology and Zoology Studies*. 6(4): 1915-1918.
18. **Taruna Bhati**, Kumar Gaurav, Pragya Nathiya, Sunita Choudhary, Diwakar and Anil Kumar Kataria. Aug (2018). Detection of *icaA* and *icaD* genes for slime production in *Staphylococcus aureus* isolates from bovine mastitic milk, udder surfaces and milkers' hands. *Journal of Entomology and Zoology Studies*. 6(5): 901-905.
19. **Taruna Bhati**, Kumar Gaurav, Vikas Khichar and Anil Kumar Kataria. Oct (2018). Prevalence of *Staphylococcus aureus* Isolated from Mastitic Milk, Udder Surfaces and Milkers' Hands from Different Farms in Bikaner, Rajasthan. *Journal of animal research*. 8(5): 867-872.
20. Kumar Gaurav, Pragya Nathiya, Diwakar, **Taruna Bhati** and Anil Kumar Kataria. April (2019). Detection of Enterotoxin Genes (*seg*, *she* and *sei*) in *Staphylococcus aureus* Milk Isolates from Cow with Subclinical Mastitis. *Journal of animal research*. 9(2): 275-280.
21. Diwakar, Akriti, Sunita Choudhary, Dharendra Meena, **Taruna Bhati** and AK Kataria. June (2019) Antibiotic sensitivity pattern of some *Staphylococcus aureus* isolates from milk from goats with clinical mastitis. *Ruminant science*. 8(1):19-22.
22. **Taruna Bhati** and Anil Kumar Kataria. Nov (2019). Characterization of *Staphylococcus aureus* isolates from mastitic milk, udder surfaces and milkers' hands from arid and semi arid regions of India for capsular (*cap5K* and *cap8K*) and collagen adhesin (*can*) genes. *Indian journal of animal sciences*. 89(11): 1184-1187
23. **Taruna Bhati**, Kumar Gaurav, Sunita Choudhary, Diwakar and Anil Kumar Kataria. Oct (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*. 8(11): 2350-2362.
24. Jyoti Choudhary, Mukul Purva, Mahendra Milind, Kritika Gahlot, **Taruna Bhati**, Sunil Maherchandani Amit Pandey. (2021) Phylogenetic and protein domain architecture analysis of Toll- like receptor4-10 genes in camel (*Camelus dromedarius*). *International Journal of Current Microbiology and Applied Sciences*. 10(01). 2887-2895
25. Veenu Singhal, **Taruna Bhati**, Pankaj Dhakarwal, Sudesh Sharma, Mahaender Milind, B. N. Shringi. (2021) Capsular Typing of *Cap5k* and *Cap8k* Genes in *S. aureus* Isolates from Wound Samples of Cattle. *International Journal of Current Microbiology and Applied Sciences*. 10(02) 122-128
26. Vasundhara Rathore, **Taruna Bhati**, Kritika Gahlot, Femina Anjum, Sophia Zaidi, Mahender Milind lakeshwar and Ak Kataria (2021). Antibiotic resistance pattern in isolates of *Staphylococcus aureus*. *Veterinary Practitioner*, Vol 22(1): 21-22.
27. Vasundhara Rathore, **Taruna Bhati**, Kritika Gahlot, Femina Anjum, Sophia Zaidi, Mahender Milind lakeshwar and Ak Kataria. (2021) Isolation of *Staphylococcus aureus* from inanimate and animate samples. *Veterinary Practitioner*, Vol 23(2): 289-291.

28. Ashok Singh Rathor, **Taruna Bhati**, A. P. Singh (2021). In vitro antibacterial activity of extracts of *Dalbergia sissoo* and *Aegle marmelos* against Enterotoxigenic *Escherichia coli* from calves" is very well written. *The Journal of Phytopharmacology*. Volume 10 (5):289-293.
29. **Taruna Bhati**, Rajesh Chhabra, Rahul Yadav, Gaurav Charaya and Anil Kumar Kataria. (2021). Antimicrobial Resistance Profiling of *Staphylococcus aureus* Isolated From Mastitic Milk Of Bovine And Dairy Environment From Arid And Semiarid Regions Of India. *Ruminant Science*. Vol 10 No 1, p 57-66.
30. Panwar, K., **Bhati, T.**, Ritod, S. , & Shringi, B. N. (2022). Detection of antibiotic resistance in *Escherichia coli* isolates from Egyptian vultures from arid regions of India. *Environment Conservation Journal*. <https://doi.org/10.36953/ECJ.021800-2115>.
31. A.S. Rathor, **Taruna Bhati**, J. P. Kachhawa and A.P. Singh (2022). Therapeutic efficacy of *Dalbergia sissoo* Roxb. and *Aegle marmelos* (L.) Correa. in combination in diarrhoeic calves with altered haematological parameters. *Annals of Phytomedicine* 11(1): 630-637.
32. Sudesh Kumar, Suvidhi , Kritika Dhial , Mahender Milind and **Taruna Bhati** (2022). Occurrence of *E. coli* and associated risk factors in neonatal calf diarrhea from Bikaner. *The Pharma Innovation Journal*. SP-11(6): 1030-1033.
33. Veenu Singhal, Pankaj Dhakarwal, Sudesh Sharma and **Taruna Bhati** (2022). Detection of *hla* and *hly* gene in *Staphylococcus aureus* obtained from open wounds in cattle. *The Pharma Innovation Journal*. 11(6): 2098-2102.
34. Sudesh Sharma, Pankaj Dhakarwal, Veenu Singhal, Surendra, Arpita Sain and **Taruna Bhati** (2022). Prevalence and Antibigram study of *Enterococcus species* isolated from poultry from arid regions of Rajasthan. *The Pharma Innovation Journal*. 11(7): 357-361.
35. Sudesh Kumar; Suvidhi Choudhary; Ram Kumar; Kritika Dhial; Taruna Bhati; Ramesh Kumar Dedar (2022). Determination of inherent antibiotic drug resistance and pathogenic potential of different *E. coli* phylotypes from diarrheic calves in arid and semiarid regions of India. *Tropical Journal of Animal Health*. Preprint published
36. Mahender Miland Lakheshar, **Taruna Bhati**, Sudesh Dedar, Jyoti Chaudhary, Shivali Khandelwal and B.N. Shringi (2022). Phylotyping and serotyping of *Escherichia coli* isolates from poultry faecal samples. *Veterinary Practitioner*, Vol 23(1).
- 37, Sudesh Kumar, Suvidhi, Kritika Dhial, Reshma Dhruw and **Taruna Bhati**. (2022). Prevalence of *E. coli* Serogroups Associated with Neonatal Calf Diarrhea. *Journal of Animal Research*. 12(6):967-971.
38. Rathor A.S., Singh A.P., Bhati Taruna (2022). Isolation and identification of *Escherichia coli* from diarrhoeic calves. *Journal of Immunology and Immunopathology*. 24 (2): 77-81
39. Monika Shekhawat, Aarti Nirwan, **Taruna Bhati**, Jayesh Vyas, B. N. Shringi and A. K. Kataria (2023). Detection of *icaA* and *icaD* genes for biofilm production in *Staphylococcus aureus* isolates from goat mastitis. *The Indian journal of small ruminants*. 29(1):163-166.
40. Monika Shekhawat, Aarti Nirwan \*, Jyoti Choudhary, Jayesh Vyas and **Taruna Bhati** (2023) Antibiotic resistance in staphylococcus aureus isolated from milk of Mastitis affected goats *Indian journal of small ruminants*. 29(2):325-328.
41. Sudesh Kumar, Suvidhi, Kritika Dhial, Reshma Dhruw, Shivali Khandelwal and **Taruna Bhati**. (2023). Determination of Iron acquisition genes in *E. coli* from diarrheic calves in arid regions of India. *Indian Journal of animal health*. 62(1): 59-64. DOI: <https://doi.org/10.36062/ijah.2022.12522>
42. Mahender Miland Lakeshar, Jyoti Chaudhary, Sudesh Kumar, Narasi Ram Gurjar, Prateek Kumar, Taruna Bhati, B.N. Shringi. (2024). Molecular Characterization and Antimicrobial Profiling of *Escherichia coli* isolates from Indian *Camelus* *Indian Journal of Animal Research*. DOI: [10.18805/IJAR.B-5216](https://doi.org/10.18805/IJAR.B-5216).
43. Khushboo Panwar, Esha Sinha, Venu Gorre, Moon Moon Sathpathy, Satyabrata Dutta, Ashish Tanwar, **Taruna Bhati** (2024) Phenotypic characterization of *E. coli* isolates obtained from fecal samples of Egyptian vultures (*Neophron percnopterus*). *Int J Adv Biochem Res*. 8(1S):903-905. DOI: [10.33545/26174693.2024.v8.i1SI.475](https://doi.org/10.33545/26174693.2024.v8.i1SI.475)

#### Abstracts published (69):

1. Irfan Ahmad Mir, S.K. Kashyap, S. Maherchandani, **Taruna Bhati**, Bhagyashree Pareek, Ram Hari Meena and Kanchan Jangir. (2014). "Bacteriology, Total viable count and Antibigram study of most popular street vended Panipuri. International conference on "Challenges and opportunities in animal health at the face of globalization and climate change" held during 30 Oct to Nov 2014 at College of Veterinary Science and Animal Husbandry, DUVASU, Mathura (UP).
2. Rahul Agarwal, S. Maherchandani, Irfan Ahmad Mir, S.K. Kashyap and **Taruna Bhati**. (2014). "Detection of rare strains of *Pseudomonas aeruginosa* encoding both Exo S and Exo U genes of type III secretion system". International conference on "Challenges and opportunities in animal health at the face of globalization and climate change" held during 30 Oct to Nov 2014 at College of Veterinary Science and Animal Husbandry, DUVASU, Mathura (UP).
3. **Taruna Bhati** , Anil Kumar Kataria and Purna Nathawat. (2015) "Polymorphism in *coa* and *spa* genes of *Staphylococcus aureus* from subclinical mastitis in cattle" National Seminar on "Translational Research in Biotechnology for Improving Animal Health and Production" and 3<sup>rd</sup> Annual Meeting of Society of Veterinary Science and Biotechnology ,Bikaner, RAJUVAS.



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### Popular Articles

S. No.	Title of the popular article	Name of authors	Year of publication	Name of newsletter
1.	Pashuon mein Milk Fever rog ke karan aur bachne ke upay	Dr. Nazeer Mohammed, Dr. Prerna Nathawat, <b>Dr. Taruna Bhati</b> , and Dr (Prof) A. K. Kataria	June 2014.	PashuPalan Naye Aayam
2.	Pashuon mein bhi antibiotic	Dr. Taruna Bhati	May 2017.	PashuPalan Naye Aayam,

	sanvedansheelta parikshan jaroori			
3.	HaemorrhagicSepticaemia in Livestock	Sunita Choudhary <sup>1</sup> , Subha Ganguly <sup>2*</sup> and <b>Taruna Bhati</b>	Oct 2018	Livestock line
4.	Vanya jeev ganana	Dr. Taruna Bhati	June 2019.	PashuPalan Naye Aayam
5.	Bovine mastitis and <i>Staphylococcus aureus</i> : a major problem in dairy	Dr. Taruna Bhati	March 2021	Pashudhan Prahree
6.	MALDI-TOF MS: A Rapid Way to Identify Bacteria”	Sudesh Kumar*, Kritika Dhial, <b>Taruna Bhati</b>	June-2021	The Science World 1(2): 53-55.
7.	Wildlife: Understanding the Tracks and Signs	Sudesh Kumar*, Kritika Dhial, <b>Taruna Bhati</b>	July 2021	The Science World 1(3): 65-70
8.	DNA Microarray: Gene Expression and Analysis Technology	Sudesh Kumar*, Kritika Dhial, <b>Taruna Bhati</b>	Oct 2021	The Science World 1(6): 24-29
9.	Sahiwal cattle: Pride of the Indigenous Cattle Breed	Sudesh Kumar*, Suvidhi, Upender and <b>Taruna Bhati</b>	July 2022	The Science World 2(7):
10	Rapid and emerging technology for antibiotic susceptibility testing	Sudesh Kumar*, Suvidhi, Upender and <b>Taruna Bhati</b>	Aug 2022	The Science World 2(8): 1478-1481
11	Anitibiotic resistance breakers: Can we reverse antibiotic resistance?	Suvidhi, Sudesh Kumar, <b>Taruna Bhati</b> , Nasrul I. Shaikh	Dec 2022	The Science World 2(12): 2228-2231
12.	Antibiotic free strategies: Revolutionizing Poultry Farming for health and sustainability	Sudesh Kumar*, Suvidhi, Anil choudhary and <b>Taruna Bhati</b>	April 2024	Pashudhan Prahree

S.No.	Teaching / training Manuals
1.	Laboratory Practical Manual of Systematic Veterinary Bacteriology and Mycology (course no. VMC-311, III year B.V.Sc A.H.)
2.	Veterinary Microbiology Paper-I Practical manual for II year BVSc &AH MSVE 2016
3.	Veterinary Microbiology Paper-II Practical manual for II year BVSc &AH MSVE 2016
4.	Training manual on “Diagnostic tools for Control, Treatment &Eradication of livestock diseases” under ASCAD programme for veterinary officers of Animal Husbandry, GoR from 1 to 15 March 2022 at CVAS, Bikaner.
5.	Training manual on “ Diagnosis of Infectious diseases of livestock and Poultry during outbreaks” by APEX centre

#### Book chapters:

1. “Subclinical mastitis” by Taruna Bhati in the edited book titled "Recent Research Trends in Veterinary Sciences and Animal Husbandry (Volume - 10)". **2021**. AkiNik Publications, Printing Press License No.: F.1 (A-4) press 2016
2. "New Era: Transforming Animal Health with Artificial Intelligence in Veterinary Science" by Sudesh Kumar, Suvidhi, Taruna Bhati and Rajesh Kumar Vaid in the edited book titled “Advances in Veterinary Sciences (Volume - 17)" **2023** . AkiNik Publications, Printing Press License No.: F.1 (A-4) press 2016.
3. Taruna Bhati, Sudesh Kumar, Shivali Khandelwal and Reshma Dhruw (2024). Chapter on “Bacteriophages: complementary therapy in antimicrobial resistant bacterial strains” accepted for publication in edited book titled” Futuristic Trends in Agriculture Engineering & Food Sciences” Volume 3e-ISBN: 978-93-5747-435-1IIP Series, Volume 3, Book 21, Part 2, Chapter 5.
4. Overview of Antimicrobial resistance by Rajesh Singathia, Deepak Kumar Sharma, Ram Kumar, **Taruna Bhati**, Rakesh Kumar Khinchi and B. N Shringi. (2024) in the edited book “ Realization of One Health Concept through New Age Research Technologies” published by IAVMI.

**Book: as Editor in chief of the book “ Exploring Veterinary Science: Insights and Innovations Volume 1.0.” ISBN : 978-93-6431-284-4 ; 2024**

**Participation in training/ seminar/ symposium/conference etc**

<b>S. No.</b>	<b>Details of conference/ symposium/ seminar/workshop/training</b>	<b>Dates and Duration</b>	<b>Place and Host institute</b>	<b>Year of event</b>
1	International congress of canine practice on “Modern concepts of canine health and diseases of human concern”.	09-11 Feb (03 days)	Indian society for advancement of canine practice and College of Veterinary and Animal Science, RAJUVAS, Bikaner	2012
2	National seminar on “Formulation of strategies for disaster management technology for animals”.	21-22 March (02 days)	College of Veterinary and Animal Science, RAJUVAS, Bikaner	2013
3.	International symposium on “Latest trends in Immuno-diagnosis, Immunopathology and Immunomodulation”	22-24 Dec (03 days)	Society for Immunology and Immunopathology and College of Veterinary and Animal Science, RAJUVAS, Bikaner	2013
4	Divisional ASCAD seminar entitled “Recent scientific trends for augmenting health production and reproduction in food animals “	05-06 Feb (02 days)	Animal husbandry department, GOR	2014
5	International Symposium on New Horizons of Camel surgery and Large Ruminant Surgery	15 -17 Oct (03 days)	Indian Society for Veterinary Surgery and College of Veterinary and Animal Science, RAJUVAS, Bikaner	2014
6.	National Conference on Disaster Management in Animals “A Renewed Approach and Future Vision”	20 <sup>th</sup> February	College of Veterinary and Animal Science, RAJUVAS, Bikaner	2015
7	National Seminar on “Translational Research in Biotechnology for Improving Animal Health and Production”	7-8, Oct (02 days)	Society of Veterinary Science and Biotechnology, Bikaner, RAJUVAS	2015
8	National Conference on “Perspectives and Challenges towards Environmental Sustainability.	11-13, Dec (03 days)	GICES, SriGanganagar and Swami Keshvanand Rajasthan Agriculture University, Bikaner	2015.
9	National workshop on “5F and hydroponics towards sustainable development of farmers”	28 Feb	Livestock feed resource management and technology centre, Bikaner and Ayurvet limited, Delhi.	2016
10	National conference on New horizons of Veterinary and Medical Forensic Medicine	5-6 March (02 days)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	2016
11	Winter school on Conservation and Promotion of Indigenous Breeds of Livestock	Oct 30 to 19 Nov (21 days)	ICAR sponsored and organized by Department of Livestock Production Management,	2017

			college of Veterinary and Animal Science, Bikaner, RAJUVAS	
12	National symposium on “Sustainable Management of Livestock and Poultry Diversity for enhancing the farmers income”	8-10 Feb, (03 days)	Society for conservation of domestic animal diversity, NBAGR, Karnal and College of Veterinary and Animal Science, RAJUVAS, Bikaner	2018
13	37 <sup>th</sup> Annual Convention and National symposium on “Holistic approach in Veterinary Medicine for better animal health to meet challenges of one health mission	1-3 Feb, (03 days)	College of Veterinary and Animal Science, RAJUVAS, Bikaner.	2019
14	Orientation training Programme on “Teaching Methodology”	28 March to 17 April (21days)	Organized by Directorate of Extension Education, RAJUVAS, Bikaner.	2019
15.	National Webinar on Strategy for Strengthening Agricultural Education under Changing Scenario of COVID-19.	26-27 June (02 days)	SKRAU, Bikaner	2020
16.	National webinar on “Modern Genetic approaches for improvement of Indigenous Cattle”	29 Jul	Department of Animal Genetics and Breeding, College of Veterinary Science & Animal Husbandry, DUVASU, Mathura	2020
17.	International webinar on Causes of Elephant Calf mortality	12 Aug	Maharashtra Animal & Fishery Science University, Nagpur on.	2020
18.	National webinar on Animal Production medicine in Anthropocene Epoch	13 Aug	IVPM and Intas	2020
19.	Webinar on “Metabolic diseases of importance in dairy animals”	27 <sup>th</sup> Aug	Veterinary Internal and Preventive Medicine Society (VIPM) along with Knowledge partner Intas Animal Health	2020
20.	National webinar on Microbiome, Immunity and vaccines	30 Aug	IAVMI	2020
21.	Webinar on Antimicrobial resistance re-visited conducted	08 Sept	Jointly organized by DUVASU, Mathura, and Brooke hospital for animals.	2020
22.	National Webinar on One health: A pragmatic solution to emerging and re-emerging zoonoses	24 Sept	DUVASU, Mathura.	2020
23.	National webinar on advancements in Veterinary Diagnostics: A Journey in Veterinary Pathology	14 Oct	IAVP and RAJUVAS.	2020



24.	Webinar on Unscrupulous use of Antibiotics in the Management of Mastitis- A serious cause of Antibiotic Resistance	29 Nov	IVA	2020.
25.	Ist National conference on Biotechnology on A key link to the research on the prevention of zoonotic diseases	25 Feb	Heart care foundation of India and GLA University, Mathura	2021
26.	International Conference on “Current Approaches in Agricultural, Animal Husbandry and Allied Sciences for Successful Entrepreneurship (CAAHASSE-2021)”	13-15 March (03 days)	Agro Environmental Development Society(AEDS), Rampur, U.P.	2021
27.	V th Annual Convention of SVBBI and National Symposium on “Current Challenges for Animal Biochemists and Biotechnologists for Improving Animal Health and Production”	24-25 March, (03 days)	Department of Veterinary Biochemistry, College of Veterinary Science & Animal Husbandry, DUVASU, Mathura	2021
28.	International web conference on Innovative and Current Advances in Agriculture and Allied Sciences (ICAAAS-2021)	19–21 July (03 days)	Society for scientific development in agriculture and technology, Meerut, UP.	2021
29.	Training on “Concepts and applications of Pharmacology for meeting challenges of One Health in 21 <sup>st</sup> Century” from virtual mode	12 <sup>th</sup> July to 1 <sup>st</sup> August (21days)	Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & Animal Husbandry, Jabalpur, Nanaji Deshmukh Veterinary Science University, Jabalpur (M.P.)	2021
30.	Training entitled “Recent Advances in Disease Diagnosis and Vaccines”	27 <sup>th</sup> July to 16 <sup>th</sup> August (21days)	Department of Veterinary Microbiology, College of Veterinary Science & A.H., N.D.V.S.U., Jabalpur(M.P.).	2021
31.	Training cum orientation programme on “ Immunology- A tool for disease management”	11 <sup>th</sup> Oct to 31 <sup>st</sup> Oct 2021 (21days)	Department of Veterinary Microbiology, College of Veterinary Science & A.H., Mhow, N.D.V.S.U., Jabalpur(M.P.).	2021
32.	Live webinar on Understanding Principles of Fluid Therapy in animals	21 Jan 2022	Alembic Pharmaceuticals Ltd	2022
33.	MOOC on <b>Digital Teaching Techniques</b>	December 1 – 31, 2021(30 days)	ICAR-NAARM, Hyderabad	2021
34.	Workshop on “Genome Analysis Methods for Molecular Genetic	09-10, March 2022.	ICAR-NRCC, Bikaner	2022

	Studies and Disease Diagnosis”			
35.	22nd Indian Veterinary Congress and XXIX Annual Conference of IAAVR and National Symposium on “Advancements in Veterinary Medical Research contributing to “One Health” for betterment of Animal and Public Health and their Welfare”	8-9 April 2022.	IAAVR at MPUAT, Udaipur	2022
36	23rd Annual conference of Indian society of Veterinary Pharmacology and Toxicology and National Symposia on Integrated Animal health Care system: Opportunities and challenges and exploring new avenues for Pharmacologists and toxicologists from employability perspective	02 Nov to 04 Nov 2023.	CVAS, Rajuvas, Bikaner	2023
37	10 days workshop on Recent developments in livestock phenome data recording, analysis and interpretation in the era of genomics Training Program at ICAR NRCC, Bikaner	03 Jan to 12 Jan 2024 (10 days)	ICAR-NRCC, Bikaner	2024
38	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	15th to 25th April, 2024 (08 days)	<i>MMTC of Shri Lal Bahadur Shastri National Sanskrit University (Central University), New Delhi .</i>	2024