

Research:

1. List of Research Projects: Completed & Ongoing

Sr. No.	Title of the Project	Name of PI/ Major Advisor/ Research Worker	Funding Agency	Total Cost of the project (Rs in Lakh)	Extra-mural (Funding agency)/ Intra-mural	Status (Completed/Ongoing)	Duration
1	Surveillance of antimicrobial resistance at animal human interface in the context of one health	Dr. RP. Kolhe-PI Dr. V.S. Waskar - CoPI	ICMR New Delhi	58.18	Extra-mural	Ongoing	3 years
2	Metagenomic Analysis of Microbial Diversity for Assessment of Foodborne Pathogens in Retail Chevron & Mutton	Dr. C.D. Bhong	MAFSU RG	2.00	University	Ongoing	1 year

2. List of Private Agency Projects:

Sr. No.	Title of the Project	Name of PI/ Major Advisor/ Research Worker	Funding Agency	Total Cost of the project (Rs in Lakh)	Extra-mural (Funding agency)/ Intra-mural	Status (Completed/Ongoing)	Duration
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3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Surveillance of priority diseases of livestock and poultry, including zoonoses	Estimating the disease burden and characterizing zoonotic agents	To study the disease prevalence and find out risk factors	Health and wellbeing
2	Antimicrobial resistance	To monitor AMR traits in indicator bacteria	To study the genomic AMR pattern	AMR advocacy and judicious use of antibiotics

4. Thesis:

Master:

Name of Department: Veterinary Public Health & Epidemiology				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Bandu Godase	Molecular characterization of Escherichia coli isolated from foods, water, animals and humans	2011	Dr. P.D. Deshpande
	Anuradha Aradhya	Molecular studies on presence of virulent and drug resistant genes in E. coli isolated from beef cattle	2012	Dr. P.D. Deshpande
	Shivaji Lokhande	Studies on pathogenic E. coli as a cause of childhood diarrhea	2012	Dr. P.D. Deshpande
	Avinash Nagargoje	Molecular studies on virulence and antibiotic resistant genes in Salmonella spp. isolated from fresh chicken meat	2013	Dr. P.D. Deshpande
	Pratibha Kore	Characterization of Aeromonas species isolated from fresh chicken meat	2014	Dr. P.D. Deshpande
	Chandrakant Dhandore	Occurrence of vibrio species in seafoods and fresh water fishes	2014	Dr. R.P. Kolhe
	Urmila Jagtap	Isolation and characterization of Listeria monocytogenes from peridomestic birds and captive wild animals	2014	Dr. R.P. Kolhe
	Saba Nalband	Isolation and characterization of Listeria monocytogenes from peridomestic birds and captive wild animals	2015	Dr. R.P. Kolhe
	Dattatray Gandhale	Molecular types and antimicrobial resistance profiles of S. aureus from bovine mastitis	2015	Dr. R.P. Kolhe
	Sujata Bhawe	Detection of extraintestinal and diarrheagenic E coli in raw chicken and poultry feces	2016	Dr. R.P. Kolhe
	Ranjan M		2017	Dr. R.P. Kolhe
	Bhawana Wadaskar	Detection of colistin resistance in Escherichia coli and Salmonella species isolated from flies trapped at farm premises of food animals and poultry	2019	Dr. R.P. Kolhe
	Pratik Deshpande	Identification and antimicrobial resistance of Campylobacter species from poultry	2020	Dr. C.D. Bhong
	Kishor Kshirsagar	Isolation and characterization of S. aureus from broiler integration chain	2020	Dr. C.D. Bhong
	Rahul Gondake	Characterization of diarrheagenic E. coli isolated from incaptive wild animals for ESBL production, phylogrouping and virulence traits	2021	Dr. R.P. Kolhe
	Shreyash Jaiswal	Characterization of Salmonella isolated from incaptive wild animals for virulence and antimicrobial resistance	2021	Dr. V.S. Waskar
	Chinar Tekchandani	Development of android based mobile application and website on canine and feline zoonoses in the context of one health	2022	Dr. V.S. Waskar

	Amruta Doiphode	Antimicrobial resistance pattern of <i>S. aureus</i> isolated from raw milk and chicken	2022	Dr. V.S. Waskar
	Ganesh Hinge	Analysis of <i>S. aureus</i> and <i>Enterococcus</i> spp. isolated from dairy farms for antimicrobial resistance	2023	Dr. V.S. Waskar
	Snehal Sudrik	Prevalence, virulence characteristics and antibiogram profile of <i>Escherichia coli</i> and <i>Salmonella</i> isolates from dairy farms	2023	Dr. R.P. Kolhe
	Shilpa Shisode	Antimicrobial resistance traits in selected foodborne bacteria recovered from chicken and eggs	2024	Dr. R.P. Kolhe
	Sneha Kale	Antimicrobial and virulence profile of selected foodborne bacteria isolated from chevon and mutton	2024	Dr. C.D. Bhong
	Vaibhav Gajre	Detection of antimicrobial resistance genes in indicator organisms isolated from animals and associated environment	2025	Dr. V.S. Waskar
	Namrata Mohare	Detection of carbapenem resistance and distinct pulsotypes in selected foodborne pathogens	2025	Dr. R.P. Kolhe

Doctoral:

Name of Department:				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor

5. Research Papers Published:
List of Research Publications:

Sr. No.	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAA S Rating, if any
1	S.S. Teltumbade, A.T. Sherikar, V.S. Waskar & A.A. Sherikar	1994	Studies on detection of residual penicillins in meat employing <i>Bacillus stearothermophilus</i> disc assay.	Indian J. Anim. Sci.	Vol. 64 (7) 774-777	6.23
2	P.D. Borse, A.T. Sherikar, V.S. Waskar & A.M. Paturkar	1998	Microbiological analysis of carcass sites in sheep slaughterline at Deonar abattoir.	1998 Indian Vet. J.	Vol. 75 141-143	4.42
3	V.S. Waskar, A.T. Sherikar, H.V. Murugkar & A.M. Paturkar	1998	Microbiological profile of raw, semi-processed pork products and ingredients used in manufacture of	Indian J. Comp. Microbiol. Immunol. Infect. Dis.	Vol. 18, 118-120	4.49

			processed pork products.			
4	M.R. Bhide, A.M. Paturkar, A.T. Sherikar & V.S. Waskar	200 1	Presensitization of microorganisms by acid treatments to gamma irradiation with special reference to <i>B. cereus</i> .	Meat Science	Vol. 58 253-258	9.48
5	S.D. Sontakke, S.B. Majee, A.T. Sherikar, V.S. Waskar, A.A. Sherikar & N. Sambasivan	200 1	Effect of gamma irradiation and organic acids on Foot-and-mouth disease virus in buffalo meat	Indian J. Comp. Microbiol. Immunol. Infect. Dis.	Vol. 22 (1), 33-35	4.49
6	N.A. Shaikh, U.K.Chattopadhyay A.T. Sherikar, V.S. Waskar, A.M. Paturkar, C. Latha & N.S. Pathare	200 3	Chemical sprays as a method for improvement of microbiological quality and shelf life of fresh sheep and goat meats during refrigeration storage (5-7°C).	Meat Science	Vol. 63 339-344	9.48
7	Z.B. Dubal, A.M. Paturkar, V.S. Waskar, R.J. Zende, C. Latha & D.B. Rawool	200 4	Effect of food grade organic acids on inoculated <i>S.aureus</i> , <i>L.monocytogenes</i> , <i>E.coli</i> and <i>S.Typhimurium</i> in sheep/goat meat stored at refrigeration temperature.	<i>Meat Science</i>	Vol. 66 817-821	9.48
8	A.B. Kadam, V.S. Waskar, A.M. Paturkar & R.J. Zende	200 5	Bacteriological assessment of pig carcass sites during the slaughtering process.	Indian J. Anim. Sci.	Vol. 75 (2) 149-258	6.23
9	A.T. Sherikar & V.S. Waskar	200 5	Emerging zoonoses and social-economic impact in India – A review. (Invited review article)	Indian J. Anim. Sci.	Vol. 75 (6) 700-705.	6.23
10	A.M. Paturkar, V.S. Waskar, K.V. Mokal & R.J. Zende	200 5	Antimicrobial drug residues in meat and their public health significance – a review. (Invited review article)	Indian J. Anim. Sci.	Vol. 75 (9) 1103-1111	6.23
11	S.G. Bhandare, A.T. Sherikar, A.M. Paturkar, V.S. Waskar & R.J. Zende	200 7	A comparison of microbial contamination on sheep/goat carcasses in a modern Indian	Food Control	Vol. 18 (7) 854-858	10.25

			abattoir and traditional meat shops.			
12	C. Latha, A.T. Sherikar, V.S. Waskar, Z.B. Dubal & S.N. Ahmed	2009	Sanitizing effect of salts on experimentally inoculated organisms on pork carcasses.	Meat Science	Vol. 83 (4) 796-799	9.48
13	Waskar, V.S., Devangare, A.A. Gosavi, P.P., Ravikanth, K., Maini, S. and Rekhe, D.S	2009	Meat quality attributes of broilers supplemented with herbal toxin binder product.	Veterinary World	Vol. 2 (7) 274-277	5.71
14	V.J. Jadhav and V.S. Waskar	2011	Public health implications of pesticide residues in meat. (Review article)	Veterinary World	Vol. 4 (4) 178-182	5.71
15	Sukhdeo B Barbuddhe, Swapnil P Doijad, Alexander Goesmann, Rolf Hilker, Krupali V Poharkar, Deepak B Rawool, Nitin V Kurkure Dewanand R Kalorey, Satyaveer S Malik, Ingudam Shakuntala, Sandeep Chaudhari, Vikas Waskar, Dilecta D'Costa, Rahul Kolhe, Ritu Arora, et al.	2016	Presence of widely disseminated <i>Listeria monocytogenes</i> serotype 4b clone in India.	Emerging Microbes and Infections	5, e55, doi:10.1038/emi.2016.55	12.21
16	Bhavna Wadaskar, Rahul Kolhe, Vikas Waskar, Mrunalini Budhe, Krishnendu Kundu and Sandip Chaudhari	2021	Detection of antimicrobial resistance in <i>Escherichia coli</i> and <i>Salmonella</i> isolated from flies trapped at animal and poultry farm premises.	Journal of Anim. Res.	2021 Vol. 11 (3) 341-350	5.53
17	R.P. Kolhe, V.S. Waskar &	2022	Antimicrobial resistance pattern of	Asian Journal of	2022	5.75

	P.V. Mehere		<i>Salmonella</i> species recovered from livestock and poultry.	Dairy & Food Research	DOI: 10.18805/ajdfr.D R-1927	
18	Chinar Tekchandani, Rahul Kolhe, Vikas Waskar, Smita Kolhe, Mrunalini Budhe, Tejas Shende and Chandrashekhar Mote	2023	Evaluation of awareness, risk factors and practices followed by pet parents and veterinarians about pet zoonoses	Haryana Vet.	2023 62(SI) 5-9	5.58
19	Mahesh Dhangar, Smita Kolhe, Vikas Waskar, Ajay Khanvilkar, Gokul sonawane and Rahul Kolhe	2023	Assessment of dairy farmer's knowledge, attitude and practices on antibiotics and antimicrobial resistance.	Haryana Vet.	2023 62(SI-2) 6-11	5.58
20	SM Nalband, RP Kolhe , PD Deshpande, SN Jadhav, DG Gandhale, DM Muglikar, SR Kolhe, SS Bhavne, UV Jagtap, CV Dhandore	2020	Characterization of <i>Escherichia coli</i> isolated from bovine subclinical mastitis for virulence genes, phylogenetic groups and ESBL production.	Indian Journal of Animal Research,	54 (10): 1265-1271.	6.44
21	Sujata Bhavne, Rahul Kolhe, Ranjan Mahadevaswamy, Chandrakant Bhong, Samir Jadhav, Saba Nalband, Dattatray Gandhale, Dushyant	2019	Phylogrouping and antimicrobial resistance analysis of extraintestinal pathogenic <i>Escherichia coli</i> isolated from poultry species.	Turkish Journal of Veterinary and Animal Sciences,	43 (1): 117-126.	6.68
22	Dattatray Gandhale, Rahul Kolhe, Saba Nalband, Padmakar Deshpande, Urmila Jagtap, Chandrakant Dhandore, Sujata Bhavne,	2017	Molecular types and antimicrobial resistance profile of <i>Staphylococcus aureus</i> isolated from dairy cows and farm environments.	Turkish Journal of Veterinary and Animal Sciences,	41(6): 713-724.	6.68

	Sameer Jadhav, Dushyant Muglikar, Smita Kolhe					
23	Amruta Nair, Deepak B Rawool, Swapnil Doijad, Krupali Poharkar, Vysakh Mohan, Sukhadeo B Barbuddhe, Rahul Kolhe, Nitin V Kurkure, Ashok Kumar, SVS Malik, T Balasaravanan	201 5	Biofilm formation and genetic diversity of Salmonella isolates recovered from clinical, food, poultry and environmental sources,	Infection, Genetics and Evolution ,	36: 424-433.	9.34
24	UV Jagtap, RP Kolhe, PD Deshpande, NV Kurkure, CV Dhandore, DM Muglikar, SN Jadhav, NK Nighot, SB Barbuddhe	201 7	Isolation of Listeria monocytogenes from peridomestic birds and captive wild animals	Current Science	11(10):1783- 1787	6.9
25	Zunjar Baburao Dubal, Kiran N Bhilegaonkar, Sukhadeo B Barbuddhe, Rahul P Kolhe, Simranpreet Kaur, Shriya Rawat, Prejit Nambiar, Muthu Karunakaran	201 3	<u>Prevalence and genotypic (G and P) determination of porcine group A rotaviruses from different regions of India</u>	Tropical animal health and production	45:609-615	7.91
26	RP Kolhe, KN Bhilegaonkar, ZB Dubbal, Simranpreet Kaur, Samir Das, RK Agarwal	201 5	<u>Indirect ELISA for serosurveillance of Japanese encephalitis in pigs</u>	Indian Journal of Animal Research	49 (3):343-349	6.44
27	Tejashree Kulkarni, Mrunalini Pawade, Uma Tumlam, Rahul Kolhe, Prajwalini Mehere, Dushyant Muglikar, Prashant	202 4	<u>Detection and molecular characterization of VP1 gene of chicken infectious anaemia virus in suspected layer birds</u>	Indian Journal of Animal Research	58 (6): 1022-1026	6.44

	Mhase, Sunil Kapgate					
28	SNEHAL SUDRIK, RAHUL KOLHE, CHANDRAKANT BHONG, TEJAS SHENDE, SAMEER JADHAV, PRASHANT MHASE, VIKAS WASKAR, GANESH HINGE, SNEHAL GADHAVE	202 4	<u>Detection of virulent and ESBL-resistant Salmonella species from cattle and associated farm environment</u>	The Indian Journal of Animal Sciences	94(10):831-836	6.20
29	MD Ramteke, PP Mhase, DM Muglikar, MS Budhe, UM Tumlam, RP Kolhe, SN Jadhav, PD Pawar, LD Singla	202 4	<u>Efficacy of Green Silver Nanoparticles (GAbNPs) against Multidrug Resistance in Staphylococcus aureus from Mastitis-infected Cows</u>	Indian Journal of Animal Research	B5207	6.40
30	Shadma Fatima, CD Bhong, DN Rank, CG Joshi	200 8	<u>Genetic variability and bottleneck studies in Zalawadi, Gohilwadi and Surti goat breeds of Gujarat (India) using microsatellites</u>	Small Ruminant Research	77 (1): 58-64	6.6
31	MV Chaudhari, SNS Parmar, CG Joshi, CD Bhong, Shadma Fatima, MS Thakur, SS Thakur	200 9	<u>Molecular characterization of Kenkatha and Gaolao (Bos indicus) cattle breeds using microsatellite markers</u>	Animal biodiversity and conservatio n	32 (2):71-76	6.4
32	J.B. Nayak, M.N. Brahmbhatt, C.V. Savalia, C.D. Bhong, A. Roy, I.H. Kalyani and B.C. Parmar	201 0	DETECTION AND CHARACTERIZATI ON OF LISTERIA SPECIES FROM BUFFALO MEAT	Buffalo Bulletin	Vol.29 No.2:83- 94	6.5
33	Tejas M Shah, Jaina S Patel, Chandrakant D Bhong, Aakash Doiphode, Uday D Umrikar, Shivnandan S Parmar, Dharamshibhai N Rank, Jitendra V Solanki, Chaitanya G Joshi	201 3	<u>Evaluation of genetic diversity and population structure of west-central Indian cattle breeds</u>	Animal Genetics	44(4):442-445	8.62
34	Rakesh Ranjan, Chandrakant D Bhong, Khagol N Chavan, SNS	201 1	<u>Polymorphism in 3'UTR region of Slc11a1 gene in Indian breeds of cattle</u>	Vet. Arhiv	81:349-357	6.4

	Parmar, Chaitanya G Joshi					
35	Vishal Bhagat, Chandrakant Bhong, Bapurao Khillare, Nitin Jadhav, Mahima Narawade, Gajendra Khandekar, Shahir Gaikwad, Baliram Katkade, Anil Kumar Sharma, Gajanan Chigure	2024	<u>Prevalence status and detection of benzimidazole resistance using AS-PCR in Haemonchus contortus of goats from Marathwada region, Maharashtra, India</u>	Veterinary Parasitology: Regional Studies and Reports	55:101119	7.5
36	CV Jawale, Nadeem Shabir, CD Bhong, AK Tripathi, Patel Hiren, DN Rank, CG Joshi	2014	<u>Characterization of SNPs in Oxidised Low Density Lipoprotein Receptor 1 (OLR1) gene in Mehsana and Banni breeds of buffalo.</u>	Biomedical Research	25(3):303-306	

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1	RP Kolhe, VS Waskar	2022	Swatchh aani nirbhel dudh utpadanache tantra	Purva Krushidoot	49-51
2	RP Kolhe, VS Waskar, SR Kolhe	2022	Brucellosis	Purva Krushidoot	43-45
3	RP Kolhe, VS Wasakr	2021	Rabies pasun asa kara bachav	Purva Krushidoot	52-54
4	VS Waskar, RP Kolhe, CD Bhong	2024	Kalajipurvak kara pratijaivikancha vapar	Agroone	12
5	SR Kolhe, RP Kolhe	2023	Zoonotic aajar aani upayyojna	Poorva Krushiddot	48
6	SR Kolhe, RP Kolhe	2023	Dudhal janavarannadhill rogprasar aani upayyojana	Poorva Krushiddot	48

6. Research Recommendations

Sr. No.	5
Year	2022-23
Project Title	Development of android based mobile application and website on canine and feline zoonoses in the context of one health
Investigators	CK Tekchandani, RP Kolhe, VS Waskar, CS Mote, MS Budhe, SR Kolhe

Recommendations	To create awareness among pet owners of dog and cat on associated zoonotic diseases, it is recommended to use Pet zoonoses mobile app and website www.petzoonoses.in developed by college
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7. MOU signed by the Colleges

Sr. No.	MOUS Between	Date of signing	Place	Duration
	Party – 1 & Party - II			

8. Research Priorities / Thematic areas: Department Wise
Surveillance of livestock and poultry diseases including zoonoses
Antimicrobial resistance

9. **Significant Research Achievement:**

Sr. No.	Achievements	Description
1	Patents Awarded	Nil
2	Breed Registration	Nil
3	IPR	Nil
4	Copyright	Nil
5	Trademark	Nil