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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	Pharmacokinetics of selected drugs in buffaloes	Dr. M. M. Gatne	ICAR		Extramural		1998-2001
2	Establishment of Indigenous drug research Unit	Dr. M. M. Gatne	ICAR		Extramural		1998-2001
3	Acute and subacute toxicity studies of some Bhasmas (co-investigator)	Dr. M. M. Gatne	CCRA S		Extramural		2006-2007
4	Testing efficacy of antidandruff formulation in dogs		CCRA S		Extramural		2008-2009
5	Outreach program on monitoring of drug residues and environmental pollutants	Dr. M. M. Gatne	ICAR		Extramural		2009-2017
1.	OUTREACH PROGRAMME ON “Monitoring of Drug Residues and Environmental Pollutants” Now Revised as ICAR-AINP-LPPS “All India Network Programme on Livestock and Poultry Product Safety	Dr. Sushant S Sole	ICAR (Indian Council of Agriculture Research)	1,25,93,750	Extramural	Ongoing	2017-till date
2.	Acute toxicity of DL Methionine in rats	Dr. Sushant S Sole	UPL Ltd., Mumbai	2,76,500/-	Extramural	Completed	01 Year



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3.	Studies on Flunixin OTC	Dr. Sushant S Sole	Bayer Pvt. Ltd. Germany	40,41,752/-	Extramural	Completed	10 Year
4.	Evaluation of effect of RF field during MR scanning in normal and malignant tissues of laboratory animals	Dr. Sushant S Sole	Society For Applied Microwave Electronics Engineering & Research) an off set of Tata Institute of Fundamental Research, Mumbai and an R & D institute under Ministry of Communication & IT, Govt of India	9,84,200/-		Ongoing	02 Year
5.	Pharmacokinetic study of clomiphene in buffaloes	Dr. Sushant S Sole	AELPL (Ar-Ex Laboratories Pvt Ltd), Mumbai	3,01,000/-		Completed	01 Year



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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
1.	Acute toxicity of DL Methionine in rats	Dr. Sushant S Sole	UPL Ltd., Mumbai	2,76,500/-		Completed	01 Year
2.	Studies on Flunixin OTC	Dr. Sushant S Sole	Bayer Pvt. Ltd. Germany	40,41,752/-		Completed	10 Year
3.	Evaluation of effect of RF field during MR scanning in normal and malignant tissues of laboratory animals	Dr. Sushant S Sole	Society For Applied Microwave Electronics Engineering & Research) an offset of Tata Institute of Fundamental Research, Mumbai and an R & D institute under Ministry of Communication & IT, Govt of India	9,84,200/-		Ongoing	02 Year
4.	Pharmacokinetic study of	Dr. Sushant S Sole	AELPL (Ar-Ex Laborato	3,01,000/-		Completed	01 Year



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	clomiphene in buffaloes		ries Pvt Ltd), Mumbai				
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3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1.	Drug discovery and new formulation of conventional Drugs / Herbal drugs / plants of Konkan region.			
2.	Pharmacokinetics			
3.	Regulatory toxicity in rodents and use of zebrafish model for endocrine disruption activities.			
4.	Estimation of Drug residues/pesticide residues in biological samples of Konkan region			
5.	Development of rodent animal models for different disease conditions e. g. diabetes, arthritis, behavioral models, etc			



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4. Thesis:

Master:

Name of Department : Veterinary Pharmacology and Toxicology				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	Dr.M.K.Shingategeri	Studies Of Record Of Blood Pressure On Normal Dogs By Using Sphygmomanometer	1964	
2.	Dr. H. V .Jahagirdar	Electrophoretic Studies Of Serum Protein In Infectious Canine Hepetitis	1967	
3.	Dr. R. D. Sadekar	Studies On The Absorption, Acetylation And Excretion Of Common Sulphonamides In Buffalo Calves	1970	Dr.M.K. Shingatgeri
4.	Dr. .K. R. Wagh	Pharmacological Studies On Curcuma Longa Linn With Special Reference To Its Anti-Inflammatory Effects In Rats	1972	Dr.M.K. Shingatgeri
5.	Dr. S. T. Kalkar	Study Of Some Indigenous Drugs For Their Estrogenic Activity	1976	Dr.M.K. Shingatgeri
6.	Dr .M .I. Qureshi	Study On Bioavailability Of Oxytetracycline In Buffloes	1976	Dr H V Jahagirdar
7.	Dr .S. J. Rajahansa	Toxicological Study Of Intravenous Metronidazole In Laboratory Animals	1979	Dr.M.K. Shingatgeri
8.	Dr .A .N .Subnis	Study On Propetamphos A New Acaricide With Particular Referance To Its Biologicals Efficacy , Toxicity To Dogs And Ld 50 Determination In Rats	1980	Dr S Jagadish
9.	Dr K. Jaykumar	Disposition Of Ampicillin In Serum And Tissue Fluid In Buffalo Calves	1982	Dr V V Ranade



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10.	Dr D.S . Naoley	A Preliminary Study On Mercury Residues In Dairy Animal In Thane Kalyan Kalu River Industrial Belt	1983	Dr H V Jahagirdar
11	Dr. M.R Kulkarni	Toxicological Investigation Of Sulfadiazine-Trimethoprim Combination In Broilers	1983	Dr H V Jahagirdar
12	Dr R N Naik	Studies On The Immunomodulatory Effects Of Levamisole Indomethacin And Metronidazole On Immediate Hypersensit ivity In Lab. Animal	1984	Dr S Jagadish
13	Dr G B Kulkarni	Droperidol –A Premedicant In Thiopentone Sodium Induced Anaesthesia In Dogs	1984	Dr H V Jahagirdar
14.	Dr H S Modak	A Study On Protective Effect Of Indigenous Formulation Against Induced Hepatotoxicity In Albino Rats	1984	Dr H V Jahagirdar
15	Dr S G Burte	Studies On Effects Of Feeding An Indigenous Drug Formulation To Cattle And Poultry	1986	Dr H V Jahagirdar
16	Dr M P. Bhalerao	Influence Of Probenecid On Serum Ampicillin Disposition In Dogs	1986	Dr V V Ranade
17	Dr R D Kalkar	Studies On Effects Of Coumaphos And Chlorpromazine Interaction In Cattle	1986	Dr S Jagadish
18	Dr S Madav	Effect Of Gentamicin On Thiopentone Anaesthesia In Dogs	1986	Dr S Jagadish
19	Dr A G Telang	Studies On Interaction Between The Anticonvulsant Drugs Phenyton And Phenobarbital In Dogs	1988	Dr S Jagadish
20	Dr L K Sharma	Comparative Studies Of The Effect Of Levamisole Administration Through	1988	Dr. S Jagadish



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		Different Routes On Immunomodulation And Anthelmintics Activity In Crossbred Animals		
21	Dr S S Panchpor	Therapeutic Evaluation Of Oral And Parenteral Iron Preparations In Experimental Haemorrhagic Anaemia In Crossbred Calves	1989	Dr. V V Ranade
22	Dr S B Raut	Pharmacokinetic Studies Of An Injectable Ibuprofen In Dogs And Cattle And Its Safety Assessment To Dogs	1989	Dr. V V Ranade
23	Dr M T Raut	Pharmacokinetic Studies And Safety Assessment Of An Injectable-Aspirin In Calves	1990	Dr. V V Ranade
24	Dr S K Toke	Studies Of Gentamicin Disposition In Blood And Milk Of Lactating Ewes After Parenteral Administration	1990	Dr V V Ranade
25	Dr A P Pontis	A Study On Lead Levels In Cattle Located Around The Industrial Area Near Udhva And Kalamdevi Villages In Dist-Thane	1991	Dr V V Ranade
26	Dr P K Nemade	Study Of Estrogenic Activity Of Indigenous Test Preparation (Heatinee)	1993	Dr V V Ranade
27	Dr P C Badole	Pharmacokinetic Studies And Safety Assessment Of An Injectable-Tiamulin In Sheep And Goats	1993	Dr V V Ranade
28	Dr B B Gunjate	Study On Efficacy And Safety Of Providone –Iodine In Some Veterinary Clinical Indications	1994	Dr. V V Ranade
29	Dr R V Patil	Pharmacokinetic Profile And Safety Assessment Of Pefloxacin Injection In Lactating Cows	1994	Dr. M.M.Gatne



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30	Dr R Jairam	Pharmacokinetic And Safety Studies Of Injectable Diclofenac Sodium InBuffaloCalves	1995	Dr V V Ranade
31	Dr S V Ingale	Pharmacokinetics Of Enrofloxacin And Its Concentration In Chicken Meat And Eggs	1995	Dr M M Gatne
32	DR D S Joshi	Hepatoprotective Effect Of Some Herbal And Homoeopathic Drugs In Experimentally Induced Hepatotoxicity In Rats	1996	Dr M M Gatne
33	Dr R P Chandanshive	Pharmacokinetic Studies And Safety Assessment Of Pefloxacin In Lactating Sheep	1996	Dr V V Ranade
34	Dr N M Jare	Pharmacokinetic Profile And Safety Assessment Of Pefloxacin Injection In Lactating Goats	1996	Dr M M Gatne
35	Dr P K Hendre	Pharmacokinetics Of Oral Amoxycillin In Broiler Chickens And Its Comparative Serum Profile After Pulse Dose And Continuous Medication	1997	Dr M M Gatne
36	Dr S C Borkar	Clinical Efficacy And Residue Studies Of Intramammary Infusion Of Enrofloxacin In Mastitic Buffaloes	1998	Dr M M Gatne
37	Dr D A Deshpande	Study Of Serum Disposition Of Long- Acting Ampicillin In Cow AndBuffaloCalves	1998	Dr V V Ranade
38	Dr A H Pawar	Clinical Evaluation And Passage Of Enrofloxacin Across Uterus In Repeat Breeding Buffaloes	1999	Dr V V Ranade
39	Dr V S Shinde	Pharmacokinetic Studies Of Chloramphenicol In Buffaloes	1999	Dr M M Gatne



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40	Dr S S Pawar	Disposition Of Paracetamol In Serum And Cerebrospinal Fluid In Buffaloes	1999	Dr M M Gatne
41	Dr D A Kamble	Pharmacokinetic Study Of Amoxycillin And Its Disposition In Cerebrospinal Fluid And Urine InBuffaloCalves After Intravenous Administration	2000	Dr M M Gatne
42	Dr P A Patil	Pharmacokinetic Studies Of Cefotaxime And Its Disposition In Cerebrospinal Fluid And Urine InBuffaloCalves After Intravenous Administration	2000	Dr M M Gatne
43	Dr C M Khadtare	Studies On Influence Of Shatavari(Asparagus Racemosus)Feeding On Milk Production In Animals	2000	Dr A P Somkuwar
44	Dr S R Giri	Studies On Disposition Kinetics Of Oxytetracycline InBuffaloCalves By I.M. And I.V. Routes And Its Iteraction With I.V. Calcium	2001	Dr M D Deore
45	Dr P P Gaikwad	Pharmacokinetics Of Ceftriaxone And Its Disposition In Various Body Fluids In Buffalo-Calves	2001	Dr M M Gatne
46	Dr M M Mehendale	Pharmacokinetic Studies On Diminazene InBuffaloCalves	2001	Dr M D Deore
47	Dr S R More	Pharmacokinetics Of Ceftriaxone And Its Urinary Excretion In Goats	2002	Dr M M Gatne
48	Dr A M Dafe	Efficacy Of Combination Of Mannan Oligosaccharide, Organic Acids,Zeolite And Activated Charcoal On Performance And During Induced Alfatoxicosis In Chickens	2002	Dr M M Gatne
49	Dr C Lalmuanthanga	Pharmacokinetic Studies On Long Acting Enrofloxacin And Its Comparison With	2002	Dr M D Deore



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		Conventional Enrofloxacin After Single Intramuscular Administration In Cow Calves		
50	Dr K M Telang	Clinical Efficacy Of Spot On Formulation Of Fipronil In Dogs Infested With Ticks And Fleas And Its In Vitro Efficacy Against Common Dog Tick Rhipicephalus Sanguineus	2003	Dr M M Gatne
51	Dr.S B Khobragade	Pharmacokinetics And Urinary Excretion Of Amikacin In Calves	2003	Dr.M D Deore
52	Dr B D Ghanshyam	Pharmacokinetics Of Ceftiofur And Its Urinary Excretion InBuffalo In Calves	2004	Dr M M Gatne
53	Dr S S Dadarkar	Clinical Evaluation And Toxicity Studies Of Long Acting And Convetional Formulation Of Ivermectin	2004	Dr M D Deore
54	Dr D P Vaijnathrao	Pharmacokinetics Of Ceftiofur In Chickens	2005	Dr M D Deore
55	Dr A M Patil	Isobologram Analysis Of Amoxicillin And Cloxacillin Combination Against Some Bacterial Isolates Of Veterinary Importants	2005	Dr M D Deore
56	Dr P S Bhoir	Pharmacokinetics And Disposition Of Ceftiofur In Various Body Fluids InBuffalo	2005	Dr M M Gatne
57	Dr Ramesh	Isobologram Analysis Ofcombination Of Sulfamethoxazole And Trimethoprim Against Some Bacterial Isolates Of Veterinary Importance	2005	Dr M M Gatne
58	Dr S R Malsure	Pharmacokinetics Of Danofloxacin In Buffaloes	2006	Dr M M Gatne



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59	Dr V D Suryawanshi	Efficacy Of Combination Of Organic Acids Against Experimentally Induced Gout In Chicken	2006	Dr M M Gatne
60	Dr D S Jondhale	Studies On Antiiral Activity Of Mangrove Plant Acanthus Ilicifolius In Poultry	2006	Dr M D Deore
61	Dr S P Chawade	Pharmacokinetics Of Sparfloxacin In Broiler Chicken	2007	Dr M D Deore
62	Dr Elizabeth Kimtei	Toxicity And Residue Study Of Florfenicol In Chiken	2008	Dr M M Gatne
63	Dr N S Adsul	Pharmacokinetics And Efficacy Of Different Formulations Of Florfenicol In Chicken	2008	Dr M M Gatne
64	Dr P S Gurav	In Vitro Screening Of Qt Prolonging Drugs For Their Arrhythmic Potential In Isolated Rabbit Heart	2009	Dr M M Gatne
65	Dr G R Ghangale	Neuroprotective Effect Of Peroxisome Proliferator-Activated Receptor –Gamma Agonist And Statin On Cerebral Ischemia And Reperfusion Induced Cerebral Injury In Rats	2009	Dr M M Gatne
66	Dr K Anbarasan	Efficacy Of Phyllanthus Niruri Against Induced Newcastle Disease Virus Infection In Chicken	2009	Dr M M Gatne
67	Dr G H Chaudhari	Screening Of Qt Prolonging Drugs For Their Arrhythmogenic Potential In Anaesthetized Rabbit	2009	Dr M M Gatne
68	Dr S P Tamhankar	Studies On Antigenotoxic Effect Of Withania Somnifera In Rats	2009	Dr M M Gatne
69	Dr V S Surve	Studies On Antigenotoxic Effect Of Terminalia Arjuna In Rats	2009	Dr M M Gatne



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70	Dr T R Mahale	Developmental Immunotoxicity Of Allopurinol In Mice	2010	Dr M M Gatne
71	Dr L B Gawade	Developmental Immunotoxicity Of Imidacloprid In Mice	2010	Dr M M Gatne
72	Dr A G Somwanshi	Developmental Immunotoxicity Of Fipronil In Mice	2010	Dr M M Gatne
73	Yadav Manish Hansraj V/04/0253	Evaluation of protective effect of Vitex Negundo (Nirgundi) on induced osteoarthritis in wistar rats	2011	Dr. M. M. Gatne
74	Paranjape Vaidehi Viay V/04/0233	Efficacy of Terminalia Arjuna in dilated cardiomyopathy and valcular hear disease in dogs	2011	Dr. M. M. Gatne
75	Kalaskar Pankaj Suryakant V/04/0172	Antifungal activity of Acanthus Ilcifolius leaves in induced aspergillosis in mice	2011	Dr. M. M. Gatne
76	Kale Rushikesh Pandurang V/05/0175	Evaluation of antimicrobial residues in poultry eggs by Elisa	2012	Dr. M. M. Gatne
77	Gatne Akshada Mukulesh V/05/0175	Evaluation of cardiotoxic potential of some veterinary drugs in zebrafish	2012	Dr. V.V. Karande
78	Pandure Dinesh Ramesh V/05/0255	Detection of some heavy metal residues in seafoods of Mumbai & Thane region	2012	Dr. M. M. Gatne
79	Kauthale Rahul Ramdas V/06/0187	Evaluation of some drugs used in	2013	Dr. V.V. Karande
80	Tambe Kirti Balkrishna V/07/232	Anti-angiogenic potential of herbal drugs on Zerbafish model	2014	Dr. M. M. Gatne



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81	S. Pfokrehrii V/12/257	Pharmacokinetic study of cephalexin in broiler chickens	2014	Dr. M. M. Gatne
82	Joge Puja Arun V/08/086	Evaluation of anti-angiogenic potential of herbal drug in mouse model	2015	Dr. M. M. Gatne
83	Puri Devika Sandeep V/07/130	Pharmacokinetic study of clomiphene in goats	2015	Dr. M. M. Gatne
84	Ashwini Kumar Sharma V/08/0106	Bioavailability of vitamin C from kokum (Garcinia Indica) and its efficacy against heat stress in poultry	2015	Dr. V.V. Karande
85	Anna Maria Joy V/09/165	Hazardous potential of endocrine disruptors on reproduction in male zebrafish	2016	Dr. M. M. Gatne
86	Rajeev Jeenger V/14/306	Possible antiangiogenic synergism between Eugenol and Tyrosine kinase receptor inhibitor in murine model	2016	Dr. M. M. Gatne
87	Gavali Sandeep Nandkumar V/08/055	Antimicrobial activity of extracts of selected plants against multi drug resistant Staphylococcus aureus isolated from Bubaline mastitis	2017	Dr. V.V. Karande
88	Bhalerao Shrikant Tulsidas V/10/2012	Possible endocrine disrupting effect of deltamethrin on male zebrafish and its effect on embryo development	2017	Dr. M. M. Gatne
89	Palamate Parameshwar Sunil V/10/016	Detection of some heavy metals in dog serum from Mumbai and Thane area	2017	Dr. V.V. Karande
90	Jyoti Gautam V/15/286	Development toxicity of some veterinary drugs in zebrafish (Danio Rerio) embryos	2017	Dr. M. M. Gatne
91	More Priyanka Shankar V/10/066	Determination of clophenol isomers by liquid chromatography –mass spectrometry method in caprine plasma	2017	Dr. V.V. Karande



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		after its single intramuscular administration		
92	Yadav Krishnakumar Ramsevak	Evaluation of Ayurvedic Formulation Amrutadi on rheumatoid Arthritis Model in Rat	2019	Dr.S.S.Sole
93	Kambli Ashvini Pradeep	Assessment of Toxic Metal in Buffalo Milk Samples from Mumbai Surburbs.	2018	Dr.S.S.Sole
94	Bagal Niranjan Dattatraya	Pharmacokinetic Study of Isoniazid in Cow (Calf)	2018	Dr.S.S.Sole
95	Lonare Snehal	Assessment of Ractopamine for endocrine dysfunction and teratogenic effects in Zebrafish	2018	Dr. S. S. Sole
96	Subhdar Irfan Hameed	Ionophore Combination and Selamectin: Evaluation for endocrine Dysfunction and Non-Target Toxicity in Zebrafish	2019	Dr.S.S.Sole
97	Kambale Kunal Sandipan	Monitoring of Heavy Metals in Buffalo Milk and Water Samples from Industrialized Zones of Mumbai Suburbs and Konkan Region	2019	Dr.S.S.Sole
98	Krutika Pramod Khairatkar	Validation of Method and Pharmacokinetic Assessment of Formaldehyde in Various Animal Origin Products by Reverse-Phase high Pressure Liquid Chromatography (HPLC)	2021	Dr.S.S.Sole
99	Patil Pradnya Netaji	Evaluation of Fluralaner for Endocrine Disruption and Embryonic Toxicity in Zebrafish Model	2021	Dr.S.S.Sole
100	Karhale Vitthal Sudam	Evaluation of Therapeutic Potential of Bleomycin and Catechin Combination in Animal Model of Mammary Tumor	2023	Dr.S.S.Sole



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101	Sahil Raman	Pharmacokinetic Study of Levefloxacin and Flunixin and Their Interaction in goat	2023	Dr.S.M. Ghadigaonkar
102	Mote Vishal Parabati	Evaluation of Efficacy of Enrofloxacin and Catechin on Chronic Bacterial Prostatitis Rat Model	2024	Dr.S.S.Sole
103	Purva Joshi	Efficacy of Curcuma Longa L. and Terminalia Chebula Retz. Against DNCB-Induced A to Pic Dermatitis in Mice.	2024	Dr.S.M. Ghadigaonkar
104	Jadhav Sanket Surendra	Evaluation Of Efficacy Of Lanthanum Carbonate In Rat With Chronic Kidney Disease	2025	Dr. S. M. Ghadigaonkar

Doctoral:

Name of Department: Veterinary Pharmacology and Toxicology				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Giri Suresh Ramakant	Cardioprotective role of peroxisome proliferator activated receptor (PPAR) agonist in preclinical models	2014	Dr. M. M. Gatne
2	Karande VikasVasant	Studies on resistance pattern to Beta-lactam antibiotics in <i>Staphylococcus-aureus</i> and <i>Escherichia coli</i> isolated from milk of buffaloes with mastitis	2017	Dr. M. M. Gatne



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5. Research Papers Published:
List of Research Publications:

Sr. No.	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAAS Rating, if any
1	M. M. Gatne, V. V. Ranade and S. Jagadish	1991	Influence of probenecid on serum ampicillin disposition in dogs. Indian Vet. J., 67: 506-508	Indian Vet. J.,	67: 506-508	
2	V. V. Ranade and M. M. Gatne	1990	A modified technique for perfusion of goat mammary gland for studying antibiotic concentration in milk.	Bombay Vet. Coll.,	2 (1) : 57-59	
3	S. D. Mahashabde, S. Jagadish, M. M. Gatne and V. V. Ranade	1993	Serum disposition of long acting and double strength conventional formulation of oxytetracycline in buffaloes.	Indian Vet. J.,	69 (12) : 1147-1148	
4	M. M. Gatne, A. G. Telang, S. K. Toke and V. V. Ranade.	1992	Safety assessment of injectable neomycin in calves	<i>Hindustan Antibiotics Bulletin,</i>	34 (3-4) : 108-109	
5	M. M. Gatne, S. K. Toke, R. D. Kalkar and V. V. Ranade	1993	Pharmacokinetics of neomycin in calves	<i>Indian Vet. J.,</i>	70 : 422-425	



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6	S. B. Raut, S. Jagadish, M. M. Gatne, M. D. Deore and V. V. Ranade	1993	Pharmacokinetic studies of an injectable Ibuprofen in cattle.	<i>Indian Vet. J.,</i>	70 (11) : 1008-1010	
7	M. D. Deore, S. Jagadish, M. M. Gatne, S. B. Raut and V. V. Ranade	1993	Effect of metoclopramide on plasma disposition of paracetamol in dogs	J. Bombay Vet. College	4 (1&2) : 13-16	
8	S. K. Toke, M. M. Gatne, P. K. Nemade and V. V. Ranade	1993	Studies on serum gentamicin disposition after parenteral administration in ewes.	<i>Hindustan Antibiotics Bulletin, Aug. Nov., 1993</i>		
9	M. M. Gatne, P. C. Badole and V. V. Ranade (1994)	1994	Pharmacokinetics of Tiamulin in calves after single intramuscular administration	<i>Indian Vet. J.,</i>	71 (11): 1148-1149	
10						
11	M. M. Gatne, P. C. Badole and V. V. Ranade	1995	Pharmacokinetics of Tiamulin in sheep after single intramuscular administration	<i>Indian Vet. J.,</i>	72 (3) : 287-289	
12	R. V. Patil, M. M. Gatne, A. P. Somkuwar and V. V. Ranade	1996	Pharmacokinetics and milk concentration of Pefloxacin injection	<i>Indian Vet. J.,</i>	73 Nov.1996: 1130-1132	



**MAFSU,
Template – College Website(s)**

			(PELWIN) in lactating cows			
13	M.M.Gatne	1999	Disposition of Enrofloxacin in some biological fluids of buffaloes	Thesis submitted for award of Ph. D. to Konkan Krishi Vidyapeeth, Dapoli, Dist. Ratnagiri.		
14	V.V.Ranade M.M.Gatne	2001	Fluoroquinolones In “ Veterinary Pharmacology and Toxicology,	ed. B.K.Roy, Kalyani publishers, New Delhi		
15	Mehedndale M.M., Gatne M.M. and Deore M.D.	2001	In-vitro erythrocytic partitioning of diminazene in buffaloes J. Bom. Vet. Coll. 9 (1&2),13-14	<i>J. Bom. Vet. Coll.</i>	9 (1&2),13-14	
16	S.R.Giri, M.D.Deore and M.M.Gatne	2001	disposition kinetics of Oxytetracycline in buffalo calves.	<i>J.Vet. Pharmacol. Toxicol.</i>	Vol. 1,30-33.	
17	Pawar S.D., A.P.Somkuwar,		Evaluation of Embliica officinalis for its anti-	<i>J. Bom. Vet. Coll.</i>	10 (1&2), 12-14	



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	M.D.Deore and M.M.Gatne		inflammatory activity in rats			
18	Pawar S.D., Somkuwar A.P., Deore M.D. and Gatne M.M.	2003	<i>Evaluation of galactagogue effect of a herbal preparation in nursing rats and buffaloes.</i>	<i>J. Bomb. Vet. Coll.</i>	11(1&2), 6-8	
19	Khobragade S.B., Deore M.D. and Gatne M.M..	2003	Safety evaluation of amikacin after its repeated administration for five days in buffalo calves	<i>Bomb. Vet. Coll.</i>	11(1&2), 52-53	
20	S.D. Pawar, A.P. Somkuwar, M.D.Deore and M.M. Gatne	2003	Effect of Awala on carbon tetrachloride induced hepatotoxicity in rats.,	<i>Toxicology Internationa l,</i>	10(2):12- 23	
21	Pawar S. D., Somkuwar A.P., Deore M.D. and Gatne M.M.	2004	Clinical evaluation of Emblica officinalis for its activity against liver disorders in cattle	<i>J. Bomb. Vet. Coll.</i>	12(1&2): 15-16.	
22	Lalmuanthanga, M.D. Deore, M.M. Gatne and S.B. Khobragade	2005	Pharmacokinetic studies on long acting and conventional Enrofloxacin in cow calves.	<i>Indian Vet. J</i>	82 : 943- 946	
23	M.D. Deore, S.S. Dadarkar, D.G. Bakre and M. M. Gatne	2005	Toxicity studies of Metoprolol succinate after repeated oral exposure in albino rats	<i>Toxicol. Int.</i>	12(2): 101-107	



**MAFSU,
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24	M.D. Deore, M.M. Gatne and S.D. Pawar	2005	Hepatoprotective effect of ‘Livovet’ on mycotoxin induced liver damage in poultry	J. Vet. Pharmacol. Toxicol.	4(1-2): 10-14	
25	M.M.Gatne, Ramesh, P.S. Bhoir, M. D. Deore	2006	Immunotoxicity studies of imidacloprid in rats	Toxicology Internationa l,	13 (2): 89-92	
26	P.C..Badole, V.V.Ranade, M.M.Gatne and A.P.Somkuwar	2005	Pharmacokinetics of Tiamulin in goats after single intramuscular administration	The Royal Veterinary Journal Of India,	Vol.1(1) 55	
27	Dadarkar S.S.,Deore M.D.& Gatne M.M.(2006	Preliminary evaluation of a polyherbal formulation for its galactagogue properties in primiparous wistar rat.	J. BombayVet erinaryColle ge,13	13	
28	Dadarkar S.S.,Deore M.D.& Gatne M.M	2007	Comparative evaluation of acute toxicity of ivermectin by two methods after single subcutaneous administration in rats.	Regulatory Toxicology Pharmacolo gy, INPRESS		



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29	Sonali R Naikwade, Amrita N Bajaj, Prashant Gurav, Madhumangiri M Gatne and Pritam Singh Soni	2009	<i>Development of Budesonide Microparticles Using Spray-Drying Technology for Pulmonary Administration: Design, Characterization, In Vitro Evaluation, and In Vivo Efficacy Study</i>	AAPS Pharm Sci Tech		
30	P.V. Deshmukh, P.C. Badgujar, and M.M. Gatne	2009	In-vitro red blood cell partitioning of doxycycline	Indian J Pharmacol		August; 41(4): 173–175
31	Sushant Sole	2017	“Microbial Terrorism: Need for Call to Action in Livestock”.	EC Pharmacology and Toxicology	4.3 (2017): 118-119.	
32	Lalita Bhalerao, Sushma Shendre-Ghadigaonkar	2018	Effect of ethanolic leaf extract <i>Aegle marmelos</i> (L.), Correa gentamicin induced nephrotoxicity in Wistar rats.	Journal of Veterinary on Pharmacology and Toxicology.	17(2):13-16	
33	S. M. Lonare, S. S. Sole and S. A. Umap	2018	Exposure to Ractopamine Induces Behavioural and Reproductive Alterations in Zebrafish	Danio rerio) Toxicology International, 1,	Vol 25(3), 31-42,	



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34	Supriya Pandurang Mortale, Ramdas Ganpatrao Bhong, Sushant Shivdas Sole and Sankunni Mohan Karuppayil	2018	Phytochemicals Improve Anti- inflammatory Activity of Diclofenac in Rat Paw Edema Model.	Pharmacolo gia,		
35	S. Y. Shirale*, H. Y. Palampalle, B. S. Khillare S. B. Majee, D. P. Kadam and S. S. Sole	2018	Prevalence Of Trypanosomosis In Buffaloes Of Mumbai Region	Contempora ry Research in India	(ISSN 2231- 2137): Vol. 8: Issue: 3	
36	Ashwini Kambli, Sushant Sole , Kaustubh Garud , Snehal Lonare Niranjan Bagal	2019	Quantitative Analysis of Toxic Metals in Buffalo Milk Samples from Mumbai Suburban Region by ICP-AES	AES. J. Anim. Health Prod	(1): 5- 10.	
37	Niranjan Bagal* , Sushant Sole, Swati Umap, Ashwini Kambli and Kunal Kamble	2020	Disposition of Isoniazid by Oral and Intravenous Administration in Cow Calf using RP-HPLC Method	Int.J.Curr.M icrobiol.Ap p.Sci	(2020) 9(9): 1577-1585	
38	Umesh Kannamangalam Vijayan, Sadineni Varakumar,	2020	Enhancement of loading and oral bioavailability of curcumin loaded self- microemulsifying lipid	Drug Developme nt and Industrial	DOI: 10.1080/0 3639045.2	



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	Sushant Sole & Rekha S. Singhal		carriers using Curcuma oleoresins	Pharmacy, 2020,	020.17622 01	
39	Niranjan Bagal* , Sushant Sole, Swati Umap, Ashwini Kambli and Kunal Kamble	2020	Ozone therapy: An important approach in veterinary therapeutics	Journal of Veterinary Pharmacology & Toxicology	June 2020/Vol. 19/issue- 1/1-7	
40	Sushma Ghadigaonkar, AG Reddy, B Kala Kumar, M Lakshman and U. Rajkumar	2021	Quantification of total phenolic content, total flavonoid content, and evaluation of <i>in-vitro</i> free radical scavenging activities in <i>Ficus religiosa</i> Linn.	The Pharma Innovation Journal	10(3): 84-88	
41	V. Garud Kaustubh , Y. Buduk Shreya , A. Deosthali Samruddhi , N. Galdhar Chandrakant , S. Sole Sushant , D.A. Pawalkar , V. Gaikwad Rajiv	2021	Assessment of antibiotic sensitivity patterns of bacterial isolates in dogs with positive urine cultures with and without renal dysfunction and variable urinary tract signs	Indian J. Vet. Med. Vol	. 41, No. 1, 2021 pp. 15-21	
42	Sushma Ghadigaonkar, A	2021	Screening of antioxidant and	The Pharma Innovation Journal	10(2): 01-05	



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	Gopala Reddy, B Kala Kumar, and B Anil Kumar		free radical scavenging activities of <i>Terminalia arjuna</i> Roxb			
43	Santosh Tambade, Sushma Ghadigaonkar	2021	Nephroprotective effect of ethanolic extract of <i>Pedaliium murex</i> in cisplatin-induced nephrotoxicity in Wistar rats	The Pharma Innovation Journal	SP-10(6): 607- 610	
44	Sushma Ghadigaonkar, A Gopala Reddy	2021	Cardioprotective effect of aqueous leaf extract of <i>Ficus religiosa</i> Linn on 5FU-induced toxicity in rat	The Pharma Innovation Journal	10(12): 412-416.	
45	Shubhangi Nimbore, Sushma Ghadigaonkar	2021	<i>In-vitro and In-vivo</i> evaluation of the antibacterial activity of ethanolic and aqueous leaf extract of <i>Murraya</i> <i>Koengii</i> in mice	The Pharma Innovation Journal	10(7):226	
46	Sushma Ghadigaonkar*, A Gopala Reddy, BDP Kala Kumar and M Lakshman	2021	Ameliorating Effect of <i>Terminalia arjuna</i> Against 5- Fluorouacil Induced Cardiotoxicity in Wistar Rats	Acta Scientific Veterinary Sciences (ISSN: 22582- 3183)	Volume 3 Issue 9 September 2021:75- 79	



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47	Ghadigaonkar Sushma, Reddy Gopala A, B Kala Kumar, M Lakshman, Shiva Kumar and Anudeep Reddy	2021	Evaluation of <i>Ficus religiosa</i> in Comparison to Captopril against Experimental Cardiotoxicity due to 5-Fluorouracil in Rats	Acta Scientific Veterinary Sciences 3.9	49-54.	
48	Pradnya Patil, Sushant S Sole, Purva Joshi, Vishal P Mote, RV Gaikwad, SU Gulavane and PV Meshram	2023	Exposure to Fluralaner induces behavioral and reproductive alterations in Zebrafish (<i>Danio rerio</i>)	The Pharma Innovation Journal 2023	12(2): 2228-2238	
49	S.S. Sole, Vishal P Mote, Purva Joshi and Ravindra Ambade	2023	Controlled Release acarbose beads ameliorates ruminal function for extended time	Journal of Veterinary Pharmacology & Toxicology	June 2023, Vol. 22, issue 1, 18- 21	
50	Ghadigaonkar Sushma, Reddy Gopala A.	2022	5-FU induced cardiotoxicity amelioration by aqueous leaf extract of <i>Ficus religiosa</i>	Acta Scientific Veterinary Sciences 4.1	179-185.	
51	Sahil Raman, S.M. Ghadigaonkar S.S. Sole, R.	2023	Pharmacokinetics Study of Levofloxacin in Goats	Trends in Agriculture Science	2(11), Nov 2023: 1036-1044	



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	V. Gaikwad, K.V. Garud, H.Y. Pallampalle					
52	VS Karhale, SS Sole, SM Ghadigaonkar, RV Gaikwad, PV Meshram, S Bharucha, VP Mote, P Joshi, SS Jadhav and HY Palampalle	2024	Catechin enhances the antitumour activity of Bleomycin in DMBA- induced mammary carcinoma in rats	International Journal of Veterinary Sciences and Animal Husbandry 2024	9(1): 163- 169	
53	Sushma Ghadigaonkar	2023	Evaluation of the antibacterial activity of ethanolic and aqueous leaf extract of Hibiscus rosa- sinensis in mice	The Pharma Innovation Journal	12(1): 27- 30.	
54	VS Karhale, SS Sole, SM Ghadigaonkar, RV Gaikwad, PV Meshram, S Bharucha,	2024	catechin enhances the antitumor activity of Bleomycin in DMBA-induced mammary carcinoma in rats	International Journal of Veterinary Sciences and Animal Husbandry	9(1): 163- 169	
55	Gavali Sandeep, Karande Vikas, Ghadigaonkar Sushma, and Joshi Purva	2024	Plant-derived drug against drug- resistant Staphylococcus aureus	International Journal of Veterinary Sciences and	9(1): 216- 223	



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				Animal Husbandry		
56.	Sushant S Sole, Kunal S Kambale, Rajiv V Gaikwad and Promod V Meshram	2025	ICP AES assessment of lead, mercury and determination of impact on animal productivity	International Journal of Biology Sciences 2025	7(1): 28-35	
57						
58						

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1.	डॉ. आर. बी. अंबादे, डॉ. एस. एस. सोले	2023	'लम्पी स्किन' मुळे होणाऱ्या जैवसायनिक बदलांवर उपचार	ऑगोप्लस १२ सोमवार, २३ जानेवारी २०२३ सकाळ ऑगोवन	
2.	Dr. S S Sole Dr. R B Ambade	2022	Mumbai Veterinary College holds animal vaccination drive for Lumpy Skin disease	D- Voice, Oct 19, 2022 Online News https://dvoice.in/mumbai-veterinary-college-holds-animal-vaccination-drive-for-lumpy-skin-disease/	
3.	Dr. S S Sole	2024	Microbial encroachment: an insight required For therapy policies	Vet Farm Frontier e-Magazine, April 2024/ Vol. 1/ Issue 2/ 13-15	
4.	Dr. S S Sole	2024	Antibiotics adverse effects in animals	AGROWON Newspaper 15 October 2024	



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5	Dr. Sushma Ghadigaonkar	2025	:प्राण्यांमधील सामान्य विषबाधा: कारणे व उपाययोजना	ASCAD compendium	
6	Dr. Sushma Ghadigaonkar	2024	प्राण्यांमध्ये वनस्पती विषबाधा उपचार आणि खबरदारी	MAVIM training compendium	
7	Dr Sushma Ghadigaonkar	2025	Plant poisoning in animals	Agrowan 19 May 2025	
8	Dr Sushma Ghadigaonkar		Janawaratil wishbadhewar upayyोजना	Agrowan 19 May 2025	

6. Research Recommendations

Sr. No.	
Year	
Project Title	
Investigators	
Recommendations	

7. MOU signed by the Colleges

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



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8. Research Priorities / Thematic areas: Department Wise

1. Drug discovery and new formulation
2. pharmacokinetics
3. Conventional drugs/ Herbal drugs/plants of Konkan region.
4. Regulatory toxicity in rodents and use of zebrafish model for endocrine disruption activities.
5. Estimation of Drug residues/pesticide residues in biological samples of Konkan region.
5. Development of rodent animal models for different disease conditions
e. g. diabetes, arthritis, behavioral models, etc.

9. Significant Research Achievement:

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

Extension:

Field and other activities undertaken by faculty:

1. Training Organized

Farmers

Sr. No.	Name of Training / Title of Training	Duration From ...to..	No of participants	Name of Faculty
1.	NABL AWARENESS	01 st December 2021 to 04 th December 2021	10	Dr.Sushant.S.Sole



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Sr. No.	Name of training	Duration From ...to..	No of participants	Name of Faculty

2. Conference s / Workshop / Seminars / Webinars / Farmers meet organized :

Farmers

Sr. No.	Title of workshop, Seminar, Farmers meet	Place	Date	No of participants
1	World Antibiotic awareness week: Global perspectives of antimicrobial resistance: Remedial strategies for one health Webinar	Online	19 November 2021	20
2	Farmers meet			

Officers

Sr. No.	Title of Conference / Seminar / Workshop	Place	Date	No of participants

3. Adopted/ Operational Villages

Sr. No.	Name of Adopted Village	Type of Extension activity	Brief description (Guests, resource persons, Faculty Involved, No. of Participants)
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Student Corner:

1. Awards / Recognitions:

Sr. No.	Name of Student	Name of Award / Achievement	Place	Date	Awarding agency
1	Purva Joshi	Madrewar gold award	MAFSU, Nagpur	04.03.2025	Maharashtra animal and fishery sciences university, Nagpur

2. NSS:

Regular / Special Camp (Year Wise)

Sr. No.	Regular / Special	No of Student Registered	No. of Student Present	Place	Name of activity	Name of Expert

3. Photo Gallery (NSS)



Department:



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Achievements of the Department: [Chronology as per the MAFSU Statute]

(PDF format)

1. No. of PG students graduated : 103
2. Research Publications: 56
3. Books/ Chapters:
4. No. of research schemes and agency funded projects completed:4
5. No. of awards
6. Radio talks : 6
7. TV Talks : 1
8. Marathi and Popular publications : 4
9. Any other achievement by the faculty and student: **Young Scientist Award Dr.S.S.Sole**

Faculty:

- Name of Department: Veterinary Pharmacology and Toxicology
- Brief History of Department: Department of Pharmacology and Toxicology was established in 1961. Post-graduate study programme started in the year 1972. Ph. D. degree programme partly by papers and partly by research has been instituted from the year 2004. So far 83 candidates completed M.V.Sc. successfully and two have completed Ph.D. by research.
- Laboratory Facilities in the Department:
- Diagnostic services offered by the department:
- Faculty : (Department Wise) – [Chronology as per the MAFSU Statute]

Academic officer:

Sr No	Name of Academic Officer	Qualification	Designation	Email id	Contact No	Link to Digital Profile
1	Dr. Sushma Mangesh Ghadigaonkar	PhD	Assistant Professor	sushmaghadigaonkar@mafsu.ac.in	8600844430	
2	Dr. Sushant Shivdas Sole	PhD	Assistant Professor	sushantsole@mafsu.ac.in	8308305389	

Academic staff:

Sr No	Name of Academic staff	Qualification	Designation	Email id	Contact No	Link to Digital Profile
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Ministerial staff:

Sr No	Name of Ministerial staff	Department	Email

- List of retired faculty: (Department wise)

Sr. No.	Name of the staff	Designation	Duration	Photo
1.	Dr. M. K. Joshirao	Professor	1962-1964	
2.	Dr. M. K. Shingatgeri	Professor	1965 – 1986	
3.	Dr. H. V. Jahagirdar	Professor	1979 – 1986	



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4.	Dr. S. Jagadish	Professor	Aug. 1986 – Nov. 1987	
5.	Dr. V. V. Ranade	Professor	Nov. 1987 – March 1999	
6.	Dr. M.D.Deore	Associate Professor - resigned	1996 - 2007	
7.	Londhe B B	Professor	2000- 2003	
8.	Dr. Madhumanjiri M. Gatne	2003 – 2017		

- Photo gallery (Department Wise)



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