

Research:

1. 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	ITK project on "Bhangariya" to treat the blain	Dr. C. R. Jangde	NATP	1,17,000/-	Extra-mural	Completed	2003-04
2	Study on comparative efficacy of certain mycotoxins binder products in experimentally induced combined mycotoxicosis in broiler	Dr. A. R. Sawarkar	M/s Ayurv et Ltd, Baddi, (H.P.)	60000/-	Extra-mural	Completed	2009-10
3	NIL Efficacy evaluation of heat ameliorating activity and immunomodulatory properties of Ayucee & AV/LAP/18 in broilers	Dr. R. P. Limsay	M/s Ayurv et Ltd, Baddi, (H.P.)	75,000/-	Extra-mural	Completed	2012-13
4	Comparative pharmacokinetic studies on Fenbendazole-SR against conventional Fenbendazole preparation and its efficacy evaluation in cattle.	Dr. R. P. Limsay	M/s Virbac Animal Health India Pvt. Ltd, Mumbai.	4,16,640/-	Extra-mural	Completed	2015-16
5	Efficacy and Safety of "WORMIVET" an Anthelmintic powder in	Dr. A. P. Somkuwar	M/s Rakesh	1,55,000/-	Extra-mural	Completed	2019-20

	Large and Small ruminants		Pharmaceuticals Pvt. Ltd. Gandhinagar. (G.J.)				
6	Preclinical Antidiabetic Studies of four formulations of CARI in high fat diet along with low dose of streptozotocin induced diabetes in Wistar rats.	Dr. A. P. Somkuwar	M/s Central Ayurveda Research Institute, Bengaluru (KA).	4,15,000/-	Extra-mural	Completed	2022-23

## 2. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	<ul style="list-style-type: none"> <li>• The department is working in the area of Indigenous medicinal plants since last 30 years, during which the department has developed expertise in scientific screening of various medicinal plants for their different pharmacological activities.</li> <li>• Major medicinal plants found in Vidarbha region are studied for their valuable medicinal activities.</li> <li>• The department is also extending its expertise to various Pharmacy and Ayurvedic colleges in their studies.</li> </ul>	<ul style="list-style-type: none"> <li>• Strengthening of department by making available modern equipments and infrastructural facilities to carry out research at molecular level.</li> <li>• Using data base generated by the department about Indigenous medicinal plants for preparing economical and easily available remedies to treat the ailing animals.</li> </ul>	<ul style="list-style-type: none"> <li>• To impart knowledge to the students in the field of Veterinary Pharmacology &amp; Toxicology adopting dynamic system of education including audio-visual aids and simulation studies.</li> <li>• To impart advanced training and hands-on to the students for enhanced skills.</li> <li>• Undertake research using molecular and biotechnological tools to enhance quality, productivity and efficiency of livestock of the region and develop appropriate technologies to solve the problems of farmers.</li> <li>• To focus on development of personality of student through class-talks/group-discussion, quiz competitions etc.</li> <li>• To provide advanced on the recently developed technologies</li> </ul>	Advanced information to the farmers, animal owners, small and large entrepreneurs, on the recently developed technologies for overall development of Veterinary, Animal and Dairy sector of the region, as a part of extension services

3. Thesis:  
Master:

Name of Department : Veterinary Pharmacology & Toxicology, NVC, Nagpur				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	C. R. Jangde	Pharmacological & Phytochemical studies of <i>Tagetes erecta</i> Linn with special reference to its antibacterial activity	1980	Dr. B. S. Phadnaik.
2.	A. D. Venikar	Pharmacological studies of <i>Catendula officinalis</i> Linn.	1981	Dr. M. K. Joshirao
3.	R. K. S. Banerjee	Effect of residue of Alephate at different dose level in laboratory animal & its translocation in vital organs	1982	Dr. B. S. Phadnaik
4.	V. V. Bisan	Effect of residue of Carbaryl at different dose level in laboratory animal & its translocation in vital organs	1982	Dr. B. S. Phadnaik
5.	S. S. Pande	Effect of Aldrin residue at different dose levels in laboratory animals & its translocation in vital organs	1984	Dr. B. S. Phadnaik
6.	R. B. Kubde	Translocation & Toxicity studies on fenvalerate in rats	1984	Dr. B. S. Phadnaik
7.	D. L. Kadhane	Studies on experimental Parthenium ( <i>Parthenium hysterophorus</i> Linn) toxicity in buffalo claves	1985	Dr. R. D. Sadekar
8.	S. B. Menon	Hematological, Biochemical, Toxicological & residue studies on Fenvalerate	1985	Dr. B. S. Phadnaik

9.	S. B. Tatavarthy	Hematological, Biochemical, Toxicological & residue studies on Cypermethrin	1985	Dr. B. S. Phadnaik
10.	M. M. Kadu	Pharmacological & Phytochemical studies on <i>Eclipta Alba</i> Hask	1988	Dr. P. A. Khonde
11.	L. K. Ghode	Pharmacological & Phytochemical studies on <i>Tamarindus indica</i> Linn leaves.	1989	Dr. P. A. Khonde
12.	A. P. Hande	Some Pharmacological & Phytochemical investigations on <i>Azadiracha indica</i> A. Juss leaves.	1990	Dr. C. R. Jangde
13.	S. M. Ilahi	Some Pharmacological & Phytochemical investigations on <i>Ocimum Sanctum</i> Linn leaves	1990	Dr. P. A. Khonde
14.	C. G. Raut	Some Pharmacological investigation on <i>Lycopersium esculentum</i> Mill leaves	1990	Dr. P. A. Khonde
15.	R. E. Patil	Some Pharmacological investigation on plant <i>Moringa Oleifera</i> Linn	1992	Dr. C. R. Jangde
16.	V. R. Khobragade	Some Pharmacological investigation on <i>Allium Sativum</i> Linn	1993	Dr. C. R. Jangde
17.	A. S. More	Pharmacological Studies on Benzydamine	1993	Dr. C. R. Jangde
18.	A. A. Bhalerao	Studies on Pharmacological & Biochemical effects of Choliciphon on Ayurvedic formulation	1993	Dr. V. V. Bisan

19.	R. M. Kolte	Preliminary screening of roots of <i>Trichosnathes Cacumenia</i> Linn for antibacterial & Pharmacological activity	1993	Dr. V. V. Bisan
20.	G. D. Patil	Efficacy of <i>Asparagus Racemosus</i> wild on production & metabolic profile in lactating cattle	1995	Dr. P. A. Khonde
21.	V. R. Talmale	Screening of <i>Picrorhiza kurroo</i> Benth for Hepato-protective activity	1996	Dr. V. V. Bisan
22.	Y. S. Wanjari	Pharmacological Screening of <i>Embelia ribes</i> Burn seed with special reference to its Ant-helminthic activity.	1996	Dr. C. R. Jangde
23.	Mohd. A. Khan	Toxicity studies on <i>Lathyrus sativas</i> Linn feeding in poultry	1997	Dr. C. R. Jangde
24.	P. S. Bhoyar	Screening of Galactogouge Activity of some combined indigenous medicine	1997	Dr. C. R. Jangde
25.	P. B. Dhekale	Screening of antibacterial, anti-inflammatory and analgesic activity of seed of <i>Artemisia Maritima</i> Linn & bark of <i>Holarrhena Antidysentrica</i> Wall.	1997	Dr. V. V. Bisan
26.	R. Y. Jawale	Evaluation of antihelmintic activity of some indigenous medicines	1997	Dr. C. R. Jangde
27.	S. G. Girame	Sub acute toxicity of <i>Ricinus Communis</i> Linn in Calves	1998	Dr. V. V. Bisan
28.	D. G. Kanire	Pharmacological Studies of <i>Gardenia Gumniferea</i> with reference to its anti-helmintic activity	1999	Dr. C. R. Jangde

29.	U. B. Deshmukh	Effect of <i>Allium Sativum</i> on smooth & cardiac muscles	1999	Dr. C. R. Jangde
30.	P. M. Pund	Some Pharmacological studies on <i>Nigella Sativa</i> Linn with reference to its anti-inflammatory activity	2000	Dr. C. R. Jangde
31.	M. N. Thakre	Studies on vasodilator & Bronchodilator activities of some indigenous medicinal plants	2000	Dr. C. R. Jangde
32.	J. R. Surwase	Analgesic & anti-inflammatory activity of some indigenous medicinal plants	2000	Dr. C. R. Jangde
33.	Seema J.	Analgesic, anti-inflammatory & anti-helminthic Investigation on <i>Ocimum sanctum</i> Linn leaves	2001	Dr. C. R. Jangde
34.	R. P. Limsay	Some Pharmacological studies of <i>Aegle marmelos</i> Corr with reference to its anti inflammatory activity	2001	Dr. C. R. Jangde
35.	A. A. Raje	Indigenous drug combination for evaluation of anti-helminthic activity.	2001	Dr. C. R. Jangde
36.	A. D. Patil	Analgesic & Anti-inflammatory studies on <i>Ocimum Basilicum</i> Linn	2001	Dr. C. R. Jangde Dr. C. R. Jangde
37.	R. W. Rinke	Analgesic, anti-inflammatory & anti-helminthic activities of oil of <i>Nigella sativa</i> Linn	2001	
38.	S. S. Palkar	Anti-helminthic evaluation of <i>Punica Grantum</i> Linn in goats	2002	Dr. C. R. Jangde

39.	M. S. Jogekar	Pharmacological studies on <i>leptadenia Reticulata</i> with reference to its Analgesic activity	2002	Dr. C. R. Jangde
40.	O. P. Yeole	Anti-inflammatory Activity of different extracts of roots of <i>Withania somnifera</i> Dunal.	2002	Dr. C. R. Jangde
41.	S. B. Shendre	Comparative evaluation of Antipyretic activity of Different extracts of <i>Tinospora Cordifolia</i> Miers	2002	Dr. C. R. Jangde
42.	M.S. Ande	Studies on <i>Eclipta alba</i> , hask with special reference to its anti-inflammatory activity	2003	Dr. C. R. Jangde
43.	R. R. Palkhede	Pharmacological investigation of <i>Aloe vera</i> Linn with reference to analgesic, antipyretic & anti-inflammatory activity	2003	Dr. C. R. Jangde
44.	H. P. Bharmu	Evaluation of anti-inflammatory & anti-helmintic properties of <i>Eclipta alba</i> , hask	2004	Dr. C. R. Jangde
45.	V. V. Thorat	Wound healing activity of <i>Tridax procumbens</i> in clinical cases & its antibacterial activity in vitro.	2004	Dr. C. R. Jangde
46.	Sasikumar M.	Effect of alpha lipoic acid, alpha tocopherol & N-acetyl cystein on cadmium toxicity in rats.	2005	Dr. C. R. Jangde
47.	J. J. Deshattiwar	Antidiabetic activity of aqueous & alcoholic extracts of <i>Aegle marmelos</i> corr.	2005	Dr. C. R. Jangde



48.	A. Sanjeev Reddy	Effect of L- ascorbic acid, N- acetyl cystein & their combination on induced lead toxicity in rats.	2006	Dr. C. R. Jangde
49.	V. V. Karande	Effect of Alpha Lipoic acid, L- Ascorbic Acid, & N- Acetyl Cystein on induced mercury toxicity in rats	2006	Dr. C. R. Jangde
50.	A. R. Sawarkar	Analgesic, anti-inflammatory and antipyretic activities of <i>Hibiscus Rosa Sinensis</i> in rats.	2006	Dr. C. R. Jangde
51.	S. K. Atole	Anti-diabetic activity of <i>citrullus colocynthis</i> and its safety evaluation in rats.	2007	Dr. C. R. Jangde
52.	V. I. Borekar	Evaluation of the pharmacological activities form <i>Bahaunia racemosa</i> Lam in rats	2007	Dr. C. R. Jangde
53.	Preety Philip	Ameliorative effect of <i>Embllica officinalis</i> on arsenic induced toxicity in rats	2008	Dr. C. R. Jangde
54.	D. S. Rekhe	Antioxidant effect of <i>Centella Asiatica</i> on arsenic induced oxidative stress in wistar albino rats	2008	Dr. C. R. Jangde
55.	Nakade M. K.	Effect of alcoholic extract of <i>Tribulus Torrestiris</i> fruits against experimentally induced urolithiasis in rats	2009	Dr. C. R. Jangde
56.	D. V. Aghav	Anti-diabetic activity of <i>Moringa oleifera</i> leaf extract (Mole) & its safety evaluation in rats	2009	Dr. C. R. Jangde

57.	Sushma Shelu	Some Pharmacological studies on alcoholic extract of <i>Boerhaavia diffusa</i> Linn	2010	Dr. C. R. Jangde
58.	Ranu kadu	Some Pharmacological studies on alcoholic extract of <i>Alstonia scholaris</i> Linn	2010	Dr. C. R. Jangde
59.	S. A. Umap	Effect of <i>Morinda citrifolia</i> on induced toxicity of dimethoate in rats	2011	Dr. C. R. Jangde
60.	Afroz Jahan	Ameliorative potential of <i>Carissa carandis</i> Linn on monocrotophos induced toxicity in wistar rats	2011	Dr. C. R. Jangde
61.	R. Y. Nanotkar	Evaluation of Hepatoprotective activity of aqueous & methanolic extract of <i>Careya Arborea</i> stem bark in carbon tetrachloride intoxicated rats	2012	Dr. C. R. Jangde
62.	S.. M. Raut	Anti-inflammatory and ant diarrheal activity of alcoholic extract of leaves of <i>Butea monosperma</i> in Wistar Albino rats	2013	Dr. C. R. Jangde
63.	D. P. Madikuntawar	Anti-inflammatory and ant diarrheal activity of alcoholic extract of <i>Ficus religiosa</i> stem bark in Wistar Albino rats	2013	Dr. C. R. Jangde
64.	A. U. Kamble	Ameliorative effect of <i>Moringa Oleiofera</i> on sodium fluoride induced toxicity in Wistar rats.	2014	Dr. C. R. Jangde
65.	P. N. Kapagate	Ameliorative effect of <i>Tamarandus Indica</i> Linn on sodium fluoride induced toxicity in Wistar rats.	2014	Dr. C. R. Jangde

66.	A. P. Onkar	Anti-diabetic activity of aqueous leaf extract of <i>Cinnamomum Tamala</i> on Alloxon induced diabetes in Wistar rats	2015	Dr. A. A. Deshmukh
67.	B. B. Ambalkar	Evaluation of <i>Clerodendrum infortunatum</i> against cadmium chloride induced oxidative stress and mutagenic effect in Wistar rats	2015	Dr. R. P. Limsay
68.	P. A. Bodakhe	Anti-helminthic evaluation of <i>Brassica nigra</i> Linn in goats	2016	Dr. A. A. Deshmukh
69.	A. N. Adagale	Comparative Pharmacokinetic studied & comparative anit-parasitic efficacy of two oral fenbendazole preparations	2016	Dr. R. P. Limsay
70.	V. K. Kakde	Studies of Antibacterial Activity and Synergism Amongst Plant Extracts and Conventional Antibacterials Against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> ”	2017	Dr. R. P. Limsay
71.	S. S. Shirankar	Studies on Antibacterial Activity of Leaf Extracts of <i>Limonia acidissima</i> Linn. With Special Reference to <i>Pasteurella multocida</i>	2018	Dr. A. P. Somkuwar
72.	S. G. Dongare	Antidiabetic activity of hydroethanolic leaf extract of <i>Catherathus roseus</i> of streptozotocin induced diabetic Wistar rats	2018	Dr. A. P. Somkuwar
73.	R. A. Jagadale	Studies on Analgesic, Anti-pyretic and Anti-inflammatory Activity of	2018	Dr. R. P. Limsay

		<i>Caesalpinia bonducella</i> seeds in Wistar rats		
74.	Bhoye S. K.	Effect of <i>Aloe vera</i> gel and <i>Mint</i> tea on Letrozole induced polycystic ovary syndrome in Wistar rats.	2019	Dr. A. P. Somkuwar
75.	Kalyani Sarode	Evaluation of anti-cancer activity of <i>Clerodendrum infortunatum</i> against induced fibrosarcoma in mice	2019	Dr. R. P. Limsay
76.	Harke M. P.	Effect of ethanolic extract of <i>Menthapiperita</i> (Linn.) along with oral supplementation of <i>Aloe vera</i> gel on Letrozole induced Polycystic Ovarian Syndrome in Wistar rats	2020	Dr. A. P. Somkuwar
77.	Kokate A. K.	Antidiabetic and wound healing activity of leaves of <i>Clerodendrum infortunatum</i> in diabetic and non diabetic rats	2022	Dr. R. P. Limsay
78.	Prabhu Ram	Clinical Studies on Wound Healing Activity of <i>Clerodendrum infortunatum</i> Leaf Extract Ointments in Canines	2023	Dr. R. P. Limsay
79.	Diwathe P.C.	Effect of methanolic Extract of Stem bark of <i>Neolamarckia cadamba</i> on Streptozotocin Induce Diabetic Wistar Rats	2023	Dr. A. R. Sawarkar
80.	More G.V.	Wound Healing Activity of <i>Clerodendrum infortunatum</i> Extract Ointments in Cattle.	2024	Dr. R. P. Limsay
81.	Purankar M. M	Evaluation of Anti-cancer Activity of <i>Neolamarckia</i>	2024	Dr. A. R. Sawarkar

		cadamba Against DMBA Induced Mammary Tumour in Wistar Rats		
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Doctoral:

Name of Department : Veterinary Pharmacology & Toxicology, NVC, Nagpur				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	R. P. Limsay	In-vivo and in-vitro studies on anti-inflammatory activity of hydroethanolic extract of <i>Clerodendrum infortunatum</i>	2018	Dr. A. P. Somkuwar
2	V. I. Borekar	Protective effect of <i>Zingiber officinale</i> and its combination with L-ascorbic acid on induced lead toxicity in poultry	2019	Dr. A. P. Somkuwar

4. Research Papers Published:  
List of Research Publications:

Sr. No.	Authors	Year	Title of Paper	Name of Journal, Vol. No., Year	Volume; Page Nos.	NAAS Rating, if any
1.	Alka Sawarkar, C. R. Jangde, P. D. Thakare, Ranu Kadoo, Sushma Shelu	2009	Analgesic activity of <i>Hibiscus rosa sinensis</i> Linn in rats	Veterinary world, Vol. 02-9, 2009	353-354	NASS
2.	V. I. Borekar, CR Jangde, P Philip, DS Rekhe, SK Atole	2009	Study of antiulcer activity of Bauhinia racemosa Lam in rats	Veterinary World 2 (6),	217	
3.	V I Borekar, CR Jangde, DS Rekhe, P Philip	2009	Study of Analgesic activity of Bauhinia racemosa lam in Rats	Veterinary World 2 (4),	135	
4.	VI Borekar, CR Jangde, P Philip, DS Rekhe, SK Atole	2009	Study of antipyretic activity of Bauhinia racemosa Lam in rats	Veterinary world 2 (6),	215	
5.	Alka Sawarkar, P. M. Sonkusale, N. V. Kurkure, C. R. Jangde, S. Maini, K. Ravikanth	2011	Experimental alfa & ochratoxin induced mixed Mycotoxicosis in broilers & its amelioration with herbomineral toxin binder 'Toxiroak Gold'	International Journal of Poultry Science, Vol. no. 10-7, 2011	560-566	Peer viewed
6.	Alka Sawarkar, M. J. Saxena, S. Maini, K. Ravikanth	2012	Efficacy of herbomineral toxin binder 'Vilocym Z' in amelioration of mixed mycotoxicosis in broilers	International Journal of Poultry Science, Vol. no. 11-3, 2012	209-216	Peer viewed

7.	Alka Sawarkar, P. M. Sonkusale, P. D. Thakare, C. R. Jangde	2014	Ameliorative Effect of Herbomineral Toxin binder 'Vilocym' on Micotoxycosis In Broilers	The Indian Journal of Field Veterinarian s, Vol. No. 10- 2, 2014	8-12	NAAS
8.	Alka Sawarkar, RK Sharma, Vidhi Gautam	2019	Bioprospecting: creating a value for biodiversity	The Pharma Innovation, Vol. no. 08-4, 2019	256-265	NAAS
9.	Alka Sawarkar, RK Sharma, Vidhi Gautam, K Shramankar, Neelam Dinodia	2019	Pharmacovigilance: present status and future perspectives	The Pharma Innovation, Vol. no. 08-5	8-12	NAAS
10.	Alka Sawarkar, RK Sharma, Vidhi Gautam, Madhu Swamy, Anju Nayak, Kabita Roy	2021	Morphological & biochemical characterisation of endophytic bacteria from leaves of tamarind ( <i>Tamarindus indica</i> )	Journal of animal research, Vol. no. 11-2, 2021	317-323	NAAS
11.	Alka Sawarkar, RK Sharma, Vidhi Gautam, K Shraman, Sachin Jain	2021	Enzymatic activity if endophytic bacteria from <i>Tamarindus indica</i> leaves	The Pharma Innovation, Vol. no. 10-1, 2021	249-254	NAAS
12.	Alka Sawarkar, RK Sharma, Vidhi Gautam, K Shraman, Sachin Jain	2021	Antibacterial activity of endophytic bacteria from leaves of <i>Tamarindus indica</i>	The Pharma Innovation, Vol. no. 10-2, 2021	472-475	NAAS
13.	L.A. Khan, D.S. Raghuvanshi, S.C. Vhora, S.G. Utage, P.R. Sirsat, Alka Sawarkar	2007	Efficacy of Myron for treatment & prevention of canine pyometra	The Indian Journal of Field Veterinarian s, Vol. no. 02-4, 2007		NAAS
14.	P. M. Sonkusale, Alka Sawarkar, P.D. Jumde	2011	Hematobiochemical studies of induced ciprofloxacin toxicity in broilers ( <i>Gallus</i>	The Indian Journal of Field Veterinarian s, Vol. no. 07-1, 2011	52-57	NAAS

			<i>gallus domesticus</i> )			
15.	Pratibha Jumde, S.K. Jadhav, S.M. Durge, Alka Sawarkar	2011	Efficacy of herbal preparation against GI nematodes in local pigs	The Indian Journal of Field Veterinarians, Vol. no. 06-3, 2011		NAAS
16.	Swati Umap, C.R. Jangde, Vijeyta Tiwari, Afroz Khan, R.P. Limsay, Alka Sawarkar	2014	Ameliorative effect of <i>Morinda Citrifolia</i>	Journal of Veterinary Pharmacology & Toxicology, Vol. no. 13-2, 2014	128-130	NAAS
17.	P. M. Sonkusale, Alka Sawarkar, P.D. Jumde	2015	Hepatoprotective activity of SuperLiv liquid in CCl <sub>4</sub> induced FLKS syndrome in commercial broilers	The Indian Journal of Field Veterinarians, Vol. No. 10- 4, 2015	27-31	NAAS
18.	Swathi Soman, R.K. Sharma, Varsha Sharma, Vidhi Gautam, K. Sherman, Alka Sawarkar, Jayashri Talpade, N.S. Meena, Rituraj Kewat	2017	Isolation, identification & antibacterial activity of endophytic bacteria isolated from babool leaves	Journal of Veterinary Pharmacology and Toxicology, Vol. No. 16, Issue 2, 2017	64-68	NAAS
19.	Amardeep Kamble, Alka Sawarkar, Sonali Borkar, C.R. Jangde	2017	Effect of <i>Moringa oleifera</i> Lam. on haematological & histopathological parameters in NaF induced toxicity in Wistar rats	Annals of PHYTOMEDICINE (An International Journal) Vol. No.6-1, 2017	57-62	NAAS
20.	Kamal Kishor, Y.P. Sahni, R.K. Sharma, Vidhi Gautam, Anju Nayak, Alka Sawarkar	2019	In-vitro antibacterial activity of Panchgavya, <i>Nigella sativa</i> & <i>Asparagus racemosus</i>	The Pharma Innovation, Vol. no. 08-8, 2019	307-310	NAAS
21.	Thakare P.D., Alka Sawarkar, Pawshe M.D.	2019	Heat tolerance ability & its variability in	The Pharma Innovation,	281-282	NAAS



			different breeds of goats with respect to respiratory rate	Vol. no. 08-8, 2019		
22.	Manish Kumar, Vidhi Gautam, RK Sharma, Randhir Singh, Alka Sawarkar, Neelam Dinodia	2019	Evaluation of wound healing activity of <i>Annona squamosa</i> & cow urine on contaminated wounds of dogs	Journal of Pharmacognosy & Phytochemistry, Vol. no. 08-4, 2019	3443-3448	
23.	Swathi Soman, RK Sharma, Varsha Sharma, Vidhi Gautam, K. Shraman, Alka Sawarkar, Rituraj Kewat, Manish Kumar	2020	Isolation, identification & antibacterial activity of endophytic bacteria from leaves of <i>Acacia catechu</i>	Journal of Animal Research, Vol. no. 10-3, 2020	397-403	NAAS
24.	Prateek Mishra, Vidhi Gautam, RK Sharma, Anushri Tiwari, Alka Sawarkar	2020	Microneedle: a useful tool for drug delivery system	Journal of Pharmacognosy & Phytochemistry, Vol. no. 09-4, 2020	340-345	NASS
25.	Sachin Jain, RK Sharma, Vidhi Gautam, K. Shraman, Arpita Shrivastav, Alka Sawarkar	2021	Morphological characterisation & enzymatic activity of endophytic bacteria from <i>Aegle marmelos</i> leaves	The Pharma Innovation, Vol. no. 10-8, 2021	406-409	NAAS
26.	Mahesh Harke, Arju Somkuwar, Sonal Dubey, Rajesh Limsay, Swati Umap, Alka Sawarkar, Vivek Borekar	2021	Qualitative & quantitative phytochemical evaluation of ethanolic extract of <i>Mentha piperita</i> (Linn.)	The Pharma Innovation, Vol. no. 10-5, 2021	996-1000	NAAS
27.	Gaurav S. Bansod, Vinod Ramteke, Raman Belge, A.P. Somkuwar, Alka Sawarkar	2022	Comparative evaluation of antidepressant property of <i>Unmad gajkesari rasa</i> & Fluoxetine hydrochloride	International Journal of Health Sciences and Research, Vol. no. 12-3, 2022	160-168	Peer viewed

			w.s.r. to Chronic Unpredictable Mild Stress induced depression (Avsard) in wistar rats			
28.	Pradnya C. Diwthe, Alka Sawarkar, A.P. Somkuwar, Kranti Kharkar	2023	Histopathological alterations in Streptozotocin-induced diabetic wistar rats treated with methanolic extract of bark of <i>Neolamarckia cadamba</i>	International Research Journal of Natural and Applied Sciences, Vol. no. 10-12, 2023		Peer reviewed
29.	Pradnya C. Diwthe, Alka Sawarkar, A.P. Somkuwar, Sonal Dubey, R.P. Limsay, S.A. Umap	2023	The hypoglycaemic effect of stem bark of neolamarckiacad maba on streptozotocin-induced diabetes wistar rats	Journal of Veterinary Pharmacology & Toxicology, Vol. No. 22-1, 2023	72-76	NAAS
30.	Sonali Borkar, Alka Sawarkar, Suresh G. Jadhao, Prashant Thakare	2016	Phytochemical analysis of aqueous and alcoholic extract of medicinal plants	International Journal of Scientific Research Management, Vol. No. 4, Issue 9, 2016	4578-4585	NAAS
31.	V. I. Borekar, A. P. Somkuwar, Alka Sawarkar, R. P. Limsay, S. A. Dubey, S. A. Umap	2024	Effect of hematology by <i>Zingiber officinale</i> on leak induced toxicity in broilers	Journal of Pharmacognosy & Phytochemistry, Vol. no. 13-1, 2024	142-145	NASS
32.	A. R. Sawarkar, Pradnya Diwathe, Swati Umap, Kranti Kharkar, V. I. Borekar	2023	The qualitative phytochemical screening and GC-MS analysis of methanolic extract of stem bark of	International Research journal of natural and Applied Sciences.	Page no. 12-21	7.3 IF

			<i>Neolamarckia cadamba</i>	Issue 12, Volume 10, 2023		
33.	Pradnya C Diwthe, A. Sawarkar, AP Somkuwar, Sonal Dubey, R.P. Limsay and S. Umap	2023	The hypoglycemic effect of stem bark of <i>Neolamarckia cadamba</i> on streptozotocin - induced diabetes Wistar rats	Journal of Veterinary Pharmacology and Toxicology, 2023, Issue 1, Volume 22,	72-76	4.2 NAAS
34.	Pradnya C Diwthe, A. Sawarkar, AP Somkuwar	2023	Histopathological alteration in streptozotocin induced diabetic Wistar rats treated with methanolic extract of bark <i>Neolamarckia cadamba</i>	International Research journal of natural and Applied Sciences Issue 12, Volume 10, 2023	Page no. 22-30	7.3 IF
35.	Tejal Bhapkar, Swati Umap, AP Somkuwar, Alka Sawarkar, Gauri Deshmukh, MM Purankar	2024	Swimming Through Science: Unveiling the Secrets of Endocrine Disruptors with Zebrafish Models	. Chron Aquat Sci. 1(10) 2024	115-129	----
36.	Mahesh Harke, Arju Somkuwar, Sonal Dubey, Rajesh Limsay, Swati Umap, Alka Sawarkar, Vivek Borekar	2021	Qualitative and quantitative phytochemical evaluation of ethanolic extract of <i>Mentha piperita</i> (Linn.)	The Pharma Innovation Journal 10 (5),	996-1000	5.03
37.	VI Borekar, AP Somkuwar, RP	2018	Evaluation of active	Journal of Pharmacogn	2779-2783	5.21

	Limsay, NV Kurkure, SW Bonde		components from ethanolic extract of Zingiber officinale rhizomes	osy and Phytochemistry 7 (4),		
38.	VI Borekar, AP Somkuwar, NV Kurkure, SW Bonde, M Hedau	2020	Safety evaluation of Zingiber officinale rhizomes extract in Wistar rats	The Pharma Innovation Journal, SP-9 (9),	118-122	5.03
39.	VI Borekar, AP Somkuwar, AR Sawarkar, RP Limsay, SA Dubey, SA Umap	2024	Therapeutic effect of Zingiber officinale on serum biochemical parameters in lead intoxicated broiler chickens	International Journal of Veterinary Sciences and Animal Husbandry 2024; SP-9(6):	231-236	4.61
40.	VI Borekar, AP Somkuwar, AR Sawarkar, RP Limsay, SA Dubey and SA Umap	2024	Effect of Zingiber officinale on blood and tissue lead residue of broiler chicken	International Journal of Veterinary Sciences and Animal Husbandry 2024; SP-9(6):	82-86	4.61
41.	VI Borekar, AP Somkuwar, AR Sawarkar, RP Limsay, SA Dubey, SA Umap	2024	Evaluation of antioxidant effect of Zingiber officinale on lead intoxicated broiler chicken	International Journal of Advanced Biochemistry Research 8 (11),	573-579	5.26
42.	A Sawarkar, T Bhapkar, S Dubey, S Umap, V Borekar	2024	The anti-pyretic activity of aqueous and alcoholic extract	International Journal of Advanced Biochemistr	388-390	5.26

			of stem bark of <i>Neolamarckia cadamba</i> on brewer's yeast-induced wistar rats	y Research 8 (8),		
43.	RP Limsay, AP Somkuwar, SW Bonde, VK Kakde, SS Shirankar, VI Borekar and RA Jagdale	2021	In vitro anti-inflammatory activity of <i>Clerodendrum infortunatum</i> L. leaves	The Pharma Innovation Journal 2021; 10(9):	01-04	5.03
44.	VI Borekar, AP Somkuwar, NV Kurkure, SW Bonde and MM Kadam	2021	Effect on physical parameters by <i>Zingiber officinale</i> on lead induced toxicity in broilers chickens	Journal of Entomology and Zoology Studies 2021; 9(1):	572-575	5.00
45.	Swati A Umap, Chandrakant R Jangde, Vijeyta Tiwari, RP Limsay, A Jahan, AG Bhandarkar, NV Kurkure	2014	Amelioration of Dimethoate-induced toxicity by <i>Morinda citrifolia</i> in Wistar albino rats	Indian Association of Veterinary Pathologists 38 (4),	244-249	
46.	Mayur Purankar, Alka Sawarkar, Somkuwar AP, Madhuri Hedau, Manoj Patil and Swati Umap		Evaluation of serum biochemical and anti-cancerous activity of <i>Neolamarckia cadamba</i> against DMBA induced in Wistar rats	International Journal of Advanced Biochemistry Research 2024; SP-8(4):	382-386	5.26
47.	Afroz Jahan And Swati Umap Limsay R. P., Jangde C. R.	2014	In Vitro anthelmintic activity of hydroethanolic	Indian Journal of Veterinary Pharmacology	128-130	4.5

			and aqueous Sesbania Sesban, Pers. leaf extract against Moneizia Expansa and Paramphistomes	gy & Toxicology 13 (2),		
48.	J Afroz, CR Jangde, K Sanweer, AU Swati	2013	In Vitro Anthelmintic Activity Of Phyllanthus nruri Linn. Against Paramphistomes	J Pharm and Phram Sci 5 (5),	836-8	
49.	Pradnya C Diwthe, Dr. Alka Sawarkar, Dr. Swati Umap and Dr. AP Somkuwar	2024	Endophytes and their therapeutic application	Internationa l Journal of Advanced Biochemistr y Research 2024; 8(1):	399-410	5.26
50.	A Jahan, CR Jangde, S Khatoon, RP Limsay, V Awasthy, NV Kurkure	2020	Effect of Carissa carandas on Bone Marrow Toxicity induced by Monocrotophos	Journal of One Health  January- March 8 (01),	06-09	

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.	
1	डॉ. स्वाती उमप, डॉ. आरजू सोमकुवर, डॉ. अलका सावरकर, डॉ. सोनालदुबे	2022	पशूंमध्ये होणारे सर्पदंश आणि त्यांचे व्यवस्थापन	गोडवा उसाचा(publication)	01	109-110
2	डॉ. अलका सावरकर, डॉ. आरजूसोमकुवर, डॉ. सोनालदुबे,	2022	तुळस,	गोडवा उसाचा,	अंक ०५,	३१ – ३३
3	डॉ. अलका सावरकर, डॉ. आरजूसोमकुवर, डॉ. सोनालदुबे,	2022	कदंब,	गोडवा उसाचा,	अंक ०५,	३४ – ३५
4	डॉ. अलका सावरकर, डॉ. आरजूसोमकुवर	2024	सायनाइडविषबाधा,	गोडवा उसाचा,	अंक ०१,	३६ – ३९
5	डॉ. अलका सावरकर, डॉ. अरजुसोमकुवर	2024	नायत्रेतविषबाधा	गोडवा उसाचा,	01	114
6	डॉ. स्वाती उमप डॉ. अलका सावरकर,	2024	शेळ्यामध्येहोणाऱ्या विविध विषबाधा व उपाय	गोडवा उसाचा	01	115
7	डॉ.मुजीतकोलंगत, डॉ. अलका सावरकर, डॉ. मयूर पावशे	2023	म्हैस पालनात वासरू संगोपनाचे महत्व	गोडवा उसाचा	01	116
8	डॉ. गौरी, अलका सावरकर, डॉ. आरजूसोमकुवर	2024	जास्वंद,	गोडवा उसाचा	01	117

## 5. Research Recommendations

Sr. No.	1
Year	2024
Project Title	Wound healing activity of Clerodendrumin fortunatum extract ointments in cattle
Investigators	R.P. Limsay, A.P. Somkuwar, A.R. Kokate, Prabhu Ram and G.A. More
Recommendations	It is recommended to use the methanolic extract of Clerodendrumin fortunatum (Khanduchakka) plant leaves at the concentration of 10% in ointment base for cure of wound in animals.



## 6. MOU signed by the Colleges

Sr. No.	MOUS Between		Date of signing	Place	Duration
	Party – 1 & Party - II				
1	NVC, Nagpur	Shri. Ayurved Mahavidyalaya, Nagpur	13.10.2023	Nagpur	13.10.2023 to 12.10.2026
2	NVC, Nagpur	Central Ayurveda Research Institute, Banglore (CARI)	16.06.2022	Nagpur	16.06.2022 to 15.06.2025
3	MAFSU, Nagpur	AIIMS, Nagpur	08.08.2022	Nagpur	08.08.2022 to 07.08.2025
4	NVC, Nagpur	Rashtrapita Mahatma Gandhi Art & Sciences College, Nagbhid	01.06.2020	Nagpur	01.06.2020 to 31.05.2025

8. Research Priorities / Thematic areas: Department Wise

- Antimicrobial Resistance
- Studies on Complementary & Alternative Medicine (CAM) and Ethnoveterinary Medicine (EVM) by using Animal models
- Improvisation/Modification in drug delivery system/formulations.
- Regulatory Toxicological studies
- Pharmacokinetic Studies