

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	Assessment of mineral profile relationship of animals, ,soil, feeds and fodders in Maharashtra for improvement of Livestock potential (Pune Division)	Dr.V.R Patodkar	MLDB	Rs.13.69 Lacs	Extramural	Completed	3 years
2	Investigating association between leptin and Kisspeptin in non-fertile and fertile cows	Dr. P.S.Thakur	MAFSU	2.00 lacs	Intramural	Completed	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	Climate change	To understand the seasonal change and effect of climate change in different animals	To find out the biomarkers responsible for adaptation in breeds for particular season in order to learn about the adaptation mechanism	If the climate shifts in coming years farmers will know which breed can survive under which condition which may help in its production

4. **Thesis:**
Master:

Name of Department :				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Kamble Kshamata Yogendra	Serum trace minerals content and hemato- logical profile during gestation and early lactation in Sangamneri goats	2013	Dr. V.R.Patodkar
2	Sonawane Nilesh Dinkar	Certain haematologicla parameters in relation to age and sex in Turkey	2014	Dr. V.R.Patodkar
3	Devhane Nitin Dogarsing	Serum mineral Profile during different stages of growth in female Pandharpuri buffaloes	2015	Dr. V.R.Patodkar
4	Patil Ujwala Raghunath	Certain serum trace minerals and vitamins in lactating and non-lactation Panghrpuri buffaloes	2016	Dr. V.R.Patodkar
5	Jumnake Aishvrya Rajendra	Effect of heat stress on physiological, haemato- biochemical parameters and HSP- 70 gene expression in Madgyal sheep	2024	Dr. V.R.Patodkar

Doctoral:

Name of Department:				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Vishwambhar Ramchandra Patodkar	Mineral Profile of buffalo in relation to lactational and reproductive status	2014	Dr. S.T. Bapat
2	Pangaonker Lakxmikant Ashokrao	Studies on HSP70 gene Expression pattern and certain enzymatic antioxidants during different seasons in Deccani sheep	2022	Dr. V.R.Patodkar

5. **Research Papers Published:**
List of Research Publications:

Sr · N o.	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAA S Ratin g, if any
1	V.M.Sardar, S.W.Bonde and V.R.Patodkar,	2015	Effect of different glycerol levels in egg yolk citrate extender on freezability of ram semen.	The Indian journal of Veterinary Sciences and Biotechnology	11(2), 23-27	—
2	V.M.Sardar, S.W.Bonde, V.R.Pat odkar and S.M.Bhokre	2015	Influence of Different Glycerol Levels in Skim Milk Diluent on Freezability of Ram Semen	Progressive Research- An International Journal	Vol. 10 (IV) 2308-2310	--
3	Sonavane N.D., Patodkar V.R., Sardar V.M., Kakam A.S., Jadhav S.N., and Lonkar V.D.	2017	Influence of age on certain blood biochemical parameters in turkey birds	Indian Res. J. Ext. Edu. Special issue,(1)	62-66	6.2
4	Sonavane N.D., Patodkar V.R., Sardar V.M., Kakam A.S., Mehere P.V., and Lonkar V.D.	2018	Influence of sex on the blood biochemical parameters in turkey birds	International Journal of Livestock Research	8(5), 239-245	5.36
5	Pathan, A. C., Khanvilkar, A.V., Bhokre, S.M., Hande, S.T., Patodkar V.R. and Bhalerao, S.M	2018	Behavioural patterns and body condition score in relation to different rearing rearing systems on Sangamneri goats	International J of Current Research,	10,(05), 69248- 69252	
6	Sonawane, N.D., Patodkar, V.R. , Sardar, V.M., Kadam, A.S., Mehere, P.V. and Lonkar, V.D.	2018	Influence of Sex on the Blood biochemical parameters in Turkey birds	International J of Livestock research	Vol. 8 (5): 239- 245	
7	Patodkar V. R., Jadhav S.N., Bhong C.D., Barate A.K., and Mehere P.V.	2018	Seasonal Variation In Copper and Zinc Levels of Soil, Feed, Fodder and Dairy Animals in Pune District of Maharashtra.	International Journal of Agricultural Sciences, ISSN : 0975-3710,	Volume 10, Issue 14, (July 2018) 6765-6768.	
8	C.D. Vanjari, S.M. Bhalerao, A.V. Khanvilkar and V.R. Patodkar	2018,	Supplementati on of Chromium Propionate with	The Indian Vet J	. 95(10) : 10- 13.	

			Significant Effect on Nutrient Intake, Feed Efficiency and Nutrient Digestibility in Lactating Murrah Buffaloes			
9	Huai Guan , Maoying Wang , Chenghong Liao, Jing Liang, Prajwalini Mehere, Meiling Tian, Hairong Liu, Howard Robinson, Jianyong Li, Qian Han	2018	Identification of aaNAT5b as a spermine N-acetyltransferase in the mosquito, <i>Aedes aegypti</i>	Plose One	Online published	8.91
10	M.V. Parkhe, S.M. Bhalerao1, A.V. Khanvilkar, V.R. Patodkar and A.Y. Doiphode	2018	Dried Citrus Pomace can Replace Maize Upto Fifty Per Cent without any Adverse Effect in Goats (<i>Capra hircus</i>)	Indian Vet. J.,	95 (10) 14 - 16	4.42
11	P.V Mehere and V.R.Patodkar		Importance of stem cells and regenerative medicines- international vs Indian scenario	International Journal of Biotechnology and Research	Online published	4.2
12	P.V.Mehere S. Bag and V.R Patodkar	2018	Identification and characterization of totipotent and pluripotent stem cells from buffalo embryo and placenta	Journal of medical science and clinical research,	Online published	
13	Daware A.G Lonkar V.D Randae A.S	2018	Effect of dietary supplementati	International Journal of	(10), 7150-7155	4.82

	Patodkar V.R Mote C.S Bhalerao S.M Doiphode A.Y		on of L-Valine on carcass caharacteristic, immunity and serum biochemicals of broiler	Agriculture science, 2018		
14	Yenge G.D Lonkar V.D Randae A.S Patodkar V.R Mote C.S Bhalerao S.M Doiphode A.Y	2018	Dietary supplementati on of combination of inulin and saponin on egg yolk lipid and serum biochemical profile in laying hens	International journal of science, environment and technology, 2018:7(5) pp1711-1720	1711-1720	
15	Devhane N.D., Patodkar V.R. , Sardar V.M., Mehere P.V., Pangaonkar L.A., Bhalerao S.M.	2019	Certain micromineral concentrations during different stages of growth in female pandharpuri buffaloes	International Journal of Agriculture Sciences, Volume 11, Issue 7, 2019	8212-8215	4.2
16	UR Patil, VR Patodkar , VM Sardar, PV Mehere and LA Pangaonkar	2019	Certain serum trace minerals in Pandharpuri buffaloes.	International Journal of Agriculture Sciences, Volume 11, Issue 17, 2019	8964-8967	4.2
17	Patodkar V.R. , Jadhav S.N., Barate A.K. Jadhav Y.B. and Mehere P.V.	2019	Seasonal Variation in Levels of Copper and Zinc in Soil, Feed, Fodder and Serum of dairy Animals from Sangli District of Maharashtra.	International Journal of Agriculture Sciences, Volume 11, Isue 17, 2019	8996-8999	4.2
18	M.H. Redekar, S.M. Bhalerao, A.V. Khanvilkar,	2019	“ <i>Moringa Oleifera</i> ” Leaf Meal	Indian Vet. J. June 2019, 96(06) : .	43-45	4.2

	V.R. Patodkar and A.Y. Doiphode.		Supplementat ion on the Performance Of Growing Sheep.			
19	B.N. Ambore, S. Maini, V.R. Patodkar and S.T. Borikar.	2019	Effect of Transportation on Body Weight and Hematology in Goats.	<i>Int. J. Curr. Microbiol. App.Sci.</i> 8(7) : xx-xx		5.38
20	Patodkar V.R., Jadhav S.N., Bhong C.D., Barate A.K. and Mehre P.V.	2019	Seasonal Variation In Levels Of Copper And Zinc in Soil, Feed, Fodder and Serum of dairy Animals From Kolhapur District Of Maharashtra.	International Journal of Agriculture Sciences, Volume 11, Issue 17, 2019 pp	8979-8982	4.2
21	VR Patodkar, PV Mehre and SN Jadhav.	2019	Leptin hormone diversity in different species - explained with polymorphism study in Pandharpuri buffalo.	Journal of Entomology and Zoological Studies	414-416.	4.2
22	G. S. Ubhare, R. V. Suryawanshi , A. H. Ulemale , A. B. Mali, C. S. Mote, U. M. Tumlam, P. V. Mehre , S. B. Swami, Y. B. Jadhav and P. B. Chougale	2021	Diagnosis of Lower Respiratory Tract Diseases with the Help of Bronchoalveolar Lavage Fluid in the Equines	International Journal of Livestock Research,	Vol. 11 (9) Sep'	5.3
23	M.M Pawade, P.P. Mhase, D.M. Muglikar, V.D. Lonkar, P.V. Mehre , P.R.	2021	Isolation and molecular characterization of Turkey pox virus from	Indian Journal of Animal Research	347-349	6.4

	Shelke, S.S.Kapgate		Maharashtra, India.			
24	L.A.Pangaonkar, V.R.Patodkar, M.B.Amle, A.V.Khanvilkar,	2021	Seasonal effect of THI on HSP70 gene expression pattern in Deccani Sheep	Indian Journal of Animal Research	57(6): 811-814	6.4
25	Patodkar VR, Sardar VM, Mehre PV,	2023	Assessment of seasonal changes in magnesium in soil, feed fodder and serum of livestock from Sangli district of Maharashtra	The Pharma innovation journal	12(5): 1470-1474	5.3
26	R.P.Kolhe, V.S.Waskar, and P.V.Mehere	2023	Antimicrobial Resistance pattern of Salmonella species recovered from livestock and poultry	Asian Journal of Food and Dairy Research	10.18805/ajdfr. DR-1927	5.7
27	Vikas M. Sardar, Mahesh Gupta, Jayant P. Korde, Krushna B. Bahiram, Sachin W. Bonde	2023	Orexin system in buffalo ovarian follicles and effect of orexin on oestradiol production	Reproduction in domestic animal	DOI: 10.1111/rda.1433 9	7.70
28	Aishvarya R. Jumnahe, Vishwambhar R. Patodkar, Vikas M.Sardar, Prajwalini V. Mehre, Sameer N.Jadhav and Sachin S. Pawar	2024	Effect of Heat Stress on Physiological Parameters in Madgyal Sheep	Uttar Pradesh Journal of Zoology	Volume 45, Issue 14, Page 164-169, 2024; Article no.UPJOZ.3684 ISSN: 0256-971X (P)	—

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1	Dr. Krushna Bahiram, Dr. Jayant Korde, Dr. Mahesh Gupta, Dr.	2021- 22	Duddha utpadn vadhi karita krutrim retan : kalachi graj (Feb.2022)	Godva sheticha	78

	Vikas Sardar & Dr. Manoj Patil				
2	Dr. V.R.Patodkar, Dr. V.M.Sardar & Dr. P.V.Mehere	2022-23	Janvranchya arogyavr thpmanach prinam	Agrowon 07/04/22	10
3	Dr. V.R.Patodkar, Dr. V.M.Sardar	2022-23	Janavrana dhya purese pani	Agrowon 05/05/22	10
4	Dr. V.R.Patodkar, Dr. V.M.Sardar Dr. P.V.Mehere & Dr. S.N.Jadhav	2022-23	Prajnna samndhi samprerakanche mhatya ani karya	ARGO magazine 05/05/22	16
5	Dr. V.M.Sardar Dr. S.M.Bhalerao	2022-23	Navjat vasrache yogya vevasthapan	Agrowon 06/09/22	12
6	Dr. S.M.Bhalerao Dr. V.M.Sardar	2022-23	Sadosh charyamule Janavrana honare aajar	Agrowon 31/10/22	12
7	Dr. V.M.Sardar, Dr. V.R.Patodkar & Dr. P.V.Mehere	2022-23	Thandicha hotoy Janavranvr parinam	Agrowon 21/11/22	12
8	Dr. P.V.Mehere & Dr. V.M.Sardar,	2022-23	Janvranchya Arogyasathi adrate che mahatva	Agrowon 23/11/22	12
9	Dr. V.M.Sardar, Dr. P.V.Mehere Dr. V.R.Patodkar	2022-23	Janavranchi Arigya Tapasani Mahatwachi	Agrowon 08/11/22	10
10	Dr. S.M.Bhalerao Dr. V.M.Sardar	2022-23	Hivalatil sheli Mendhiche Vevsthan	Agrowon 06/12/22	12
11	Dr. V.M.Sardar, Dr. V.R.Patodkar & Dr. P.V.Mehere	2022-23	Ala Hivala Pashudhan Sambhala	Agrotouch Pashupalan Masik Dec. 2022	27
12	Dr. V.M.Sardar, Dr. V.R.Patodkar Dr. P.V.Mehere & Dr. S.M.Bhalerao	2022-23	Jnavratil Maj olakhane mahatvache	Agrotouch Pashupalan Masik March 2023	22
13	Dr. S.M.Bhalerao Dr. V.M.Sardar & Dr. Samadhan Grande	2023-24	Janavranchnya Aharat chileted Khanij Mishran vapra che tantra.	Agrowon 05/4/23	12
14	Dr. S.M.Bhalerao Dr. V.M.Sardar & Dr. Samadhan Grande	2023-24	Dubhatya gae, Mhashi sathi Baypas fat cha vapor	Agrowon 07/04/23	12
15	Dr. V.R.Patodkar, Dr. V.M.Sardar Dr. P.V.Mehere	2023-24	Tapman vadhicha dudha utpadnavr v prjnnavr parinam.	Agrowon 27/04/23	12

6. Research Recommendations

Sr. No.	1
Year	2022-23
Project Title	Studies on HSP70 gene Expression pattern and certain enzymatic antioxidants during different seasons in Deccani sheep
Investigators	L.A.Pangaonker, V.R.Patodkar, P.V.Mehere M.B.Amle, A.V.Khanvilkar & S. Lambate

Recommendations	It is recommended that the HSP70 gene expression in peripheral blood mono- nuclear cell can be used as a sensitive biomarker of oxidative stress in heat stress in Dekhani sheep.
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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

9. Significant Research Achievement:

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