Curriculum Vitae



Name Dr. Duggirala Srinivas Murty

Date of Birth 18th November 1969

Current Position Professor, Head and Dean

Field Microbiology

Address (Office) Biogas Research Centre, P.G. Department of

Microbiology, M. D. Gramsewa Mahavidyalaya, Gujarat Vidyapith Sadra-382320 Dist.; Gandhinagar,

Gujarat, India

Address 102, Avadh Residency, Near Prernatirth, Jain Temple

(**Residence**) Satellite Road, Ahmedabad-15

E. Mail : dsrinivasmurty@gmail.com,

dsrinivasmurty@gujaratvidyapith.org

Phone (Office) 079-23274274

Residence) +91-9824268626

Academic Qualifications

Exam passed	Board University	Subjects	Year	Class Division
Ph.D.	Gujarat University	Microbiology	2004	Awarded
M.Sc.	Gujarat University	Microbiology	1993	\mathbf{H}^{nd}
B.Sc.	Gujarat University	Microbiology	1990	Ist

Employment Details

Sr.	Experience	Designation	University
No.			
1	1-11-1993 to 31-1-1995	Research Assistant	Gujarat Vidyapith
2	1-2-1995 to 31-1-2006	Lecturer	Gujarat Vidyapith
3	1-2-2006 to 31-1-2012	Associate Professor	Gujarat Vidyapith
4	Since 1-2-2012	Professor	Gujarat Vidyapith

Contribution to Teaching

Courses Taught	Name of University /College Institution	Degree/ Semester Theory and Practicals
Immunology	Gujarat Vidyapith	M.Sc. Semester 1
rDNA Technology	Gujarat Vidyapith	M.Sc. Semester 2
Biomethanation	Gujarat Vidyapith	M.Sc. Semester 3
Dissertation	Gujarat Vidyapith	M.Sc. Semester 4
Ph.D.	Gujarat Vidyapith	Course Work and Research Work

Area of Specialization

Sr.	Research Area	Since Year	
1	Microbiology and Environmental Biotechnology	1995	
2	Biomethanation and Co-Digestion	1995	
3	Microbial Enzymology and Applications	2004	
4	Anaerobic Microbiology, Rumen Microbiology	2001	
	Presently Working in the areas	of	
1	Anaerobic Treatment of Paper and Pulp industry waste		
2	"Solid State Fermentation for Animal Feed Improvement" jointly with researchers of Department of Animal Nutrition, Anand Agricultural University (AAU), Anand, Gujarat 388001, India		
3	Valorization of Vegetable Market waste by Solid State Fermentation		
3	"Isolation and characterization of Specific Tropic Groups of Strict Anaerobes from Cattle Rumen" jointly with researchers of Department of Animal Biotechnology, College of Veterinary Science and Animal Husbandry, Anand Agricultural University (AAU), Anand, Gujarat 388001, India		
4	"Isolation and characterization of Specific Tropic Groups of		

Academic Programme and Courses Evolved:

- 1. Immunology
- 2. Recombinant DNA Technology
- 3. Methanogenesis Ecology Physiology and Genetics
- 4. M. Phil. and Ph.D. course work

Involvement in Departmental Development

- 1. Induction of P.G Diploma, B.Sc. and M.Sc. Courses
- 2. Development of Campus
- 3. Development of Laboratories

Research Guidance

1. Master Thesis: 85

2. M. Phil.: 6

3. Ph.D.: Awarded: 1 (Co-Guide)

4. Registered: Pursuing 04

Publications: Papers Published

Sr. No	No. Title of Paper/Report/Book	Author(s)	Name & Vol. of Journal & Year		No
				From	То
1	A Study on Production of plant Growth Promoters and Mineral Solubilization Ability of Indigenous Rhizobacteria Isolated from Allium cepa (L).	Ashruti Pawar, Sharada Patil, Srinivas Murty Duggirala	International Journal of Research and Analytical Reviews (IJRAR) Year 2019, Vol 6, Issue 1, ISSN 2349-5138	138- 143	
2	Influence of Supplementing Solid State Fermented Biomass on Digestibility, Microbial Nitrogen Supply and Enteric Methane Emissions in Cattle	P.L. Sherasia, P.R. Pandya, S. Parnerkar, M.V. Prajapati, S. Murty		138	143
3	In Vitro Digestibility and Methane Production as Affected by Incorporation of Different Levels of Solid State Fermented Biomass in Total Mixed Rations	P.L. Sherasia, P.R. Pandya, S. Parnerkar, S. Murty, B.R. Devalia	Indian Journal of Animal Nutrition, Year 2017, Volume-34 (4):420-424 Print ISSN : 0970-3209 Online ISSN : 2231-6744	420	424

4	Genome sequencing of <i>Pediococcus acidilactici</i> (NRCC1), a novel isolate from dromedary camel (<i>Camelus dromedarius</i>) rumen fluid	Rakesh Ranjan & Ramesh J. Pandit & Srinivas M. Duggirala & Chaitanya G. Joshi & Shradhdha Sharma & Niteen V. Patil	Annals of Microbiology 68(2) 103-110, Year 2017 https://doi.org/10.1007/s13213- 017-1320-0	103	110
5	Mechanistic aspects of Au(III) sorption by <i>Aspergillus terreus</i> SRD49	Kruti R. Shah, Srinivas M. Duggirala, Devayani R. Tipre and Shailesh R. Dave.	Journal of the Taiwan Institute of Chemical Engineers 80:46-51, Year 2017	46	51
6	Influence of Incorporating Different Levels of SSF Biomass containing DFM in Total Mixed Ration on <i>In vitro</i> Digestibility and Methane Production	P.L Sherasia, P. R Pandya, S. Parnekar, Srinivas Murty and B. R Devalia	Indian Journal Of Animal Nutrition 34(2):145-149, Year 2017 Doi:10.5958/2231-6744. 2017.00067.	145	149
7	Antibacterial Activity Of Abutilon pannosum And Grewia tenax Leaves Extracts	Mital K. Aadesariya, Bhagwati M. Gauni, Srinivas M. Duggirala, Vijay R. Ram, Suhas J. Vyas.	World Journal of Pharmaceutical Research, 6(16) 1259-1274, Year 2017 ISSN 2277–7105 doi: 10.20959/wjpr201716-10325	1259	1274
8	Characterization and Bioprospecting of Fungi for Ag(I), Au(III) and Pd(II) sorption	Kruti R. Shah, Srinivas M. Duggirala, Devayani R. Tipre and Shailesh R. Dave.	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 doi: 10.20546/ ijcmas. 2016.505.065 5(5): 647-656, Year 2016	647	656
9	Pretreatment optimization of Sorghum pioneer biomass for bioethanol production and its scale-up.	Manoj Koradiya, Srinivas Duggirala, Devayani Tipre, Shailesh Dave.	Bioresource Technology. 199:142-149, Year 2016 doi.:10.1016/j.biortech.2015.08.1 56. ISSN: 0960-8524 Elsevier	142	149
10	Correlation between genomic analyses with metatranscriptomic study reveals various functional pathways of Clostridium sartagoforme AAU1, a buffalo rumen isolate.	Neelam M. Nathani, Srinivas M. Duggirala, Vaibhav D. Bhatt, Amrutlal K Patel, Ramesh K. Kothari & Chaitanya G. Joshi.	Journal of Applied Animal Research. 44(1) pp. 498-507, Year 2016 http://dx.doi.org/10.1080/097121 19.2015.1091346	498	507
11	Isolation of chitinolytic <i>Clostridium sp.</i> NCR from Mehsani buffalo rumen, its genomic analysis and potential role in rumen	Neelam M. Nathani, Srinivas M. Duggirala, Chandra Shekar M., Ramesh K. Kothari, Chaitanya G. Joshi	Genomics Data ISSN: 2213-5960 2(5):109–111, Year 2015 http://dx.doi.org/10.1016/j.gdata. 2015.05.017 2213-5960	109	111
12	Bacillus nealsonii AAU1; Anaerobic; Phenotypic Characterization; Genomic Analysis.	Neelam M. Nathania, Srinivas M. Duggirala, M. Chandra Shekara, Ramesh K. Kothari, Chaitanya G. Joshi.	Journal of Genomics Data. 2(5): 109-111 doi:10.1016/j.gdata.2015.05.017. Publisher: Elsevier Year 2015	109	111

13	Bacterial b-glucosidase production.	Ruchita Bhuva, D. Srinivas Murty, Bhatt Nikhil.	Vidyapith. Vol 1:88-99, Year 2015 ISSN-0976-5794	88	99
14	Field Scale Comparative Study on Application of DAP, Urea and Humic Acid on Soil Flora and Crop Productivity.	Sheth Niraj T., Desai Jigeesha K., Patodiya Mehula M., Bhatt Nikhil S., Duggirala Srinivas M.	Vidyapith. Vol 4:17-31, Year 2015 ISSN-0976-5794	17	31
15	Vermiconversion of Potato Waste By <i>Eisenia foetida</i> and Its application on the growth of <i>Vigna radiate</i> and <i>Trigonella</i> <i>foenumgraecum</i>	Bhumi Patel, Niraj Sheth, Srinivas Murty, Nikhil Bhatt and Rajendra Khimani	Vidyapith. Vol 4:48-64, Year 2015 ISSN-0976-5794	48	64
16	Study on Reactive decolourization by Anaerobic Bacteria	Sheth Niraj T., Bhimani Bhumika M., Bhatt Nikhil S., Duggirala Srinivas M.	Vidyapith. Vol 4:65-81, Year 2015 ISSN-0976-5794	65	81
17	Isolation Structural Characterization and Production of EPS using batch culture by Bacillus Sp. Isolated from soil.	Viral Shukla, Manisha Patel, D Srinivas Murty.	International Journal of Research in Engineering and Applied Science. ISSN: 2248-1862, Year 2015 IJERS Vol 2(3):102-109	2248	1862
18	Genomic analysis of a novel strain of <i>Bacillus nealsonii</i> , isolated from Surti buffalo rumen.	Neelam M. Nathania, Srinivas M. Duggirala, Ramesh K. Kothari, Chaitanya G. Joshi	Advances in Bioscience and Biotechnology. 5: 235-245, , Year 2014 ISSN Online: 2156-8502 Publisher: Hindwai	235	245
19	Remediation of Textile Reactive Dyes Using Anaerobic Rumen Consortium.	D Srinivas Murty, Sheth Niraj, Nikhil S Bhatt, Unnati Vanjani.	International Journal of Recent Scientific Research. Vol. 4(9):1400-1405, , Year 2013 ISSN: 0976-3031	1400	1405
20	Characterization of Bacillus sp. and Protease Production in SSF.	D Srinivas Murty, Patel Himanshu, Koradiya Manoj, Nikhil S. Bhatt.	JSR - International Journal of Scientific Research. Volume: 2(9):22-24, Year 2013 ISSN No 2277-8179	22	24
21	Isolation and Characterization of Bacteria from Dye Wastewater Treating Down Flow Fixed Film Reactor (DFFR).	D Srinivas Murty, Sheth Niraj, Pawar Ashruti, Nikhil S Bhatt.	International Journal of Engineering Research & Technology. 2(10):3270-3280, Year 2013 ISSN: 2278-0181	3270	3280
22	Isolation and Identification of Bacterial Culture for Azo Dye Degrading Capability.	D Srinivas Murty, Patel Suhagi, Soni Rakesh, Nikhil S Bhatt.	International Journal For Research In Chemistry and Environment. 2: 69-79, Year 2012 ISSN: 2248-9649	69	79
23	Antibacterial activity of certain commonly used spices against opportunistic pathogenic bacteria.	D Srinivas Murty, Nikhil S. Bhatt, Nishant S Junnarkar and Divyesh Chauhan.	Bioscience Guardian. 2(1):167-170, Year 2012 ISSN 2277-9493	167	170
24	Biodegradation study on Reactive Blue 222 by bacterial consortium.	Bhatt Nikhil S, Vaghasiya Harsha M and D Srinivas Murty.	Bioscience Guardian. 2(1): 137-150, Year 2012 ISSN 2277-9493	137	150

25	Metagenomic analysis of Surti buffalo (Bubalus bubalis) rumen a preliminary study.	Singh K.M., Ahir V.B., Tripathi A.K., Ramani U.V., Sajnani M., Koringa P.G., Jakhesara S., Pandya P.R., Rank D.N., Murty D.S., Kothari R.K., Joshi C.G.		4841	4848
20	Interrelationship between alkaline phosphatase activity and soil characteristics.	Bhatt Nikhil S, Asma Sherasiya, D Srinivas Murty and Nishant S. Junnarkar.	Bioscience Guardian. 1(2): 473-480, Year 2012 ISSN 2277-9493	473	480
27	Anaerobic treatment of dairy wastewater with laboratory scale up flow fixed film anaerobic reactor.	Bhatt Nikhil S, Acharya D. K, Acharya R. D and D. Srinivas Murty.	Bioscience Guardian. 1(2): 441-448, Year 2012 ISSN 2277-9493	441	448
28	Decolorization of diazo dye Direct Red 81 by a novel bacterial consortium.	Bhatt Nikhil S, Asma Sherasiya, D. Srinivas Murty and Nishant S Junnarkar.	World Journal of Microbiology and Biotechnology. Vol: 6 407-418, Year 2012 ISSN: 0959-3993 DOI: 10.1002/jobm. 200410504 Publisher: Springer	407	418

Book Chapter

Sl	Year	National/	Name of Book and Publisher
		International	
1.	2009	National	Chapter: "Anaerobic Digestion and Methanogenesis
			for Waste Treatment."
			Duggirala S. M., and Dave S. R. Book: Environmental Microbiology (Eds: B. B. Mishra, D.R. Nanda and S. R. Dave)
			ISBN: 978-81-313-0655-0 APH Publishing Corporation New Delhi. 2009.

Presentation in Seminars and Conferences

No	Duration	Subject/National/International	Institute
1	2-3 Feb	XXXIII Gujarat Science Congress	LJ Institute of
	2019		Applied Sciences
			Ahmedabad
		Poster: Cellulase Production by SSF and Its	
		Scale up (S Patel and D Srinivas Murty)	
2	15-16	Recent Trends and Emerging Issues in	Department of
	March	Microbiology and Pharmaceutical	Microbiology and
	2019	Biotechnology	Biotechnology
			Gujarat University
		Poster: Optimization of Physicochemical	Ahmedabad

		Parameters for Enhanced Production of	
		Lignolytic Enzymes Using P. Sajor caju in	
3	5-8 Oct	SSF (S Sharma and D Srinivas Murty) India International Science Festival -2018	Indira Gandhi
3	2018	Poster: In-Vitro Anticancer Activity and	Pratisthan
	2018	Cytotoxicity Study of Some Novel	Lucknow
		Heterocyclic Compounds of Tetralone	Luckilow
		Derivatives	
		(B. Gauni and D Srinivas Murty)	
4	5-8 Oct	India International Science Festival -2018	Indira Gandhi
-	2018	Poster: Screening of Agro residue Biomass	Pratisthan
	2010	For Ligninanse and Hemicellulase	Lucknow
		Production in SSF	
5	Dec 8-10	International Conference on Current Trends	School Of
	2016	in Biotechnology ICCB 2016	Biosciences,
			VIT University,
		Poster (Fungal Solid State Fermentation for	Vellore.
		Cellulase Production and Its Application,	
		S. Patel and S. Murty) p14	
6	Dec 8-10	International Conference on Current Trends	School Of
	2016	in Biotechnology ICCB 2016	Biosciences,
		Poster (Isolation and characterization of	VIT University,
		anaerobic bacteria from camel rumen	Vellore.
		S. Sharma and S. Murty) p27	
7	Dec.27-28	International Symposia on 'Integrating	Maharaja Sayaji
	2013	Basic and Translational Research in Modern	Rao University,
		Biology Biology'.	Baroda.
		Poster (An investigation on Bacterial L-	
	N. 17.00	Asparginase)	A 3 6T A 1
8	Nov. 17-20	International Symposium on 'Frontier	AMI And
	2013	Discoveries and Innovations in	Maharshi
		Microbiology and Its Interdisciplinary Relevance" AMI-54.	Dayanand
		Poster (Importance of Pre-Treatment of	University, Rhotak.
		Sorghum for Organic Acid Production.)	
9	Nov. 17-20	International Symposium on 'Frontier	AMI And
	2013	Discoveries and Innovations in	Maharshi
	2010	Microbiology and Its Interdisciplinary	Dayanand
		Relevance" AMI-54.	University, Rhotak
		Poster (Screening and Characterization of	
		Fungi as Potential Biosorbent for Eco-	
		friendly remediation of Silver.)	
10	Nov. 21-23	International Conference on Industrial	BRSI Department
	2012	Biotechnology. Poster (Development of Bio	of Biotech. Punjab
		refinery from Sorghum Biomass.)	University, Patiala
11	Nov. 21-23	International Conference on Industrial	BRSI Dept of
	2012	Biotechnology.	Biotech Punjabi
		Poster (Effect of heavy metals on	University Patiala
		decolorization of Reactive Red 35 by	

		Pseudomonas aeruginosa ARSKS 20.)	
12	28 th July 2012	National Seminar on Biosafety	Gujarat University, Shivrath Clinical Research and GSBTM
13	31 st March, 2012	National Seminar on "Bioinformatics in High-Throughput Era": Poster Presentation-A novel organism identified from buffalo rumen using Ion Torrent PGM –a high throughput sequencing platform.	Gujarat Cancer Research Institute Ahmedabad and GSBTM Gandhinagar
14	Nov. 2011	UGC Sponsored National Seminar. Research Advances In Microbial Technology. Poster (Isolation and Characterization of Novel Keratinolytic Bacillus Spp.)	Virani Science College Rajkot.
15	3-6 Nov. 2011	52 nd Annual Conference Of AMI. "International Conference on Microbial Biotechnology for Sustainable Development" Poster (Study on Physicochemical Pretreatment of Biomass For Bioethanol Production.)	AMI and Punjab University Chandigarh, India
16	16-25 2011 May (10 Days)	CSIR Sponsored National Worksop: Short Course. "Role of Whole Genome Sequencing In Animal and Plant Biotechnology"	Dept. Of Animal Biotech. Collage Of Vet. Sci. And Animal Husbandry, AAU Anand. Gujarat
17	28 th Feb. 2011	UGC Sponsored National Seminar. Research Advances In Microbial Technology Dept. of Microbiology. Isolation and Characterization of Novel Keratinolytic Bacillus Spp.	Virani Science College Rajkot
18	2 nd Jan. 2011	National Conference: Current Developments in Microbial Biotechnology. Poster (Comparative Study on amylase and b-glucosidase production from two isolates.)	M.G. Science Institute, Ahmedabad.and GSBTM, Gandhinagar at AMA
19	23-24 Jan. 2010	UGC Sponsored National Seminar: Current Trends In Microbiological Sciences. Characterization and Partial Purification of Keratinase from Bacterial Isolate.	M.G. Science Institute Ahmedabad at AMA
20	23-24 Jan. 2010	UGC Sponsored National Seminar: "Current Trends In Microbiological Sciences". Poster (Isolation and Characterization of Amylolytic Organisms.)	M.G. Science Institute Ahmedabad at AMA
21	15-18 Dec. 2009	International Conference: Poster Presentation: 3 rd Golden Era of Microbiology. 50 th Annual Conference AMI.	NCL, Pune

		Poster (Cellulolytic Enzyme Production on	
		Agricultural Biomass by SSF)	
		<i>β</i> ,	
22	6-8 Dec.	International Conference: Environmental	Department of
	2009	Issues in Emerging and advanced	Chemistry, Gujarat
		Economies: Canada, India.	University, at AMA
		Oral Presentation: Use of Starch Industry	Ahmedabad
		Waste for Enzyme Production.	
23	17-20 Dec.	International Conference: Organic Farming	Bhaikkaka Farm:
	2010		At Sojitra, Anand.
24	2-3 March	Regional Conference: Microbial Technology	Department of
	2009	For Sustainable Environment.	Microbiology,
		Poster (Isolation of Anaerobic Starch and	Gujarat University,
		Cellulose Degrading Bacteria from Cattle	Ahmedabad.
		Rumen.)	
25	2-3 March	Regional Conference: Microbial Technology	Department of
	2009	For Sustainable Environment.	Microbiology,
		Poster (Isolation of an Anaerobic Tannin	Gujarat University,
		Degrading Bacteria from Cattle Rumen.)	Ahmedabad.
26	2-3 March	Regional Conference: Microbial Technology	Department of
	2009	For Sustainable Environment.	Microbiology,
		Oral Presentation "Isolation and	Gujarat University,
		Characterization of Keratinolytic Bacteria".	Ahmedabad.
27	2-3 March	Regional Conference: Microbial Technology	Department of
	2009	For Sustainable Environment.	Microbiology,
		Oral Presentation "Isolation and study of	Gujarat University,
		Ferrous Oxidation by Two Bacterial	Ahmedabad.
20	2234 1	Isolates"	D
28	2-3 March	Regional Conference: Microbial Technology	Department of
	2009	For Sustainable Environment.	Microbiology,
		Oral Presentation "Hydrolytic Enzyme	Gujarat University, Ahmedabad.
		Production On Agricultural Biomass by SSF'	Anmedabad.
29	17-25 May	Wokshop: 2 nd Multi Institutional Teacher's	GSBTM, DFS,
	2007	Training Program in Molecular Biology &	AAU
		14Bioinformatics	Govt. of Gujarat.
			Gandhinagar
30	4 th March	National Symposium on Contemporary	Department of
	2006	Development in Life Sciences.	Microbiology,
		Oral Presentation "Tolerance of Heavy	North Gujarat
		Metals by Thiobacillus feroxidance"	University, Patan
31	4 th March	National Symposium on Contemporary	Department of
	2006	Development in Life Sciences.	Microbiology,
		Oral Presentation "A study on EPS	North Gujarat
		production by Bacterial Isolates".	University, Patan
32	4 th March	National Symposium on Contemporary	North Gujarat
	2006	Development in Life Sciences.	University, Patan
		Oral Presentation "Deflouridization of	5 m . 51511, 1 audi
	i		1

		drinking water".	
33	4 th March	National Symposium on Contemporary	North Gujarat
	2006	Development in Life Sciences.	University, Patan
		Oral Presentation "Bioremediation of Duck	
		weeds".	
34	22-23 Jan.	Regional Symposium on Microbial	Department of
	2005	Technology.	Microbiology:
		Oral Presentation "Anaerobic Treatment of	Gujarat University,
		Dairy waste".	Ahmedabad
35	29 Nov	National Workshop: Methods in Molecular	Department of
	11 Dec.	Biology	Biosciences. S.P.
	2004		University, Vallabh
			Vidyanagar,
			Anand.
36	22 Nov18	National Workshop: Perspective in	Department of
	Dec 2004	Biological Research- UGC-DSA sponsored	Biosciences. S.P.
		winter school.	University, Vallabh
			Vidyanagar,
			Anand.
37	1-2 March	National Symposium on Microbial Diversity	Department of
	2003	on Sustainable development:	Microbiology,
		Oral Presentation "Anaerobic treatment of	Gujarat University,
		dairy waste."	Ahmedabad

Research Projects

No	Approved	Allotting	Major/Minor/	Title	Amount	Status
	In Year	Agency	Student Investigator/			
			Co-			
			investigator			
1	1 st Feb.	GUJCOST	Student Project	Metabolic	16000/	Completed
	2011		(Pi)	Characterization		
				of Anaerobic		
				Bacteria.		
2	1 st Feb.	GUJ-	Student Project	Isolation and	19000/	Completed
	2011	COST	(Pi)	Metabolic		
				Characterization		
				of SRB from		
				Mangrove		
				Ecosystem.		
3	2011	GSBTM	Major	Degradation of	14.4	Completed
			(Pi)	Tannary waste	Lakhs	
				and Phenolic		
				Compounds by		
				Novel Anaerobic		
				Tannin Degrading		
				Bacterial Isolate		
				in Pure and Mixed		
				Culture.		

4	2011	ICAR	Major	Niche Area of	258.0	Completed
_	2011	ICAR	(Multi-	Excellence,	Lakhs	Completed
			institutional)	"Metagenomic	Lakiis	
			(Co-Pi)	Analysis of		
			(C0-F1)	Ruminal		
	2011	GGD TIL		Microbes".	10.01	G 1 1
5	2014	GSBTM	Major	Exploring	18.81	Completed
			(Multi-	Bioremediation	Lakhs	
			institutional)	Strategies For		
			(Co-Pi)	Treatment of		
				Chromophore		
				Linked		
				Contaminated		
				Waste Water		
				Using Sequential		
				Anaerobic-		
				Microaerophilic		
				Reactors.		
6	2014	GUJ-	Major	Enzymatic	7.00	Completed
	2011	COST	(Co-Pi)	Deconstruction of	Lakhs	Completed
		COST	(CO-11)	Agro. Residues	Lakiis	
				for		
				Biofermentation		
				and Biofuel		
				Production.		
7	2015	DBT	Major	Pio prospecting of	83.86	Completed
/	2013	ומט	Major	Bio prospecting of		Completed March -
			(Multi-	Crop Residues By	Lakhs	
			institutional)	SSF To Enhance		2018
			(Pi)	Nutrient		
				Utilization and		
				Feed Efficiency in		
			<u> </u>	Ruminants.		
8	2019	GSBTM	Major	An Integrated	66.01	On Going
			(Multi-	Process to Enhance	Lakhs	
			institutional)	the Biological		
			(Pi-	Treatment		
			Coordinator)	Efficiency and		
				Improve the Quality		
				of Effluent		
				Discharge from		
				Paper and Pulp		
				Industry		
	2010	CODEN	N. C.	X7-1	52.04	0
9	2019	GSBTM	Major	Valorization of	53.04	On Going
			(Multi-	Vegitable and Food	Lakhs	
			institutional)	Market Waste By		
			(Co-Pi)	Bioconversion		
		l				

Patents

Sl. No	Title	Status	
1	Invention: Laboratory scale biphasic anaerobic packed bed	Granted	
	reactor for treating High BOD containing waste water.		
	Application Number 2220/MUM/2013 Date: 01/07/2013.		
2	Invention: Microbiological growth medium containing Pending		
	mushroom extract.		
	Application no. is 508/MUM/2015 Date: 18/02/2015.		

Lectures Delivered (National/ Local level Programmes)

No	Date	Organizer	Conference/ Seminar/Workshop	Title of Lecture Delivered
1	18-11-11	AAU- GSBTM	Invited Lecture in National Seminar. "Changing Roles of Bio informaticians in NGS Era".	"Challenges and Solutions in Metagenomic Analysis of NGS Data".
2	23-2-12	AAU- ICAR 15-24 Feb 2012	Short course on "Recent Advances in Crop Residue Based Total Mixed Rations for Improving Animal Productivity" 10 Day National Workshop	"Solid State Fermentation Technology- Process and Applications."
3	4-3-12	Gujarat University GSBTM	Invited Lecture in National Seminar. "Bioinformatics in Microbial Diversity".	"Metagenomic Approach to Study Microbial Diversity and Interactions"
4.	1-3 Feb 2018	Junagadh Agricultural University	Lead Paper XVII Biennial Conference of Animal Nutrition Society of India Nutritional Challenges For Raising Animal Productivity To Improve Farm Economy	Solid state fermentation of crop residues and its use in livestock ration Dr. D. Srinivas Murty , Dr. P. R. Pandya, Dr. B. R. Devalia, Shrusti Patel
5	15/9/2018	Shree Ramkrishna Institute of Computer Education and Applied	Expert Lecture Coordinately organized by Environment Science and Biotechnology Department	Anaerobic Technology and Reactor Designs for Waste Water Treatment

Science) ,	
M.T.B		
Colleg		
campu Athwa	ines,	
Surat.		

Dissertation work carried out by the Post graduate (M. Sc.) Students

Sl.	Name of Student	Title of Thesis
No		
	1	2000-01
1	Gaurang C. Patel	Isolation and Identification of Hydrocarbon degrading organisms (Aliphatic).
2	Shailesh R. Patel	Biodegradation of dairy waste water.
3	Hitendra K. Patel	Microbial diversity of sugarcane crops.
4	Viral Y. Shukla	Isolation and Identification of Hydrocarbon degrading organisms (Chlorocarbons).
5		To study cultivation of mushroom using various raw
	Vishal D. Shah	materials to decrease the preliminary growth period of
		mushroom by changing the nitrogen source.
		2001-02
6	Amankumar R.	A survey on Individual Biogas Plant of Gandhinagar
	Thakur	district.
7	Ashish H. Dave	Drinking water analysis of Gandhinagar district.
8	Apurava S. Joshi	Drinking water analysis of Gandhinagar district.
9	Kaushal R. Trivedi	A Survey on health and sanitary condition in
	Kaushai K. Ilivedi	Gandhinagar district.
10	Manish K. Patel	A Survey of water and food quality in Gandhinagar
	Wallish K. Pater	district.
	1	2002-03
11	Kamal R. Patel	Isolation and identification of pathogenic
	Kamai K. Patei	microorganisms from Currency Coins.
12	Meghna M. Vyas	Biocide testing for saccharorlytic microorganisms

		isolated from sugarcane and sugar syrup.
13	Sarswati D. Patel	Drinking water analysis of Dehgam taluka.

		2003-04				
14	Jigneshkumar Y.	Biosorption of Metals.				
	Raval	r				
15	Jigneshkumar V. Vyas	Co- digestion of cow dung, poultry manure and				
		leaf litter.				
16	Neeta M. Chaudhari	Bioleaching of ore.				
		2004-05				
17		Optimization of iron oxidizing bacteria in				
	Manoj V. Koradiya	laboratory scale air lift reactor and bioleaching of				
40		ore.				
18	Jyoti H. Bhavsar	Anaerobic treatment of distillery waste water by				
10		biphasic reactor.				
19	Neha J. Kaneriya	Biomethanation of duckweeds.				
20	Jatin G. Patel	Defluoridation of drinking water.				
21	Amit V Draignati	2005-06 Riemathematica of night soil				
21	Amit V. Prajapati	Biomethanation of night soil.				
44	Akashkumar	Bioleaching studies using <i>Thiobacillus ferrooxidans</i> .				
23		Anaerobic digestion of dairy waste water (butter				
23	Chetan A. Patel	waste) by biphasic reactor.				
24	Pooja H. Shah	Biomethanation of duck weeds.				
25	Sinkandarkhan U.	Defluoridation of drinking water.				
25	Bihari	Definion data of difficulty water.				
26	Hetal D. Dave	A study on EPS production by bacterial isolates.				
	2006-07					
27	Dhavallauman D. Datal	Biooxidation studies of metal sulfides by using				
	Dhavalkumar B. Patel	Thiobacillus. Sp.				
28	Nilam R. Patel	Optimization of nutrient concentration for EPS				
		production.				
29	Madura A. Joshi	Desulphurization of biogas.				
	1	2007-08				
30	Amitkumar M. Patel	Optimization of growth medium of an EPS				
		producing bacterial isolate.				
31	Prateek H. Kharecha	Solid state fermentation for protease production.				
32	Manisha R. Prajapati	Improvement in physical, chemical and microbial				
22	M	characteristics of soil.				
33	Mona G. Patel	Purification of biogas.				
24	II V. Can	2008-09				
34	Urjit K. Gor	Isolation of anaerobic cellulose and starch				
25	Daviana N. Handara	degrading bacteria from cattle rumen.				
35	Devang N. Upadyay	A study on ferrous bio-oxidation by two bacterial				
36	Nirav A. Parmar	isolates. Characterization of phosphate solubilizing				
30	INITAV A. FAITHAI	Characterization of phosphate solubilizing bacterial isolate.				
		vacicitat isotate.				

37	Neha R. Shah	A study on effect of pre-treatment of wheat straw
20	Down! W.Comdolino	on biogas production.
38	Parul V Gondaliya	Characterization of an EPS producing isolate.
39	Rahulkumar R.	Isolation of anaerobic tannin degrading bacteria
40	Maurya W. Datal	from cattle rumen.
40	Himansu K. Patel	Characterization of a protease producing
		bacterial isolate.
44	1.1	2009-10
41	Ankita J.Acharya	Isolation and characterization of sulfate reducing
		and tannin degrading rumen bacteria.
42	Dipaliben J.Parmar	Characterization of amylase producing bacterial
		isolates.
43	Pragna V. Katba	Isolation and characterization of hydrolytic
		rumen bacteria.
		2010-11
44	Unnati N. Vanjani	Decolorization of reactive dyes (RV 12, RR 152, RB 250).
45	Chhayaben R.	A comparative study of amylase and b-
	Chaudhari	glucosidase production of two bacterial isolates.
46	Jigar J. Prajapati	Isolation and characterization of reactive dye
		decolorizing suspended bacterial flora from down
		flow fixed film bioreactor.
47	Jignesh P. Makwana	A study on antimicrobial activity of Camellia
		sinensis extract.
48	Himanshu Parmar	A study on antimicrobial activity of purified
		Curcumin.
49	Mehula M. Patodiya	A study on effect of humic acid on plant growth
		and soil character.
		2011-12
50	Heena Doliya	Alcohol Fermentations.
51	Jigisha Desai	A field study on effect of humic acid application
-	7 -8	on soil flora and crop productivity.
52	Ashruti Pawar	Isolation and characterization of bacteria from
-		down flow fixed film reactor.
		33 (132 333); 3333 3333 3333
53	Bhumi Patel	Physico-chemical and enzymatic saccharification
	2110/111 1 0001	of wood chips.
54	Krutika Raval	Isolation and characterization of anaerobic
		sulfate reducing bacteria.
55	Zankhana Makwana	Bio prospecting of fungi.
	Zammana man wana	Dio prospecting of rungi.
56	Mintu Chaudhari	Isolation and bio prospecting of lignocellulolytic
	Transa Chandhari	fungi.
57	Hetal Kanzariya	Isolation and characterization of anaerobic
	110tui 1xuiizui 1 yu	isolates.
		2012-13
58	Akta N Poshiya	A laboratory scale study on degradation of plant
30	AKIA IN FUSIIIYA	A laboratory scale study on degradation of plant

		phenolics by anaerobic rumen isolates.
59	Neelam R. Prajapati	Isolation and characterization of tannin protein
		complex degrading micro-organisms from
		tannery waste.
60	Rajeshwari Jadeja	A study on treatment of tannery waste by two
		stage lab scale reactor.
61	Bhavesh M.	A study on physiological characterization of
	Chaudhary	potent tannin degrading isolates from rumen fluid
		sample.
		2013-14
62	Preeti Mahala	Characterization of protease producing isolates.
63	Jitendra Gowswami	Characterization of multi-enzyme producing
	Jiteliura Gowswallii	anaerobic isolate.
		2014-15
64	Shradhdha Sharma	Isolation and characterization of starch degrading
		anaerobic microbes from camel rumen.
65	Sadhna Panelia	Isolation and characterization of cellulose
		degrading anaerobic microbes from camel rumen.

Research work carried out by the Master of Philosophy (M. Phil.)

Sr. No.	Year	Name of the	Title of the thesis	
		Student		
1	2004-05	Gopal D. Soni	Biomethanation and Biodegradation of	
		(As Co-Guide)	distillery (Spent Wash) wastewater by	
			Fixed Film Anaerobic Bioreactor.	
2	2005-06	Rakesh K.Soni.	Fate of Enteropathogens during	
			Anaerobic Digestion.	
3	2006-07	Akash Kumar	Influence of pesticides on physico-	
		Yadav	chemical and microbiological properties	
			of soil and anaerobic digester.	
4	2007-08	Nilam R. Patel	Optimization of nutrient and process	
			parameters for EPS production of a	
			bacterial isolate.	
5	2008-09	Khusali A. Shah	Isolation and characterization of	
			keratinolytic bacterial isolates.	
6	2014-15	Shrusti Patel	Cellulase Production by anaerobic	
			rumen isolates.	

Research work carried out by the (Ph.D.) Students

Sr.No.	Year	Name of the	Title of the thesis
		Student	

1	2013	Manoj V. Koradiya	Bioconversion of agricultural biomass
		(As Co-Guide)	and production of value added products.
2	2014	Ahsruti Pawar	Application of Biostimulation and
		Ongoing	Biocontrol to Improve Onion
			Productivity
3	2015	Shradhdha Sharma	Improving Digestibility of
		Ongoing	Lignocellulosics through Fungal SSF
			from Agrobiomass Used for Cattle Feed
4	2015	Srushti Patel	Study on Amylase and Cellulase
		Ongoing	Production by SSF of Agro waste by
			Fungi and its Applications
5	2016	Bhagwati M Gauni	Antibacterial and Anticancer Study of
		Ongoing	Novel Small Molecule Library

Ph.D., Evaluation

1. Evaluated four M.Phil. Thesis and three Ph.D. Thesis.

Examiner ship

- 1. Involved in departmental examinations i.e., M.Sc. M.Phil., and Ph.D. as a paper setter, evaluator and moderator.
- 2. External Examiner in Gujarat University, Sardar Patel University, Saurashtra University, North Gujarat University, Veer Narmad South Gujarat University in practical examinations and theory paper setting.

Committee Member

- 1. Ex-Committee member in Gujarat Vidyapith Trust (2009-10),
- 2. Ex-Executive committee member in Gujarat Vidyapith (2009-10),
- 3. Core committee Member of NAAC committee of Gujarat Vidyapith (2015-16)
- 4. Presently a member in Academic Council of Gujarat Vidyapith.
- 5. Presently a member in Administrative Council of Gujarat Vidyapith.
- 6. Presently having responsibility as Coordinator of IQAC of Gujarat Vidyapith.

Administrative Work

- 1. Conducting UG, PG, M. Phil and Ph.D. Examinations,
- 2. Admission counseling,
- 3. Administrative work pertaining to laboratory,
- 4. Administrative work pertaining to ongoing research projects.
- 5. Head of Microbiology department and Dean Faculty of Science and Applied Science Since April 2019.

Membership in Professional and other Bodies

- 1. Member in Biotech Research Society of India
- 2. Member of Gujarat Science Academy.

Board of Studies

- 1. Member of Academic Council in Gujarat Vidyapith,
- 2. Member of Planning and Monitoring Board for Higher Education and Research in Gujarat Vidyapith
- 3. RDC Committee Member in Veer Narmad South Gujarat University.

Participation in extra-curricular activities

Sr. No.	Name of Event	Place	Year/Duration
1	NSS-Camps	Sadra	1994
		Jakhora	1995
		Madhav Ghadh	2011
		Shertha	2014
		Aniyod	2016
2	NSS PO Training 7/7/2015	Gujarat Vidyapith	2015
	to 14/4/2015	Sadra	
3	Gujarat Vidyapith-Sevak	Dethali	2004
	Shibir		

4	Research Methodology	Gujarat Vidyapith-	2005
	Shibir	Ahmedabad	
5	NSS-flood relief camp	Dethli	2003
6	Educational tour	Gujarat, Maharashtra,	1997; 2008;
		Madhyapradesh	2014
7	Gram Jeevan Padyatra	Participated eight times	Since 2008-2014
9	Udyog Activity:	Sadra	2012-2015
	Composting and		
	Innoculum Preparation.		
10	Gandhi Katha: Duty	Sadra	2012
	allotted by Vidyapith and		
	our department.		
11	Sports Activity:	In Campus and During	Since 1995
	Department of	Annual Sports Day	
	Microbiology		
12	Participation in all		Since 1993
	activities organized by the		
	department and Gujarat		
	Vidyapith.		

Extension Activities

- As a Part of NSS activity i have been actively involved in popularization of Biogas technology and Non-conventional Energy in rural areas and had sensitized students towards rural issues.
- Through padyatra, we had been involved in creating awareness among rural people, school children's and farmers about health and sanitation, organic farming and drinking water issues.
- Through NSS Programme, participated in organizing health check up's and blood donation camps.