

**Dr (Mrs.) Neepa Pandhi - Doshi**  
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## **Profile**

- ❖ **Date of Birth** : 27 Aug 1966
- ❖ **Nationality** : Indian
- ❖ **Field of Specialization** : Applied and Environmental Microbiology and Biotechnology
- ❖ **Teaching Experience** : a) PG teaching - 1994 onwards  
b) UG teaching - 1988 onwards
- ❖ **Academic Qualification:**

Sr. no	Institute/University	Degree Awarded	Year	Rank/Grade/Merit
1	Saurashtra University	B.Sc.	1986	University First
2	Gujarat University	M.Sc.	1988	University First ( Gold Medal)
3	Saurashtra University	Ph.D.	1997	First Microbiology Ph.D. Student of Saurashtra University
4	Saurashtra University	DBM	1990	University First ( Gold Medal)
5	Indira Gandhi National Open University(IGNOU)	CES	2011	Grade – A
6	Indira Gandhi National Open University(IGNOU)	APSMBIO	2013	Grade – A

❖ **Research experience:** Twenty six years (26 yrs) of research experience:

- **1987 to 1988:** **Dissertation** as a partial fulfillment of M.Sc in the Subject of Bioleaching.  
**Title of the thesis** ‘The study of effect of various factors on growth and iron oxidation activity of *Thiobacillus ferrooxidans*
- **1992 to 1996:** **Doctorate degree** in applied and Environmental Microbiology in the Subject of Bioleaching. **Guided by** Dr. S.R.Dave, Head, Department of Microbiology, School of Sciences, Gujarat University, Ahmedabad.  
**Title of the Thesis** ‘Bio-oxidation studies on individual and mixed (Combined) metal sulphites with reference to bioleaching of sulphidal minerals’
- **1997 to 2004:** **Small research projects** to under graduate and post graduate students of Microbiology and Biochemistry.
- **2004 till date:** **Dissertation to B.Sc & M.Sc** Microbiology, Biotechnology and Pharmacy students-61 Students guided till date of College and University Departments of various Universities.

**Small research projects** to under graduate and post graduate students of Microbiology and Biochemistry.

**Ten (10) PhD students** registered, **Eight (08)** currently working towards doctoral degree, **Two (2)** degree awarded,

**Principal investigator** for **Two (2) Minor** (GSBTM & GUJCOST) and **Two (2) Major** Scientific Project (GSBTM -DST and UGC).

❖ **Research work / Ongoing Projects / Completed Projects:**

Sr. No	Title of project	Funding agency and Status of Work	Duration from-to	Nature of Involvement	Total approved cost of project in Rs.
1	<i>Study of effect of various factors on the growth and iron oxidation activity of Thiobacillus ferrooxidans</i>	Completed	1987-88 Dissertation	Self	-
2	<i>Bio-oxidation studies on individual and mixed metal sulfides with reference to bioleaching of sulphidal minerals</i>	Completed	1992-96 PhD work	Self	-
3	<i>Bioremediation of metallic pollution from electroplating effluents</i>	GSBTM (Completed)	2005- -07 Extension granted in 2008 Completed	Principal investigator	4,95,000/-
4	<i>Isolation, Characterization and Development of PGPR Consortium from the Rhizosphere soil and to analyze its growth promoting and biocontrol activity for Groundnut and Cotton plants</i>	UGC (Continue)	February 2009 - 2012	Principal investigator	8,16,800/-
5	<i>Therapeutic efficacy of Normal flora from GIT of Human &amp; Animal Origin as Potential Probiotics</i>	UGC (Completed)	January 2011	Subject Expert	1,45,000/-
6	<i>Characterization of Bacterial Enzymes involved in Textile Dye decolorization</i>	UGC (Completed)	January 2011	Subject Expert	1,55,000/-
7	<i>Study of Micro algae as Biotechnological tool</i>	UGC (Completed)	January 2011	Subject Expert	63,000/-
8	<i>Isolation and Characterization of novel Biosurfactants and enzymes from marine ecosystem of Gujarat Coastal regions</i>	GSBTM (Continue)	March 2013	Principal Investigator	19,98,910

❖ **Research Projects Proposed / Applied for:**

<b>Sr. No</b>	<b>Title of project</b>	<b>Funding agency</b>	<b>No of Investigators</b>	<b>Total Amount of Grant applied for.</b>
1	<i>A Search for Promising Probiotics possessing Antimicrobial and Antimutagenic activity in Animal model and Anti Carcinogenic activity on Cell line</i>	DBT Major	Dr. Neepa Pandhi Ms. Archana Rana	28,12,000/-
2	<i>Study of Biodiversity &amp; Bioremediation ability of Algal species near water bodies in Rajkot district</i>	GUJCOST Minor	Dr. Neepa Pandhi Mr. Salil Upadhyay	3,80,000/-
3	<i>Study of the prevalence of HPV in Head &amp; Neck Cancer patients through Molecular Markers</i>	GUJCOST (Sanctioned)	Dr. Neepa Pandhi Ms. Minaxi Parmar	10,0000/- (Grant not Received)
4	<i>Study of Prevalence of <math>\beta</math>-lactam resistant bacteria in clinical samples collected from hospitals of Rajkot city</i>	GUJCOST (Sanctioned)	Dr. Dipak Parmar Ms. Shivangi Bhatt Dr. Neepa Pandhi	10,34,000/- (Grant not Received)
5	<i>Development of PGPR consortium with wide spectrum biocontrol and biofertilizer potential for crops of Saurashtra region</i>	DBT Major	Dr. Neepa Pandhi Mr. Rajnikant Raiyani	20,00,000/-
6	<i>Study of marine biodiversity of Gujarat coast from halophilic enzyme production profile and using functional metagenomics</i>	NMEICT	Dr. Neepa Pandhi Mr. Kunal Upadhyay	30,00,000/-
7	<i>Purification and Characterization of Bioemulsifiers from marine microorganisms from Coast of Gujarat</i>	Concept Note – DBT Major	Dr. Neepa Pandhi	30,00,000/-
8.	<i>Isolation, Identification and Characterization of promising Probiotics possessing Antimicrobial and Anticarcinogenic activity</i>	UGC Major	Dr. Archana Rana Dr. Neepa Pandhi	20,00,000/-
9.	<i>Isolation of Biosurfactant producing Marine bacteria from Gujarat Coast and Characterization of these Biosurfactants.</i>	UGC - Minor	(Dr.) Kunal Upadhyay Dr. Neepa Pandhi	5,00,000/-

Sr. No.	Title of the paper	Author	Journal	Year of publication
1.	“Bio-Oxidation of Ferrous ion by <i>Thiobacillus ferrooxidans</i> ”	Pandhi N.D., Dave S.R. & Doctor. S.S	<i>Journal of Indian Association of Environmental Management</i> , Vol 18, No 1&2 pp 73-75	Feb to June 1991 0970-8480
2	“ Increased metal tolerance by <i>Thiobacillus ferrooxidans</i> ( SRco ) Isolated from Ambamata complex ore mines”	Pandhi N.D., Dave S.R	<i>Indian journal of Engineering and Material Science</i> Vol 2 pp 139 to 141	June 1995 0975-1017 (Online); 0971-4588 (Print)
3	“Isolation, characterization and antibiotic profiling of <i>S.typhi</i> isolates form Gujarat region”. (Publications)	Bhatt B.S., Vadodaria H.K. and Pandhi N.D.	<i>International journal Bioscience Reporter</i> , Vol:5, No.1 pp:331 – 336	June 2007 2277-9493
4	“Purification and Characterization of Hydrocarbon Degrading Enzyme by Bacteria isolated from Effluent and Soil” (Publications)	Pandhi N.D., Bhatt K.K., Dwivedi M. S., Kyala U.V., Mecvan N.R.	<i>International journal Bioscience Reporter</i> , Vol:5, No.1 pp:155 – 162	June 2007
5	“Study of Phosphate Solubilizing microbes of rhizosphere” (Publications)	Pandhi N. D., Monpara H.B., Patel J., Shukla R.J., and Vyas V.B.	<i>International journal Bioscience Reporter</i> , Vol:5, No.1 pp:247 – 253	June 2007
6	Moderate halophilic bacterial community in excreta of wild ass ( <i>Equus hemionus khur</i> )	Khunt Mrugesh, Pandhi N.D.	<i>International Journal of Biosciences (IJB)</i> Vol. 1, No. 5, p. 31-37, 2011	October 2011
7	Amylase from moderate halophiles isolated from wild ass excreta	Khunt Mrugesh, Pandhi N.D.	<i>International journal of Pharmacy and Biological Sciences</i> , Volume 1  Issue 4  OCT-DEC  2011 586-592	October 2011
8	Purification and characterization of lipase from extreme halophiles isolated from little Rann of Kutch, Gujarat, India	Khunt Mrugesh, Pandhi N.D.	<i>International journal of Lifescience and Pharma Research</i> Vol 2/Issue 1, L-55 - 61	Jan-Mar 2012
9	Biodiversity studies of extreme halophiles isolated from little Rann of Kutch.	Khunt Mrugesh, Pandhi N.D.	<i>International Journal of Pharma and Bioscience</i> , Vol 3/Issue 1, B-100 - 106	Jan – Mar 2012
10	Media optimization for lipase from <i>Bacillus licheniformis</i> , moderate halophiles isolated from excreta of wild ass. ( <i>Equus hemionus khur</i> )	Khunt Mrugesh, Pandhi N.D.	<i>International Journal of Bioscience and Technology</i> , 2012; 1 : 8-14	January 2012

<b>Sr. No.</b>	<b>Title of the paper</b>	<b>Author</b>	<b>Journal</b>	<b>Year of publication</b>
11	Comparative study of antimicrobial activity of normal flora of human & animal GIT with commercial Probiotics.	Rana A.S. & Pandhi N.D.	<i>International Journal of Universal Pharmacy and Life Science</i> Vol.2(1) 8 - 16	January-February 2012
12	Comparative study of effect of various parameters affecting growth and physiology of normal flora of human and animal GIT with commercial Probiotics	Rana A.S. & Pandhi N.D.	<i>International Journal of Pharma and Biosciences</i> Vol 3/Issue 2, B-230 - 240	April – June 2012
13	Media optimization for lipase from <i>Halomonas salina</i> ku-19, an extreme halophiles isolated from Little Rann of Kutch	Khunt Mrugesh, Pandhi N.D.	<i>International Journal of Biological &amp; Pharmaceutical Research</i> , 2012; 3(2), 1-5.	January 2012
14	Antimicrobial activity of probiotics from mother milk, curd and yoghurt samples	Archana Rana, Neepa Pandhi, Trupti Nandania, Mrugesh Khunt	<i>International Journal of Biological &amp; Pharmaceutical Research</i> 2012; 3(1): 188-192.	January-February 2012
15	Media optimization for lipase from <i>Halomonas salina</i> , a moderately halophilic bacterium isolated from excreta of wild Ass.	Khunt Mrugesh, Neepa Pandhi.	<i>International journal of pharmacy &amp; life sciences</i> , Vol – 3, issue (1) 1351-1355	January 2012
16	Purification and Characterization of Lipase from moderate Halophiles isolated from excreta of wild ass	Khunt Mrugesh, Neepa Pandhi	<i>International Journal of Bioscience and Technology</i> , Vol-5, issue-1, 1-5	January – February 2012
17	Effect of medium and environmental parameters on lipase production from <i>Halomonas salina</i> Ku-10	Khunt M. D. and Pandhi N. D.	<i>Journal of Pharmacy Research</i> 5(7), 3844-3847	June - 2012
18	Media optimization for lipase from <i>Halomonas salina</i> MK-23, moderate halophile isolated from wild Ass excreta.	Khunt M. D. and Pandhi N. D.	<i>Journal of Pure and Applied Microbiology</i> Vol -6(2), 845 – 850,	June 2012
19	Effect of medium and environmental parameters on lipase production from extreme halophilic isolate <i>Halomonas salina</i> Ku-20	Khunt Mrugesh, Neepa Pandhi, Archana Rana	<i>Journal of Pure and Applied Microbiology</i> Vol - 07	January 2013

❖ **Paper / Poster presentation in Conferences/Seminars/Symposia:**

**International Level - 16**  
**National Level – 35**  
**State / Regional Level - 05**

Sr.No	Title of Paper / Poster	Author	Conference/Seminar/Symposia	Year
1	“Bio-Oxidation of Ferrous ion by <i>Thiobacillus ferrooxidans</i> ”	Pandhi N.D., Dave S.R. & Doctor. S.S	<b>National Conferences of Indian Association of Environmental Management, NEERI, Nagpur</b>	December 1990
2	Development of heavy metal tolerance in <i>Thiobacillus ferrooxidans</i>	Pandhi N. D. Dave S.R.	<b>Gujarat Science Congress, Ahmedabad</b>	26-27 Nov, 1994
3	Influence of heavy metals on ferrous oxidation by <i>Thiobacillus ferrooxidans</i>	Pandhi N.D.& Dave S.R.	<b>Indian science congress, Kolkatta.</b>	3 – 6 January 1995
4	Adaptation of <i>Thiobacillus ferrooxidans</i> to high concentration of Mg <sup>++</sup> , Na <sup>+</sup> , Ca <sup>++</sup> as sulfates in the medium	Pandhi N.D. & Dave S.R.	<b>Annual conference of Association of Microbiologists of India, Hissar</b>	October 1995
5	Development of cation tolerance in <i>Thiobacillus ferrooxidans</i> and mining waste treatment	Pandhi N.D. & Dave S.R.	<b>National Conference on Environmental Engineering , Sagar (MP)</b>	1996
6	Bioremediation by metal tolerant <i>Thiobacillus ferrooxidans</i>	Pandhi N.D. & Dave S.R.	<b>Gujarat Bioscience Society Ahmedabad</b>	30 Mar 1996
7	Development of metal tolerance in <i>Thiobacillus ferrooxidans</i>	Pandhi N.D. & Dave S.R.	<b>International conference on Frontiers in Biotechnology, Trivendrum, India</b>	26 – 29 November 1997
8	Development of tolerance to Na <sup>+</sup> and Mg <sup>+2</sup> in <i>Thiobacillus ferrooxidans</i>	Pandhi N.D. & Dave S.R	<b>National conference on Environmental Biology, Saurashtra University, Rajkot</b>	Oct 2002
9	Bioremediation of electroplating waste	Pandhi N.D. & R.J.Raiyani	<b>46<sup>th</sup> annual conference of Association of Microbiologist of India, Osmania University, Hyderabad</b>	8 – 10 December 2005
10	Study of antimicrobial activity of Beetle leaf extract	Pandhi N.D. R.J.Raiyani & S.Dey	<b>National level Symposium on “ Global perspective on pharma patent, Atmiya Institute of Pharmacy, Rajkot</b>	15 March 2008
11	Bioremediation of metals from electroplating waste	Pandhi N.D. & R.J.Raiyani	<b>State Level Seminar on “ Current trends in Environmental Sciences, N.V.Patel College Vidyanagar</b>	20 September 2008
12	Bioremediation of metallic pollutants from electroplating effluents	Pandhi N.D. & R.J.Raiyani	<b>Regional level seminar on Microbial technologies, Gujarat University, Ahmedabad</b>	2-3 March 2009

<b>Sr.No</b>	<b>Title of Paper / Poster</b>	<b>Author</b>	<b>Conference/Seminar/Symposia</b>	<b>Year</b>
13	Comparative study of antimicrobial activity and effect of various parameters affecting growth and physiology of normal flora of human & animal GIT with commercial Probiotics.	Rana A.S. and Pandhi N.D.	<b>Regional level seminar</b> on Microbial technologies, Gujarat University, Ahmedabad	2-3 March 2009
14	Isolation, Characterization and Development of PGPR consortium for plant growth promotion and biocontrol from Groundnut and Cotton Rhizosphere	Pandhi N.D. & R.J.Raiyani	<b>1<sup>st</sup> Asian PGPR Congress</b> for Sustainable Agriculture, Acharya N.G. Ranga agriculture University, Hyderabad, India <b>(International)</b>	21-24 June 2009
15	Study of Bioremediation of metallic pollutants from electroplating effluents	Pandhi N.D. & R.J.Raiyani	<b>International conference</b> on Environmental issues in emerging and advanced economies: Canada and India, Gujarat University, Ahmedabad	6 – 8 December 2009
16	Study of factors affecting the production & activity of IAA produced by PGPR	Pandhi N.D. & Vyas Arti	<b>National Seminar</b> on Recent advances in Biochemistry in Saurashtra University, Rajkot	10 <sup>th</sup> January 2010
17	Study of factors affecting the production and activity of Chitinase produced by PGPR	Pandhi N.D. & Rathod Tejas	<b>National Seminar</b> on Recent advances in Biochemistry in Saurashtra University, Rajkot	10 <sup>th</sup> January 2010
18	Characterization of PGPR from Ground nut and Cotton rhizosphere for IPM	Pandhi N.D. & R.J.Raiyani	<b>15<sup>th</sup> International conference of Indian Society of Chemists and Biologists</b> on “bridging the gap between chemistry and biology”, Saurashtra University, Rajkot	4 <sup>th</sup> – 7 <sup>th</sup> February 2011
19	Role of Human Papilloma Virus in etiology of Oral Cancer	Parmar M.M., Pandhi N.D., Prabhudas Patel	<b>International Conference</b> on Recent Advances in Cancer Research- Bench to Bedside, CUG-GCRI Gandhinagar.	19 <sup>th</sup> - 20 <sup>th</sup> February 2011
20	Study of Copper bioremediation activity of fresh water & marine algae	Pandhi N.D. & Upadhyay Salil	<b>National Seminar</b> on Recent advances in Molecular Research Saurashtra University, Rajkot	20 <sup>th</sup> February 2011
21	Study of correlation of Human Papilloma Virus and Oral Cancer	Parmar M. M. & Pandhi N.D	<b>National Seminar</b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
22	Biodecolorization of Textile Azo Dye by enriched Yeast Culture	Padaliya D. Junnarkar N.S., Pandhi N.D	<b>National Seminar</b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011

<b>Sr.No</b>	<b>Title of Paper / Poster</b>	<b>Author</b>	<b>Conference/Seminar/Symposia</b>	<b>Year</b>
23	A survey & Comparative Study of Panipuri samples collected from different areas in Rajkot	Halapara D.B. , Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
24	Halophiles – A Bacterial Survey	Dudani V.B. & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
25	Comparative Study of Enzyme Profile of different bacteria from different soil samples	Joshi A.U. & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
26	Qualitative and Quantitative analysis of Microbial loas in water samples from different locations in Rajkot city	Padalia H.D. & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
27	A Survey of Milk Quality from different outlets in Rajkot City	Panara D.S. & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
28	Comparative Morphological & Biochemical Characterization of Probiotics isolated from various samples	Vora Mital , Rana A.S., Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
29	Study of Cell free extract of selected Probiotics as Antimicrobial agents	Nandania T, Rana A.S., Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
30	Study of Effect of various physical and chemical parameters on growth of Probiotics isolates	Patel Komal, Rana A.S., Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
31	Decolourization of Azo dye by yeast	Sakariya Radhika , N.S.Junnarkar & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
32	Biodecorization of Textile Azo dyes by Yeast strains	Sakariya Radhika , N.S.Junnarkar & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
33	Isolation and Characterization of Plant Growth Promoting Bacteria (PGPR) from Groundnut and Cotton Rhizosphere of Saurashtra Region	Kaushik Nariya, Pandhi N.D. & R.J.Raiyani	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011



Sr.No	Title of Paper / Poster	Author	Conference/Seminar/Symposia	Year
34	Biotransformation of Reactive Azo dye by bacterial strains isolated from dye contaminated sites of Rajkot city	Pandya Nishita, N.S.Junnarkar & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
35	Comparative study of Lipase production from Haliphiles	Mrugesh Khunt & Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
36	Study of Antimicrobial efficacy of Probiotics	Kothiya Sejal Rana A.S., Pandhi N.D	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
37	Study of correlation of Human Papilloma Virus and Oral Cancer	Parmar M.M., Pandhi N.D., Patel. P	<b><u>National Seminar</u></b> on Recent Trends in Microbial Technology, Virani Science College Rajkot	28 <sup>th</sup> February 2011
38	Isolation and Characterization of Intestinal Bacteria as Potential Probiotics.	Rana A.S., Pandhi N.D	<b><u>National Seminar</u></b> on Functional food – a new concept for sustainable livelihood, Department of Biotechnology Agriculture University Junagardh,	10 <sup>th</sup> March 2011.
39	Optimization and Purification of Chitinase from PGPR isolated from Cotton rhizosphere	R.J.Raiyani & Pandhi N.D	<b><u>Annual conference</u></b> of Association of Microbiologists of India, Chandigadh	4 <sup>th</sup> – 7 <sup>th</sup> November 2011
40	Bioremediation of electroplating Effluents	Pandhi N.D. & R.J.Raiyani	<b><u>International Congress</u></b> of Environmental Research, SVNIT - Surat	15 <sup>th</sup> to 17 <sup>th</sup> December 2011
41	Optimization of process parameters for the efficient decolorization of Azo dye by <i>Pseudomonas spp.</i> & Characterization of its Azoreductase.	N.S.Junnarkar & Pandhi N.D	<b><u>International Congress</u></b> of Environmental Research, SVNIT - Surat	15 <sup>th</sup> to 17 <sup>th</sup> December 2011
42	Role of Human Papilloma Virus in Oral Squamous cell carcinoma	Parmar M.M., Pandhi N.D., Prabhudas Patel	<b><u>International Symposium</u></b> on “Cancer genomics and its impact in the clinics” organized by Advanced centre for treatment, Research and Education in Cancer (ACTREC), Tata Memorial Centre, Navi Mumbai	26 <sup>th</sup> - 29 <sup>th</sup> January 2012.
43	Impact of Plant Growth Promoting Microbial Consortium on Cotton plant growth and its efficacy as Biocontrol	Patel Jyotica, Raiyani R.J., Pandhi N.D., Dave S.J.	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of Biotechnology, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
44	Isolation and Identification of HPV DNA from Patients with Head and Neck Cancer	Shahi Shivani, Parmar M.M., Pandhi N.D.	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of BT, Amity Uni., Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012

Sr.No	Title of Paper / Poster	Author	Conference/Seminar/Symposia	Year
45	Primary Screening of Bioemulsifier producing microorganisms from the West Coastal Area of Gujarat	Trivedi Nisha, Upadhyay K.H., Pandhi N.D.	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of BT, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
46	Characterization of Azoreductase Enzyme from a Diazo Dye Decolorizing Bcterial Strain CS2a4	Virani Sonal, Junnarkar N.S., Pandhi N.D., Bhatt Nikhil	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of Biotechnology, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
47	Survey of $\beta$ -Lactam Drug Resistant Pathogenic Organism from Clinical Samples collected from Rajkot City	Vahasiya Malti, Bhatt Shivangi, Pandhi N.D.	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of Biotechnology, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
48	Decolorization of a textile Diazo Dye by an isolated Yeast Strain DTb4	Virani Sonal, Junnarkar N.S., Pandhi N.D., Bhatt Nikhil	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of Biotechnology, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
49	Optimization of the Cultural conditions for Diazo Dye Decolorization by an isolated bacterial strain CS2a4r in static conditions	Pathak Dhara, Junnarkar N.S., Pandhi N.D., Bhatt Nikhil	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of Biotechnology, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
50	Studies on Biosorption od Diazo Dye using dried biomass of an isolated White rot Fungus- BD-4	Davda Bhavika, Junnarkar N.S., Pandhi N.D., Bhatt Nikhil	<b><u>International Conference</u></b> on Perspective s in Phyllosphere Biology, Amity Institute of Biotechnology, Amity Univeristy, Noida, UP - India	15 <sup>th</sup> – 17 <sup>th</sup> February, 2012
51	Screening, Isolation & Kinetics Study of Amylolytic Enzymes from Soil Microorganisms	Chotaliya Nehal, Gandhi Ekta, Pandhi N.D.	<b><u>National Level</u></b> Science Academies Lecture Workshop on Recent Advances in Biological Sciences, Virani Science College, Rajkot	5 <sup>th</sup> – 6 <sup>th</sup> March 2012
52	Study of Antimicrobial efficacy of various medicinal plants, fruits and spices on intestinal bacteria	Bhaliya Gopi, Gohil Ishita, Pandhi N.D.	<b><u>National Level</u></b> Science Academies Lecture Workshop on Recent Advances in Biological Sciences, Shree M. & N. Virani Science College, Rajkot	5 <sup>th</sup> – 6 <sup>th</sup> March 2012
53	Screening, Isolation & Kinetics study of Pectinolytic Enzymes from Soil Microorganisms	Chavda Vandana, Kachhadiya Kiran, Pandhi N.D.	<b><u>National Level</u></b> Science Academies Lecture Workshop on Recent Advances in Biological Sciences, Shree M. & N. Virani Science College, Rajkot	5 <sup>th</sup> – 6 <sup>th</sup> March 2012

Sr.No	Title of Paper / Poster	Author	Conference/Seminar/Symposia	Year
54	Synergistic effects of Probiotics with Antibiotics	Shivangi Bhatt, Archana Rana Neepa Pandhi	<b><u>National Level Conference</u></b> on “Bioscientific Technologies – An elixir for research in 21 <sup>st</sup> Century – Shree M. & N. Virani Science College, Rajkot	2 <sup>nd</sup> February 2013
55	Study of Synergistic effects of Probiotics and Antibiotics on Pathogens isolated from clinical samples	Neelam Ghetiya, Shivangi Bhatt, Neepa Pandhi	<b><u>National Level Technical Symposium- VVP Technofest – 2013</u></b> – VVP Engineering College, RAjkot	16 <sup>th</sup> March 2013
56	Role of Democracy in Women Empowerment	Neepa Pandhi	<b><u>National Seminar</u></b> on “Democracy in our times – Past, Present and Future” – Smt H.B.Jasani Arts & Shri N.K.Jasani Commerce College, Rajkot aqnd All India women’s Conference, Rajkot	14 <sup>th</sup> September 2013
57	Study of polymorphism of GSTM1 & GSTT1 in Head & Neck cancer patients of Saurashtra region of Gujarat	Minaxi Parmar, Neepa Pandhi, Prabhudas Patel	<b><u>International Conference</u></b> on “Recent Advances in Cancer Prevention & Therapeutics” – School of Lifesciences, Central University of Gujarat, Gandhinagar	19 <sup>th</sup> & 20 <sup>th</sup> Naovember 2013

❖ **Conferences / Seminars / Symposia / Workshop attended:**

**International Level - 06**  
**National Level – 32**  
**State / Regional Level - 19**

Sr. No	Name of the Scientific Event	Place	Year
1	<b>National Conferences</b> of Indian Association of Environmental Management, NEERI	Nagpur, India	December 1990
2	<b>Gujarat Science Congress</b>	Ahmedabad	26-27 Nov, 1994
3	<b>Indian science congress.</b>	Kolkata	January 1995
4	<b>Annual conference of Association of Microbiologists of India</b>	Hissar, Haryana	1995
5	<b>National Conference</b> on Environmental Engineering	Sagar (MP)	1996
6	<b>Gujarat Bioscience Society</b>	Ahmedabad	30 Mar 1996
7	One day <b>National level symposium</b> on Current trends in Microbiology	Vallabh Vidya nagar	2 Feb 1997
8	<b>State Level seminar</b> on Study of materials using optical microscope and electron microscope	Saurashtra University, Rajkot	August 1997
9	<b>International conference</b> on Frontiers in Biotechnology	RRL Trivendrum	26 – 29 November 1997

<b>Sr. No</b>	<b>Name of the Scientific Event</b>	<b>Place</b>	<b>Year</b>
10	UGC sponsored <b>State Level Seminar</b> on InfoTech : Challenges of 21 century	Aurangabad	January 2000
11	UGC Sponsored <b>State Level Seminar</b> on Frontiers and advancement in biological science in new millennium	Shree M. & N. Virani Science College, Rajkot	August 2002
12	<b>National conference</b> on Environmental Biology	Saurashtra University, Rajkot	October 2002
13	<b>National conference</b> on Environmental Science and Technology	Community Science Centre, Rajkot	6 – 7 January 2003
14	<b>National symposium</b> on microbial diversity in sustainable development	Microbiology Department, Gujarat University, Ahmedabad	1 – 2 March 2003
15	UGC Sponsored <b>National Level Seminar</b> on Fifty years of DNA double helix- Retrospect and prospect	Shree M. & N. Virani Science College, Rajkot	11 October 2003
16	One day <b>State Level</b> seminar on Environmental problems of Saurashtra and Kuchchh – Challenges and Solutions	Shree M. & N. Virani Science College, Rajkot	1 <sup>st</sup> February 2004
17	<b>18<sup>th</sup> Gujarat Science Congress</b>	Bioscience Department, Saurashtra University, Rajkot	13 <sup>th</sup> March 2004
18	<b>Regional Symposium</b> on Microbial Biotechnology	Microbiology Department, Gujarat University, Ahmedabad	22 – 23 January 2005
19	<b>National Level</b> workshop on Nanotechnology- opportunities and challenges	Saurashtra University, Rajkot	17 October 2005
20	<b>46<sup>th</sup> Annual conference of Association of Microbiologist of India</b>	Osmania University, Hyderabad	8 – 10 December 2005
21	<b>National Level</b> One Day Seminar on “ Bioinformatics – Emerging trends”	Shree M. & N. Virani Science College, Rajkot	1 January, 2006
22	<b>2<sup>nd</sup> National Science Symposium</b>	Christ College, Rajkot	7 January, 2006
23	<b>National conference</b> of “Bioresources: Utilization and Conservation”	Saurashtra University, Rajkot	17 – 18 January 2006
24	<b>National Symposium</b> on Contemporary Developments in Life Sciences	Hemchandracharya University, Patan	4 <sup>th</sup> March 2006
25	<b>Regional conference</b> on Microbial Technologies	Microbiology Dept. Gujarat University, Ahmedabad	23 <sup>rd</sup> March 2006
26	<b>National Level</b> One day Symposium on “Radiology in service to mankind”	Shree M. & N. Virani Science College, Rajkot	3 <sup>rd</sup> December 2006

Sr. No	Name of the Scientific Event	Place	Year
27	<b>Regional level</b> Workshop on “Formulation of Semester Wise Syllabus for Second B.Sc Microbiology – 2008	Saurashtra University	22 <sup>nd</sup> August, 2007
28	<b>National level</b> Symposium on “ Global perspective on pharma patent	Atmiya Institute of Pharmacy, Rajkot	15 <sup>th</sup> March 2008
29	<b>National level</b> Seminar on “Communication in Biomedical & Agricultural Sciences”	Shree M. & N. Virani Science College, Rajkot	6 <sup>th</sup> September 2008
30	<b>State Level</b> Seminar on “ Current trends in Environmental Sciences	N.V.Patel College of pure and Environmental Sciences, Vidyanagar	20 <sup>th</sup> September 2008
31	<b>National Level</b> workshop on “Bioinformatics in Genetic Engineering”	Shree M. & N. Virani Science College, Rajkot	16 <sup>th</sup> February 2009
32	<b>National Level</b> Workshop on “Computer aided Drug Designing”	Shree M. & N. Virani Science College, Rajkot	17 <sup>th</sup> February 2009
33	One Day <b>State Level</b> Symposium on “Cytogenecity and Genetic disorder”	Department of Pharmaceutical Sciences, Saurashtra University, Rajkot	21 <sup>st</sup> February 2009
34	<b>Regional conference</b> on Environmental Microbiology	Microbiology Department, Gujarat University, Ahmedabad	2-3 March 2009
35	1 <sup>st</sup> Asian PGPR Congress for Sustainable Agriculture – ( <b>International</b> )	Acharya N. G.Ranga Agriculture University, Hyderabad	21 – 24 June 2009
36	<b>International Conference</b> on Environmental issues in Emerging and Advanced Economies – Canada – India	Gujarat University, Ahmedabad	6 – 8 December 2009
37	One Day <b>National Level</b> Seminar on “Biochemistry-A global Approach from Molecule to Cell”	Department of Biochemistry, Saurashtra University, Rajkot	30 <sup>th</sup> January 2010
38	Three Day Staff Development Programme <b>Workshop</b> on “Effective Teaching and Time Management” ( <b>Regional Level</b> )	Atmiya Institute of Technology and Science, Rajkot	24 – 26 April 2010
39	One Day <b>National Seminar</b> on “Nanotechnology – How useful in today and tomorrow for Bio-Organic Farming and Agriculture Farming”	Nano Agro-Science Co-Operative Society Ltd., Rajkot	8 <sup>th</sup> May 2010
40	One Day <b>National Workshop</b> on “ Dynamics of Effective Teaching”	Atmiya Group of Institutions, Rajkot	2 <sup>nd</sup> October 2010
41	Two Days Faculty Development Programme – <b>Workshop (Regional Level)</b> on office Automation Techniques (Computer applications)	Computer Department, Atmiya Group of Institutions, Rajkot	7 <sup>th</sup> – 8 <sup>th</sup> January 2011

Sr. No	Name of the Scientific Event	Place	Year
42	15 <sup>th</sup> <b>International Conference</b> of ISCBC on “Bridging the gap between chemistry and biology”	Chemistry Department, Saurashtra University, Rajkot	4 <sup>th</sup> – 7 <sup>th</sup> February, 2011
43	<b>National Conference</b> on Environment and Climate on “Impact assessment of environment and climate”	M.V.Mahila Science and Home science College, Rajkot	13 <sup>th</sup> February 2011
44	<b>National Seminar</b> on ‘Recent advances in Molecular Research’	Biochemistry Department, Saurashtra University, Rajkot	20 <sup>th</sup> February 2011
45	One Day <b>National Seminar</b> on “Recent Advances in Microbial Technology”	M. & N. Virani Science College, Rajkot	28 <sup>th</sup> February 2011
46.	DBT sponsored <b>Regional Level Five days workshop</b> on Bioinformatics	M. & N. Virani Science College, Rajkot	24 <sup>th</sup> to 29 <sup>th</sup> September 2011
47	<b>4<sup>th</sup> International Congress</b> on Environmental Research	SVNIT - Surat	15 <sup>th</sup> -17 <sup>th</sup> December 2011
48	One Day <b>Regional Workshop</b> on IPR & Patenting	M. & N. Virani Science College, Rajkot	18 <sup>th</sup> January 2012
49	DBT Sponsored Six days <b>National Workshop</b> on Elementary Biostatistics for Biologists	M. & N. Virani Science College, Rajkot	16 <sup>th</sup> - 23 <sup>rd</sup> January 2012 (18 <sup>th</sup> & 22 <sup>nd</sup> off day)
50	<b>National Seminar</b> on ‘bioinformatics in Microbial Diversity’	Microbiology Department, Gujarat University, Ahmedabad	4 <sup>th</sup> March 2012
51	<b>National Workshop</b> of Science Academies on “Recent Advances in Biological Sciences	M. & N. Virani Science College, Rajkot	5 <sup>th</sup> – 6 <sup>th</sup> March 2012
52	<b>National Conference</b> on “Recent Advances and Current trends in Medicinal Chemistry and other Chemical Sciences”	Department of Chemistry, Saurashtra University, Rajkot	16 <sup>th</sup> – 18 <sup>th</sup> March 2012
53	<b>State level Seminar</b> on ‘Entrepreneurship Orientation Programme’	Department of Biotechnology, Shree M. & N. Virani Science College, Rajkot	28 <sup>th</sup> August 2012
54	One Day Faculty Development Programme – <b>Workshop (Regional Level)</b> on Research Methodology	Department of MBA, Atmiya Institute of Technology & Science, Rajkot	3 <sup>rd</sup> November 2012

Sr. No	Name of the Scientific Event	Place	Year
55	<b>One Day National Level Technical Symposium - V.V.P Technofest 2013</b>	V.V.P. Engineering College, Rajkot	16 <sup>th</sup> March 2013
56	<b>One Day National Seminar on “Role of Democracy in Women Empowerment</b>	H.B.Jasani Commerce College and All India Women’s Conference, Rajkot	September 14 <sup>th</sup> 2013
57	<b>One Day International workshop – “Author workshop National Live WebEx by Keith Lambert”</b>	Library Learning Centre – AITS, Yogidham, Rajkot	11 <sup>th</sup> September 2013
58	<b>One Day National Seminar – “Communication skills – a key to corporate success”</b>	Dept. of Management AITS, Yogidham, Rajkot	20 <sup>th</sup> November 2013

❖ **Details regarding guidance for any research project / dissertation of U.G. / P.G / M.Phil / Theses of PhD:**

Sr.No	Title of Work/Theses	Level	Name of students	Name of Uni.
1	Isolation & characterization of hydrocarbon degrading bacteria.	M.Sc Dissertation 2006	Bhatt Krupa Dwivedi Mitesh Kyala Umesh Macwan Neepa	Mysore University
2	Isolation & characterization of phosphate solubilizing microorganisms from Rhizosphere.	M.Sc Dissertation 2006	Rushit Shukla Hetal Monpara Vyas Vishwa	Mysore University
3	Bioremediation of electroplating effluents	M.Sc Dissertation 2006	Kshitij Dhamelia Minaxi Parmar Mehul Bapodara	Mysore University
4	Screening and isolation of herbicides degrading microorganisms	M.Sc Dissertation 2006	Parth J Pathak Sujay S Guha Primit N Patel Ravish B Patel	Mysore University
5	Studies on the extraction, purification and characterization of Thermos table $\alpha$ -amylase from thermal species of Saurashtra region.	M.Sc Dissertation 2006 ( Co- guide)	Chintan Kapadia Mario Chandrkar Rajdeep Zala	Saurashtra University
6	Isolation and Characterization of lipase producing Microorganisms	M.Sc Dissertation 2006	Ravin Mehta Ashish Pansuriya Vidhi Bhatt	Saurashtra University
7	Study of dye decolorization by white rot fungi	M.Sc Dissertation 2007	Aditya Jhala Samir Dave	Mysore University
8	Study of Di-azo dye decolorization by White Rot Fungi	M.Sc Dissertation 2007	Pandhi Jimit	BT Department, Saurashtra University
9	Study of Amylase production by bacteria isolated from soil and its kinetics.	M.Sc Dissertation 2008	Priyanka Patel	Sardar Patel University
10	Study of Antibiotic susceptibility profile of different strains of Enterobacteriaceae family	M.Sc Dissertation 2008	Kinjal Hudka	Saurashtra University

Sr.No	Title of Work/Theses	Level	Name of students	Name of Uni.
11	Physiological aspects of Microbial bioleaching by <i>Thiobacillus ferrooxidans</i>	M.Sc Dissertation 2008	Vanzara Chetan	Saurashtra University
12.	Study of antimicrobial activity of body normal flora	M.Sc Dissertation 2008	Zalavadia Hemangini	Saurashtra University
13	Isolation and characterization of Thermophilic organisms and production of different enzymes at laboratory level	M.Sc Dissertation 2009	Neha Bhatt	Sardar Patel University
14	Isolation and characterization of chitinase producing microorganisms from Rhizosphere soil	M.Sc Dissertation 2009	Tejas Sagpariya	Saurashtra University
15	Isolation , identification and characterization of indole acetic acid producing bacteria under different conditions from soil	M.Sc Dissertation 2009	Aarti Vyas	Saurashtra University
16	Isolation and screening of a white rot Basidiomycetous fungi and study of its Dye decolorizing activities.	M.Sc Dissertation 2009	Ankita Bhikadiya	Saurashtra University
17	Isolation and identification of Gram positive PGPR from Rhizosphere	M.Sc Dissertation 2010	Anixa Rupareliya Dipti hensdadia	Saurashtra University
18	Isolation and Identification of Gram negative PGPR from Rhizosphere	M.Sc Dissertation 2010	Upasana Chovatia, Khyati Trivedi	Saurashtra University
19	Isolation and Identification of antibiotic producing bacillus from soil	M.Sc Dissertation 2008	Priyanka Patel	Sardar Patel University
20	Study of enzyme production profile of Thermophiles isolated from hot water springs of Tulsi Shyam	M.Sc Dissertation 2009	Neha Bhatt	Sardar Patel University
21	A review of literature on the biodiversity of Halophilic microorganisms.	M.Pharm Dissertation 2008	Sunil Kardani	Saurashtra University
22	Isolation, identification and characterization of probiotics isolated from human samples	M.Sc Dissertation 2010	Rachan Bhatt	Sardar Patel University
23	A study on the antimicrobial efficacy of selected probiotics isolated from natural samples	M.Sc Dissertation 2011	Trupti Nandania	Sardar Patel University
24	Study of antimicrobial activity of some lactic acid bacteria against selected pathogens	M.Sc Dissertation 2011	Komal Patel	Sardar Patel University
25	A study on the effect of various factors on the antimicrobial activity of some selected lactic acid bacteria	M.Sc Dissertation 2011	Sejal Kothiya	Saurashtra University



<b>Sr.No</b>	<b>Title of Work/Theses</b>	<b>Level</b>	<b>Name of students</b>	<b>Name of Uni.</b>
26	Analysis of antimicrobial efficacy of some selected probiotics and study of effect of prebiotics	M.Sc Dissertation 2011	Mital Vora	Saurashtra University
27	Development of PGPR consortium for its application as biofertilizer	M.Sc Dissertation 2011	Kirankumar Naria	Sardar Patel University
28	Study of pattern of association ship among different rhizosphere isolates for their potential for Integrated Pest Management	M.Sc Dissertation 2011	Vrajlal Akbari	Sardar Patel University
29	Study on protein profile of PGPR Actinomycetes	M.Sc – 2011 Dissertation	Kruti Dave	Saurashtra University
30	Isolation and Characterization of PGPR Actinomycetes from rhizosphere soil	M.Sc Dissertation 2011	Nehal Sadatiya	Saurashtra University
31	Antimicrobial activity of Probiotics	Dissertation 2009	Neha Patel	Sardar Patel University
32	Isolation , identification and characterization of Probiotics and their therapeutic evaluation	Ph.D Degree awarded	Archana rana	Saurashtra University
33	Biodiversity study of Halophiles from little Rann of kutchh with special emphasis on lipase production	Ph.D Degree awarded	Mrugesh Khunt	Saurashtra University
34	Bioremediation potential of diazo dye decolorizing microorganisms	Ph.D 2009 onwards	Nishant Junnarkar	Saurashtra University
35	Evaluation of the potentials of Cyanobacteria as a biotechnological tool using biochemical, molecular and bioinformatics techniques	Ph.D 2009 onwards	Nilkanth Faldu	Saurashtra University
36	Screening, Isolation and Identification of Bioemulsifier producing Microorganisms from soil and Characterization of Bioemulsifiers	Ph.D 2011 onwards	Kunal Upadhyay	Saurashtra University
37	Study of Socio-demographic factors and Molecular markers for HPV associated Head and Neck Cancer	Ph.D 2011 onwards	Minaxi Parmar	Saurashtra University
38	Comparative study of $\beta$ -Lactamase and Antibiotic susceptibility in selected Gram positive and Gram negative bacteria from Hospital and Community samples	Ph.D 2011 onwards	Shivangi Bhatt	Saurashtra University
39	Screening & Isolation and of Bioemulsifier producing Microorganisms	M.Sc Dissertation 2011-12	Nisha Trivedi	Saurashtra University
40	Study Molecular markers for HPV associated Head and Neck Cancer	M.Sc- 2011-12 Dissertation	Shivani Sahu	Saurashtra University
41	Study of $\beta$ -Lactame Resistance and Antibiotic susceptibility in selected organisms from clinical samples	M.Sc Dissertation 2011-12	Malti Vaghasia	Saurashtra University

<b>Sr.No</b>	<b>Title of Work/Theses</b>	<b>Level</b>	<b>Name of students</b>	<b>Name of Uni.</b>
42	Preparation of PGPR consortium & its field application for Groundnut plant	M.Sc 2011-12 Dissertation	Jyotika Patel	Saurashtra University
43	A Review Project on Halophiles – A Bacterial Survey	B.Sc – 2010-11	Virangi Dudani Hemaxi Gajera	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
44	A Survey and Comparative Study of Panipuri Samples collected from different areas in Rajkot	B.Sc – 2010-11	Divya Halapara	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
45	Qualitative and Quantitative Analysis of Microbial load in Waste Water samples collected from different locations in Rajkot city	B.Sc – 2010-11	Hemali Padalia	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
46	A Survey of Milk Quality from different outlets of Rajkot city	B.Sc – 2010-11	Divya Panara	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
47	Comparative Study of Enzyme Profile of Bacteria from different Soil samples	B.Sc – 2010-11	Anjali Joshi Kinjal Vyas	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
48	Screening & Isolation of Pectinase Producing Microorganisms from soil and the study of Enzyme kinetics of Pectinase	B.Sc – 2011-12	Chavda Vandana Kacchadiya Kiran	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
49	Screening & Isolation of Amylase Producing Microorganisms from soil and the study of Enzyme kinetics of Amylase	B.Sc – 2011-12	Chotaliya Nehal Gandhi Ekta	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
50	Study of antimicrobial effect of various Medicinal plants and Spices on intestinal bacteria	B.Sc – 2011-12	Bhaliya Gopi Gohil Ishita	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
51	Involvement of HPV – 16 in Head and Neck Cancer	M.Sc – 2012-13	Patel komal	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
52	Involvement of HPV – 18 in Head and Neck Cancer	M.Sc – 2012-13	Patel Rima	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
53	Estimation of Bioemulsifiers produced from marine bacteria	M.Sc – 2012-13	Rana Daxa	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)

<b>Sr.No</b>	<b>Title of Work/Theses</b>	<b>Level</b>	<b>Name of students</b>	<b>Name of Uni.</b>
54	Study of effect of physico – chemical factors on the production of Proteases enzyme by bacteria	B.Sc – 2012-13	Paneliya Sadhana, Gajitra Riddhi Baraiya Angel Bhuva Shruti	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
55	Study of effect of physico – chemical factors on the production of Amylase enzyme by bacteria	B.Sc – 2012-13	Patel Palak Patel Dharti Sherasiya Parita Rathvi Malvika	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
56	Study of effect of physico – chemical factors on the production of Lipase enzyme by bacteria	B.Sc – 2012-13	Amrutiya Hita Rupapara Ankita Makwana Sandhya0	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
57	Microbial production of thermo-tolerant lipase and protease from the thermophilic and thermo tolerant Microorganism from Gujarat state	Ph.D – 2012-13	Ambasana Leena	Saurashtra University
58	Isolation and Characterization of Halophilic and Halotolerant PGPR from the rhizospheric soil of different locations with high soil salinity in Gujarat State	Ph.D – 2012-13	Shweta Bhatt	Saurashtra University
59	To study $\beta$ -lactam resistance and its mechanism in bacteria from pathogenic samples	M.Sc – 2013-14	Kotak Nidhi	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
60	Study of prevalence of resistance against antibiotics in routine laboratory cultures of bacteria	M.Sc – 2013-14	Paija Krishna	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)
61	Head and Neck cancer / Cervical cancer	M.Sc – 2013-14	Joshi Kinjal	Mahadev Desai Gramseva Mahavidyalaya – Sadra (Guj Vidyapith)
62	Head and Neck cancer	M.Sc – 2013-14	Mathagiya Ilyas	Mahadev Desai Gramseva Mahavidyalaya – Sadra (Guj Vidyapith)
63	Purification and Characterization of Bioemulsifiers from marine microorganisms	M.Sc – 2013-14	Kothiya Mital	Mahadev Desai Gramseva Mahavidyalaya – Sadra (Guj Vidyapith)
64	Study of antimicrobial activity of some selected plants of day to day use.	B.Sc – 2013-14	Vacchani Arti Mendapara Jayne Moliya Krishna	Shree M. & N. Virani Science College, Rajkot (Saurashtra University)

<b>Sr.No</b>	<b>Title of Work/Theses</b>	<b>Level</b>	<b>Name of students</b>	<b>Name of Uni.</b>
65	Study of enzyme production profile of different species of Bacillus isolated from soil collected from different locations.	B.Sc – 2013-14	Makwana Janki Barad Shraddha Vyas Komal Pabari Kinjal	Shree M. & N. Virani Science College, Rajkot ( Saurashtra University)
66	Screening, Isolation & Characterization of Microbial Consortium for Herbicide Biodegradation	Ph.D – 2013-14	Hiral Joshi	Saurashtra University

#### ❖ Memberships/ Fellowships:

- Life Member of **Association of Microbiologists of India**
- Member of **American Society for Microbiology**
- Member of **Biotechnology Think Tank** – Saurashtra University, Rajkot
- Member and Chairman (2010 – 12), **Board of Studies for Microbiology**, Saurashtra University, Rajkot
- Member, **Faculty of Science** (2010 – 12) , Saurashtra university, Rajkot
- Member of Scrutiny Committee of UGC for the approval of Innovative Programme in Bioinformatics
- Member of Evaluation Committee of UGC for the approval of Innovative Programme in Bioinformatics
- Life Member , NEEHIR, (NGO), Rajkot
- Life Member , NISHTHA , (NGO), Rajkot
- Scientific Committee Member in UGC sponsored One Day National Seminar on “Biochemistry: Recent Advances in Molecular Research” (20<sup>th</sup> February 2011)
- Scientific Committee Member for DST Sponsored “INSPIRE” Internship Science Camp 2012 organized by Department of Biochemistry, Saurashtra university, Rajkot (26<sup>th</sup> to 30<sup>th</sup> November 2012)
- Member – Research Development Committee (RDC) – Saurashtra University, Rajkot
- Member – BOE – Gujarat University, Ahmedabad
- Member – BOE – Bhavnagar University, Bhavnagar
- Member – BOE – Veer Narmad South Gujarat University, Surat
- Member – BOE – Hemchandracharya North Gujarat University, Patan
- Member - Research Development Committee (RDC) - Veer Narmad South Gujarat University, Surat

#### ❖ Achievements:

- University First and Gold Medal – B.Sc Microbiology
- University First and Gold Medal – M.Sc Microbiology
- University First and Gold Medal – Post Graduate Diploma in Business Management
- First student to get PhD degree in Microbiology from Saurashtra university
- State Level Runners Up in RANK & BOLT Awards – 2008 – 09 (Air India & Divya Bhaskar initiated National Level Competition)

- First in Saurashtra University affiliated colleges to get a Major Research Project from UGC
- First rank in almost all the Poster and Oral paper presentations.
- Acting Principal of Shree M. & N. Virani Science College, Rajkot during NAAC inspection (March 2007). Institution received A Grade.
- Best Department (Microbiology) – 2011-12
- Best Researcher Award – Faculty, for the year 2011-12 by The Management, Shree M. & N. Virani Science College, Rajkot
- Certificate of Excellence in a Short Term Course Study in Sustainable Development RIO+20 (United Nations Conference on Sustainable Development – RIO+20 INDIA PRAGRAME – IARC Education and Outreach Division)

#### ❖ **Research Work in Progress:**

##### • **Dissertation work:**

- 1) To study  $\beta$ -lactam resistance and its mechanism in bacteria from pathogenic samples
- 2) Study of prevalence of resistance against antibiotics in routine laboratory cultures of bacteria
- 3) Purification and Characterization of Bioemulsifiers from marine microorganisms
- 4) Study of pattern of association ship among different rhizosphere isolates for their potential for Integrated Pest Management
- 5) Study of antimicrobial activity of some selected plants of day to day use.
- 6) Study of enzyme production profile of different species of Bacillus isolated from soil collected from different locations
- 7) Isolation and identification of Bioemulsifier producers from natural sample and characterization of these bioemulsifying agents
- 8) Study of prevalence of  $\beta$ -lactame resistant bacteria in clinical samples
- 9) Study of association of and detection of HPV and their markers in Head and Neck cancer

##### • **PhD Work:**

- 1) Bioremediation Potential of diazo dye decolorizing microorganisms
- 2) Study of Algae as a biotechnological tool
- 3) Study of B-Lactame resistance in pathogens from Hospital and Community Samples
- 4) Diagnosis of Human Mouth and Neck Cancer by detection of HPV DNA from the specimen
- 5) Isolation of Bioemulsifier producing Microorganisms and Characterization of Bioemulsions
- 6) Isolation and Characterization of Halotolerant PGPR from saline soils of Gujarat Regions
- 7) Isolation and Screening of moderately Thermophilic Bacteria for the production of enzymes.
- 8) Screening, Isolation and Characterization of Microbial Consortium for Herbicide Biodegradation

#### ❖ **Other Activities:**

- 1) Visiting Faculty to Bioscience Department, Saurashtra University, Rajkot
- 2) Visiting Faculty to Biochemistry Department, Saurashtra University, Rajkot
- 3) Visiting Faculty to Department of Pharmaceutical Sciences, Saurashtra University, Rajkot
- 4) Visiting Faculty to Life sciences Department, Hemchandracharya University, Patan
- 5) Visiting Faculty to Christ college, Rajkot

- 6) Consultancy on good will for Rajkot Municipal Corporation and other industrial units for effluent treatment and water purification.
- 7) Radio talk on Microbiology related as well as other topics
- 8) TV documentary on general topics
- 9) Member of NGOs – NEEHIR and NISHTHA
- 10) On Panel of Examiners of Saurashtra University Rajkot, Gujarat University Ahmedabad, Bhavnagar University Bhavnagar, Veer Narmad South Gujarat University, Surat and Hemchandracharya University, Patan
- 11) Judge for many scientific events and cultural and co-curricular activities.
- 12) Resource Person – GSBTM Sponsored Crash Workshop for Undergraduate to prepare for competitive entrance examination – 2009 , 2010, 2011, 2012,2013
- 13) Resource Person – DBT Sponsored 6 Days Crash workshop on “Elementary Biostatistics for Biologists” – 16<sup>th</sup> – 23<sup>rd</sup> January 2012
- 14) Resource Person- PhD Course work – Saurashtra University for Life Science and Biochemistry – 2010,2011,2012,2013
- 15) Resource person – Online Lectures in Microbiology under SANDHAN for BISAG, an initiative of higher education Department of Government of Gujarat

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