

Resume

Name : Dr. Jalpa K. Rank
Date of birth : December 11, 1991
Language known : Gujarati, Hindi, English
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Education

- **Ph.D. in Biotechnology** – Department of Biosciences, Saurashtra university, Rajkot
- **M.Sc. Biotechnology:** Institute of science –Nirma University (2012-2014) with **ppi 8.00**
- **B.Sc. Biotechnology:** Kamani science collage:–Saurashtra University (2009-2012) with **70%**
- **HSC** -M.P.J.Science School (2007-2009) with **59%**
- **SSC** - S.T.Dhol High School (2005-2007) with **78%**

Dissertations

- **B.Sc.:** Citric acid secretion from aspergillus niger, And also done soil project
- **M.Sc.:** Screening, isolation, purification and characterization of amylase and lipase from germinating black mustard seed and flax seed
- **Ph.D.:** Bacterial degradation of an organophosphate pesticide – Chlorpyrifos

Skills

- Basic microbiological techniques
- Gel electrophoresis
- Chromatography
- Cloning
- Basic immunological techniques
- Basic bio informatics tools.
- Microbial techniques

Research publications

Sr.no	Title	Journal	ISSN/ISBN NO	Whether peer reviewed, impact factor, if any
1	Draft Genome Sequence of Commercial Textile Dyes Decolorizing and Degrading <i>Bacillus subtilis</i> strain C3 Isolated from India.	Genome Announcements	21698287	Yes
2	Isolation, characterization, and growth response study of Chlorpyrifos utilizing soil bacterium <i>Pseudomonas putida</i> JR16.	Indian Journal of Agricultural Research	0367-8245	Yes, IF-0.162
3	Utilization of an organophosphate pesticide by a newly isolated bacterial isolate <i>Bacillus spp.jr5</i>	European journal of biomedical and pharmaceutical sciences	2349-8870	Yes, IF-4.918
4	Toxicity Assessment of Biologically Degraded Product of Textile Dye Acid Red G.	Defense Life Science Journal	0011-748X	Yes, IF-0.589
5.	Decolorization and biodegradation of textile diazo dye Acid Blue 113 by <i>Pseudomonas stutzeri</i> AK6.	3Biotech	2190-5738	Yes, IF-2.351
6	A work life balance of the employees HDFC life insurance co.Ltd. Rajkot	Turkish online journal of qualitative inquiry	e-ISSN 1309-6591	Yes,
7	Isolation, Screening, and identification of Acid Black degrading bacterial isolates	International Journal of innovative science and research technology	2456-2165	yes
8	Profenofos degradation and plant growth promoting potential bacterial isolate <i>S. paucimobilis</i> dn-5	International journal of biology sciences	2664-9934	Yes
9.	Investigating optimal conditions for direct red 37	The Scientific Temper	E-ISSN:	yes

	biodegradation using <i>Enterococcus innesii</i> strain CV10		2231-6396, ISSN: 0976-8653	
10	Screening of environmental bacteria for multiple dye decolorization capabilities in textile wastewater	The Scientific Temper	E-ISSN: 2231-6396, ISSN: 0976-8653	yes

Books

Sr. No.	Title with page nos.	Type of Book	Publishers & ISSN/ISBN No
1.	Proceedings of National conference on innovations in biological sciences	Editors	SSRN 3572653(Elasvier)
2	Operation research for beginners	Author	ISBN- 978-93-5526-378-0(self published)
3	Isolation, screening and identification of potential pesticide degrading bacteria	Author	ISBN- 978-93-5627-056-5

Full Papers in Conference Proceedings

Sr. No.	Title with page nos.	Details of Conference Publication	ISSN/SSRN No
1	<i>Aspergillus flavus</i> –A MEANACE TO	10 TH National science	ISBN-9788192952130
2	Study on Isolation, Screening and evaluation of Chlorpyrifos degradation ability of <i>Klebsiella pneumoniae</i> HD5	Proceedings of National conference on innovations in biological sciences 2020	SSRN 3572653

3.	Preparation of chlorpyrifos degradation and plant growth promoting bacterial formulation	Proceedings of National conference on innovations in biological sciences 2020	SSRN 3572653
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Book chapters

Sr. No.	Title with page numbers.	Book Title editor publisher	ISSN/ISBN No
1	A comprehensive exploration of rumen microbial ecosystem with advancements in metagenomics	Metagenomics: perspective, methods, and applications (Elsevier)	978012813403
2	Prospect and progress in extreme biosphere	Understanding host-microbiome interactions :an omics approach (springer)	978-981-1050503
3	Metatranscriptomics studies of the plant rhizosphere for finding biological agent	Understanding host-microbiome interactions :an omics approach (springer)	978-981-1050503

Completed Research Projects and Consultancies

Sr. No.	Title	Agency
1	Exploring biodegradation and plant growth-promoting potential of pesticide-degrading bacterial isolates	SSIP-Gujarat government

2	Hormonal imbalance due to stress/obesity in working female of Saurashtra University	'Gargi – Research Fellowship 2021', Gargi – Centre for the Holistic Development of Women, Dr. Babasaheb Ambedkar Open
3.	Isolation, identification and characterization of agricultural important fungus	IQAC-Saurashtra university

Conference/Seminar/symposia/training /workshop etc.

- Participated in one day national seminar on **biochemistry a global approach from molecules to cell** held on 30 January, 2010
- Participated in two day training programme for key master trainers under the KCG held on January 2011
- Participated in one day national seminar on **biochemistry : recent advantages in molecular research** held on 20 february,2011
- Attended seminar on **Innovations in Biotechnology: from Education to Industry held on September 2012**
- Attended National Seminar on **“Diabetes: Prevention and Cure”** held on September 2013
- Attended national seminar on **“Education commission, recommendations and its executions in independent BHARAT”** held on June 2015.
- Participated in one day workshop on **value Education** held on January 2017
- Participated in Ministry of Human Resource Development (MHRD), Govt. of India sponsored short term training course on **“Metagenomics & Microbiome”** organized by UGC-CAS Department of Biosciences, Saurashtra University, Rajkot during 20.02.2017 to 26.02.2017
- Participated in two day national workshop on sophisticated instrument organized by pharmacy department ,saurashtra university which is held on march 2017

- Participated in one-day national workshop on **“Role of internal quality assurance cell in accredited institutions”** organized by Internal Quality Assurance Cell (IQAC), Saurashtra University, Rajkot on 08.04.2017
- Participated in one day workshop on patent search using free or paid data bases held on 30 august,2017
- Participated in two day workshop on **international faculty development programme** jointly organized by global training education programme held on 13-14.10.2017 (phase 1) and 14.03.2018(phase 2).

POSTER PRESENTATION

- **Jalpa Rank**, Ramesh Kothari, “Study on Biodegradation of Chlorpyrifos by a Newly Isolated Bacterium and Assessment of its Plant Growth Promoting Properties” in UGC-CAS national conference on new horizons of biological sciences, Organized by Department of Biosciences, Saurashtra University, Rajkot.
- Janki kansagara , **Jalpa Rank**, Ramesh Kothari, “ SCREENING AND PARTIAL PURIFICATION OF CHLORPYRIFOS DEGRADING PROTEINS FROM NEWLY BACTERIUM *Pseudomonas putida* ” in UGC-CAS national conference on new horizons of biological sciences, Organized by Department of Biosciences, Saurashtra University, Rajkot.
- Disha Vekariya, Hardika Vaghasiya, Hiral Pandya, Swati **Jalpa Rank**, Ramesh Kothari, “Isolation ,charaterizatiion and identification of chlorpyrifos degrading bacteria ” in UGC-CAS national conference on new horizons of biological sciences, Organized by Department of Biosciences, Saurashtra University, Rajkot.
- Mitul Poshiya, **Jalpa Rank**, Ramesh Kothari, “Devlopment of economical mosquito repellent using *lantana camara*” in UGC-CAS national conference on new horizons of biological sciences, Organized by Department of Biosciences, Saurashtra University, Rajkot.
- Ishita Modasiya, **Jalpa Rank**, Ramesh Kothari, “Isolation and identification of Biocontrol fungus *Trichoderma Asperellum* Strain RK1” in UGC-CAS national conference on new horizons of biological sciences, Organized by Department of Biosciences, Saurashtra University, Rajkot.
- Sonali Domadiya, Swati Sagpariya, **Jalpa Rank**, Ramesh Kothari, “Soil bacteria showing a potential of chlorpyrifos degradation and plant growth enhancement ” in UGC-CAS

national conference on new horizons of biological sciences, Organized by Department of Biosciences, Saurashtra University, Rajkot.

- **Jalpa Rank**, Ramesh Kothari, “Identification of newly isolated pesticide degrading bacterium” in UGC-CAS National Conference on Biodiversity and Bioresource Utilization, Organized by Department of Biosciences, Saurashtra University, Rajkot.
- **Jalpa Rank**, Vishal Kothari, Ankit Hinshu, Ramesh Kothari “Utilization of “ organophosphate pesticide by newly isolated bacterium *Bacillus subtilis* JR5”, in the 10th National Level Science Symposium on Recent Trends in Science and Technology, Organized by Christ College, Rajkot on 11th Feb, 2018
- Ramesh Kothari, Piyush Lunagariya, **Jalpa Rank**, Vishal Kothari, Charmy Kothari, Diversity of bacterial species that utilize organophosphate pesticide as sole source of carbon” in 11th international congress on extremophile organized by Kyoto, Japan
- Ruchi Bhatt, **Jalpa Rank**, Ramesh Kothari, “Evaluation of Organophosphate Pesticide Degradation by Bacterial Isolates from Agricultural Soil”, in GUJCOST Sponsored 9th National Level Science Symposium on Recent Trends in Science and Technology, Organized by Christ College, Rajkot on 14th Feb, 2017
- Dholakiya Kinjal , Chudasama Mamta, **Jalpa Rank**, Ramesh K. Kothari, “Effect of Nutritional and Environmental Parameters on Chlorpyrifos Degradation by JR16” in in GUJCOST Sponsored 10th National Level Science Symposium on Recent Trends in Science and Technology, Organized by Christ College on 11th feb, 2018
- Yamini Jetha, Hithesh Halaiya, **Jalpa Rank**, “Isolation and identification of azo dye degradanig bacteria”, in the 10th National Level Science Symposium on Recent Trends in Science and Technology, Organized by Christ College, Rajkot on 11th Feb, 2018
- Devika Manek, Nishant Vora, Neelam Nathani, **Jalpa Rank**, Ramesh Kothari, “Screening of filamentous fungi tolerant to naphthalene from peladic sediment in gulf of kutch and khambhat” in the 10th National Level Science Symposium on Recent Trends in Science and Technology, Organized by Christ College, Rajkot on 11th Feb, 2018.
- Jalpa Rank, V.V. Kothari, C. R. Kothari, R. K.Kothari, “Decoloutization of some textile dyes by ligninolytic enzyme system of a white rot fungus” in federation of European microbiology on June 2015.

Awards

- Secured second rank in poster presentation in national level science symposium organized by Christ college which is held on February 2016
- Submitted 7 16s rRNA sequences of newly isolated bacterial strain in NCBI
- Submitted 1 whole genome sequences of newly isolated Chlorpyrifos degrading bacterial strain on genbank.
- Dissertation student guided -40

Co- curriculum achievements

- Qualified level A1 of SCOPE (Gujarat English language test) examination held on 2nd January 2011
- Qualified **Biotechnology Aptitude Test-2012 (BAT)** with Grade-I of held on 5th February 2012
- Qualified **CCC** Examination on September 2017.

Experience

- **Current position** – Working as an Assistant Professor at , department of biosciences, Saurashtra University, Rajkot.
- **Experience:** Biology Teacher at Omkar SOS (1 year)

Dr. Jalpa Rank
Assistant Professor