

# Desai Shreya Mahendrabhai



Teaching assistant

CGBIBT

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## *Education*

### **Doctor of Philosophy (Pursuing)**

C G Bhakta Institute of Biotechnology

Uka Tarsadia University

### **Bachelor of Education, Science & Technology, Mathematics (2018)**

H.B. Kapadia College of Education

Gujarat University, Ahmedabad

### **Master of Science, BIOTECHNOLOGY (2013)**

C G Bhakta Institute of Biotechnology

Uka Tarsadia University

### **Bachelor of Science, BIOTECHNOLOGY (2011)**

C G Bhakta Institute of Biotechnology

Veer Narmad South Gujarat University, Surat

## *Specialization*

### **Microbiology**

## *Professional/Teaching Experience*

Presently working as a Teaching Assistant in C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Maliba Campus, Bardoli, Surat, India (**Since 06/08/2014 to till date**).

**Teaching Activities:** Agriculture Microbiology, Introduction to Microbiology, Food Microbiology, Industrial Microbiology, Plant Biotechnology, Microbial Biotechnology, Mycology and Parasitology, Mycology phycology.



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**Practical Lab Conducted:** Biotechnology and Microbiology Lab for Bachelors and Masters Students

Worked as Lab chemist in Palsana Enviro Pvt. Ltd. Kadodara, Surat, India (2013-2014)

### ***Research Interest***

- Plant natural products
- Industrial Microbiology.
- Biological hazards in food
- Waste water treatment
- Microbial interactions with Plants
- Plant Microbiology
- PGPR
- Plant Biotechnology

### ***Research Experience***

#### **Dissertation**

Duration: January 2013 to May 2013

Department: C. G Bhakta Institute of Biotechnology.

Project title: “Studies on phytochemical investigation, antimicrobial activity and endophyte fungi of some medicinal plants.

Project Guide: Dr. R.Krishnamurthy

### ***Creditable position***

#### **As a co-ordinator and judge in any events**

- Worked as a judge in Teacher’s Day celebration “Science with sense” in CGBIBT-2021.
- Worked as member of Music events committee in the 35<sup>th</sup> Inter University West zone youth organized at UTU from 27/12/2019-31/12/2019.
- Worked as Event coordinator in filmy dance and folk/ tribal dance of youth fest held during 11/02/2016-13/02/2016 at UTU.
- Acted as a judge in group song competition of youth fest held during 11/02/2016-13/02/2016 at UTU.
- Acted as a judge in bollywood group dance of youth fest held during 29/09/2016-1/10-2016 at UTU.



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- Worked as Event coordinator for the event clay modelling of youth fest held during 29/09/2016-1/10-2016 at UTU.
- Acted as a judge in solo bollywood vocal competition of youth fest held during 31/1/2018-2/02/2018 at UTU.
- Acted as an event co-coordinator in free style/contemporary/bollywood group dance competition of youth fest held during 31/1/2018-2/02/2018 at UTU.

### As a Teacher In-charge

Dissertation/M.Phil/PhD	Year/Semester	No of student
<b>M.Sc. Dissertation</b>	2014-2016/M.Sc. Biotechnology sem-VII	1
<b>M.Sc. Dissertation</b>	2015-2017/M.Sc. Biotechnology sem-VII	2
<b>M.Sc. Dissertation</b>	2016-2018/M.Sc. Biotechnology sem-VII	3
<b>M.Sc. Dissertation</b>	2016-2018/M.Sc. Microbiology sem-VII	3
<b>M.Sc. Dissertation</b>	2017-2019/M.Sc Biotechnology/Microbiology-VII	5
<b>M.Sc. Dissertation</b>	2018-2020/ M.Sc Biotechnology/Microbiology-VII	7
<b>M.Sc. Dissertation</b>	2019-2021/ M.Sc Biotechnology/Microbiology-VII	9

### Skills

- **Plant tissue culture techniques:** Preparation of media, sterilization of explant, inoculation, sub-culturing and maintenance of explants.
- **Chromatographic techniques:** Paper chromatography, TLC.
- **Microbial techniques:** Media preparation, plating, staining of organism, Bacterial Isolation.
- **Histological techniques:** Paraffin sectioning of tissue.
- **Immunological techniques:** ELISA, RIA.
- **Molecular techniques:** SDS, Isolation of DNA.
- **Chromatographic techniques:** Paper chromatography, TLC.
- **Environmental lab techniques:** BOD, COD, TDS

### Presentations

- Actively participated and presented oral presentation in an international conference “ Microbial biotech interactions for sustainable agriculture and societal development” at Dept.



of Microbiology and Biotechnology, Gujarat University, Ahmedabad during 6/02/2020-7/02/2020.

- Actively participated and presented poster in an international conference “Recent trends in affordable and sustainable drug discovery and development at UTU during 06/02/2016 to 08/02/2016.
- Actively participated and presented poster in an international conference “Current status, opportunities and challenges in Medicinal plants and natural product research at CGBIBT, UTU during 24/09/2014 to 26/09/2014.
- Actively participated and presented oral presentation in national conference “ 5<sup>th</sup> national Asian PGPR conference for sustainable and organic agriculture” at Acharya Nagarjuna University, Guntur during 23/02/2019-25/02/2019.

### ***Professional/Research Training***

- Worked as a LOC member in an international conference on “Healthcare in 21<sup>st</sup> century. Perspectives of ethno pharmacology & medicinal plant research” held at Uka Tarsadia university, Bardoli, Gujarat, India in association with society for ethno pharmacology India on 23<sup>th</sup> - 25<sup>th</sup> September **2017**.
- Actively participated and successfully completed One week faculty development program on “Biostatistics and Experimental Designs: Theory and Hands on applications” held at Uka Tarsadia University, Maliba campus on 25<sup>th</sup> to 30<sup>th</sup> April **2016**.
- Attended one day national seminar on Futuristic perspectives on Inhaled Drug Therapy” Held at Uka Tarsadia University, Maliba campus on 9<sup>th</sup> January **2016**.
- Attended two day international seminar on “Current trend in Biological Sciences” held at Department of Biochemistry, M.G. Science Institute, Ahmadabad on 26<sup>th</sup> to 27<sup>th</sup> December **2015**.
- Attended International Symposium on “Recent Advances In cancer Research Therapeutics to Chemoprevention” held on 8<sup>th</sup> -9<sup>th</sup> February **2012**.
- Attended seminar and training workshop on “zero liquid discharge-policy experience and emergent technologies” held on 27<sup>th</sup> - 28<sup>th</sup> January **2014**
- Participated in seminar event of GSBTM, organized on November 18, **2009**
- Presented poster in intercollegiate during **2011-2012**.



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- Actively participated and Worked as an organizing member in international conference on “Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research” held at C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University on 24th- 26th September **2014**.
- Attended a National Biotechnology Symposium on “Innovation in Biotechnology: from Education to Industry” held at AMA, Ahmedabad on 1<sup>st</sup> September **2012**.
- Attended one day seminar on “Commercial use of Microbes in Bioremediation and Plant Protection – Bioconclave 2012” held at C G Bhakta institute of Biotechnology, on 24<sup>th</sup> April, **2012**.
- Participated in Faculty Development Program at Center of Humanities and Development held at UTU on 7<sup>th</sup> to 21<sup>st</sup> September **2016**.
- Participated in conference “biological tools for sustainable environments, VNSGU, Surat, Gujarat during 23<sup>rd</sup> to 24<sup>th</sup> march **2018**.
- Participated in seminar “Recent advances in cancer and Cell Biology, Department of Microbiology and Biotechnology, M.S.University, Baroda during 6<sup>th</sup> January **2018**.
- Actively participated and presented poster in an international conference “Recent trends in affordable and sustainable drug discovery and development at UTU during 6<sup>th</sup>- 8<sup>th</sup> February **2016**.
- Participated in “one day symposium on nanotechnology based drug delivery: Opportunities and challenges on 11<sup>th</sup> April **2015**.
- Actively participated and presented poster in an international conference “Current status, opportunities and challenges in Medicinal plants and natural product research at CGBIBT, UTU during 24<sup>th</sup> to 26<sup>th</sup> September **2014**.
- Participated in workshop “Effective public speaking” at SRIMCA, UTU during 9/05/2016.
- Actively participated in international symposia “Emerging Biological trends in 21<sup>st</sup> century, GSBTM, P.P.Savani University, Kosamba on 5<sup>th</sup> November **2017**.
- Attended National workshop on “Computer aided drug discovery and Microbiome analysis” at VNSGU, Surat, 31<sup>st</sup> March **2019**.
- Worked as an organizer of national conference “Microbiome research: Understanding the diversity to improve plant, animal, human and environmental health at CGBIBT, UTU during 7<sup>th</sup> to 9<sup>th</sup> March **2019**.



- Actively participated and presented oral presentation in national conference “ 5<sup>th</sup> national Asian PGPR conference for sustainable and organic agriculture” at Acharya Nagarjuna University, Guntur during 23<sup>rd</sup> to 25<sup>th</sup> February **2019**.
- Participated in national conference “Targeted bioconjugates for drug delivery” MPC, UTU during 5<sup>th</sup> and 6<sup>th</sup> October **2018**.
- Participated in faculty development program at the center of humanities and development, UTU during 15<sup>th</sup> to 22<sup>nd</sup> November **2018**.
- Participated in “inspire internship science camp-2018 at CGBIBT, UTU during 5<sup>th</sup> to 9<sup>th</sup> September **2018**.
- Actively participated and presented oral presentation in an international conference “ Microbial biotech interactions for sustainable agriculture and societal development” at Dept. of Microbiology and Biotechnology, Gujarat University, Ahmedabad during 6<sup>th</sup> and 7<sup>th</sup> February **2020**.
- Participated in national seminar “Role of Microbiologist in industry” at Sanjivani Arts, Commerce and Science college, Kopergaon during on 5<sup>th</sup> December **2019**.(webinar)
- Participated in national seminar “Properties, Fabrication and application of nanomaterials and devices at department of Physics, UTU during on 5<sup>th</sup> July **2019**.
- Participated in international conference “ 2<sup>nd</sup> edition of Global Agriculture conference (webinar) at reignite innovative conferences during 21<sup>st</sup> and 22<sup>nd</sup> May **2021**.
- Participated in faculty development program “Skilling teachers for online education” UTU during 2<sup>nd</sup> to 6<sup>th</sup> June **2020**.

### ***Publications***

- Jemisha Mistry, Suraj Desai, Miral Patel, Swetal Patel and **Shreya Desai (2016)**. Isolation and characterization of Lipase producing bacteria from vegetable spillage site. In Current Microbiology and Applied Sciences. ISSN:2319-7706, Volume 5 Number 8 pp. 214-232.
- **Desai Shreya M**, Dr.R.Krishnamurthy “Alleviation of malnutrition by biofortification of crops” in International Journal Of Humanities And Social Science Invention. (2013) 2;5 pp. 01-08.
- Swetal Patel, **Shreya Desai** and Dr.R.Krishnamurthy “Biochemical and Nutritional Evaluation of Morinda citrifolia (Noni) at Different Maturity Stages” **Advances in Life Sciences Journal** ISSN NO 2278-3849 (2016)



- Hemishi Patel, **Shreya Desai** and Dr.R.Krishnamurthy “Role of plants as hepatoprotective agents ñ a brief review” Research & Reviews in BioSciences journal ISSN NO 0974 – 7532 (2015)
- **Desai Shreya**, Naik Jinal, Patel Kartik, Natarajan Amaresan “Amelioration effect of chromium-tolerant bacteria on growth, physiological properties and chromium mobilization in chickpea (*Cicer arietinum*) under chromium stress” Archives of Microbiology (2020) 202:887–894.

### **Publications(Book Chapters)**

- **Desai Shreya**, N. Amaresan “Selection of *Rhizobium* Strain for Inoculum Production” Natarajan Amaresan, Pritesh Patel and Dhruvi Amin (eds.), Practical Handbook on Agricultural Microbiology, Springer Protocols Handbooks.  
[https://doi.org/10.1007/978-1-0716-1724-3\\_51](https://doi.org/10.1007/978-1-0716-1724-3_51).
- **Desai Shreya**, N. Amaresan “Qualitative and Quantitative Estimation of Phosphate Solubilizing Actinobacteria” Dhanasekaran Dharumadurai (ed.), Methods in Actinobacteriology, Springer Protocols Handbooks.  
[https://doi.org/10.1007/978-1-0716-1728-1\\_86](https://doi.org/10.1007/978-1-0716-1728-1_86)
- **Desai Shreya**, N. Amaresan “Estimation of Nitrogen Production by Actinobacteria” Dhanasekaran Dharumadurai (ed.), Methods in Actinobacteriology, Springer Protocols Handbooks.  
[https://doi.org/10.1007/978-1-0716-1728-1\\_87](https://doi.org/10.1007/978-1-0716-1728-1_87),
- **Desai Shreya**, N. Amaresan “Biocontrol Activity of Actinobacteria Against Plant Pathogens” Dhanasekaran Dharumadurai (ed.), Methods in Actinobacteriology, Springer Protocols Handbooks.  
[https://doi.org/10.1007/978-1-0716-1728-1\\_90](https://doi.org/10.1007/978-1-0716-1728-1_90),
- **Desai Shreya**, N. Amaresan “Estimation of Auxin Production by Actinobacteria” Dhanasekaran Dharumadurai (ed.), Methods in Actinobacteriology, Springer Protocols Handbooks.  
[https://doi.org/10.1007/978-1-0716-1728-1\\_9](https://doi.org/10.1007/978-1-0716-1728-1_9)



Date: 27/09/2021  
Place: Tarsadi, Bardoli



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