

**Name:** Mrs. Viraj A. Chaudhari  
**Designation:** Assistant Professor (Microbiology)  
Government Science College,  
Vankal, Dist. Surat  
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#### Academic Credentials:

Degree	Subject	Board of Education / University	Year of passing
NET	Agricultural Microbiology	Indian Council of Agricultural Research (ICAR)	2014
M. Phil	Microbiology	Gujarat University, Ahmedabad, Gujarat	2009
M.Sc.	Microbiology	Gujarat University, Ahmedabad, Gujarat	2008
B.Sc.	Microbiology	Gujarat University, Ahmedabad, Gujarat	2006

#### Research work During M.Phil:

- Worked on 'Selection of rhizobacteria with phytostimulatory and biocontrol potential from *Jatropha curcas* L. rhizosphere'. In this study, first stage was to isolate rhizobacteria from *Jatropha curcas* L. rhizosphere. In next stages rhizobacteria were selected on their PGP potential activities on laboratory scale and it is expected that inoculation with these rhizobacteria containing plant growth promoting characteristics consequently promote root and shoot growth and yield of *Jatropha curcas* L. under the field condition.

#### Professional Experience:

##### Teaching:

- Three years and eight months teaching experience in the cadre of Assistant Professor and its equivalent (Contractual) in Dairy Science & Food Technology College, Dantiwada, Dist. Banaskantha at Sardarkrushinagar Dantiwada Agricultural University.
- Four years and eleven months teaching experience in the cadre of Assistant Professor in Government Science College, Vankal, Ta. Mangrol, Dist. Surat at Veer Narmad South Gujarat University

##### Research:

- Worked on "Development of functional Squash containing drumstick leaves powder and mango pulp" as a Co-PI (AGRESKO)
- Work submission for patent of "A Process for preparation of instant ready to make potato halwa" as a member of inventor applied by Sardarkrushinagar Dantiwada Agricultural University.

##### Administrative work:

- Worked as Lab In-charge of Department of Dairy & Food Microbiology, In-charge of College Library, Counsellor & Advisor for students, Lab In-charge of Student Experiential Learning Programme, as member of In-Plant Training Evaluation

committee at DSFT College, SDAU.

- Worked as committee member of “Work on Dias” for 7<sup>th</sup>, 9<sup>th</sup> and 11<sup>th</sup> Annual Convocation of SDAU.
- Worked as Co-ordinator of Finishing School Training organized by KCG, Government of Gujarat since 2018 at GSC Vankal, Surat.
- Worked as committee member of Admission, Saptadhara & Cultural activities, Medical check-up, Woman Cell and Science Club at GSC Vankal, Surat.

### Technical Expertise:

#### Microbiological Analysis

- Enumeration of specific groups of microorganisms such as aerobic plate counts, total coliforms, faecal coliforms, yeast and molds, acid producing microorganisms, lipolytic and proteolytic organisms, spore forming bacteria etc.
- Isolation and identification of food spoilage and pathogenic organisms such as *Salmonella*, *Shigella*, *Staphylococcus aureus*, *Bacillus cereus*, *E. coli* etc.
- Detection of sources of contamination in air, water, utensils, equipment and personnel line testing
- Starter and probiotics cultures – preservation, maintenance, starter activity tests, enumeration, in-vitro tests for assessing probiotic attributes etc.

#### Genetic techniques

- Extraction of DNA from bacterial culture, Qualitative and Quantitative analysis of DNA, Extraction of plasmid DNA/ isolation of plasmid DNA by alkaline lysis method, Various PCR techniques (Standard PCR, Real time PCR), electrophoresis.

### Seminars Delivered/ Attended/ Work Shop

- Attended seminar on “Current Trends in Molecular Biology and Clinical Drug Trials” held on October 3, 2007.
- Attended Gujarat Science Congress on “Frontiers of Science and Technology: Vision Gujarat 2020” held at VNSGU, Surat on 15<sup>th</sup> February, 2009. Participated in the seminar titled “Biosafety and the era of changing needs of the nation” at SDAU, Sardarkrushinagar on 22<sup>nd</sup> January, 2014.
- Attended National Workshop on “Export Procedure and Promotional Schemes for Agricultural Commodities in India” organized by C.P. College of Agricultural, SDAU, Sardarkrushinagar held on February 25-26, 2016.
- Attended seminar on “Value Addition and Export Opportunities in Horticultural Crops” Jointly organised by C.P. College of Agricultural, SDAU, Sardarkrushinagar, NHM, Department of Horticultural, Govt. of Gujarat, Gandhinagar and Gujarat Association of Agricultural Science during 2-3, June 2017.
- Delivered an invited lecture on “ Microbial Disease” in 12 days “ Crash Workshop” sponsored by N-BT-CBC of GSBTM for preparation of National Level Competitive Exams in Biological Sciences for admission in PG courses organized by Government Science College, Vankal, Surat during 1<sup>st</sup> -12<sup>th</sup> February, 2022.

## Poster presentation

- Chaudhari V.A., Saraf M. (2009). 'Screening and evaluation of PGPR from two different region of Gujarat' at Regional Conference on 'Microbial Technology for Sustainable Environment' organized by Department of Microbiology and Biotechnology, School of Sciences, Gujarat University, Ahmedabad (Gujarat), India.
- Chaudhari V.A., Saraf M. (2009). 'Screening of potential PGPR from sodic soil of *Jatropha curcas* rhizosphere in Gujarat' at 50<sup>th</sup> Annual Conference- Third Golden Era of Microbiology organized by Association of Microbiologists of India (AMI), National Chemical Laboratory, Pune (Maharashtra), India.
- N.D. Joshi, V.A. Chaudhari, K.K. Soni , CH.V. K. Sudheendra (2016). "Standardization of functional beverage: Mango Squash with Drumstick (*Moringa oleifera*) leaves powder" at International Conference on Nutraceuticals and Functional Foods – The Challenges and Opportunities organized by AAU, Anand (Gujarat), India.
- N.D. Joshi, K.V. Mogha, V.A. Chaudhari (2017). "Non-thermal technologies for improvement of safety and quality of foods" at National level competition organized by College of Food Processing Technology & Bio-energy, AAU, Anand (Gujarat), India.
- P.A. Suvera, V.A. Chaudhari, P.S. Prajapati (2017). " Development of fiber fortified Probiotic Shrikhand" at International conference The Society for Woman in Science in Developing Countries- Egypt under the theme: Sciences for Woman: Development and Innovation, Cairo, Egypt.

## Training Programme

- Participated in the Summer Training on Agricultural Microbial Bioinformatics – 2009(STAMB-2009) at Applied Botany Centre, Department of Botany, University School of Sciences, Gujarat University, Ahmedabad from 27<sup>th</sup> June to 4<sup>th</sup> July-2009 under American Society for Microbiology (ASM) Indo-US Professorship Programme.
- Participated in the one day Training Programme entitled "Operationalization of e-Courses for B.Tech. (Dairy Technology) on Moodle platform delivered On-line & Off-line organized by NDRI and Anand Agricultural University at Seth M.C. College of Dairy Science, Anand on July16, 2013 under the NAIP Component-1 sub project "Development of e-Course for B.Tech (Dairy Technology) Degree Programme".
- Participated in National Himalayan Trekking cum Training Expendetion Sandakphu-Gurdum-2018 during May-June 2018 organized by YHAI, West Bengal State Branch.
- Participated course on "Comprehensive online Intellectual Property Rights (IPR)" conducted during 6<sup>th</sup> July to 14<sup>th</sup> September, 2020 (i-Hub)
- Completed online UDAYAM ( Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content Development course organised by Knowledge Consortium of Gujarat, Ahmadabad and HRDC, Gujarat University during 28<sup>th</sup> July to 18<sup>th</sup> August, 2020
- Participated in "Shiksha Sangam-2022" an initiative by Mera Samarth Bharat Abhiyan a Project by Samarth Trust during 11<sup>th</sup> -14<sup>th</sup> September,2022

## Article Published

- Chaudhari V.A. & Saraf M. (2015) Assessment of Plant Growth promoting Rhizobacteria from *Jatropha curcas* Rhizosphere. ARPN Journal of Agricultural and Biological Science, Vol. 10, pg. 48-54.
- P. V. N. S. Reddy, V.A. Chaudhari, Ch. V. K. Sudheendra, R. Sing. (2016) Isolation and Characterization of Lactic Acid Bacteria from Dosa Batter, a Cereal Based Fermented Food of India. Environment & Ecology 34 (1) : pg. 104-108.

## Popular Article/Bulletin

- N.D. Joshi, V.A. Chaudhari, G.Gopikrishna, Dr. P.C. Joshi. “**ખાદ્ય પદાર્થોની સાયવણી**” published in Krushi Visva Samayik, Gujarat Samachar, dated on 09/12/2014
- N.D. Joshi, V.A. Chaudhari, G.Gopikrishna, Dr. P.C. Joshi. “**ખોરાકમાં ઝેર**” published in The Message Samachar Patrak dated on 16/12/2014
- N.D. Joshi, V.A. Chaudhari, G.Gopikrishna, Dr. P.C. Joshi. “**આરોગ્ય**” published in Bharat Disha Times, dated on 14/01/15
- Viraj Chaudhari, Dr. Kanchan Mogha, Nirav Joshi. “**સ્વચ્છ દૂધનું ઉત્પાદન**” Bulletin published by Director of Extention Eduction, SDAU, Krushimela-2017
- Dr. Kanchan Mogha, Viraj Chaudhari, Nirav Joshi. “**પ્રોબાયોટીક ડેરી પ્રોડક્ટ્સ**” Bulletin published by Director of Extention Eduction, SDAU, Krushimela-2017
- Nirav Joshi, Dr. Kanchan Mogha, Viraj Chaudhari. “**ખોરાકનું પરીરક્ષણ**” Bulletin published by Director of Extention Eduction, SDAU, Krushimela-2017

## Software Skills:

- Cleared CCC+ exam from SPIPA, Surat

## Professional Memberships

- Member of SASNET-Fermented food, Anand, India
- Member of Probiotic Association of India (PAi), Karnal, India
- Member of Association of Microbiologist of India (AMI), India
- Member of Plant Protection Association of Gujarat, Anand, India
- Member of Gujarat Bagayat Vikash Parisad, Anand, India

## Personal Details:

Date of birth	: 17 <sup>th</sup> March, 1986.
Gender	: Female
Marital status	: Married
Languages known	: English, Gujarati, Hindi
Nationality	: Indian
Interests	: Travelling, Trekking and Reading