

**Dr. Arefa AbdulKhalig Baakza**

Assistant Professor (Microbiology),  
Government Science College,  
G-Road, Sector-15  
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Gujarat(INDIA)  
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**Education**

**Ph.D.** in Microbiology from Department of Life Sciences, Maharaja Krishnakumarji Bhavnagar University, Bhavnagar ( September 2002)

Studies on Fungal Siderophores

**M.Sc.** (Microbiology) with 70% from Department of Life Sciences, Maharaja Krishnakumarji Bhavnagar University, Bhavnagar, during (June 1996 – April 1998).

**B.Sc.** (Microbiology) with 67.6% from Sir P. P. Institute of Science, Maharaja Krishnakumarji Bhavnagar University, Bhavnagar, during (June 1993 – March 1996).

**Professional Positions**

**Assistant Professor** : Microbiology, Government Science College, Gandhinagar from 26<sup>th</sup> February 2014 onwards till date

**Principal** : Smt. U. B. Bhagat Science Mahila College, (Saurashtra University), Amreli 365601. Gujarat. From 22<sup>nd</sup> March 2011 till 25<sup>th</sup> February 2014

**Assistant Professor** : Microbiology at Smt. U. B. Bhagat Science Mahila College, (Saurashtra University), Amreli 365601. Gujarat. From 31<sup>st</sup> May 2004 till 25<sup>th</sup> February 2014

**Visiting Lecturer** : Sir. P.P.Institute of Science ( under graduate level) from 1998-2000 & 2003-2004.

**Research Fellow** : DOD Department of Ocean Development, Govt of Delhi sponsored project on Marine Microbial Diversity at the Department of Life Sciences, Maharaja Krishnakumar ji Bhavnagar university (2000-2003)

**Publications**

- Nine (09) Publications

**For Detail Please refer Annexure 1**

**Conferences / Seminars/Workshops/Scientific talk**

- Attended and/or participated (08) national conference/seminar/workshop

**For Detail Please refer Annexure 2**

**Orientation Programme/ Refresher Course/Short Term Course/Faculty Development Programme**

- Completed **Orientation Programme** at UGC-HRDC, Gujarat University, Ahmedabad from 07/11/2016 to 04/12/2016 with A grade.

- Completed **Refresher Course** in “Environmental studies” at UGC-HRDC, Gujarat University, Ahmedabad from 18/12/2017 to 07/01/2018 with A grade.
- Completed SDAU MOOC on “Teaching from home with IT-tools” organized by SardarKrushinagar Dantiwada Agricultural University, SardarKrushinagar, Gujarat from 23/04/2020 to 01/05/2020.
- Completed 9<sup>th</sup> online **Short-Term Course** on “E-content development” at UGC-HRDC, Gujarat University, Ahmedabad from 28/05/2020 to 03/06/2020.
- Completed **Certificate course** on Comprehensive Online Intellectual Property Rights (IPR) organized by Gujarat Student Startup and Innovation Hub (i-Hub) during 6/07/2020 to 14/09/2020.
- Participated in Online **UDAYAM E-Content** Development Course organized by Knowledge Consortium of Gujarat (KCG), Ahmedabad and HRDC, Gujarat University, Ahmedabad during 28/07/2020 to 18/08/2020.
- Completed 1<sup>st</sup> online **Refresher Course** in “Quality in Higher Education” at UGC-HRDC, Gujarat University, Ahmedabad from 06/09/2021 to 19/09/2021 with A grade.
- Participated in **FDP** on “Strengthening Experimental Microbiology for Undergraduate Study” organized by Department of Microbiology and Biotechnology, University School of Sciences, Gujarat University, Ahmedabad during 20/07/2022 to 26/07/2022.
- Completed **Refresher Course** in “Combating COVID-19 with Yoga” at UGC-HRDC, Devi Ahilya Vishwa Vidyalay, Indore from 14/03/2023 to 27/03/2023 with A+ grade.

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### Special Achievement

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- An independent project **Siderophores of Rhizobacteria and Rhizosphere fungi as inoculants of Plants** sponsored by DST, had been approved under the women scientist scheme (WOS-A) on 24<sup>th</sup> November 2004

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### Personal Details

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**Date of Birth** : 4<sup>th</sup> October 1975  
**Marital Status** : UnMarried  
**Languages known** : English, Hindi, Gujarati

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### REFERENCES

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**Dr. H. C. Dube**, Ex- Professor and Head Department of Life Sciences, Gujarat. ; E-mail: hcdharish@yahoo.co.in

**Dr. Vimal Ramani**, Principal and Dean, Dairy Science College, Kamdhenu University, Amreli. Gujarat. E. Mail: vimalmramani@gmail.com

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**Dr. Arefa Baakza**

## Annexure 1

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### International:

1. Arefa Baakza, A. K. Vala, Dave B P, Dube H C. (2004) A comparative study of siderophore production by fungi from terrestrial and marine habitats. **Journal of Experimental Marine Biology and Ecology** (311): 1-9

### National

1. Arefa Baakza, Dave B P, Dube H C. (2003) Screening of fungi for siderophore production **Journal of Current Biosciences** 1 (2); 88-95
  2. Arefa Baakza, Dave B P, Dube H C. (2003) Effect of pH and incubation time on growth and siderophore production by certain fungi. **National Academy Science Letters, India.** 26 (9 & 10) ; 276-285.
  3. Arefa Baakza, Dave B P, Dube H C. (2003) Effect of organic acids and sugars on growth and siderophore production of fungi. **Journal of Advances in Science and Technology**, 6(I and II) June-Dec., 1-8
  4. Arefa Baakza, Dave B P, Dube H C. (2004) Chemical nature, ligand denticity and quantification of fungal siderophores. **Indian Journal of Experimental Biology** 42; 96-105.
  5. Arefa Baakza, Dave B P, Dube H C. (2004) Ferric reductase, superoxide dismutase and alkaline phosphatase activities in siderophore producing fungi. **Indian Journal of Experimental Biology** 42; 217-219.
  6. Arefa Baakza, Dave B P, Dube H C. (2004) Effect of amino acids on growth and siderophore production of fungi. **Proceedings of the National Academy of Sciences India** 277-282.
  7. Arefa Baakza, Shweta P. Dave, Dave B P Dube H C. (2004) Effect of varying iron concentrations on growth and siderophore production in fungi. **Journal of Mycology and Plant Pathology** Vol 34 (2) 450-453
  8. Arefa Baakza, Dave B P, Dube H C. Chemical properties and NMR Spectroscopic identification of certain fungal siderophores (2005) **Indian Journal of Experimental Biology** Vol 43, PP 880-886.
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## Annexure 2

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1. Presented a paper entitled "Studies on fungal siderophores" at the National conference on Emerging Areas in Plant Sciences organized by Academy of Plant Sciences at Palitana, 5<sup>th</sup> - 6<sup>th</sup> Oct. 2001 Bhavnagar.
2. Attended a Workshop on 'Recombinant DNA Technology' organized by Central Facility for Biotechnology Teaching and Research (CFBTR) from 21<sup>st</sup> - 31<sup>st</sup> December 2002 held at Madurai, Tamilnadu.
3. Presented a paper entitled "Studies on siderophores from diverse fungal groups" at the national symposium organized under UGC-DST on Environmental Biotechnology and Biodiversity Conservation, 31<sup>st</sup> Jan - 1<sup>st</sup> Feb. 2003, Vallabh Vidyanagar, Gujarat
4. Attended Seminar on 'Current Trends in Natural Sciences' held by Bhavnagar University, 16<sup>th</sup> - 17<sup>th</sup> Feb. 2004 Bhavnagar.
5. Attended UGC sponsored one day seminar on "50 years of DNA Double Helix: Retrospect and Prospect" on 11<sup>th</sup> Oct. 2004 organized by Shree M.N.Virani College, Rajkot, Gujarat.
6. Attended national seminar on "Radiology in service of mankind at Rajkot on 3<sup>rd</sup> December 2006.
7. Attended UGC sponsored one day National Seminar on "Nanotechnology challenges and Opportunities" at Shree M. N. Virani Science College, Rajkot on 28<sup>th</sup> December, 2009.
8. Attended NanoSys'10 – A National Seminar on Nanotechnology Today and Tomorrow at Institute of Technology, Nirma University, Ahmedabad on 8<sup>th</sup> March 2010.
9. Delivered an invited talk on Spectroscopy for Post Graduate Programme in Microbiology and Biotechnology at M.N.Virani Science college Rajkot on 19<sup>th</sup> March 2013.
10. Attended GUJCOST sponsored State level Seminar on "Crossing edges of research in science" at Government Science College, Gandhinagar on 11<sup>th</sup> March 2017.
11. Attended XXXII Gujarat Science Congress at Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar on 4-5 February 2018.
12. Attended and presented a poster entitled "Medical applications of siderophores" at the International conference on "Panorama of Life Sciences 2020" organized by Department of Life Sciences, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar on 28<sup>th</sup> January 2020.
13. Served as a coordinator and delivered a scientific talk on "Human Immune System" at One Day State Level Online Seminar on Man vs Microbe: The Story of COVID-19 organized by Department of Microbiology, Government Science College, Gandhinagar on 3<sup>rd</sup> January, 2021.