

Curriculum Vitae

Dr. Hitarth B. Bhatt

Contact

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Personal Profile

- **Name:** Dr. Hitarth B. Bhatt
 - **Birth Date:** 07/03/1990
 - **Sex:** Male
 - **Nationality:** Indian
 - **Marital Status:** Married
 - **Caste:** Prashnora Nagar Brahmin (Hindu)
 - **Occupation:** Assistant Professor, Department of Microbiology, Faculty of Science, Atmiya University, Rajkot, Gujarat, India
 - **Academic Qualifications:** M.Sc., M.Phil. and Ph.D. (Microbiology), ICAR-NET
 - **Research Interests:** Discovery of novel microbes; extremophiles and extremozymes and their applications; protein expression and purification; structure-function relationship of enzymes; microbial diversity and phylogeny
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Educational Qualifications

Degree	Year	University/Board	Subject	Result
Ph.D.	2020	Saurashtra University	Microbiology	Awarded
M.Phil.	2013	Saurashtra University	Microbiology	70%
M.Sc.	May 2012	Saurashtra University	Microbiology	70.58%
B.Sc.	Apr 2010	Saurashtra University	Microbiology	75.71% (Aggregate 70%)
H.S.C.E.	Mar 2007	GHSEB	Science	63.80%
S.S.C.E.	Mar 2005	GSEB	General	74.29%

Employment Details

- Assistant professor, **Charusat University, Anand** - 01 April 2026
- Assistant Professor, **Atmiya University, Rajkot** – 01 Jun 2020 to 31 March 2026

- Assistant Professor, **Shree M. & N. Virani Science College, Rajkot** – 06 Dec 2019 to 31 May 2020
 - **Post-Ph.D. Teaching & Research Experience:** 5 years 4 months
 - **Dissertation Students Guided:** M.Sc. – 5 | B.Sc. – 40 | Ph.D. – 3 ongoing
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Doctoral Research Work

Molecular diversity, protease gene profiling and cloning studies on haloalkaliphilic/haloalkalitolerant bacteria isolated from the Little Rann of Kutch, Gujarat.
Guide: Prof. Satya P. Singh, UGC BSR Faculty Fellow (Professor-Emeritus), Former Head, UGC-CAS Department of Biosciences, Saurashtra University, Rajkot.

National Awards and Fellowships

- CSIR Senior Research Fellowship (Direct), CSIR, Govt. of India (May 2018 – Nov 2020)
 - UGC BSR Meritorious Fellowship (SRF) (Nov 2016 – Apr 2018)
 - UGC BSR Meritorious Fellowship (JRF) (Nov 2014 – Nov 2016)
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Research in Other Institutes/Universities

- Conducted part of doctoral research on taxonomy and polyphasic characterization of bacteria for two months at **Bacterial Discovery Lab, Centre for Environment, JNTU Hyderabad** under Dr. Sasikala, and at **Department of Botany, Hyderabad Central University** under Dr. Venkata Ramana.
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National Eligibility Test

- Qualified ICAR NET 2018
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International Awards & Achievements

- International Travel Grant from DST-SERB, Govt. of India to participate in **13th International Congress on Extremophiles 2022, Greece** (18–22 Sept 2022).
- Research topic coordinator for special issue on “*Extremozymes: Characteristics, Structure, Protein Engineering and Applications*” in **Frontiers in Microbiology** (Jan 2022).

- Editorial Board Member, **Scientific Reports (Springer Nature)**.
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Reviewer – International Journals

- International Journal of Biological Macromolecules (Elsevier)
 - Frontiers in Microbiology
 - Microbiological Research (Elsevier)
 - Journal of Basic Microbiology (Wiley)
 - Process Biochemistry (Elsevier)
 - Vegetos (Springer)
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Research Papers

- Bhatt HB, Sani RK, Amoozegar MA, Singh SP. *Extremozymes: characteristics, structure, protein engineering and applications*. Frontiers in Microbiology. 2024.
 - Kikani BK, Patel RK, Thumar J, Bhatt HB, Rathore DS, Koladiya G, Singh SP. *Solvent tolerant enzymes in Extremophiles: Adaptations and Applications*. Int. J. Biol. Macromolecules. 2023.
 - Bhatt HB, Singh SP. *Diversity of Cultivable Bacteria in A Saline Desert of Little Rann of Kutch, India: A Phylogenetic Perspective*. Front. Mar. Sci. 2022.
 - Raval VH, Joshi RH, Bhatt HB, Singh SP. *Phenotypic characteristics, phylogenetic analysis and characterization of alkaline proteases of marine bacteria*. Biologia. 2022.
 - Bhatt HB, Singh SP. *Cloning, Expression and Structural Elucidation of a Biotechnologically Potential Alkaline Serine Protease from Bacillus lehensis JO-26*. Front. Microbiol. 2020.
 - Bhatt HB, Begum MA, Chintalapati S, Chintalapati VR, Singh SP. *Desertibacillus haloalkaliphilus gen. nov., sp. nov.* Int. J. Syst. Evol. Microbiol. 2017.
 - Bhatt HB, Gohel SD, Singh SP. *Phylogeny, novel bacterial lineage and enzymatic potential of haloalkaliphilic bacteria*. 3 Biotech. 2018.
 - Raval VH, Rawal CM, Pandey S, Bhatt HB, Dahima BR, Singh SP. *Cloning, heterologous expression and structural characterization of an alkaline serine protease*. Annals of Microbiology. 2015.
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Research/Review Papers in Pipeline

- Genome sequence of *Desertibacillus haloalkaliphilus* KJ1-10-99T
- *Microplastics Unveiled: Origins, Environmental Risks, and Biodegradation Solutions*
- *Structural Features of Extremozymes and Adaptations under the Extreme Conditions*
- Cost effective production, characterization and application of alkaline protease from *Virgibacillus salarius*

- Characterization and application of amylase from haloalkaliphilic *Bacillus Vallismortis* VS-5
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Book Chapters

- Yadav V, Bhatt HB, et al. *Production and demand of microbial oxidative enzymes worldwide*. Microbial Oxidative Enzymes: Biotechnological Applications. 2023.
 - Bhatt HB, Begum MA, et al. *Desertibacillus*. Bergey's Manual of Systematics of Archaea and Bacteria. 2022.
 - Bhatt HB, Baria D, Raval VH, Singh SP. *Multifunctional properties of polysaccharides produced by halophilic bacteria*. Microbial Syntrophy-Mediated Eco-enterprising. 2022.
 - Raval VH, Bhatt HB, Singh SP. *Adaptation strategies in halophilic bacteria*. Extremophiles: From Biology to Biotechnology. 2018.
 - Bhatt HB, Singh SP. *Phylogenetic and phenogram based diversity of haloalkaliphilic bacteria*. Microbial Biotechnology. 2017.
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Resource Person

- Resource person, GSBTM National workshop “Basic and Advanced Techniques in Protein Biology,” Atmiya University, 3–7 Oct 2023.
 - Expert lecture, GSBTM sponsored Crash Workshop at Christ college, 2023.
 - Expert lecture, GSBTM sponsored Crash Workshop at Atmiya University, 4–18 Dec 2023.
 - Expert lecture, GSBTM sponsored Crash Workshop at Christ college, 2024.
 - Expert lecture, GSBTM sponsored Crash Workshop at Atmiya University, 2024.
 - Resource person, International conference on Current Perspectives on Extremophiles and their Biomolecules,” supported and sponsored by DBT, ANRF and CSIR held in Bhopal from March 24-26, 2025.
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Representation in Universities/Institutions

- Board of Studies member, Shree M. & N. Virani Science College, Rajkot
- College coordinator, Career Acceleration Programme (CAP), Virani Science College
- College coordinator, Concept to Practice (C2P) Programme, Virani Science College
- Coordinator, Theatre Club, Atmiya University
- Member, Cultural Committee, Atmiya University
- External examiner of project viva/practical exams, B.Sc./M.Sc. Microbiology – RK University
- External examiner of project viva/practical exams, B.Tech Biotechnology – V.V.P Engineering College, Rajkot
- Member of examination panel – Bhavnagar University

- Member of examination panel – B.Sc. paper checking, IITE Gandhinagar
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Faculty Development Programs

- 7-day FDP on Proteomics and Protein Biology, GSBTM Govt. of Gujarat, IIT Gandhinagar, 9–16 Nov 2022.
 - FDP on Concept to Practice – nurturing creativity, innovation and entrepreneurial mindset, Atmiya University, 25–26 Jul 2022.
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Presentations / Workshops (National & International)

(All with awards as in original resume)

- Biochemical and structural characteristics of a recombinant alkaline protease – International conference, Christ College, Rajkot, 22–23 Jan 2022. **First Prize (Oral)**
 - National symposium on Biodiversity, Guru Ghasidas Central University, Bilaspur, 21–22 Feb 2022.
 - Gene profiling and structural features of alkaline proteases – National Conference, Saurashtra University, 10 Jan 2020. **First Prize (Poster)**
 - Polyphasic taxonomic approaches – Saurashtra University, 26 Feb 2019. **First Prize (Poster)**
 - Phylogeny and protease gene profiling – Science Excellence, Gujarat University, 20 Sept 2018. **First Prize (Oral)**
 - Phylogenetic diversity, Christ College, Rajkot, 11 Feb 2018. **First Prize (Oral)**
 - Spatial structure of bacterial community – NCBBU, Saurashtra University, 9–10 Mar 2017.
 - Phylogenetic diversity and numerical taxonomy – ITCPB-2016, Pune University, 9–10 Feb 2016. **Gold Medal (Poster)**
 - Impact of climate change on coastal ecosystem – CSIR-CSMCRI, 9–10 Jun 2016.
 - Polyphasic taxonomy of novel *Bacillus* species – JNTU Hyderabad, Jul–Aug 2016.
 - International workshop on Nomenclature of Archaea & Bacteria – MCC Pune, 9–10 Sept 2016.
 - Diversity of haloalkaliphilic bacteria – Bergey's International Society meeting, MCC-NCCS Pune, 12–15 Sept 2016.
 - National Short-Term Course on Metagenomics & Microbiomes – Saurashtra University, 20–25 Feb 2017.
 - Recent trends in Microbial Biotechnology – Osmania University, 26–28 Feb 2015. **Best Paper Award (Oral)**
 - Biodiversity and Bioresource Utilization – Saurashtra University, 17–18 Mar 2015.
 - Science Excellence – Gujarat University, 26 Sept 2015. (Oral)
 - Recent Advances in Biochemical Research – Saurashtra University, 14 Feb 2015. (Poster)
 - Restriction enzymes – UGC National Seminar, M. N. Virani College, 2011. (Poster)
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