

Curriculum Vitae

Dr. Bhumi Bhatt

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EDUCATIONAL QUALIFICATIONS:

- **Doctor of Philosophy** in the subject of **Microbiology** at **Sardar Patel University** entitled “**Studies on Bacterial Amylase from Natural isolate and its Application**”
- **Master of Science** in the subject of **Microbiology** from **Charotar University of Science and Technology** with **63.07% (6.5 CGPA)**
- **Bachelor of Science** in the subject of **Microbiology** from **Gujarat University** with **64.09%**

WORK EXPERIENCE:

- **Assistant Professor** at **P. D. Patel Institute of Applied Sciences, Charotar University of Science and Technology** (March 2022- May 2023)
- **As a Consultant, Xcelris labs ltd.** at **Department of Animal Biotechnology,** AnandAgricultural University (April 2014-October 2014)
- **Senior Research Fellow** at **Department of Animal Genetics and Breeding,** Anand Agricultural University (November 2013- March 2014)

SKILLS AND/OR EXPERTISE:

- DNA extraction from bacterial samples and/or animal blood samples
- DNA quantification
- PCR-RFLP & multiplex PCR
- Gene Cloning and expression
- Agarose gel electrophoresis
- Gene sequencing
- Parentage assessment (microsatellite profiling)
- Plasmid isolation
- Enzymology, Amylase Assay, Protease Assay
- Bio-informatics analysis (softwares used: MEGA, Clone manager, BioEdit) (online servers used: I-TASSER, RaptorX, Phyre², PROCHECK, ProtParamTool)
- Cytogenetics: Chromosome preparation & Karyotyping and analysis

PRESENTATIONS / ACHIEVEMENTS / TRAINING:

- **Industrial Training at MARCK BIOSCIENCES Ltd. in the Quality Control Department of Microbiology in 2011.**
- **Completed Dissertation Project entitled “Isolation and characterization of keratinase enzyme from keratinase producing bacteria.”**
- **Qualified ARS NET (I)-2016 conducted by AGRICULTURAL SCIENTISTS RECRUITMENT BOARD.**
- **Participated as Volunteer for International Conference on “Molecular Medicine (MOLMED-2011)” at P. D. Patel Institute of Applied Sciences (PDPIAS), Charotar University of Science and Technology, Changa.**
- **Worked as Resource person for short course on “Metagenomics - Role of Next Generation Sequencing and Bioinformatics” (March, 2014).**
- **Served as Volunteer at C. C. Patel Community Science Centre (CSC) run by Sardar Patel University, Vallabh Vidyanagar.**
- **Poster presentation at international conference on “NEW HORIZONS IN BIOTECHNOLOGY” (NHBT-2015) topic entitled “Screening and Optimization Study of Amylase Producing Bacteria for Amylase Production”**
- **Poster presentation at national conference on “CURRENT TRENDS IN BIOLOGICAL SCIENCES-II” (CTBS-2018) topic entitled “Cost Effective Amylase Production using Kitchen Waste as Substrate by *Bacillus Amyloliquefaciens* KCP2”**
- **Poster presentation at national conference on “CURRENT TRENDS IN BIOLOGICAL SCIENCES - V” (CTBS-2020) topic entitled “Selection of Economical Fermentation Process using Kitchen Waste as Substrate for Amylase Production by *Bacillus Amyloliquefaciens* KCP2”**
- **Attended ONE DAY workshop on “Nanopore Sequencing & Analysis (2017)” by Genotypic Technology Pvt. Ltd. at “ANAND AGRICULTURAL UNIVERSITY”.**
- **Attended TWO DAY workshop on “Proteomics Workflow - Sample Preparations to sequencing (2019)” at “GUJARAT UNIVERSITY” in association with BIO-RAD.”.**
- **Attended hands on training on “Document Processing Software LyX” (April, 2022).**
- **Attended online workshop on “Intellectual Property Rights (IPR) & Patents and Design filing” (July, 2022).**

PUBLICATIONS:

- **Bhatt B.M.,** Trivedi U.B., Patel K.C. (2020) Extremophilic Amylases: Microbial Production and Applications. In: Arora N., Mishra J., Mishra V. (eds) Microbial Enzymes: Roles and Applications in Industries. Microorganisms for Sustainability, vol 11. Springer, Singapore. https://doi.org/10.1007/978-981-15-1710-5_7
- **Bhatt B.M.,** Prajapati V.S., Patel K.C., Trivedi U. B. (2020) Kitchen waste for economical amylase production using *Bacillus amyloliquefaciens* KCP2. Biocatalysis and Agricultural Biotechnology, 26. <https://doi.org/10.1016/j.bcab.2020.101654>

PERSONAL DETAIL:

Date of Birth : 7th July, 1990
Marital Status : Married
Gender : Female
Nationality : Indian
Language Known : Gujarati, Hindi, English
