

Personal Details

- **Name:** Ms. Harsha Chandwani
- **Designation:** Scientific Officer
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Harsha Chandwani
Scientific Officer

Academic Qualifications

- **M. Sc. Biotechnology** - 77.54% - Krishna Institute of Medical Sciences Deemed University, Karad (2013)
- **B. Sc. Biotechnology** - 71.50% - Shivaji University, Kolhapur (2011)

Certifications

- R Basics
- Basic Python

Short term trainings

- Hands-on industrial training at Lupin Limited, Goa (2011)
- Primer designing at IIT Bombay (2019)

Total Experience

- Industry : 4 years
- Science Education : 3 years
- Academic labs & research administration : 4 years

Employment Experience

➤ **Dr. D. Y. Patil Biotechnology and Bioinformatics Institute,
Pune**

Scientific Officer
2021 – Present

- Leading and overseeing lab management - laboratory operations, ensuring optimal management of resources
- Coordinator for science communication and undergraduate & postgraduate dissertation programs
- Key member of Institute committees of Internal Quality Assurance Cell and Institution's Innovation Council
- Involved in Organizing conferences, workshops, seminars, regional meets, writing reviews, research papers, book chapters
- Internal member of a startup grant-funded project focused on the commercialization and development of a patented probiotic formulation, leveraging my industry expertise to drive scale-up processes
- Performed outcome analysis of internally funded research projects
- Contributed in background data generation for initiating the Aptitude Building Course at the Institute
- Contributed script writing and direction for a short scientific film that won a national award at the 12th National Science Film Festival of India
- Designed, developed, and published the institute's brochure for official distribution
- Member of Alumni & placement committee
- Member of Social media cell
- Former member of Committee for Monitoring Research Activities of the Institute (CMRAI)
- **Events organized/coordinated:**
- Coordinator for NAAC visit Research Exhibition 2022
- Coordinating team member for "Grant Writing and Funding Opportunities at India Alliance" workshop organized by DBT/Wellcome Trust India Alliance at DYPBBI on 3rd February 2023
- Rapporteur for Advanced Workshop on Gene Cloning Expression and Characterization (GCEC 2021)
- Organizing member for International Conference on Advances in Biotechnology and Bioinformatics (ICABB 2024)
- Organizing member for Startup Conclave 2022
- Organizing member for Biotechnology Innovation Day 2022
- Organizing member for IIC Regional Meet 2023
- Organizing member for Synergy Summit 2025

- **Publication (Accepted) –**

- Krishi Jain, **Harsha Chandwani**, Dev Patel, Dhanishta Attarde, Ankita Shinde, Roshani Pagar, Sanjeevani Deshkar, Neelu Nawani, Manisha Junnarkar (2025) Evaluation of cytotoxic potential of Lactic acid bacteria and its adhesion properties, for the 2025 IEEE 1st Global Conference on Cognitive Computing and Communication Technology (GC4T 25) 4th-5th April, 2025, Dr. D. Y. Patil School of Science & Technology, Tathawade, Pune.

- **Posters at Conference/ Summit –**

- Krishi Jain, Dev Patel, **Harsha Chandwani**, Dhanishta Attarde, Ankita Surve, Sanjeevani Deshkar, Neelu Nawani, Manisha Junnarkar (2024) Evaluation of the cytotoxic potential of Lactic Acid Bacteria and its adhesion properties, at the International Conference on Advances in Biotechnology and Bioinformatics, 26th – 29th Nov., 2024, Dr. D. Y. Patil Vidyapeeth, Pune.
- Poorva Salvi, Aboli Deshpande, Viniti Vaidya, **Harsha Chandawani**, Manisha Junnarkar, Neelu Nawani (2024) Exploring LAB-Derived Bacteriocins: Natural Antimicrobials for Food Preservation and Crop Protection, at the International Conference on Advances in Biotechnology and Bioinformatics, 26th – 29th Nov., 2024, Dr. D. Y. Patil Vidyapeeth, Pune.
- Poorva Salvi, Aboli Deshpande, Viniti Vaidya, **Harsha Chandawani**, Manisha Junnarkar, Neelu Nawani (2025) TIKLAB: One- Health Probiotics for Tomato, at the Synergy Summit 2025. 15th February 2025, Dr. D. Y. Patil Vidyapeeth, Pune in association with J4E Just for Entrepreneurs.

Employment Experience

➤ **Tata Institute of Fundamental Research – Homi Bhabha Centre of Science Education, Mumbai** *Project Scientific Officer B*
2017 – 2020

- Designed and executed experiments, trainer at national level for workshops conducted for professionals (teachers/ researchers) and students, coordinated collaborations across departments and institutes.
- Literature review, technical reporting, candidate interviews & selection, and equipment maintenance
- **Areas of Expertise** – Microbiology, Molecular biology, Biochemistry
- **Major projects** –
 - SNP Genotyping for bitter tasting genes
 - Isolation of Bioluminescent bacteria from squid ink
- **Workshops & trainings conducted** –
 - Indian National Biology Olympiads – 2017, 2018, 2019
 - National Initiative on Undergraduate Science (NIUS) – 2017, 2018, 2019
 - Teachers Exposure Camp 2017 – 2019
 - DBT Star college workshops 2018
 - Vigyanpratibha 2017, 2018
- **Conference participation**– epiSTEME conference, 2018

To date, regularly invited as a resource person to TIFR – HBCSE

➤ **Hi Tech Bioscience India Ltd., Pune** *Senior Officer – R&D*
2013 – 2017

- Probiotic product development, experiment execution, and product formulation studies.
- Data analysis, documentation, equipment validation, compliance with GDP/GLP
- Group lead for employee training at the R&D lab
- **Areas of Expertise** –
 - Probiotic culture handling
 - Fermentation optimization
 - Downstream processing
 - Formulation optimization
 - Stability studies
 - Pharmaceutical testing
 - Various assays for probiotic efficacy
- **Successfully developed 3 cultures from isolation to commercial production**