Curriculum Vitae

Name: Akhilesh Prajapati
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- https://orcid.org/0000-0003-1532-9514
- https://publons.com/researcher/2563018/akhilesh-prajapati
- https://www.researchgate.net/profile/Akhilesh_Prajapati
- https://www.linkedin.com/in/dr-akhilesh-prajapati-39b20a21/
- Scopus: https://www.scopus.com/authid/detail.uri?authorId=21739759300
- https://www.webofscience.com/wos/author/record/B-5729-2014
- https://vidwan.inflibnet.ac.in/profile/359102

Educational profile:

Degree	Name of the University	Passing Year	Course taken	Class Obtained
B.Sc. Biology	M.D.S. University, Ajmer, Rajasthan, India.	2004	Botany, Zoology, Chemistry	First
M.Sc. Biotechnology	M.D.S. University, Ajmer, Rajasthan, India.	2006	Biomolecules, Microbial diversity, Bio-techniques, Immunology, Enzymology, Food Microbiology, Animal & Plant Tissue culture, Food technology, Virology, Metabolism Environmental Biotechnology, Industrial Biotechnology, Bioinformatics & IPR	First
PhD	The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India	2015	Biochemistry	Best PhD thesis award in life sciences by The Gujarat Science Academy

Post Graduate Diploma in Biotechnology Law and Policy	Gujarat National Law University, Gandhinagar, Gujarat.	2023	• Introduction to Indian Legal System • The Science of Biotechnology • Biotechnology Regulatory Framework • Biotechnological Inventions and Intellectual Property Rights • Biotechnology & Human Rights • Biotechnology and environment • Biotechnology & International trade law • Dissertation	First

M.Sc. Dissertation Thesis (2006) Title: "Extraction of Biopolymer from Gram Negative Bacteria**"**
Supervisor: Prof. Monica Bhatnagar, Biotechnology Course Coordinator at "Arid Algae, Cynobacteria Biodiversity & Biofuel Centre (AACBBC)", Microbiology, Dept. M.D.S. University, Ajmer.

PhD Thesis (2015) Title: "To understand the etiopathogenesis of benign prostate hyperplasia at biochemical, cellular and molecular level.**"**
Supervisor: Prof. Sarita Gupta, Biochemistry Dept., M.S. University of Baroda.

Current Research Interests:

• **Signature Proteins and Stem Cell Markers in Cancer Progression:** Identification and characterization of novel protein signatures and stem cell–associated markers that drive tumor initiation, progression, and therapy resistance in prostate and breast cancers.

• **Neuroendocrine Plasticity in Cancer Stem Cells:** Investigating the role of neuroendocrine markers in the transformation of cancer stem cells, with a focus on their contribution to lineage plasticity, metastasis, and treatment evasion.

• **Circulating microRNAs and Computational Oncology:** Profiling circulating miRNAs in breast cancer patients and employing computational biology approaches to integrate multi-omics datasets for biomarker discovery, prognosis, and therapeutic stratification.

• **Metabolic Vulnerabilities in Endocrine Cancers:** Exploring energy metabolism, mitochondrial dynamics, and ferroptosis regulation in endocrine-related cancers to uncover novel metabolic vulnerabilities for targeted therapy.

Principal investigator of the following research projects

Year	Project title & granting agency	Amount in Rupees	Remarks
2021-2022	Characterization of breast cancer stem cells and exploring miRNAs as a therapeutic potential to induce breast cancer stem cell death. (GSBTM, DST, Govt. of Gujarat) (PI)	43 Lacs	Completed (2021-2024)
2024-2025	Targeting Mitochondrial OXPHOS and metabolic pathways for Combinatorial Therapies for Overcoming Androgen Resistance in Castration-Resistant Prostate Cancer. (GSBTM, DST, Govt. of Gujarat) (PI)	80 Lacs	On-going (2024-2027)

As a Mentor in the Student Startup and Innovation policy (SSIP 2.0) Projects at GSFCU

Year	Project title	Amount in Rupees	Remarks
2021-2022	Sugarcane bagasse bio fertilizer	120000/-	Approved
2022-2023	Super food spirulina based nutritious chocolate	87000/	Approved
2022-2025	Plant Based Meat	25000/-	Approved
2023-2025	Chewable toothpaste tablets	83000/-	Approved
2023-2024	Serum based Prostate cancer Biomarkers	500000/-	Approved
2024-2025	Neutriblend Pro supplement	60000/-	Approved

Other Administrative experiences

S. No.	Administrative Experiences	Year
1	Associate Dean- Research and Development Cell, GSFC University	2025
2.	Boys Hostel Warden GSFC University	2025
3.	UG and PG Programe coordinator, Dept. of Life Sciences, GSFC University	2017-19, 2023-2024
4.	Summer internship in-charge, MS University of Baroda	2015-2017
5	Visiting scientist in-charge, MS University of Baroda	2015-2017
6	University Health club Mentor, GSFC University	2018-2025

Pre & Post-Doctoral Work Experience:

Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology, New Delhi, India **May-June 2006**
Position: Summer Intern under Continuing Education Program.

- A project entitled "Biochemical Studies on Chondrocyte Cell Culture"

Prathista Industries Ltd. Secunderabad, Andhra Pradesh, India, Dec 2007- May 2008
Position: Biotech Industrial Trainee (DBT-Biotech Consortium India Ltd, Govt. of India, New Delhi)

- A project entitled "Production of Colorless Lactic Acid from Calcium Lactate"
- Training in all industrial departments.

Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, M.S. University of Baroda, Vadodara, Gujarat, India. **July 2013- March 2014**
Position: Technical Assistant (Central Instrumentation facility)

- Handled Genomics and Proteomics facility, Experimentation and troubleshooting.

Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, M.S. University of Baroda, Vadodara, Gujarat, India. **April 2014- May 2017**
Position: *Adhoc* Assistant Professor (Cell & Molecular Biology Institute)

- Subjects taught at UG & PG level: Cell Biology, Metabolism, Biomolecules, Animal tissue Culture, Molecular Diagnostics & Stem Cell Research.
- Student Counselor and In-charge of the visiting scientists program
- In-charge of summer internship program for Cell & Molecular Biology students.
- Supervised Masters' Dissertations

Department of Life Sciences, Biotechnology Division, School of Science, GSFC University, Vadodara, Gujarat, India.
July 2017- at Present
Position: Associate Professor (Biotechnology) regular position

- Subjects teaching at UG/ PG/ PhD level: Biochemistry, Cell Biology, Metabolism, Biomolecules, Industrial Microbiology, Animal Tissue Culture, stem cell research, IPR, Mammalian Physiology, Bioanalytical tools & Molecular diagnostics.
- Involve in students' club activities (Adventure & Health)
- Start-up mentor and coordinator
- PhD supervisor
- Program coordinator (2017-2019, 2022-2023)
- Board of studies, Biological sciences Member
- Board of Research Studies Member
- Student counseling
- Associate Dean Research & Development cell (2025)

Scientific Skills Learnt to Carry out Research Work:

- Mammalian & Bacterial Cell Culture and Research Animal (Rat and Mice) Handling.
- Molecular Biology techniques: qPCR, Thermal cycler PCR, Electrophoresis, 2D-Gel Electrophoresis, ChIP, Nucleic Acid isolation, Immunoassays and karyotyping, CRISPR.
- Confocal Microscopy, Flow Cytometry. HPLC, LCMSMS
- Microbiological assays.
- Scientific Software skills: PRISM, BLAST, PROSITE, ImageJ, flowjo, LSM.
- varied computational biology tools like: RNAfold, Cytoscape, string tool etc.
- 3D bioprinting and organoid studies.

Selected Conferences & Workshops Attended and organized

- Participated in workshop on ***Communicating Science for Policy*****, organized by the National Science Policy Network and George Mason University —** 30 July 2025**.**
- Conducted The **GSBTM sponsored UG-BT-CBC-workshop for Undergraduate students as a deputy-coordinator** from 10th to 31st January, 2025, at School of Science, GSFC University, Vadodara. (Received 8 Lakh fund)
- **Actively Participated as convener in** organizing a one-day national symposium on Indian knowledge systems **with a focus on traditional knowledge from Gujarat** on 6th September 2024, at GSFC University, Vadodara.
- Conducted The **GSBTM sponsored UG-BT-CBC-workshop for Undergraduate students as a deputy-coordinator** from 8 to 25th January, 2024, at School of Science, GSFC University, Vadodara. (Received 5.26 Lakh fund)
- Attended and presented paper: "A study of Candidate gene expression identifies putative markers for prostate cancer progression" at YIM regional conference at University of Kashmir, Srinagar September 2023. (awarded second prize)
- Attended a workshop on omics organized by **Global Cancer Consortium and University of Kentucky, USA. April-May 2023.**
- As a convener Organized an International Hands-On Workshop on "**Postnatal Stem Cells & Their Applications in Regenerative Medicine** on 9-11 Feb, 2023, sponsored by the Gujarat State Biotechnology Mission, Govt. of Gujarat at GSFC University. (Received 1.2 Lakh fund)
- Presented paper: Abstract entitled "**Cancer stem cells specific MicroRNA assisted gene regulation in breast Cancer"** published in the 14th Young Investigator meeting from 4-6 June 2022. Organized by IndiaBioscience and DBT, Govt. of India.
- Attended a national symposium on "**trendys in Biochemistry"** from 25th January to 26th January 2020 organized by Department of Biochemistry, The M.S. University of Baroda, Vadodara.
- Attended an international conference on "**Proteins, miRNA and Exosomes in Health and Disease"** from 11th December 2018 to 13th December 2018 organized by Department of Biochemistry, The M.S. University of Baroda, Vadodara.

- Actively Participated in Workshop on **"The STEM Teacher Training workshop on Research- Based Pedagogical Tools (Level 1)"** jointly sponsored by Department of Biotechnology (DBT), Govt. of India; Newton Bhabha fund of the British Council, Centre of Excellence in Science & Mathematics Education, IISER Pune supported by MHRD. From 26th Feb to 1st March, 2017 at IISER, Pune.

- Oral presentation on **"To understand the etiopathogenesis of BPH at Cellular and molecular level"** at A two days Researchers ferret Confabulation: 4th Annual meeting on 11th-12th April, 2015 at IIT-Gandhinagar, Gujarat, India

- **Actively participated in** the four days' stem cell workshop on **"advanced techniques in stem cell research"** from 31st Dec, 2014 to 3rd Jan, 2015 at Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, The M.S. University of Baroda.

- Oral presentation on **"BPH stem cells and Epithelial-to-Mesenchymal Transition-phenotypic cells: Are they siblings?" at** A National Seminar entitled "Evolving Concepts in Stem Cells and Regenerative Medicine" on 27th Feb, 2014 at GCRI, Ahmadabad, Gujarat, India **(Best Oral Presentation Award)**

- Poster presentation on **"Human Prostate Cell Population Derived From Benign Hyperplasia Specimen Demonstrate Pluripotent Stem Cells Properties at** 11th annual meeting, ISSCR, Boston, MA, USA. 12-15th June, 2013**.(International Travel Award By DBT Govt. of India)**
- Poster presentation on **"To Assess the Possible Role of Cadmium in BPH Pathogenesis via Steroid Hormone Receptor Blocker",** in International conference on Reproductive Health with emphasis on strategies for family planning & 22nd annual meeting of the Indian society for the study of reproduction and fertility (ISSRF) "ICMR Centenary celebration 1911-2011, organized by AIIMS, at New Delhi from 19 – 21st Feb, 2012.
- Poster presentation on **Identification of novel Population of Nestin positive cells from rat Prostate for insulin Producing cell differentiation.** Nidheesh Dadheech, Akhilesh Kumar Prajapati, Sanket Soni and Sarita Gupta. Abstract book, 9th annual meeting, ISSCR, Toranto, Canada 2011. (abstract Published)
- Poster presentation on **"Cadmium: a Potent Benign Prostate hyperplasia inducer in rat ",** in International conference on MOLECULAR MEDICINE, organized by Charotar University of Science and Technology, Changa, Gujarat. Jan-2011
- Poster presentation on **"Association of Benign Prostate Hyperplasia with Respect to environmental Pollutant Cadmium", i**n the SRBCE Sponsored 'international symposium on endocrinology and Reproduction: molecular Mechanisms to Molecular Medicine' Organized by Jawahar Lal Nehru University, New Delhi. Feb-2010.

Invited lectures as a guest speaker:

1. Delivered an invited lecture at “Intense crash workshop for cracking IIT-JAM, JNU-CEEB entrance exams of phase II” on 17th January 2019 sponsored by the Gujarat State Biotechnology Mission, Govt. of Gujarat at Uka Tarsadia University, Bardoli.

2. Delivered an invited lecture at “Intense crash workshop for cracking IIT-JAM, JNU-CEEB entrance exams on 10th January 2020 sponsored by the Gujarat State Biotechnology Mission, Govt. of Gujarat at Uka Tarsadia University, Bardoli.

3. Delivered an invited lecture at “GujBT e-Lecture Series: New Initiative" by Gujarat State Biotechnology Mission on 1st August 2021.

4. Delivered an invited lecture at “Intense crash workshop for cracking IIT-JAM, JNU-CEEB entrance exams on 27th December 2022 sponsored by the Gujarat State Biotechnology Mission, Govt. of Gujarat at Uka Tarsadia University, Bardoli.

5. Delivered an invited lecture at the International Hands-On Workshop on “Postnatal Stem Cells & Their Applications in Regenerative Medicine on 9-11 Feb, 2023, sponsored by the Gujarat State Biotechnology Mission, Govt. of Gujarat at GSFC University.

6. Delivered a lecture at a symposium on Mouse genome edition by CRISPR-Cas9 on 1st march 2024 at GSFC University.

7. Delivered an invited lecture at “Intense crash workshop for cracking national level entrance exams in biological sciences on 25th January 2025 sponsored by the Gujarat State Biotechnology Mission, Govt. of Gujarat at Atmiya University, Rajkot.

8. Invited as a resource person and delivered a lecture on Molecular Diagnostics and Cell culture techniques at GSBTM Sponsored Crash Course ’25 in Life sciences on 6th July 2025 at the M.S. University of Baroda, Vadodara.

Achievements & Awards:

- Received appreciation from Mission Director, GSBTM, Govt. of Gujarat for setting up biotechnology network in the state under UG-BT-CBC- program for Undergraduate students as a deputy-coordinator, July 2024. (Third position)
- Received second prize in oral presentation at YIM Regional conference, University of Kashmir, Srinagar, September 2023.
- DBT-CTEP International Travel Grant to present work at International Society for Stem Cell Research (ISSCR) 11th annual meeting, Boston, MA, USA from 12-15 June, 2013.

- Best Oral Presentation award on “BPH stem cells and Epithelial-to-Mesenchymal Transition- phenotype cells: Are they siblings?” in A National Seminar entitled “Evolving

Concepts in Stem Cells and Regenerative Medicine" on 27th Feb, 2014 at GCRI, Ahmadabad, Gujarat, India.

- ❖ Best PhD Thesis Award in Gujarat State by Gujarat Science Academy, Feb, 2015
- ❖ Indian National Science Academy (INSA) visiting scientist fellowship award, 2021-22.
- ❖ Certificate of excellence in outstanding reviewing, Journal of Pharmaceutical Research International.2022 and 2023 (twice)
- ❖ Certificate of Appreciation by student start-up and innovation policy and Gujarat knowledge society, Education department, Govt. of Gujarat for students' mentorship in Hackathon-2022
- ❖ Outstanding research contribution award 2024-25 on September 12, 2024 of GSFC University.
- ❖ Honored with the Humanitarian Award during the Centenary Celebration of the Indian Red Cross Society, Vadodara Branch, on 9th May 2025.

Peer Reviewed Research Publications:

https://scholar.google.dk/citations?user=kJ35XFIAAAAJ&hl=en **(citation link)**

1. Prajapati A, *et al.* 2013. **Prostate Stem Cells in the Development of Benign Prostate Hyperplasia and Prostate Cancer: Emerging Role and Concepts**. *BioMed Research International* **2013**: 10. http://dx.doi.org/10.1155/2013/107954 PMID: 23936768

2. Pandya C, *et al* 2013. **Association of Cadmium and Lead with Antioxidant Status and Incidence of Benign Prostatic Hyperplasia in Patients of Western India.** *Biol Trace Elem Res* **2013**. 152:316–326 DOI 10.1007/s12011-013-9630-y

3. Dave, K. et al. Cluster Analysis of Breast Cancer Microarray Data. Nature Precedings (Nat Preced) (2010). https://doi.org/10.1038/npre.2010.4936.1 PMID: 23479318

4. Prajapati A**,** *et al.* **2014a**. **Pluripotent Stem Cell within the Prostate could be Responsible for Benign Prostate Hyperplasia in Human.** *J Stem Cell Res Ther* **4**: 2 http://dx.doi.org/10.4172/2157-7633.1000164

5. Prajapati A, *et al* **2014b**. **A single low dose of cadmium exposure induces benign prostate hyperplasia like condition in rats: A novel benign prostate hyperplasia rodent model**. *Exp Biol Med (Maywood)*. 2014 May 28;239 (7): 829-841. DOI: 10.1177/1535370214536118 PMID: 24872436

6. Pulipaka R, *et al* 2014. **Cu (II) Complexes of Isoniazid Schiff Bases: DNA/BSA Binding and Cytotoxicity Studies on A549 Cell Line** *Advances in Chemistry.* Vol. 2014 **(2014)**, Article ID 630575, 14 pages http://dx.doi.org/10.1155/2014/630575

7. Komal Vyas, *et al 2015*. **Pyrazolone incorporating bipyridylmetallointercalators as effective DNA, Protein and lung cancer targets: Synthesis, characterization and in-vitrobiocidal evaluation.** *Chemico-Biological Interactions (2015)* 240, 250-266. http://dx.doi.org/10.1016/j.cbi.2015.08.022 PMID: 26341650

8. Akhilesh Prajapati, *et al* 2016**Analysis of AR, PSA (KLK) and ER-β genetic variants and Benign Prostate Hyperplasia (BPH) pathogenesis in Indian Population**. *Biomed Res J 2016;3 (1): 88–103* DOI: 10.4103/2349-3666.240607

9. **Prajapati A**, *et. al.*, 2020 **Oncogenic transformation of human benign prostate hyperplasia with chronic cadmium exposure.** Journal of trace element in medicine and research 62 (2020) 126633. **(first and corresponding authorship)** https://doi.org/10.1016/j.jtemb.2020.126633 PMID: 32818862

10. **Akhilesh Prajapati,** Priyanka Shivnani, Saroj Shekhawat**. "Cancer Cachexia and Breast Cancer Stem Cell Signalling – A Crosstalk of signalling Molecules" (2023)** *Cellular Signalling,* 110, 110847. https://doi.org/10.1016/j.cellsig.2023.110847 (first and Corresponding author) PMID: 37557973.

11. Sejal S. Shah**,** Nihar Purohit, Bhavika P. Turakhia and Khushal M. Kapadiya, **Akhilesh Prajapati**. "Facile Synthesis of Turmeric rhizome (Curcuma amada) Iron Nanoparticles and its Cytotoxic, Antioxidative and Bactericidal Behaviour" *Iranian Biomedical Journal* **2024 May 1;28(2&3):71-81. doi:** https://doi.org/10.61186/ibj.4061 PMID: 38770844.

12. Yashvi Patel, Payal Thapa, **Akhilesh Prajapati**. New Insights into Prostate Cancer from the Renin-Angiotensin-Aldosterone System. *Cell Signal.* 2024 Oct 4;124:111442. https://doi.org/10.1016/j.cellsig.2024.111442

13. Yashvi Patel, Payal Thapa, **Akhilesh Prajapati.** Unveiling LGR5: Prostate Cancer's Hidden Stem Cell and Treatment Target. Urologic Oncology: *Seminars and Original Investigations*,2024,ISSN 1078-1439, https://doi.org/10.1016/j.urolonc.2024.10.001

14. Vaishnani, M., **Prajapati, A**., Bijani, S., Shah, S., Kamal, M., Alsaweed, M., Iqbal, D. "Design, Synthesis, Computational Studies, and Evaluation of Triazole Acetamide Linked with Phenyl Piperazine Derivatives as Anticancer Agents Against Breast Cancer. *Polycyclic Aromatic Compounds*,1–25 (2025). https://doi.org/10.1080/10406638.2025.2463385

15. Tanha Rana, Akhilesh Prajapati. Unleashing the Potential of Ferroptosis, Autophagy and Mitochondria Dynamics as Emerging Modalities in Cancer Treatment. World J Clin Oncol. Jul 24, 2025; 16(7): 107788 https://doi.org/10.5306/wjco.v16.i7.107788

16. Jaimina Gharia, Shriya Pimplaskar and Akhilesh Prajapati. Revolutionizing Cancer Care: Bioprinting Prostate Cancer Stem Cells for Targeted Treatments, World J Clin Oncol 2025 July 24; 16(7): 107007. https://doi.org/10.5306/wjco.v16.i7.107007

Book Chapters:

1. Prajapati A, **"Hematopoiesis and Cancer stem cells: the seed and soil crosstalk"** Book on Hematopoiesis" by AAP/CRC Press, USA, 2023-24 **(single author) ISBN hard: 978-1-77491-472-4. ISBN ebook: 9781003413059**
   https://www.appleacademicpress.com/hematopoiesis-biochemical-cellular-molecular-and-genomic-perspectives-/9781774914724
2. Akhilesh Prajapati*, Sindhura Gudipati, Saroj Shekhwat, "Innovations in Cancer Diagnosis: From Biomarkers to Imaging Techniques" book on, "Pathways to Healing: Advancement in Cancer Therapy," published by Nova Science, USA (2025). https://doi.org/10.52305/JKMU3682
3. Yash Sharma, Akhilesh Prajapati*.AI and Machine learning in Bio-Innovation. Book on " Translational Research in Applied Science: Microbiology, Biotechnology, and Bio-Innovation", Cambridge Scholars Publishing House. (August 2025). https://www.cambridgescholars.com/product/978-1-0364-5452-4

4. Shivani Bhave, Smriti Das, Akhilesh Prajapati. Deciphering the Role of Environmental Exposures in Androgen-Resistant Prostate Cancer an Insights from Multi-Omics and Toxicogenomics: Insights from Exposomics, Toxicogenomics, and Integrative Multi-Omics Approaches. Book on Environmental Factors in Carcinogenesis: Exposome-Driven Insights into Cancer Risk and Prevention. IGI Global Scientific Publishing, 2026. https://doi.org/10.4018/979-8-3373-5796-6 ISBN13: 9798337357966|ISBN13 Softcover: 9798337357973|EISBN13: 9798337357980

Served as a Reviewer in the journals:

1. Cell Biology International, Wiley-published journal.
2. Uttar Pradesh Journal of Zoology, MB International Media and Publishing House
3. Journal of Pharmaceutical Research International.
4. Journal of Interferon and Cytokine Research
5. Cytokine Journal, Elsevier Pub.
6. Asian Journal of Case Reports in Surgery
7. Scientific reports, Nature publishing
8. Cellular Signaling, Elsevier Pub

Editorial Board membership:

1. Advanced Chemicobiology Research (ACBR) Universal Wiser Publisher Pte. Ltd, Singapore.

https://ojs.wiserpub.com/index.php/ACBR/about/editorialTeam

2. The Journal of Visualized Experiments (Guest Editor for special issue: Advances in Stem Cell Engineering and Differentiation: State-of-the-Art Methods and Emerging Research)
https://app.jove.com/methods-collections/3612/advances-in-stem-cell-engineering-and-differentiation-state-of-the-art-methods-and-emerging-research-

3 Journal of Biosciences and Bioengineering
https://directivepublications.org/journal-of-biosciences-and-bioengineering/editorial-board

4. Academic Board Member of ETERNO PRESS, SINGAPORE 2025

5. Official Peer Reviewers of the World Journal of Clinical Oncology, **Baishideng Publishing Group Inc**

Faculty Development Programme attended:

1. Attended one-week Faculty Development Programme from **25-06-18 to 30-06-2018** at Knowledge Consortium of Gujarat, Ahmedabad. Sponsored by the Department of Education, Govt. of Gujarat. India.

2. Attended Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS: 2.0" from **May 18 - June 03, 2020**. Conducted by Teaching Learning Centre, Ramanujan College University of Delhi. Sponsored by the Ministry of HRD, Govt. of India, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching.

3. Attended One Week Faculty Development Programme on "Open Source Tools for Research" from **June 08 - June 14, 2020**. Conducted by Teaching Learning Centre, Ramanujan College University of Delhi. Sponsored by the Ministry of HRD, Govt. of India, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching.

4. Attended Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS: 3.0" **from July 25 - August 10, 2020**. Conducted by Teaching Learning Centre, Ramanujan College University of Delhi. Sponsored by the Ministry of HRD, Govt. of India, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching.

5. Attended five days Faculty Development Programme from **15-03-21 to 19-05-20121** on “Effective Teaching and Learning Practices in Computational Biology” organized by Department of Biotechnology, NIT, Warangal Sponsored by the Ministry of HRD, Govt. of India, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching.

6. Attended five days Faculty Development Programme from **05-02-2024 to 9-02-2024** on “CRISPR Genome Editing: Generating Mouse Models for Human Therapeutics” held at Mouse Genome Engineering facility, organized by Institute for Stem Cell and Regenerative Medicine and NCBS, Bangalore, India and supported by the Gujarat State Biotechnology Mission, Govt. of Gujarat.

7. Attended five days Faculty Development Programme from **09-09-2024 to 13-09-2024 at** Sun Pharmaceutical industries. Vadodara.
8. Attended five days Faculty Development Programme from **18-11-2024 to 22-11-2024** on 3D Bioprinting Technology & Its Versatile Applications at cellink-iisc, Centre of Excellence for 3D bioprinting, IISc Bengaluru, India and supported by the Gujarat State Biotechnology Mission, Govt. of Gujarat.
9. Attended five-day bootcamp on Micro-physiological systems (MPS) from **03-03-2025 to 07-03-2025** at NIPER Ahmedabad in collaboration with Centre for Predictive Human Model Systems (CPHMS), atal incubation centre & centre for cellular and molecular biology (ccmb)-Hyderabad.

Language proficiency:

- English (S.R.W), Hindi (S.R.W), Gujarati (S.R.), Sanskrit (R.)

Scientific Committee Memberships:

- International Society for Stem Cell Research (ISSCR), USA
- Vigyan Gurjari (Vigyan Bharti: Baroda Chapter)
- The Society of Biological Chemists (INDIA).

Guided students for research work

Particulars	**Number of students**
PhD guided	4 student ongoing
M.Sc. Dissertation guided	50 students completed
Start-up project mentorship	10 students in four ongoing projects

References:

Prof. Sarita Gupta (Retired) **(**Ph.D. Guide)

Professor emeritus at Cell & Mol. Biology Institute & Dept. of Biochemistry, Faculty of Science, The M.S. University of Baroda, Vadodara–02, Gujarat, India.
E-mail: saritagupta9@gmail.com

Prof. L.S. Shashidhara (Mentor)

Director, National Centre for Biological Sciences, Bengaluru, India,

India E**-mail:**lsshashidhara@ncbs.res.in; lsshashidhara@gmail.com

Prof. Rajesh Singh (Research Collaborator**)**

Professor & HoD, Department of Molecular and Human Genetics, Banaras Hindu University [BHU], Varanasi-221005, U.P., India. Email: singhraj1975@gmail.com