

Prof. (Dr.) LALJI BALDANIYA

M. Pharm. (Pharmaceutics), PhD (Pharmaceutical Sciences)
Professor and Principal,
Faculty of Pharmacy, Marwadi University, Rajkot, 360 003, Gujarat, India.
+91-9979961431 **rxlaljipharma@gmail.com** **www.marwadiuniversity.ac.in**

Scopus ID: 55485600100 **ORCID:** https://orcid.org/0000-0001-6558-8421
Google Scholar: http://scholar.google.co.in/citations?user=ZJ8D2AEAAAAJ&hl=en
Vidwan ID: https://vidwan.inflibnet.ac.in/profile/216563
Research Gate: https://www.researchgate.net/profile/Lalji-Baldaniya?ev=hdr_xprf
LinkedIn: linkedin.com/in/dr-lalji-baldaniya

Research area of interest

Pursuing a career in Artificial Intelligence (**AI**) integrated formulation development, In-Silico study, Novel Drug Delivery Systems (**NDDS**), 3D Printed Drug Delivery systems, Quality by Design approach, Novel dissolution apparatus designing, and **PBPK** study.

Professional experience

Teaching experience at UG and PG level: **18 Yr 11 Mn**
PG Projects Guided: **30** + 02 (Ongoing)
PhD Projects Guided: **01** + 02 (Ongoing) + 01 Thesis under review.

Educational Qualification

Qualification	Branch/ Specialization	College/ University	Passing year	Percentage
PhD	Pharmaceutical Sciences	Jawaharlal Nehru Technological University (JNTUH), Hyderabad	June 2017	Awarded
M. Pharmacy	Pharmaceutics & Pharmaceutical Technology	L. M. College of Pharmacy, Ahmedabad/ Gujarat University, Ahmedabad, Gujarat	August 2007	70.08 %
B. Pharmacy	Pharmacy	L. M. College of Pharmacy, Ahmedabad/ Gujarat University, Ahmedabad, Gujarat	May 2005	71.57 %
H. S. C.	Science	Gujarat Secondary Education Board, Gandhinagar, Gujarat	May 2001	81.38 %
S. S. C.	Science	Maharashtra State Board of Secondary Education, Pune, Maharashtra	March 1999	71.60 %

Additional Educational Qualifications

1. General Course on **Intellectual Property Rights**, 2007, World Intellectual Property Organization (WIPO), conducted by WIPO Worldwide Academy, Geneva, Switzerland. (Distance learning certificate course).
2. **GATE 2005**, Qualified with a Score in the **96.44** percentile, All India Rank: **408** out of 11698.
3. Official advisor-cum-trainer: **Mendeley** reference management tool.

Research project held at the M. Pharmacy level

Research title: Sustained-release floating microspheres of Carbamazepine: Formulation, characterization, optimization, and in vitro evaluation.
Research Guide: **Dr. Mukesh C. Gohel** – Former Principal, L. M. College of Pharmacy, Ahmedabad, Gujarat, India.

Research project held at the PhD (Pharmaceutical Sciences) level

Research title: Designing an in-vitro release apparatus for a floating drug delivery system and its performance evaluation.
PhD awarded from Jawaharlal Nehru Technological University (**JNTUH**), Hyderabad.
Research Guide: **Dr. S. Saisivam** - Principal, NR Vekaria Institute of Pharmacy, Junagadh, Gujarat, India.

Professional Experience

Name & Address of Employer	Designation	Period of Service	Total Service
Faculty of Pharmacy, Marwadi University Rajkot, 360 003, Gujarat, India. Phone: 0281-7123456	Professor and Principal	01-05-2019 to Till present	07 Yr 02 Mn
Faculty of Pharmacy, Marwadi University Rajkot, 360 003, Gujarat, India. Phone: 0281-7123456	Associate Professor	10-05-2018 to 30-04-2019	01 Yr 00 Mn
Anand Pharmacy College Opp. Town Hall, Anand, 388001, Gujarat, India. Phone: 02692-250020	Assistant Professor	31-07-2012 to 09-05-2018	05 Yr 09 Mn
School of Pharmacy, RK University Rajkot-Bhavnagar Highway, Rajkot, Gujarat, India. Phone: 09909952030	Assistant Professor	01-08-2011 to 30-07-2012	01 Yr 00 Mn
N. R. Vekaria Institute of Pharmacy CL College Campus, Junagadh, 362001, Gujarat, India. Phone: 0285-2622358	Lecturer	25-08-2007 to 31-07-2011	04 Ys 00 Mn

Awards and Recognitions Received

1. **Research Award** under the Research-Aid Award Scheme of the Knowledge Consortium of Gujarat, Department of Education, Government of Gujarat. A research award of INR 60,000 was received for two research publications in internationally Scopus-indexed journals. The award was conferred on 18 October 2025.
2. **Young Pharmacy Teacher Award** received during the National Level Pharmacist Awards 2017 ceremony hosted by the Indian Pharmaceutical Association (IPA) Anantapuramu Local Branch, instituted by Raghavendra Institute of Pharmaceutical Education and Research (RIPER), Andhra Pradesh, India, on December 16, 2017.
3. **Pedagogical Innovation Award** bagged at the 6th GTU Innovation Sankul Day Celebration, on February 14, 2017, held at Paryavaran Mandir, Naroda Enviro Projects Ltd., Ahmedabad, Gujarat, India. This award is instituted by the Gujarat Technological University (GTU) Innovation Council (GIC).
4. **ACG – SciTech Innovation 2016** award from IPA (Indian Pharmaceutical Association), for innovative research in Solid dosage form development. The award carries a memento and a cash prize of INR 50,000. Title of innovation: Novel use of emulsion form of a binder for improving the quality and performance characteristics of the finished dosage form.

Professional Software Skills

Handling skills of almost all the software used in the pharmacy field, like **Design Expert**, DD Solver, **PK Solver**, DDD Plus, **Kinetica**, Kinet DS, **Minitab**, Sigma Plot, **PKPM**, SPSS, **Statistica**, Graph Pad, **Graph Prism**, EndNote, **Mendeley**, Origin Pro, **PK Sim**, R-IVIVC, **SmartDraw**, XL Stat, **Virtual Lab**, and Animation tools.

Soft Skills

Communication Skills, Team Collaboration, Problem-Solving Ability, Adaptability & Learning Agility, Time Management, Attention to Detail, Stakeholder Management, Critical Thinking.

Research Grant Fetched (Total research grant fetched: **INR 48,00,000**)

1. **Gujarat Knowledge Society** (GKS) Student Startup and Innovation Policy (SSIP 2.0), Gandhinagar, approved a grant for research project funding support, dated June 24, 2025. Amount: INR 40,00,000. Duration: June 2025 to April 2027. Role: Research Executive, Marwadi University.

2. **NewGen IEDC**, Ahmedabad, approved a grant for the research project, MU/NewGen/2020/2, dated July 17, 2020. Title: Topical spray for fast relief from menstrual pain. Amount: INR 2,50,000. Duration: July 2020 to June 2021. Role: Principal Investigator.
3. **BIRAC-SRISTI** appreciation on grassroots innovations of SRISTI, Dated: April 03, 2017. Title: Formulation and evaluation of foot care herbal cream for the treatment of foot cracks. Amount: INR 1,00,000. Duration: April 2017 to March 2018. Role: Principal Investigator.
4. **GUJCOST**, Gandhinagar, approved research grant for Minor Research Project (MRP), GUJCOST/ MRP/ 2014-15/ 2550, dated March 30, 2015. Title: Design and evaluation of a novel miniature implantable mechanical infusion pump for use in laboratory animals. Amount: INR 4,50,000. Duration: October 2015 to September 2017. Role: Principal Investigator.

Patents and invention disclosures

1. Title of the invention: **Spirulina Effervescent Tablet**. Inventors: Rathod Ruchita, Viralkumar Mandaliya, Arun Soni, Gaurav Sanghvi, Lalji Baldaniya. Application Number: 202321051158 A, Date of filing: 2024-08-02.
2. Title of the invention: **Dual-Chamber Prefilled Syringe**. Inventors: Baldaniya Lalji H., Kanzariya Vishal. Application Number: 384960-001, Date of filing: 2023-04-26.
3. Title of the invention: **An Immediate-Release Tablet Composition of Telmisartan**. Inventors: Panchal Sumati A., Thakkar Vaishali T., Gandhi Tejal R., Baldaniya Lalji H. Application Number: 202021034082, Date of filing: 2020-08-08.
4. Title of the invention: **A Novel Pelletization Process**. Inventors: Gohel MC, Gandhi TR, Thakkar VT, Baldaniya LH, Rana HB, Dholakia MS, Omri Abdelwahab. Application Number: 201821007502, Date of filing: 2018-02-28.
5. Title of the invention: **A Novel Drug Delivery Device for Pulmonary Administration of Drugs in Animals**. Inventors: Gohel MC, Gandhi TR, Thakkar VT, Baldaniya LH, Shah PA, Trivedi RN. Application Number: 201821002898, Date of filing: 2018-01-24.
6. Title of the invention: **Child-Resistant Packaging for Pharmaceutical Solid Dosage Forms**. Inventors: Gohel MC, Gandhi TR, Thakkar VT, Baldaniya LH, Shah VH, Maniar MR. Application Number: 201721038327, Date of filing: 2017-10-28.
7. Title of the invention: **A Novel Co-Processed Excipient for Release Retardation**. Inventors: Gohel MC, Gandhi TR, Thakkar VT, Baldaniya LH, Patel MA. Application Number: 201621017570, Date of filing: 2016-05-21, Date of Grant: 2022-07-22, Patent No.: 401887.

Paper publication in a national and international Journal

1. Development and validation of absorption ratio UV spectrophotometric technique for Dicyclomine Hydrochloride and Mefenamic Acid evaluated using green tools. RASAYAN Journal of Chemistry (**2026**).
2. Formulation and evaluation of sunscreen cream using 7-Dehydrocholesterol as a precursor of vitamin D. Ars Pharmaceutica (**2025**).
3. Anticancer potential of 1,2,3-triazole-tethered isonicotinate hybrids: Synthesis, in silico studies, in vitro studies and MD simulation. Journal of Molecular Structure – Elsevier (**2025**).
4. The green analytical chemistry approach coupled with data-driven RP-HPLC method development for simultaneous estimation of Azelnidipine and Chlorthalidone in pharmaceutical tablet dosage form. Analytical Chemistry Letters – Taylor & Francis (**2025**).
5. Facile synthesis of 6-substituted tryptanthrin derivatives as promising anticancer agents: In vitro, ADMET prediction, and molecular docking studies. Journal of Molecular Structure – Elsevier (**2025**).
6. Synthesis and evaluation of Tryptanthrin derivatives as promising anticancer agents: In vitro, in silico, and SAR insights. Journal of Molecular Structure – Elsevier (**2024**).

7. Biological importance and synthesis of 1,2,3-Triazole derivatives: A review. Green Chemistry Letters and Reviews – Taylor & Francis (**2024**).
8. Phytochemical analysis, in vitro free radical scavenging, and LDL protective effects of different solvent fractions of Calotropis Procera (R.) Br. Root bark extract. Journal of Food Biochemistry - Wiley (**2023**).
9. Application of amorphous solid dispersion technology for improving the physicochemical properties, saturation solubility, and in vitro dissolution of Withania Somnifera methanolic root powder extract. Journal of Pharmaceutical Innovation – Springer Nature (**2023**).
10. Exploration of HPTLC technology for rapid chemical fingerprinting and simultaneous determination of bioactive constituents from Clitoria Ternatea Linn. ChemistrySelect - Wiley (**2023**).
11. Identification of novel protein kinase C-βII inhibitors: virtual screening, molecular docking and molecular dynamics simulation studies. Journal of Molecular Modeling – Springer Nature (**2022**).
12. Fabrication and evaluation of fast disintegrating pellets of cilostazol. Drug Development and Industrial Pharmacy – Taylor & Francis (**2020**).
13. Innovative child-resistant packaging for pharmaceutical solid dosage forms. Journal of Packaging Technology and Research – Springer Nature (**2019**).
14. Development of biodegradable injectable in situ forming implants for sustained release of Lornoxicam. Current Drug Delivery – Bentham Science (**2019**).
15. Formulation of dry powder inhaler of anti-tuberculous drugs using spray drying technique and optimization using 2^3-level factorial design approach. Current Drug Therapy – Bentham Science (**2019**).
16. Systematic scrutinization of vital factors for fabrication and evaluation of PGS-MCC-based drug-loaded pellets by extrusion spheronization technique. Current Drug Therapy – Bentham Science (**2019**).
17. Screening of sacrificial excipients for arresting devitrification of Itraconazole from solid dispersion. Turkish Journal of Pharmaceutical Sciences - Galenos (**2019**).
18. In vivo pharmacokinetic evaluation of the developed transdermal patch of Aceclofenac and Thiocolchicoside in the treatment of gout. Asian Journal of Pharmaceutical Education and Research (**2019**).
19. Exploration of research opportunities in the development of an immediate-release oral film of ondansetron hydrochloride. Saudi Journal of Medical and Pharmaceutical Sciences (**2018**).
20. Development and optimization of a dispersible tablet of Bacopa Monnieri with improved functionality for memory enhancement. Journal of Pharmacy and Bioallied Sciences - Wolters Kluwer (**2017**).
21. Applicability of Taguchi design in the development of microparticles for pulmonary delivery. Saudi Journal of Medical and Pharmaceutical Sciences (**2017**).
22. Optimization of self-microemulsifying drug delivery system containing Curcumin and Artemisinin using D-optimal mixture design. Saudi Journal of Medical and Pharmaceutical Sciences (**2017**).
23. Identification of key variables affecting drug release from lipid matrix in hydroalcoholic dissolution medium containing hydroxypropyl methylcellulose. Indian Drugs (**2016**).
24. Development and characterization of a novel hydrogel containing an antimicrobial drug for the treatment of burns. International Journal of Pharmaceutical Investigation (**2016**).
25. Formulation and development of ophthalmic in situ gel for the treatment of ocular inflammation and infection using the application of the Quality by Design concept. Drug Development and Industrial Pharmacy – Taylor & Francis (**2016**).
26. Risk-based approach for design and optimization of a novel tablet for type-II diabetes. Pharmaceutical and Biological Evaluations (**2015**).
27. Design and evaluation of a novel bio-mimicking in vitro dissolution test apparatus for floating drug delivery systems. Dissolution Technologies (**2015**).

28. Formulation and evaluation of self-nano-emulsifying drug delivery system for solubility and bioavailability enhancement of poorly water-soluble Withaferin A. Indian Drugs (**2015**).
29. Application of ratio derivative spectrophotometric method for simultaneous determination of Artemisinin and Curcumin. Indian Drugs (**2015**).
30. Fabrication and evaluation of a laboratory-scale mini granulator using the concept of design of experiments. Indian Drugs (**2014**).
31. Simultaneous determination of Moxifloxacin hydrochloride and Difluprednate by ratio derivative spectrophotometry. International Journal of Pharmacy and Pharmaceutical Sciences (**2014**).
32. Hydrogels: A versatile drug delivery carrier system. International Journal of Pharmaceutical Sciences and Nanotechnology (**2012**).
33. Formulation, optimization, characterization, and in-vitro evaluation of sustained-release floating microspheres of Carbamazepine. International Journal of Pharma and Bio Sciences (**2012**).

Book/ book chapter publication

1. Regulatory Framework of the Central Drugs Standard Control Organization (CDSCO) in India. Taylor & Francis (**2025**).
2. Computer-Assisted Manufacturing of Medicines. Springer Nature (**2022**).

Professional service (Peer Reviewer)

1. International Journal of Pharmaceutics - Elsevier
2. Journal of Packaging Technology and Research – Elsevier
3. Drug Delivery – Taylor & Francis
4. Analytical Chemistry Letters – Taylor & Francis
5. International Journal of Analytical Chemistry – Taylor & Francis
6. AAPS PharmSciTech – Springer Nature
7. PLOS ONE

Professional Membership

1. Gujarat State Pharmacy Council (**GSPC**), Ahmedabad, Registration No.: G-24465, dated: 22-11-2005.
2. Indian Pharmaceutical Association (**IPA**), Life Membership No.: GUJ/ANA/LM/0035, up to December 2033.
3. Executive Council member as Vice-President of **IPA** Anand Local Branch.
4. Association of Pharmaceutical Teachers of India (**APTI**), Registration No.: GU/LM-636, dated: 01-05-2022.
5. American Association of Pharmaceutical Scientists (**AAPS**), USA, Member ID: 208856, dated: 24-08-2011.
6. Indian Society of Chemists and Biologists (**ISCB**) – Life Member, LF 1331/2024.
7. Rajkot Pharmacist Association (**RPA**) – Life Member, G24465.

Invitation as a Resource Person

1. Hands-on Training Programme on "AI for Educators and Researchers: Tools, Techniques, and Ethics" Organized by Anand Pharmacy College in Association with Shri B. V. Patel Education Trust, Ahmedabad. Title: Hands-on session with Research Rabbit, Connected Papers, and Scite.ai for discovering literature gaps and mapping research directions. 13-08-2025.
2. 30th ISCB International Conference (ISCBC 2025), jointly organized by ISCB and the University of Lucknow, Lucknow, UP, India. Title: Optimizing Pharmaceutical Production: Advancing efficiency with hot melt extrusion for continuous manufacturing. 28-01-2025.
3. LJ Institute of Pharmacy, LJ University, Ahmedabad, Gujarat, India. e-Faculty Development Program on “Emerging Technologies: Augmenting Pharmaceutical Horizon”. Title: 3D Printing Technology in Transforming Healthcare and Pharma Products. 20-01-2025.

4. 1st International Conference on Research and Innovation in Multidisciplinary Domains (NOBCON 2024) organized by Noble University, Junagadh, Gujarat, India. Title: Regulations of Medical Devices in India: Ensuring Safety and Compliance. 28-12-2024.
5. FDP on Biopharmaceuticals and PBPK Modelling: Concept, Case Study and Hands-on, organized by the Faculty of Pharmacy, Parul University, Vadodara, Gujarat, 391760, India. Title: PBPK Modelling Tool: Concept and Application. 24-04-2024.
6. Hands-on Training Program on "Software tools used in process and product development" Organized by Sri Ramachandra Faculty of Pharmacy, Porur, Chennai, Tamil Nadu, India. Title: A Plackett-Burman statistical design for the screening of variables during formulation optimization. 16-03-2024.
7. GTU CCE approved a short-term training program on "Pharmaceutical dossier preparation and filing, organized by IQAC of C. K. Pithawalla Institute of Pharmaceutical Science & Research, Surat, Gujarat, India. May 28, 2023. Topic delivered: Biowaiver, Bioequivalence, and comparative dissolution in vitro in vivo correlation.
8. National e-Conference on DoE: A valuable multipurpose tool of Biostatistics, organized by K.B. Raval College of Pharmacy, Gandhinagar, Gujarat, India. 28-03-2023. Topic delivered: Plackett-Burman statistical design for the screening of variables during formulation optimization.
9. GSPC-sponsored two-day online refresher course for Registered Pharmacists, organized by SSR College of Pharmacy, Silvassa, U.T. of Dadra & Nagar Haveli, India. March 22, 2023. Topic delivered: Use of artificial intelligence (AI) in the pharmaceutical sector.
10. GSPC-sponsored two-day online refresher course for Registered Pharmacists, organized by Shivam Pharmaceutical Studies and Research Centre, Valasan, Anand, Gujarat, India. February 18-19, 2023. Topic delivered: Artificial intelligence in the pharmaceutical industry.
11. GUJCOST-sponsored two-day national workshop on Applications of PBPK modelling, organized by the School of Pharmacy, Parul University, Vadodara, Gujarat, India, 391760. February 13, 2023. Topic delivered: PBPK modelling for the prediction of in vivo performance using in silico inputs.
12. Gujarat State Pharmacy Council Sponsored a Refresher Course for Registered Pharmacists, Organized by the School of Pharmacy, Dr. Subhash University, Junagadh, Gujarat, India. October 02, 2022. Topic delivered: Application of computers in hospital pharmacy.
13. Two-day online workshop on "Utility of design of experiments in research with Design-Experiment software" Organized by Teerthanker Mahaveer College of Pharmacy, Moradabad, 244001, Uttar Pradesh, INDIA. 20-09-2022. Topic delivered: Design of experiments to identify significant variables.
14. US Institute of 3D Technology (USI3DT, California Corporation, USA) & Anand Pharmacy College (Gujarat, India) Online certification course on 3D Printing in health care. 18-06-2022. Topic delivered: 3D printing in pharma health care products.
15. AICTE-GTU jointly sponsored an online FDP on "Recent formulation approaches for improving the dissolution properties of poorly soluble drugs," Organized by B. K. Mody Govt. Pharmacy College, Rajkot, Gujarat, India. 11-03-2022. Topic delivered: Dissolution testing of poorly soluble drugs.
16. e-Demonstration of "Use of Mendeley software as a referencing tool" Organized by N. R. Vekaria Institute of Pharmacy and Research Centre, Junagadh, Gujarat, India. February 19, 2022. Topic delivered: Mendeley:

    Reference Management Tool.
17. In association with GTU-CCE – Short-term certificate course on QbD approach for pharmaceutical formulation & analytical method development, organized by Shree N. L. Patel College of Pharmacy, Umrakh, Bardoli, Gujarat. 22-01-2022. Topic delivered: Screening of critical variables using various experimental designs.
18. Gujarat State Pharmacy Council Sponsored a Refresher Course for Registered Pharmacists, Organized by Shri Sarvajanik Pharmacy College, Mehsana. October 16, 2021. Topic delivered: Application of computers in hospital pharmacy.

19. Gujarat State Pharmacy Council Sponsored Refresher Course for Registered Pharmacists, Organized by B. K. Mody Government Pharmacy College, Rajkot. September 25, 2021. Topic delivered: Digitalization of retail medical store.
20. AICTE sponsored one week of an online short-term training program (STTP) on trends in alternatives to biological methods in pharmaceutical studies, organized by the Government College of Pharmacy, Aurangabad, India. May 26, 2021. Topic delivered: V-Lab: A simulation tool for teaching and learning.
21. e-Demonstration of "Use of Mendeley software as a referencing tool" Organized by N. R. Vekaria Institute of Pharmacy and Research Centre, Junagadh, Gujarat, India, December 08, 2020. Topic delivered: Mendeley: Reference Management Tool.
22. AICTE Training and Learning Academy (ATAL), Sponsored e-Faculty Development Programme on design thinking principle in pharma product development: a fresh look towards innovation. Organized by Anand Pharmacy College, Anand, Gujarat, India. November 23, 2020. Topic delivered: Innovation in the Pharmaceutical Packaging System.
23. GUJCOST Sponsored National e-Seminar on "Implementation of QbD and DoE in Pharmaceutical Product Development" Shree Swaminarayan Sanskar Pharmacy College, Zundal, Gujarat, India. October 06, 2020. Topic delivered: Plackett-Burman statistical design.
24. Scientific Research Committee, Anand Pharmacy College, Anand, Gujarat, India. August 28, 2020. Topic delivered: DDSolver and PKSolver.
25. GPAT Entrance Exam Preparation Organized by B. K. Mody Government Pharmacy College, Rajkot, Gujarat, India. August 22, 2020. Topic delivered: Micromeritics.
26. e-Demonstration of Virtual Laboratory Experiments in Pharmacy Organized by Y. B. Chavan College of Pharmacy, Maulana Azad Education Trust, Aurangabad, India. July 26, 2020. Topic delivered: The Virtual Laboratory Experiments.
27. e-Expert lecture series on 'Application of QbD in Pharmaceutical Science', organized by Babaria Institute of Pharmacy, BITS Edu Campus, Vadodara, Gujarat, India. June 04, 2020. Topic delivered: QbD in Formulation and Development.
28. Gujarat Technological University and Anand Pharmacy College jointly organized an e-faculty Development Program on "Redefining the Role of Educator in Covid-19 Outbreak Era". May 11-16, 2020. Topic delivered: The Virtual Laboratory Practical Class.
29. GUJCOST sponsored a three-day workshop on "Application of Chemometrics in Pharmaceutical Research," Organized by KB Institute of Pharmaceutical Education and Research, Gandhinagar, Gujarat, India. February 10-12, 2020. Topic delivered: Chemometrics in Formulation and Development.
30. AICTE sponsored a two-week National-level Faculty Development Programme, "Training faculty for 21st century needs and challenges," Organized by Anand Pharmacy College, Anand, Gujarat, India. November 18-30, 2019. Topic delivered: Teaching, learning, and research skills in the digital age.
31. GUJCOST sponsored a one-day National Seminar and workshop on "3D Printing Technology in Pharmaceutical Drug Delivery," Organized by Bhagwan Mahavir College of Pharmacy, Surat, Gujarat, India, held on August 10, 2019. Topic delivered: 3D Printing Technology - The Future of Pharmaceutical Dosage Forms.
32. Workshop on "Thesis Formatting" organized by the Faculty of Science, Marwadi University, Rajkot, Gujarat, India, held on July 06, 2019. Topic delivered: Thesis Formatting - MS Office Word tool to make things Better, Best & Perfect.
33. Student start-up and innovation policy - Govt. of Gujarat supported a Boot camp on Creativity and Innovation organized by Anand Pharmacy College in association with Anand English Medium School, Anand, Gujarat, India, held on June 10, 2019. Topic delivered: Innovation and You! - Innovation is all about making things Better, Best & Perfect.

34. Gujarat State Pharmacy Council Sponsored Refresher Course for Registered Pharmacists, organized by the Department of Pharmaceutical Science, Saurashtra University, Rajkot, Gujarat, India, held on March 10, 2019. Topic delivered: 3D Printing Technology in Pharmaceutical Drug Delivery (Novel Drug Delivery System).
35. GUJCOST sponsored Short Term Training Program (STTP) on Biostatistics in Pharmaceutical Research: From Concept to Applications, organized by the School of Pharmacy, Parul University, Vadodara, Gujarat, India, held on January 7-11, 2019. Topic delivered: Full and Fractional Factorial Design and its Application in Formulation Optimization.
36. One-day hands-on workshop on "Computational tools for biostatistics," Department of Microbiology, Marwadi University, Rajkot, Gujarat, India, held on October 08, 2018. Topic delivered: Hands-on analysis of biological data using computational tools of statistics (Minitab).
37. GUJCOST sponsored a National seminar on Quality Risk Management in Pharmaceuticals, organized by Babaria Institute of Pharmacy, Vadodara, Gujarat, India, held on September 29, 2018. Topic delivered: Understanding Failure Mode and Effect Analysis (FMEA).
38. GUJCOST sponsored a National seminar on the Concept of Dosage Form design – An Industrial Perspective, organized by Sardar Patel College of Pharmacy, Bakrol, Anand, Gujarat, India, held on September 27-28, 2018. Topic delivered: Quality risk assessment tools for pharmaceutical product development using the QbD approach.
39. GUJCOST sponsored a national seminar and workshop on QbD: The integrated approach for quality product development, organized by the Department of Pharmacy, Sumandeep Vidyapeeth, Vadodara, Gujarat, India, held on August 24-25, 2018. Topic delivered: Risk assessment of the product quality in the Pharmaceutical Industry.
40. GUJCOST sponsored a short-term training program on QbD: Academic and industrial perspective, organized by the Department of Pharmaceutical Sciences, Saurashtra University, Rajkot, Gujarat, India, held on August 13-18, 2018. Topic delivered: Quality Risk Management (QRM) in the Pharmaceutical Industry.
41. SSIP Sponsored Workshop on "ICT: A teaching tool for proficient pedagogy, jointly organized by Shri Ramkrishna Seva Mandal and Anand Pharmacy College, Gujarat, India, held on March 21, 2018. Topic delivered: Amalgamation of ICT tools and Teaching-Learning Pedagogy.
42. Gujarat State Pharmacy Council Sponsored Refresher Course for Registered Pharmacists, organized by Anand Pharmacy College, Anand, Gujarat, India, held on March 3-4, 2018. Topic delivered: Emerging Technologies for Pharmaceutical Manufacturing.
43. Savitribai Phule Pune University (SPPU) sponsored a state seminar-cum-workshop on Applications of ICT Tools and teaching with Animation in Pharma-Education, organized by SSR College of Pharmacy, Silvassa, U.T. of Dadra & Nagar Haveli, India, held on February 26, 2018. Topic delivered: Animation in Pharmaceutics: An innovative teaching-learning tool.
44. GUJCOST sponsored a National workshop on Artificial Neural Networks (ANN) and Response Surface Methodology (RSM): Important tools in the optimization of pharmaceutical formulation, organized by Anand Pharmacy College, Anand, Gujarat, India, held on February 23, 2018. Topic delivered: Artificial Neural Network (ANN) using Neurosolutions.
45. GUJCOST sponsored a National workshop on Quality by Design using the Design of Experiments, organized by ROFEL Shri G. M. Bilakhia College of Pharmacy, Vapi, Gujarat, India, held on February 17-18, 2018. Topic delivered: Screening Experiments Using Plackett-Burman Design.
46. GUJCOST sponsored a National seminar on Quality by Design Approach in Tablet Formulation, organized by Indukaka Ipcowala College of Pharmacy, Gujarat, India, held on February 09, 2018. Topic delivered: Computer-aided screening of significant factors for multifactorial experimental design.
47. Invited speaker to deliver an expert talk during Pharmacy Research Week – January 2018, organized by Gujarat Technological University, Ahmedabad, Gujarat, India, held on January 23, 2018. Topic delivered: Reference Management using Mendeley.

48. Gujarat State Pharmacy Council sponsored National Pharmacy Week on the Role of Pharmacists in the healthcare system, organized by Indubhai Patel College of Pharmacy & Research Centre, Dharmaj, Gujarat, India, held on December 18, 2017. Topic delivered: Role of the Pharmacist in the healthcare system.
49. GUJCOST sponsored a national seminar on the Optimization and screening of variables by DoE, organized by Shree Swaminarayan Sanskar Pharmacy College, Zundal, Gujarat, India, held on October 7, 2017. Topic delivered: Screening of significant variables employing Plackett-Burman design.
50. Invited speaker to deliver an expert lecture on Evolution in Pharmaceutical Packaging, during a two-day refresher course for the registered pharmacist, sponsored by Gujarat State Pharmacy Council, organized by Anand Pharmacy College, Anand, Gujarat, India, held on September 16-17, 2017.
51. A two-day workshop on the Design of Experiments, organized by Cadila Pharmaceuticals Ltd., Dholka, Ahmedabad, Gujarat, India, held on May 15-16, 2017. Topic delivered: Day 1 # Identification of significant factors through Plackett-Burman design, Day 2 # Application of Tolerance Interval (TI) in Design of Experiments (DoE).
52. Certification course on Quality by Design (QbD) and Design of Experiments (DoE), organized by Anand Pharmacy College, Anand, Gujarat, India, held on April 17-18, 2017. Topic delivered: Identification of significant factors using the statistical tool: Taguchi design during a hands-on training session.
53. A two-day National seminar and workshop on Optimization and screening of variables by DoE, organized by the Department of Pharmacy, Sumandeep Vidyapeeth, Vadodara, Gujarat, India, held on March 17-18, 2017. Topic delivered: Design of experiments using statistical software.
54. Invited speaker to deliver an expert lecture on the Broadening of scope in Pharmacy in recent times, organized by the School of Pharmacy, RK University, Rajkot, Gujarat, India, held on February 17, 2017.
55. Invited speaker to deliver an expert lecture on Plackett-Burman design and Mendeley, organized by B. K. Mody Government Pharmacy College, Rajkot, Gujarat, India, held on February 17, 2017.
56. Certification course on Quality by Design (QbD) and Design of Experiments (DoE), organized by Anand Pharmacy College, Anand, Gujarat, India, held on January 20-21, 2017. Topic delivered: Identification of significant factors through Plackett-Burman design during a hands-on training session.
57. GUJCOST sponsored a national workshop on Experimental techniques of pharmaceutical microbiology, organized by N. R. Vekaria Institute of Pharmacy, Junagadh, Gujarat, India, held on March 4-5, 2016. Topic delivered: Evaluation of bacteriostatic activity.
58. Certification course on Quality by Design (QbD) and Design of Experiments (DoE), organized by Anand Pharmacy College, Anand, Gujarat, India, held on September 21-23, 2015. Topic delivered: The screening design for multifactorial experiments and Taguchi design for experiments using the MiniTab statistical tool during a hands-on training session.
59. GUJCOST sponsored a national symposium on Pharmaceutical Dosage Form Design & Development: Approaches, Challenges, and Opportunities, organized by the Faculty of Pharmacy, Dr. Subhash Technical Campus, Junagadh, Gujarat, India, held on August 20, 2015. Topic delivered: QbD approach for optimizing drug delivery system using systematic “Design of Experiments”.
60. Certification course on Quality by Design (QbD) and Design of Experiments (DoE), organized by Anand Pharmacy College, Anand, Gujarat, India, held on March 02-04, 2015. Topic delivered: Smart drawing of Ishikawa diagram, Plackett-Burman design, and Principal Component Analysis (PCA) tool during a hands-on training session.
61. Certification course on Quality by Design (QbD) and Design of Experiments (DoE), organized by K. B. Institute of Pharmaceutical Education and Research (KBIPER), Gandhinagar, Gujarat, India, held on February 25-27, 2015. Topic delivered: Plackett-Burman design: A screening design for multifactorial experiments, and Principal Component Analysis (PCA): Multifactorial data analysis tool during a hands-on training session.
62. Certification course on Quality by Design (QbD) and Design of Experiments (DoE), organized by Anand Pharmacy College, Anand, Gujarat, India, held on September 08-11, 2014. Topic delivered: Plackett-Burman

design: A screening design for multifactorial experiments, and Principal Component Analysis (PCA): A multifactorial data analysis tool during the hands-on training session.

Participation outside of India

1. PhD research presented at the 2011 AAPS Annual Meeting and Exposition, held at the Walter E. Washington Convention Centre, Washington, DC, USA, on October 23-27, 2011.
2. Research presented at the International Conference on In Silico Trends and Approaches in Drug Discovery and Development held at the University of Doha for Science and Technology, Doha, Qatar, on October 22-24, 2023.

Technical Instrumental Operating Skills

1. High-Pressure Homogenizer (GEA, Panda plus 2000)
2. High Shear Homogenizer (IKA T 18 digital Ultra-Turrax)
3. Rotary Tablet Mini Press (10 Station)
4. Electrolab Dissolution Test Apparatus (6 Station)
5. UV Spectrophotometer (Shimadzu 1900)
6. HPLC (Shimadzu, Agilent)
7. Extruder & Spheronizer
8. Spray Drier
9. FTIR Spectrophotometer (Shimadzu)
10. Rapid Mixture Granulator (RMG)
11. Fluid Bed Coater and Dryer

Administrative Responsibilities Shouldered

1. Instrumental person in the documentation compilation and presentation during an inspection of statutory, ranking, and rating bodies, like **AICTE**, **PCI**, **CoE**, **NBA**, **NAAC**, **QCI**, **NIRF**, **QS**.
2. Innovation Zone Development.
3. Institutional core team member of the Student Start-up Innovation Policy (SSIP)
4. AQAR (Annual Quality Assurance Report) preparation.
5. Career guidance cell and finishing school.
6. IPR (intellectual property rights) Cell.
7. Trainer in a Niche area: QbD, DoE, PBPK, and Mendeley.
8. IEP (International Experience Program) coordinator.
9. ISC (International Student Cell) coordinator.
10. QbD Certification program coordinator.
11. Student-centric activities: Placement officer, GTU centralized placement fair organizing committee member, Pharmaceutical Industry visits.
12. Fabrication of miniature equipment: Small-sized, affordable apparatus/equipment for use in the institute are either not available or are available at a premium cost. I have designed the following apparatus at the institute level:
    a. Extruder and spheronizer for pellet formulation
    b. Pastillator for pastille formulation
    c. Dissolution apparatus to mimic in vivo conditions (one-fourth of the cost of commercial apparatus),
    d. Taste masking testing apparatus; it is also suitable for testing mouth-to-dissolve tablets.
    e. Apparatus for preparing SR products, etc.

Language proficiency

	Read	Write	Speak
English	✓	✓	✓
Marathi	✓	✓	✓

	Read	Write	Speak
Hindi	✓	✓	✓
Gujarati	✓	✓	✓

Reference

1. **Prof. (Dr.) Abhay Dharamsi**
   Provost, Bhaikaka University, Karamsad, 388325, Gujarat, India
   aadharamsi@gmail.com • +91-9825300604

2. **Prof. (Dr.) B. N. Suhagia**
   Former Professor of L. M. College of Pharmacy
   Dean, Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, 387001, Gujarat, India
   bnsuhagia@rediffmail.com • +91-9427000135

3. **Prof. (Dr.) S. Saisivam**
   Principal, N. R. Vekaria Institute of Pharmacy, Junagadh, 362001, Gujarat, India
   saisivams@yahoo.com • +91-9909435856

4. **Prof. (Dr.) Anamik Shah**
   Former Vice-Chancellor at Gujarat Vidyapith, Ahmedabad, Gujarat, 380001, India
   Professor at Saurashtra University, Rajkot, Gujarat, 360002, INDIA
   President, Indian Society of Chemists and Biologists (ISCB), Lucknow
   dranamik@hotmail.com • +91-9825215656

5. **Prof. (Dr.) Tejal R. Gandhi**
   Principal and Professor, Anand Pharmacy College, Anand, 388001, Gujarat, India
   gandhi.tejal@hotmail.com • +91-9825074167

Declaration

I hereby declare that the information mentioned above is true to the best of my knowledge, and I will personally be held liable if facts are found to be misrepresented.

Dr. Lalji Baldaniya