

Phone: +91 9724142699 (M)
+91 7984836376 (M)
: +91 9051129345 (R)

**CAREER OBJECTIVE:**

To develop my career in a well-reputed organization that offers good opportunities and a professional working environment would help me to develop my skills and build up my knowledge. To work for the benefit of an organization by handing over my cooperation and commitment.

SUMMARY:

- Passed **D. Pharm.** with **DISTINCTION** in 2002.
- Passed **B. Pharm.** with **FIRST CLASS** in 2005.
- Passed **M. Pharm.** with **DISTINCTION** in Pharmaceutics (Industrial Pharmacy) from Bapuji Pharmacy College, Davangere, Karnataka in 2008.
- Completed **Ph.D.** in 2013.

PROFESSIONAL COMPETENCY:

- Strong knowledge of my subject.
- Sound, Understanding, Confident lifestyle.
- Having good interpersonal skills and zeal to learn new things.
- Strong but realistic belief in own capabilities and ideas.
- Maintain a positive attitude in the face of changes in work assignments or conditions.
- Hard working, adaptable to varying conditions, Enthusiastic for work.

PROFESSIONAL RESPONSIBILITY:

- Co-ordinator of Competitive Exam Preparation Cell (CEPC) for M. Pharm. like GPAT, NIPER.
- MOOCs (SPOC, NPTEL).
- Member of training and placement cell.
- Monitoring and assessing a student's progress.
- Participating in the development of appropriate materials and schemes of work.
- Actively involved in curriculum review and development.
- Ensuring the correct use and care of equipment and resources is maintained.
- Planning and preparing appropriate lessons and suitable teaching materials.
- Participating in appropriate meetings with parents.
- Participating in and contributing to staff meetings.

PROFESSIONAL QUALIFICATIONS:

Examination	Examining Board/University	Year of Passing	Percentage Obtained	Division & Rank
Ph.D.	Bhagwant University, Ajmer, Rajasthan	Date of Award:- 10 th May, 2013		
M. Pharm.	Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka	2008	78.50	Distinction
B. Pharm.	Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka	2005	II-65.00 III-66.77 IV-68.25 Avg = 66.83	I-Class
D. Pharm	State Medical Faculty of West Bengal	2002	I-75.45 II-74.60 Avg = 75.02	Distinction
Information Technology Application	Dept. of Sports & Youth Services, Govt. of West Bengal	2001	A+	A+
H.S.C	W.B.C.H.S.E	2000	64.00	I-Class
S.S.C	W.B.B.S.E	1998	69.50	I-Class

AREA OF SPECIALIZATION: Industrial Pharmacy (Pharmaceutics)**Ph.D. TOPIC:**

FORMULATION AND EVALUATION OF SOLID LIPID NANOPARTICLES CONTAINING ANTICANCER DRUGS

EXPERIENCE:

- 1) Training experience: I have completed my training at MICRO LABS LIMITED, Bangalore for the period of one month as a part of my B. Pharm. curriculum. I have worked with various department including tablets, capsules, liquid orals, quality control, and packaging.
- 2) At present working as Professor at Department of Pharmaceutical Technology, School of Health & Medical Sciences, ADAMAS University, Barasat, Kolkata.
- 3) Successfully guided 27 M. Pharm. Students till now.
- 4) Currently guiding 4 M. Pharm. and 6 Ph.D. students.

Sr No	Company / Institute	From	To	Designation	Years
1	Atmiya Institute of Pharmacy, Kalawad Road, Rajkot-360005, Gujarat. India.	16 th June, 2008	31 st July 2013	Assistant Professor	5 years 1 month
2	Atmiya Institute of Pharmacy, Kalawad Road, Rajkot-360005, Gujarat. India.	1 st August, 2013	6 th February 2018	Associate Professor	4 years 6 months

3	Bengal College of Pharmaceutical Sciences and Research, Durgapur – 713212, West Bengal	8 th February 2018	31 st January 2019	Associate Professor	11 months 23 days
4	Bengal School of Technology, (A College of Pharmacy) Sugandha, Delhi Road, Hooghly-712102, West Bengal	1 st February 2019	31 st August 2022	Associate Professor	3 years 7 months
5	Global College of Pharmaceutical Technology, Palpara More, NH-34, Krishnanagar, Nadia 741102, West Bengal	2 nd September 2022	10 th June 2023	Professor & HOD	9 months 12 days
6	Department of Pharmaceutical Technology, School of Health & Medical Sciences, ADAMAS University, Barasat, Kolkata	19 th June 2023	Till date	Professor	-
Total Experience - 15 years 8 months					
Paper Published		Paper Presented		Seminar / Conference / Workshop/FDP etc.	
National	International	National	International	Attended	Organized
07	45	03	03	52	01

ACHIEVEMENTS / AWARDS:

- A. **Travel grant** from Department of Science and Technology for attending and presenting a research paper on “Development and Characterization of Terbutaline Sulphate Microsponge and Its Colonic Delivery by Compression Coated Tablets” in “3rd International Conference and Exhibition on Pharmaceutics and Novel Drug Delivery System” at Hilton Chicago/Northbrook, USA.
- B. “Preparation and Characterization of Swellable Polymer Based Interpenetrating Polymeric Network (IPN) Hydrogel Beads for Modified Release of Montelukast Sodium”, has been accepted for **poster presentation** at the 2013 AAPS Annual Meeting and Exposition being held November 10-14, 2013 in San Antonio, Texas.
- C. **Best Researcher Award 2014**. Atmiya Group of Institutions, Rajkot, Gujarat.
- D. **Best Student** of the Year. Bapuji Pharmacy College, Davangere, Karnataka, 2007.
- E. **Best Student** of the Year. Bapuji Pharmacy College, Davangere, Karnataka, 2008.
- F. One of my research project got **2nd prize & 1000 Rs/- cash prize in poster presentation** on DBT sponsored national level symposium ‘ATMIYA SCITECH UTSAV – 2014’, organized by Shree M. & N. Virani Science College, Rajkot on 15th & 16th February, 2014, on the theme of Current trends in drug discovery.
- G. **“Young Achiever Award 2021”** from Institute of Scholar (InSc.), InSc Award 2021.
- H. **“Award for excellence in research”** from National Education Brilliance Award 2021, in recognition of and appreciation for outstanding contribution to education.
- I. **“ASKMi Innovation Award-2021”** from ASKM Innovations.

- J. “Young Professor of The Year 2021” from Education Icon Awards at EIA Conferences.
- K. “India Prime 100 Professors Award 2021” from Foxclues.
- L. “Young Researcher Award 2022” from Institute of Scholar (InSc.), InSc Award 2022.
- M. “Young Professor of The Year 2024” from Kiteskraft Production.

PROFESSIONAL MEMBER:

- A. Life member of the “Indian Pharmaceutical Association” (IPA). Membership No.- GUJ/RJK/LM/0038.
- B. Life member of the “Association of Pharmaceutical Teachers of India” (APTI). Membership No. WB/LM-351.
- C. Associate editor of Research Journal of Pharmacy and Technology (RJPT). Scopus indexed journal.
- D. Associate editor of “Asian Journal of Research in Pharmaceutical Sciences”
- E. Editorial board member of Acta Scientific Pharmaceutical Sciences.
- F. Editorial board member/Advisory board member of Indo-European Journal of Pharmaceutical Sciences.
- G. Editorial board member of Mintage journals of Pharmaceutical and Medical Sciences.
- H. Reviewing editor of World Research Journal of Pharmaceutical Technology (WRJPT). Impact Factor – 1.12.
- I. Reviewer of International Journal of basic and applied sciences. Journal of Institute of Scholar (InSc.).
- J. Reviewer of InSc International Publishing Platforms and also for technical events under the stream: Basic and Medial Sciences.
- K. Editor-in-Chief. BOHR International Journal of Pharmaceutical Studies (BIJOPS).

PUBLICATIONS:

1. Kevin Garala, Nidhi Faldu, **Biswajit Basu**, Ravi Bhalodia, Kuldeep Mehta, Bhavik Joshi. Chemical Penetration Enhancement: A Review. Journal of Pharmacy Research. 2009; 2 (12): 1804 -1808.
2. Kevin Garala, **Biswajit Basu**, Ravi Bhalodia, Kuldeep Mehta, Bhavik Joshi. Alternative to drug delivery system: Chromotherapy. Drug Invention Today. 2009; 1(2): 130-134.
3. **Biswajit Basu**, Kevin Garala, Manojkumar Tyagi, G.L. Prabhushankar, P. R. Sathesh Babu. Formulation and *In Vitro* Evaluation of Periodontal Films Containing Metronidazole. Research Journal of Pharmaceutical Dosage Form and Technology. 2009; 1(3): 240-243.
4. **Biswajit Basu**, Kevin Garala, Ravi Bhalodia, Bhavik Joshi, Kuldeep Mehta. Solid Lipid Nanoparticles – A Promising Tool for Drug Delivery System. Journal of Pharmacy Research. 2010; 3(1): 84-92.
5. Ravi Bhalodia, **Biswajit Basu**, Kevin Garala, Bhavik Joshi, Kuldeep Mehta. Buccoadhesive Drug Delivery System: A Review. International Journal of Pharma and Bio Science. 2010; 1 (2): 1-32.
6. **Biswajit Basu**, Kevin Garala, J. Thimmasetty, Formulation and Evaluation of Pimozide Buccal Mucoadhesive Patches. International Journal of Pharmaceutical Sciences and Nanotechnology. 2010; 2 (4): 739-747.

7. Garala Kevin, Bhalodia Ravi, **Biswajit Basu**, Mehta Kuldeep, Joshi Bhavik, "Solubility Enhancement of Aceclofenac and Formulation Development of Rapid-Disintegrating Tablets Using Simplex Lattice Design"; International Journal of Pharmaceutical Sciences. 2009; 1 (2): 265-268.
8. **Biswajit Basu**, Kevin Garala, Abhay Dharamsi. Lycopene: A novel anti-oxidant and anticancer agent. Journal of Pharmacy Research. 2010; 3(6): 1427-1431.
9. Kevin Garala, **Biswajit Basu**, Abhay Dharamsi. Physical penetration enhancers. Journal of Pharmacy Research. 2010; 3(8): 1769-1774.
10. Mehta Kuldeep, Garala Kevin, **Biswajit Basu**, Bhalodia Ravi, Joshi Bhavik. An Emerging Trend in Oral Drug Delivery Technology: Rapid Disintegrating Tablet. Journal of Pharmaceutical science and Technology. 2010; 2 (10): 318-329.
11. **Biswajit Basu**. Release kinetics studies of pimozone from buccal mucoadhesive patches. Journal of Pharmacy Research, 2011; 4(6): 1806-1808.
12. Jaydeep Patel, Kevin Garala, **Biswajit Basu**, Mihir Raval, Abhay Dharamsi. Solubility of aceclofenac in polyamidoamine dendrimer solutions. International Journal of Pharmaceutical Investigation. 2011; 1(3): 135-138.
13. **Biswajit Basu**, Abhishek Bagadiya, Sagar Makwana, Maulik Kapadiya. Design and evaluation of sublimed orodispersible tablets of cetirizine HCl using superdisintegrant blends by direct compression. International Journal of Pharmacy and Pharmaceutical Sciences. 2011; 3(5): 435-441.
14. **Biswajit Basu**, Abhishek Bagadiya, Sagar Makwana, Vora Vipul, Devraj Batt, Abhay Dharamsi. Formulation and Evaluation of Fast Dissolving Tablets of Cinnarizine Using Superdisintegrant Blends and Subliming Material. Journal of advanced pharmaceutical technology and research. 2011; 2(4): 266-273.
15. Sagar Makwana, **Biswajit Basu**, Yogita Makasana, Abhay Dharamsi. Prefilled syringes: An innovation in parenteral packaging. International Journal of Pharmaceutical Investigation. 2011; 1(4): 200-206.
16. Desai P, **Basu B**. Design and evaluation of fast dissolving film of Domperidone. International research journal of pharmacy. 2012; 3(9): 134-145.
17. **B. Basu**, A. Dharamsi. Design and Evaluation of Solid Lipid Nanoparticles of Tamoxifen Citrate by Factorial Design. Pharma Science Monitor – An International Journal of Pharmaceutical Sciences. 2012; 3(3): 134-189.
18. **Basu B**, Lathia N, Joshi P. Preparation and Evaluation of Cinnarizine Floating Microspheres Using Factorial Design. *Inventi Rapid: NDDS*. 2013(1): 1-8, 2012.
19. **Biswajit Basu**, Nidhi Lathia, Abhay Dharamsi. Formulation and characterization of novel taste masked mouth dissolving tablets of tramadol HCl using different approaches. *Inventi Rapid: Pharm Tech*. 2013; 3: 1-4.
20. Vora Vipul, **Biswajit Basu**. Formulation and characterization of novel floating *in-situ* gelling system for controlled delivery of ramipril. International Journal of Drug Delivery. 2013; 5(1): 43-55.

21. Jani Saurabh, Ladva Chetan, Jakasania Pratik, Mitesh Ghodasara, **Biswajit Basu**, Mehta Kuldeep. Design and Characterization of Press Coated Tablets of Simvastatin for Pulsatile Delivery. *Inventi Impact: NDDS*. 2013; 2: 1-11.
22. Bhavisa B Rabadiya, **Biswajit Basu**. Design and Development of Interpenetrating Polymeric Network Hydrogel Beads as Delivery Carrier for Modified Release of Simvastatin. *Inventi Rapid NDDS*. 2013; 2: 1-23.
23. **Biswajit Basu**, Abhay Dharamsi. Design and Evaluation of 5-Fluorourasil Loaded Solid Lipid Nanoparticles by High Shear Hot Homogenization Followed by Ultrasonication. *Inventi Impact: NDDS*, 2013(3): 1-15.
24. **Biswajit Basu**, Ketan R Aviya, Amitava Bhattacharya. Development and characterization of mouth dissolving tablets of prednisolone. *Journal of pharmaceutical investigation*, Spinger, 2014; 44 (2): 79-102.
25. **Biswajit Basu**, Gunjan Kumar Mehta. Carbon Nanotubes: A Promising Tool in Drug Delivery. *International Journal of Pharma and Bio Sciences*. 2014; 5(1): 533-555.
26. **Biswajit Basu**, Birju Bagthalia. Formulation and Development of Bilayer Tablets of Cimetidine and Praziquantel for Targeted Delivery. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2016; 5(3): 1406-1444. ISSN – 2278-4357.
27. P. R. Rachh, A. Dharamsi, **B. Basu**, Umesh Kumar. Pharmacognostic Studies of Moringa Oleifera Leaflet. *Pharma Science Monitor: An International Journal of Pharmaceutical Sciences*. 2012; 3 (3): 124-133. ISSN – 0976-7908.
28. **Biswajit Basu**, Anil Kathiriya. Formulation and Evaluation of Floating In Situ Gel Forming System for Sustained Delivery of Tolterodine Tartrate. *Proceedings of RK University's First International Conference on Research & Entrepreneurship 5th & 6th January, 2016*; 774-797. ISBN: 978-93-5254-061-7.
29. Bansari Joshi, Grishma Dalal, Jalpa Bavlia, **Biswajit Basu**, Kevin Garala, K R Vadalia. Design and Release Kinetic Studies of Nimesulide Bioadhesive Topical Gel. *Inventi Rapid: Pharm Tech Vol*. 2016, Issue 4, 1-7. [ISSN 0976-3783]
30. Grishma Dalal, Jalpa Bavlia, Bansari Joshi, Kevin Garala, **Biswajit Basu**, K R Vadalia. Design and Characterization of Fast Dissolving Tablets of Glipizide by using Factorial Design. *Inventi Rapid: Pharm Tech Vol*. 2016, Issue 4, 1-7. [ISSN 0976-3783].
31. **Biswajit Basu**, Mori Ankita S, Partha Pratim Mahata, Suparna Ghosh, Ritu Gaur, Boundugulapati Murali Krishna. Development and Characterization of Terbutaline Sulphate Microsponge and Its Colonic Delivery by Compression Coated Tablets. *World Research Journal of Pharma Technology*, 2017, 3(3): 1-75.
32. Swarnali Dutta, **Biswajit Basu**. Zebra Fish as A Model Organism & Its Recent Development. *Pharma Science Monitor - An International Journal of Pharmaceutical Sciences*. 11(2), Apr-Jun 2020.
33. Swarnali Dutta, **Biswajit Basu**. Co-Processed Excipients: A New Generation Excipients to Improve Compressibility. *Inventi Rapid: Pharm. Tech.*, 2021; Issue 3: 1-8.
34. Swarnali Dutta, **Biswajit Basu**. Cubosomes: An Innovative Vesicular Drug Delivery System. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2021; 10(8): 787-799.
35. **Biswajit Basu**, Ankur Mankad, Ayon Dutta. Methylphenidate Fast Dissolving Films: Development, Optimization Using Simplex Centroid Design and In-Vitro Characterization. *Turkish Journal of Pharmaceutical Sciences*. 2022;19(3):251-266. DOI: 10.4274/tjps.galenos.2021.

36. Ghallab Alotaibi, Sitah Alharthi, **Biswajit Basu**, Dipanjana Ash, Swarnali Dutta, Sudarshan Singh, Bhupendra G. Prajapati, Sankha Bhattacharya, Vijay R. Chidrawar and Havagiray Chitme. Nano-Gels: Recent Advancement in Fabrication Methods for Mitigation of Skin Cancer. *Gels* 2023, 9, 331. <https://doi.org/10.3390/gels9040331>.
37. B. G. Prajapati, Chandresh P. Patel, **Biswajit Basu**. Microparticulation of levofloxacin HCl by crystallo-co-agglomeration technique. *Research J. Pharm. and Tech.* 16(4): April 2023.
38. Dipanjan Karati, Swarupananda Mukherjee, Sudarshan Singh, Bhupendra G. Prajapati, **Biswajit Basu**. Biopolymer-based nano-formulations for mitigation of ocular infections: a review. *Polymer Bulletin*; (2023): 1-28. <https://doi.org/10.1007/s00289-023-05095-8>.
39. **Basu B**, Prajapati B, Dutta A, Paliwal H. Medical Application of Liposomes. *J Explor Res Pharmacol*. Published online: Sep 4, 2023. doi: 10.14218/JERP.2023.00002.
40. Bhupendra G. Prajapati, Anand Bhagat and **Biswajit Basu**. Preparation & Characterization of Sustained-release Floating Microsphere of Digestive Enzymes. *Current Drug Therapy*, Bentham Sciences, accepted.
41. **Biswajit Basu**, Srabona Dutta, Monosiz Rahaman, Anirbandeep Bose, Sourav Das, Jigna Prajapati, Bhupendra Prajapati. The future of cystic fibrosis care: exploring AI's impact on detection and therapy. *Current Respiratory Medicine Review*. Bentham Sciences, Accepted.
42. **Biswajit Basu**, Kevinkumar Garala, Rajeshri Patel, Ayon Dutta, Dipanjana Ash, Bhupendra Prajapati, Sudarshan Singh, Sajal Kumar Jha. Advanced Targeted Drug Delivery of Bioactive Nanomaterials in the Management of Cancer. *Current Medicinal Chemistry*, Bentham Sciences, Accepted.
43. Dipanjan Karati, Swarupananda Mukherjee, **Biswajit Basu**, KevinKumar Garala, Ayon Dutta, Bhupendra G. Prajapati and Sankha Bhattacharya. Unlocking the Potential of RNA Nanoparticles: A Breakthrough Approach to Overcoming Challenges in Colon Cancer Treatment. *Current Pharmaceutical Biotechnology*, Bentham Sciences, Accepted.
44. **Biswajit Basu**, Ayon Dutta, Dipanjana Ash, Kevinkumar Garala, Sudarshan Singh and Bhupendra G Prajapati. Recent Advancements in the Diagnosis and Management of Cancer Using Biomaterials-Fabricated Nanofibers: A Review. *Current Medicinal Chemistry*. Bentham Sciences, Accepted.
45. Dipanjan Karati, Swarupananda Mukherjee, Ayon Dutta, Dipanjana Ash, Shayeri Chatterjee Ganguly, Apurbaa Acharya and **Biswajit Basu**. Smart Multifunctional Nanoparticles in Cancer Theranostics: Progress and Prospect. *Pharmaceutical Nanotechnology*, Bentham Sciences, Accepted.
46. Swarnali Dutta, **Biswajit Basu**. QbD approach for developing Fast-dissolving Tablets containing Loperamide hydrochloride using Super Disintegrant Blends and Subliming Materials. *Research Journal of Pharmacy and Technology*, 2024, 17(4): 1632-40.
47. **Biswajit Basu**, Ayon Dutta, Dipanjana Ash, Kevinkumar Garala, Sudarshan Singh, and Bhupendra G Prajapati. Recent Advancements in the Diagnosis and Management of Cancer Using Biomaterials-Fabricated Nanofibers: A Review. *Current Medicinal Chemistry*. Bentham Sciences, Accepted.
48. **Biswajit Basu**, Ayon Dutta, Dipanjana Ash and Bhupendra Prajapati. Nanoemulsions in Skin Cancer Therapy: A Promising Frontier. *Current Pharmaceutical Biotechnology*, Bentham Sciences, July 2024, Accepted.
49. **Biswajit Basu**, Ayon Dutta, Dipanjana Ash, Ashish J. Rathod, Bhupendra G. Prajapati,* and Swarupananda Mukherjee. Modified Release Interpenetrating Polymeric Network

Hydrogel Beads of Montelukast Sodium Via Box Behnken Design. Current Drug Therapy, Bentham Sciences, September 2024, Accepted.

50. Sourav Ghosh, Sejuti Ray Chowdhury, Monosiz Rahaman, **Biswajit Basu** and Bhupendra Prajapati. Revolutionizing Influenza Treatment: A Deep Dive into Targeted Drug Delivery Systems. Current Pharmaceutical Biotechnology, October 2024, Accepted.
51. Ayan Chatterjee, Parna Chatterjee, Rukshana Irani, Sourav Ghosh, **Biswajit Basu**, Bhupendra Prajapati. Impact of Polyphenol-Rich Chocolate on Human Health: A Review.
52. Sourav Ghosh, Srabona Dutta, Biswajit Basu and Bhupendra G. Prajapati. Bio-based Polymers and Microcarriers Improve Stability and Efficacy of Essential Oils. Current Bioactive Compounds, Bentham Sciences.

BOOK CHAPTERS AUTHORED:

Sl. No.	Book title	Chapter Name	Publisher	Authors	Year
1	Therapeutics platform of Bioactive Lipids – Focus on Cancer	Bioactive lipids for the treatment of cancer	Apple Academic Press (AAP), CRC Press, A Taylor & Francis Group	Biswajit Basu, Tiyas Pal, Swarupananda Mukherjee, Bhupendra G Prajapati	2022
2	Therapeutic Drug Monitoring (TDM) in Alternative Biological Matrices	Therapeutic Drug Monitoring (TDM) & Toxicological Studies In Alternative Biological Matrices	Springer	Biswajit Basu, Bhupendra G. Prajapati, Swarupananda Mukherjee, Tapas Kumar Roy, Arnab Roy, Chowdhury Mobaswar Hossain	2022
3	Green Sustainable Process for Chemical and Environmental Engineering and Science: <i>Recent Advances in Nanocarriers</i>	Methods for nanoencapsulation	Elsevier	Bhupendra G. Prajapati, Biswajit Basu, Prakash Kendre, Swarupananda Mukherjee, Sudarshan Singh, Sankha Bhattacharya, Tiyas Pal, Moumita Kundu, Vipul D Prajapati	2023
4	PVC-based blends, IPNs, and Gels	PVC/Polyolefins blends, IPNs, and Gels	Elsevier	Prakash Kendre, Biswajit Basu, Bhupendra G. Prajapati, Swarupananda Mukherjee, Tiyas Pal, Himanshu Paliwal, Vipul Prajapati	2023
5		Dendrimer – A		Biswajit Basu, Ayon Dutta,	2023

		lipid-based drug delivery system	Jenny Stanford Publishing Pvt. Ltd.	Dipanjana Ash, Bhupendra G Prajapati	
6	Lipid-based drug delivery system	Ethosomes – A lipid-based drug delivery system		Biswajit Basu, Raja Majumder, Ayon Dutta, Bhupendra G Prajapati	
7		Role of lipids in ocular drug delivery system		Kevinkumar Garala, Biswajit Basu, Bhupendra G Prajapati	
8		Role of lipids in pulmonary drug delivery system		Kevinkumar Garala, Rachana Joshi, Biswajit Basu, Bhupendra G Prajapati	
9		Edge-AI in Healthcare: Trends and Future Perspectives	The prospective role of artificial intelligence in the development dynamic of healthcare sectors	CRC Press, Taylor & Francis Group	Biswajit Basu, Bhupendra G Prajapati, Ayon Dutta, & Jigna B. Prajapati
10	Human Machine Interface: Making Digital Healthcare	Role of HMI in the drug manufacturing process	Wiley	Biswajit Basu, Kevinkumar Garala, Bhupendra G Prajapati	2023
11	Colorectal Cancer Disease and Advanced Drug Delivery Strategies	Micro and nanoemulsions in colorectal cancer	Elsevier Academic Press	Biswajit Basu, Kevinkumar Garala, Ayon Dutta, Rachana Joshi, Bhupendra G. Prajapati, Swarupananda Mukherjee, Dipanjan Karati, Sudarshan Singh and Himanshu Paliwal	2023
12	Colorectal Cancer Disease and Advanced Drug Delivery Strategies	Novel targeting formulations in colorectal cancer	Elsevier Academic Press	Akshay Parihar, Vijay R Chidrawar, Biswajit Basu, Swati Pal, Prashant R Pingale, Sudarshan Singh, Himanshu Paliwal, Bhupendra G. Prajapati	2023
13	Malarial Drug Delivery Systems	Polymeric nanoparticles in malaria	Springer	Himanshu Paliwal, Bhupendra Prajapati, Akshay Parihar, Geeta K. Patel, Prakash Kendre, Biswajit Basu, Jayvadan K. Patel	2023
14	Processed excipients in advanced drug delivery	Advanced Targeted Drug Delivery of Bioactive Fortified with Processed Excipients in Management of	Apple Academic Press (AAP), CRC Press, A Taylor & Francis Group	Biswajit Basu, Ayon Dutta, Dipanjana Ash, Bhupendra G. Prajapati, Sudarshan Singh,	2023

		Cancer			
15	Processed excipients in advanced drug delivery	Processed excipients in the fabrication of parenteral pharmaceuticals	Apple Academic Press (AAP), CRC Press, A Taylor & Francis Group	Biswajit Basu, Swarupananda Mukherjee, Ayon Dutta, Dipanjana Ash, Bhupendra G. Prajapati, Sudarshan Singh,	2023

IPR & PATENT:

Sl. No.	Name	IPR/Patent	Details
1	Dr. Gayatri R. Katole, Dr. Biswajit Basu , Mr. Neeraj Bhandari, Dr. Sonam Kaushal, Dr. Khan Majid Shabbir, Dr. G. Dharma Moorthy, Dr. Rajkumari Thagele, Dr. Sameer H Lakade, Miss. Jhama Lhamo, Mrs. Manpreet Kaur Walia	“Microreactor for nanoparticle synthesis” UK Design Patent Design number: 6281510 Registration date: 10/05/2023 Grant date: 20/05/2023	International Design Classification: Version: 14-2023 Class: 24 Medical & Laboratory Equipment Subclass: 01 Apparatus & Equipment for doctors, Hospitals & Laboratories.
2	Dr. Sameer H Lakade, Dr. Biswajit Basu , Dr. Shehla Nasar Mir Najib Ullah, Dr. Maitreyi N Zaveri, Mrs. Jeslin Devadhas, Dr. Sonanki Keshri, Mr. Syed Ansar Ahmed, Miss. Jhama Lhamo, Mr. Ashish Vishnukant Yachawad	“Machine For Production of Cancer Vaccine” UK Design Patent Design number: 6284823 Registration date: 22/05/2023 Grant date: 05/06/2023	International Design Classification: Version: 14-2023 Class: 24 Medical & Laboratory Equipment Subclass: 01 Apparatus & Equipment for doctors, Hospitals & Laboratories.
3	Dr. Swarupananda Mukherjee, Ms. Tilottama Mukherjee, Dr. Biswajit Basu , Dr. Partha Niyogi, Ayon Dutta, Dipanjana Ash, Avinaba Das	“Portable 3D Printer for Development of Nanofibers” Indian Design Patent Design Number – 386061-001	Design Application Details: Application Number: 386061-001 Cbr Number: 205897 Cbr Date: 11/05/2023
4	Debasmita Das, Dr. Biswajit Basu , Jyotirmoy Das, Charan Singh, Heena Farooqui, Dr. Sudipta Das, Himangi Vig	“Smart hand-operated tablet coating machine” Indian Design Patent Design Number – 388886-001	Design Application Details: Application Number: 388886-001 Cbr Number: 207809 Cbr Date: 22/06/2023
5	Dr. Biswajit Basu , Mrs. Moushumi Baidya, Dr. Sunkara Murali Krishna, Dr. Rekha Bisht,	“Spirometer for measurement of lung capacity”	International Design Classification: Version: 14-2023

	Dr. Muzaffar Ahmed Farooqui, Mr. Ashok Kumar, Miss Ankita Porey, Mr. Souvik Kundu, Mr. Rahul Patra, Mrs. Devlina Pal	UK Design Patent Design number: 6297186 Grant date: 26 July 2023 Registration date: 18 July 2023	Class: 24 Medical & Laboratory Equipment Subclass: 01 Apparatus & Equipment for doctors, Hospitals & Laboratories.
6	Dr. Nagaraju Potnuri, Dr. Biswajit Basu , Dr. Shaheena Sohi, Dr. Mamta Shukla, Mrs. Simi Puthenpurayil Thomas, Miss. Telang Priyanka Uttamrao, Dr. Pankaj Mohan Pimpalshende, Dr. Vivek Bhagwanrao Panchabhai, Mrs. Ekta Khare, Mr. Bhupinder Bhyan	“Sensor-Based Early Diabetes Detection Device” UK Design Patent Design number: 6295562 Grant date: 09 October 2023 Registration date: 10 July 2023	International Design Classification: Version: 14-2023 Class: 24 Medical & Laboratory Equipment Subclass: 01 Apparatus & Equipment for doctors, Hospitals & Laboratories.
7	Dr. Biswajit Basu , Dr. Sudhir Pandya, Miss Nida Afzal Ahmed, Mr. Jithin Mathew, Mr. Pravin Tryambak Netkar, Dr. Shahzad Ahmed Abdul Razzaque Ansari, Mrs. Priyanka Sukdev Pagare, Dr. Shakeeb Akhtar Nehal Ahmad, Miss Sapana Shyamlal Chaudhary, Dr. Sunkara Murali Krishna	“Portable Device Used for Measurement of HLB Value of Surfactants” UK Design Patent Design number: 6333123 Grant date: 22 December 2023 Registration date: 14 December 2023	International Design Classification: Version: 14-2023 Class: 10 Clocks & Watches & Other Measuring Instruments, checking & signaling instruments Subclass: 04 Other Measuring Instruments, Apparatus and Devices

EDUCATIONAL ACTIVITIES:

1. As a delegate in APTI 11th Annual Convention, 2006, Bangalore.
2. As a delegate in “Seminar on Recent Advances in Spectroscopic Techniques”, K.L.E Society’s College of Pharmacy, Hubli, 25th& 26th August 2007.
3. Presented a paper in IPC, New Delhi, 12th-14th December 2008. “Formulation and Evaluation of Pimozide Buccal Mucoadhesive Patches”.
4. As a delegate in “Nanotechnology: Challenges and Opportunities”, Virani Science College, Rajkot, December 2009.
5. As a delegate in national level seminar on ‘Emerging trends in medicinal plant-based pharmaceuticals’ Atmiya Institute of Pharmacy, Rajkot, 29th February & 1st March 2008.
6. Paper presented on IPC, Nirma University, Ahmedabad, 2009 – “Thermoreversible In-situ Gel for Intranasal Drug Delivery of Ondansetron Hydrochloride: Preparation and Evaluation”. Faldu H, Joshi B, Basu B, Ravi B.
7. As a delegate in “National Seminar on Advances, Challenges & Opportunities in Pharmaceutical Sciences”, Atmiya Institute of Pharmacy, Rajkot, 24th October 2010.
8. As a delegate in IPC, Manipal University, Manipal, 17th-19th December 2010.
9. As a delegate in “Importance and Application of Formulation Approaches for Dosage Form Development”, Dept. of Pharmaceutical Sciences, Saurashtra University, Rajkot, 11th& 12th February 2011.
10. As a delegate in “Drug Development and Evaluation: PK-PD Perspective”, Nirma University, Ahmedabad, 11th March 2011.

11. As a delegate in AICTE sponsored “Two week’s staff development program on Recent Advances in Drug Delivery and Technology” S. K. Patel College of Pharmaceutical Education and Research” Ganpat University, 1st to 14th July 2011.
12. As an active participant to the National Level, 5-day Short-term Training Program (STTP) on “Achieving Teaching Excellence” organized by Atmiya Institute of Technology and Science, Rajkot. 19th – 23rd December, 2012.
13. 2012-Participated FDP on ‘Technology in Teaching’ on 16 Feb. 2012 organized by Shree M. & N. Virani Science College, Rajkot.
14. 2012-Participated FDP on ‘Smart tips to use Smart Board’ on 9 March 2012 organized by Shree M. & N. Virani Science College, Rajkot.
15. As a delegate in “DST sponsored one day National Seminar on Strategic IPR and Patent Management for Academic Drug Research” organized by B. K. Modi Govt. Pharmacy College, Rajkot on 9th February, 2013.
16. Paper presented on “2ndInternational Conference on Emerging Trends in Research and Development” Theme: Innovative Challenges in Pharmaceutical Research, organized by Shree Dhanvantary Pharmacy College, Kim, Surat, Gujarat on 30th-31st March, 2013. Topic - Design and Evaluation of 5-Fluorourasil Loaded Solid Lipid Nanoparticles by High Shear Hot Homogenization Followed by Ultrasonication.
17. Research paper presented on DBT sponsored national level symposium ‘ATMIYA SCITECH UTSAV – 2014’, organized by Shree M. & N. Virani Science College, Rajkot on 15th& 16th February, 2014, on the theme of Current trends in drug discovery.
18. As a delegate on GUJCOST sponsored one day national seminar on “Challenges and Opportunities on Nanotechnology based Drug Delivery System” organized by Dept. of Pharmaceutical Sciences, Saurashtra University, Rajkot on 21st February, 2015.
19. Paper presented in 1st International conference on “Research & Entrepreneurship”, organized by R. K. University, Rajkot on Jan 5th and Jan 6th, 2016. Topic name – Formulation and Evaluation of Floating In-Situ Gel Forming System for Sustained Delivery of Tolterodine Tartrate.
20. Participated in DBT sponsored Faculty Development Program (FDP) on “Advanced Molecular Instruments” organized by Shree M. & N. Virani Science College, Rajkot on 10th December 2015.
21. Participated in 5th International Conference on “Human Values in Higher Education” organized by ATMIYA Group of Institutions – Rajkot during 8-10th January, 2016.
22. Participated in ICMR sponsored national level workshop on “Advanced Instrumental Techniques in Herbal Drug Research” held on April 28-29, 2017 organized by Atmiya Institute of Pharmacy & Shree M. & N. Virani Science College, Rajkot.
23. Participated in UGC-SAP Sponsored 5-Days National Level Workshop on “Frontiers of NMR Spectroscopy and MRI” from 25th to 29th September 2017 at Department of Chemistry, Saurashtra University, Rajkot, Gujarat.
24. Participated in national level seminar on “Recent Advances in Pharmaceutical Science & Research” held on April 27, 2018 organized by Bengal College of Pharmaceutical Sciences & Research, Durgapur.

25. Participated in A Two Days International Conference On “Key Concerns and Considerations in Pharmaceutical Sciences and Technology: South-East Asian Perspective” held on February 04-05, 2019 organized by Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur, West Bengal.
26. Participated in 7 days Faculty Development Program for Student Induction (FDP-SI) during 23-29 July 2019 at Shri Venkateshwara College of Engineering, Bangalore organized by All India Council for Technical Education.
27. Participated in AICTE Sponsored 2 weeks of Faculty Development Program entitled “Novel Paradigms in Drug Discovery From Natural Sources” held at S. K. Patel College of Pharmaceutical Education and Research” Ganpat University, Gujarat from 18th November 2019 to 1st December 2019.
28. Participated in the DST-STUTI sponsored national level training program on “Advanced analytical and imaging techniques” organized by Dept. of Zoology and sophisticated analytical instrument facility (DST-SAIF), North-Eastern Hill University (NEHU), Shillong in collaboration with JSS Academy of Higher Education and Research, Mysuru, from 1st to 7th November, 2022.
29. Participated in National Workshop on “Unravelling the path from Protein Targets to Drug Development: Exploring Computational Biology” organized by Department of Pharmaceutical Technology, School of Health and Medical Sciences, Adamas University, Kolkata on 28th September 2023 to 1st October 2023.
30. Presented a research paper in International Conference on Materials for Sustainable Energy, Environment and Health (ICMSEEH - 23) at Pandit Deendayal Energy University, Gandhinagar, Ahmedabad on 08-09 December, 2023.
31. Participated in national conference on “Healthcare: A Global Transformation From Traditional To Modern Era” “BT-PHARMACON-2K23”, held on 12th & 13th October, 2023 organized by Bharat Technology.

EXPERT LECTURE/ RESOURCE PERSON:

- Resource person in DBT sponsored workshop on “**Formulation of Tablet and Cosmetics**” in Shree M. & N. Virani Science College, Rajkot held from 17th – 19th November, 2014.
- Delivered a lecture on ‘**Cancer Biology**’, in GSBTM (Gujrat State Biotechnology Mission), Govt. of Gujrat, sponsored Crash Workshop (8 days) for national level competition for JNU combined entrance examination of M.Sc. biotechnology, organized by Shree M. & N. Virani Science College, Rajkot held between 25th April to 2nd May 2015.
- **Resource person in GSBTM** (Gujrat State Biotechnology Mission), Govt. of Gujrat, sponsored second Crash Workshop (8 days) for national level competition for JNU combined entrance examination of M.Sc. biotechnology, organized by Shree M. & N. Virani Science College, Rajkot held between 23rd April to 30th April 2016.
- **Resource person in GSBTM** (Gujrat State Biotechnology Mission), Govt. of Gujrat, sponsored Crash Workshop (8 days) for national level competition for JNU combined

entrance examination of M.Sc. biotechnology third year students, organized by Shree M. & N. Virani Science College, Rajkot held between 1st April to 8th April 2017.

- **Resource person in GSBTM** (Gujrat State Biotechnology Mission), Govt. of Gujrat, sponsored Crash Workshop (8 days) for national level competition for JNU combined entrance examination of M.Sc. biotechnology third-year students, organized by Shree M. & N. Virani Science College, Rajkot held between 27th November to 4th December 2017.

BOOKS AUTHORED:

- Formulation and Evaluation of Pimozide Buccal Mucoadhesive Patches. Lambert Academic Publishing, Germany, ISBN: 978-3-659-25111-5.
- Development of Mouth Dissolving Tablets Prednisolone Mouth Dissolving Tablets. Lambert Academic Publishing, Germany, ISBN: 978-3-659-88748-2.

Post Graduate (M. Pharm.) Thesis Supervision

Sr. No.	Name of students	Title of Thesis	Doctorate /Masters	Year of Completion
1	Vipul Vora	Formulation and characterization of novel floating in-situ gelling system for controlled delivery of ramipril	Masters	2012
2	Ankita Mori	Development and Characterization of Terbutaline Sulphate Microsponge and Its Colonic Delivery by Compression Coated Tablets	Masters	2012
3	Paresh Desai	Design and Evaluation of Fast Dissolving Film of Domperidone	Masters	2012
4	BhavishaRabadiya	Design and Development of Interpenetrating Polymeric Network Hydrogel Beads as Delivery Carrier for Modified Release of Simvastatin	Masters	2012
5	Mankad Ankur	Design and Evaluation of Mouth Dissolving Film of Methylphenidate Hydrochloride	Masters	2013
6	Rathod Ashish	Preparation and characterization of swellable polymer based Interpenetrating Polymeric Network (IPN) hydrogel beads for modified release of Montelukast sodium	Masters	2013
7	Fultariya Dipak	Formulation and Evaluation of Floating Matrix Tablet of Captopril and Losartan Potassium for Treatment of Hypertension	Masters	2013
8	Aviya Ketan kumar	Development and Characterization of Mouth Dissolving Tablets of Prednisolone	Masters	2013
9	Birju Bagthalia	Development of Fixed-Dose Combination of Praziquantel and Cimetidine by preparing colon targeted matrix tablet	Masters	2014
10	Riddhi Bhalodia	Assessment of the Paroxetine hydrochloride Coadministration on the Pharmacokinetic	Masters	2014

		Properties of Carvedilol		
11	Anil Kathiriya	Formulation and Evaluation of Floating In Situ Gel Forming System for Sustained Delivery of Tolterodine Tartrate	Masters	2014
12	Bansari Joshi	Development of Co-Processes Excipients For Fast Dissolving Tablets of Carvedilol By Multivariate Analysis and QBD	Masters	2017
13	Pritha Manna	Design and Evaluation of Co-Processed Excipients As A Directly Compressible Vehicle In Tablet By Qbd Approach	Masters	2020
14	Ranashree Halder	Quality By Design (Qbd) Approach For Developing Agglomerates Containing Racecadotril By Crystallo-Co-Agglomeration (CCA) Technique	Masters	2020
15	Subharun Shit	Formulation and Evaluation of Fast-Dissolving Films of Tadalafil	Masters	2020
16	Pradyumna Ghosh	Crystal Modification of Loperamide By Crystallo-Co-Agglomeration (CCA) to Improve Micromeritics, Compressibility, and Solubility Characteristics	Masters	2020
17	Arijit Chowdhury	Formulation and development of chlorthalidone-loaded self-nanoemulsifying drug delivery system	Masters	2021
18	Madhumita Mondal	Design and evaluation of floatable oral in situ gel of enalapril maleate with combination of furosemide	Masters	2021
19	Monoswita Das	Design and Evaluation of Emulgel Containing Fluconazole and Mometasone Furoate for Simultaneous Drug Delivery	Masters	2021
20	Enayet Hossain	Formulation & Development of Chlorthalidone-Loaded Self-Micro Emulsifying Drug Delivery System	Masters	2022
21	Hironmoy Malik	Design And Evaluation of Emulgel Containing Fluconazole and Mometasone Furoate For Simultaneous Drug Delivery	Masters	2022
22	Jayanta Neogi	Design And Evaluation of Floatable Oral In Situ Gel of Enalapril Maleate With Combination of Furosemide	Masters	2022
23	Koustav Dutta	Posaconazole-chitosan Film: A Novel Approach for Delivering Posaconazole in the Management of Aspergillosis.	Masters	2024
24	Preetkumar Dubey	Microsphere-Based Drug Delivery System for Antitubercular Drugs	Masters	2024
25	Shyam Sundar Dey	Development And Evaluation of Transdermal Patch of Metformin Hydrochloride with Neem Oil	Masters	2024
26	Sutirtha Ghosh	Formulation and Development of Anti-Psoriatic Bi Gel Containing <i>Lantana Camara</i>	Masters	2024

27	Swapnanil Chakrabarty	"Evaluation of Bi-Phasic Gel for Diabetic Wound Healing Using <i>Diplazium esculentum</i> (Fiddlehead Ferns) Extract"	Masters	2024
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Other academic and corporate activities:

- 1) I am also thoroughly engaged in various activities viz; managing sessional examination board, sports activities at college levels, MOOCs activities, mentoring students of both UG and PG, research activities for UG and PG students, documentation for the various regulatory bodies including AICTE, PCI, NAAC, NBA, and Adamas University, Kolkata.

Additional relevant information which I would like to mention in support of my suitability for the post:

In the future, I am planning my academic career in terms of researching new and innovative dosage forms for the currently available drug molecules which can provide better patient compliance with improved efficacy by using nanotechnology. In the future, I plan to file process as well as product patents for the newly discovered formulations from my research work.

As per the eligibility criteria of the post I have applied for I have completed my Doctorate with a good track record. I also possess 53 total research publications that advocate my thrust toward research, of which the majority are based on nanotechnology. All in one it will provide a gorgeous opening to young high-fliers like me for emerging independent scientific and fulfilling long-term careers in the field of pharmacy.

REFERENCES:

1. Prof. (Dr.) Bhupendra G Prajapati. Professor, Shree S. K. Patel College of Pharmaceutical Education and Research, Ganpat University, Mehsana, Gujarat-384012, India. Ph: +91 9429225025. E-mail – bhupendra.prajapati@guni.ac.in
2. Dr. J. Thimmasetty, Professor & HOD, Bapuji Pharmacy College, Davangere, Karnataka, India. Ph: +91 9844428797, +919844777510. E-mail – thimmasetty@yahoo.com.
3. Dr. H. M. Tank. Principal, Atmiya Institute of Pharmacy, Rajkot, Gujarat. Ph: +919825992827, Res – 02812584869. E-mail – drtankhemraj@gmail.com.
4. Dr. Swarupananda Mukherjee. Asst. Prof. NSHM Knowledge Campus, Kolkata – Groups of Institutions. 124 B L Saha Road, Kolkata – 700053. Mob – 9051164251. E-mail – swarupananda.mukherjee@nshm.com.
5. Dr. Moinuddin M Soniwala, Associate Prof., B. K. Mody Govt. Pharmacy College, Rajkot, Gujarat. Ph: +919099042208, +919427692569. E-mail - moinhani@gmail.com.
6. Dr. A. B. Patel. Associate Professor. B. K. Mody Govt. Pharmacy College, Rajkot, Gujarat. Ph: +9194260 47024. E-mail: ashokpatel_pharmacy@rediffmail.com.

PERSONAL PROFILE:

NAME	Dr. Biswajit Basu
FATHER'S NAME	Late Sankar Bhusan Basu
DATE OF BIRTH	15th January 1983

E-MAIL ID	bbasu.pharma@gmail.com biswajit.basu1@adamasuniversity.ac.in
SEX	Male
BLOOD GROUP	B+
NATIONALITY	Indian
PASSPORT NO.	K1992022
LANGUAGES KNOWN	English, Hindi, Bengali (Speak, Write & Read)
ADDRESS	Vill + P.O - Harishnagar, P.S - Singur, Dist - Hooghly, Pin - 712409, West Bengal, India.

STATEMENT OF PURPOSE:

I have been consistent in my career objectives. My experience of studies has given me the confidence to become accustomed to myself as a responsible person and to complete the work on time.

I believe that your institution will provide me with the opportunities to develop further the knowledge needed for tomorrow's future.

Place: **Singur**
Date: **14/01/2025**

Dr. Biswajit Basu
M. Pharm., Ph.D.