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Resesarch gate: [https://www.researchgate.net/profile/Sanjay\\_Dey5](https://www.researchgate.net/profile/Sanjay_Dey5)

**Timeline**

- Currently, working as **Associate Dean** in Department of Pharmaceutical Technology, Adamas University, Barasat, Kolkata.
- **Academic experience:** More than *sixteen years* in Pharmacy at both Bachelor and Master degree level.
- **Industrial experience** of *three years one month* in Cipla and Dabur Pharma Ltd at Technology Transfer Department and Product Development Laboratory.
- Publication in peer review journal/book chapter:  
*Research article:* 35  
*Review article:* 08  
*Book chapter:* 08  
*Conference/seminar presentation:* 21
- *Secured 95.13 percentile in GATE-2005.*

**MAILING DETAILS**

S/o Mr. Shiba Ram Dey

Tarakeswar Thana Road, Tarakeswar, Hooghly-712 410, West Bengal, India

**CAREER OBJECTIVE**

To contribute my level best to the success of the organization/institution, evolve into a hardworking and sincere professional and at the same time enhance my knowledge and develop my communication, managarial and interpersonal skills.

**AREA OF RESEARCH INTEREST**

- Conventional drug delivery system
- Novel drug delivery system especially nanoparticles
- Analytical method development

**LIST OF PUBLICATION****Research article**

1. Saha SK, **Dey S**, De S. Simultaneous determination of atorvastatin and atenolol in rabbit plasma by RP-HPLC method and its application in pharmacokinetic study. **International Journal of Current Pharmaceutical Research**. 2022; 14(2): 72-78.
2. De S, Kumar ASK, Shah SK, Kazi S, Sarkar N, Banerjee S, Dey S. Pyridine: the scaffolds with significant clinical diversity. **RSC Adv**. 2022; 12: 15385-15406.
3. Kar AK, Shil A, Kar B. **Dey S**. Formulation development and statistical optimization of zingiberol incorporated sodium alginate-methyl cellulose blend microspheres. **Int. J. Biolog. Macro.** 2020. doi: <https://doi.org/10.1016/j.ijbiomac.2020.07.233>.
4. Majumdar S, **Dey S**, Ganguly D, Mazumder R. Enhanced topical permeability of natural flavonoid baicalein through nano liposomal gel: *In vitro* and *in vivo* investigation. **J Drug Deliv Sci Tech**. 2020; 57: 101666.

5. Bhattacharjee A, Das PJ, **Dey S**, Nayak AK, Roy PK, Chakrabarti S, Marbaniang D, Das SK, Ray S, Chattopadhyay P, Mazumder B. Development and optimization of besifloxacin hydrochloride loaded liposomal gel prepared by thin filmhydration method using  $3^2$  full factorial design. **Colloids Surf. A**. 2019. doi: <https://doi.org/10.1016/j.colsurfa.2019.124071>.
6. Krishnatreya H, **Dey S**, Pal P, Das PJ, VK Sharma, Mazumder B. Piroxicam Loaded Solid Lipid Nanoparticles (SLN): Potential for Topical Delivery. **Indian Journal of Pharmaceutical Education and Research**. 2019; 53(2): S82-S92.
7. Bhattacharjee A, Das PJ, **Dey S**, Nayak AK, Roy PK, Chakrabarti S, Marbaniang D, Das SK, Ray S, Chattopadhyay P, Mazumder B. Development and optimization of besifloxacin hydrochloride loaded liposomal gel prepared by thin filmhydration method using  $3^2$  full factorial design. **Colloids Surf. A**. 2019. doi: <https://doi.org/10.1016/j.colsurfa.2019.124071>.
8. Dasgupta S, Ray S, **Dey S**, Pal P, Mazumder B. Transdermal lipid nanocarriers: A potential delivery system for lornoxicam. **Pharmaceutical Nanotechnology**. 2017; 5: 1-15.
9. Dasgupta S, **Dey S**, Pal P, Mazumder B. RP-HPLC method development, validation, and quantification of lornoxicam in lipid nanoparticle formulations. **International Journal of Pharmacy and Pharmaceutical Sciences**. 2016; 8(11): 152-158.
10. **Dey S**, Mazumder B. Solid dispersions, inclusion complexes, and fast-release tablets of atorvastatin: Solid state characterization, dissolution behavior, and *in vivo* pharmacokinetic evaluation. **AISO Journal of Drug Delivery**. 2015; 1(1): 44-55.
11. **Dey S**, Mazumder B, Chattopadhyay S, Das MK, Sinha S, Ganguly S, De K, Mishra M. Polymers derived for *Xanthomonas campestris* and *Cyamopsis tetragonolobus* used as retardant materials for the formulation of sustained release floating matrix tablet of atenolol. **Int. J. Biolog. Macro**. 2014; 65: 346-356.
12. **Dey S**, Chattopadhyay S, Mazumder B. Formulation and evaluation of fixed-dose combination of bilayer gastroretentive matrix tablet containing atorvastatin as fast-release and atenolol as sustained-release. **BioMed Research International**. 2014. Article ID 396106, <http://dx.doi.org/10.1155/2014/396106>.
13. Malakar J, Datta PK, Das Purakayastha S, **Dey S**, Nayak AK. Floating capsules containing alginate-beads of salbutamol sulfate: *In Vitro-in vivo* evaluations. **Int. J Biolog. Macro**. 2014; 64: 181-189.
14. Nandy BC, Verma V, **Dey S**, Mazumder B. Three levels face centered central composite design for colon targeted microparticulates system of celecoxib: Screening of formulation variables and *in vivo* studies. **Current Drug Delivery**. 2014; 11(6): DOI. 10.2174/1567201811666140519161628.
15. Choudhury S, Dasgupta S, **Dey S**, Mazumder B. Topical delivery of aceclofenac as nanoemulsion comprising excipients having optimum emulsification capabilities: Preparation, characterization and *in vivo* evaluation. **Expert Opin. Drug. Deliv**. 2013.
16. Patel D, Dasgupta S, **Dey S**, Ramani R, Ray S, Mazumder B. Nanostructured lipid carriers (NLC) based gel for topical delivery of aceclofenac: Preparation,

- characterization and *in vivo* evaluation. **Scientia Pharmaceutica**. 2012; 80(3): 749-764.
17. **Dey S**, Mahanti B, Khila S, Mazumder B, Dasgupta S. Formulation development and optimization of bilayer tablets of aceclofenac. **Expert Opin. Drug. Deliv.** 2012; 1-7.
  18. **Dey S**, Datta S, Mazumder B. Formulation and evaluation of floating matrix tablet of atenolol for gastro-retentive drug delivery. **International Journal of Pharmacy and Pharmaceutical Sciences**. 2012; 4(suppl 3): 432-437.
  19. **Dey S**, Sarkar S, Malakar J, Ghosh A, Gangopadhyay A, Mazumder B. Spectrophotometric method for simultaneous determination of atenolol and atorvastatin in tablet dosage forms. **Int. J Pharm Biomed Res**. 2012; 3(1): 40-43.
  20. **Dey S**, Mohanta BC, Dasgupta S, Mazumder B. Formulation and evaluation of gliclazide loaded controlled release microspheres. **Latin American Journal of Pharmacy**. 2011; 30(9): 1761-1766.
  21. **Dey S**, Pramanik S, Malgope A. Formulation and optimization of sustained release stavudine microspheres using response surface methodology. **ISRN Pharmaceutics**. 2011; Article ID 627623: 7
  22. **Dey S**, Mazumder B, Sarkar MK. Comparative study of stavudine microspheres prepared using ethylcellulose alone and in combination with eudragit RS100. **Malay J Pharm Sci**. 2010; 8(2): 25-43.
  23. Biswas N, **Dey S**, Agarwal S. Study of mucoadhesive microspheres of metoprolol tartarate based on crosslinked topica starch as new carrier for drug delivery. **Int. J. Contemporary Research & Review**. 2010; 01(04): 1-9.
  24. **Dey S**, Malgope A. Preparation of carvedilol transdermal patch and the effect of propylene glycol on permeation. **International Journal of Pharmacy & Pharmaceutical Sciences**. 2010; 2(suppl 1): 137-143.
  25. Mazumder B, Sarkar MK, **Dey S**, Roy N. Effect of formulation and process variables on the characteristics of microspheres of antiviral drug (stavudine) prepared by oil-in-oil solvent evaporation technique. **International Journal of Pharmacy and Pharmaceutical Sciences**. 2010; 2(2): 52-59.
  26. **Dey S**, Mazumder B, Patel J R. Enhanced percutaneous permeability of acyclovir by DMSO from topical gel formulation. **Int. J. Pharm Sci & Drug Res**. 2009; 1(1): 13-18.
  27. Mazmder B, Bhattacharya S, Mohanta B, **Dey S**, Maity A. Preparation and *in-vitro* evaluation of chlorpheniramine maleate loaded microspheres. **Int. J Pharma Tech Research**. 2009; 1(3): 905-913.
  28. Mazumder B, **Dey S**, Bhattacharya S, Sarkar S, Mohanta B. Studies on formulation and characterization of cellulose-based microspheres of chlorpheniramine maleate. **Arch Pharm Sci & Res**. 2009; 1 (1): 66-74.
  29. Roy S, Panpalia SG, Nandy BC, Rai VK, Tyagi LK, **Dey S**, Meena KC. Effect of method of preparation on chitosan microspheres of mefenamic acid. **Int. J. Pharm Sci & Drug Res**. 2009; 1(1): 36-42.

30. Rai V K, Pathak N, Bhaskar R, Nandy B C, **Dey S**, Tyagi L K. Optimization of Immediate Release Tablet of Raloxifene Hydrochloride by Wet Granulation Method. **Int. J. Pharm Sci& Drug Res.** 2009; 1(1): 51-54.
31. Mandoli DK, Tyagi PK, Rai VK, **Dey S**, Ashada RK, Mohanraj P. Method development and validation of RP-HPLC in the application of *in-vitro* dissolution study of lamivudine in bulk drug and tablet formulation. **Journal of Chemical and Pharmaceutical Research.** 2009; 1(1): 289-296.
32. Mandoli DK, Rai VK, **Dey S**, Tyagi PK, Ashada RK, Mohanraj P, Agarwal A. Method development and validation of RP-HPLC method in the detection of nevirapine in bulk drug and tablet formulation and application in *in-vitro* dissolution study. **Journal of Global Pharma Technology.** 2009; 1(1): 54-61.
33. Kumar M, Agarwal RC, **Dey S**, Rai VK, Johnson B. Antimicrobial activity of aqueous extract of *Terminalia chebula* Retz. on gram-positive and gram-negative organisms. **Int J Current Pharm Research.** 2009; 1(1): 56-60.
34. Appia KG, Rai VK, Nandy BC, Meena KC, **Dey S**, Tyagi PK, Tyagi LK. Hypoglycemic and hyperlipidemic effect of ethanolic extract of aerial parts of *Aervalanata* Linn. In normal and alloxan induced diabetic rats. **Int J Pharm Sci& Drug Research.** 2009; 1(3): 191-194.

#### **Review Article**

1. Gupta M, **Dey S**, Marbaniang D, Pal P, Ray S, Mazumder B. Grape seed extract: having a potential health benefits. *J Food Sci Technol.* 2019. doi.org/10.1007/s13197-019-04113-w.
2. Nayak AK, **Dey S**, Pal K, Banerjee I. Introphoretic drug delivery systems. *Bioelectronics and Medical Devices.* 2019. <https://doi.org/10.1016/B978-0-08-102420-1.00022-4>.
3. **Dey S**, Mahanti B, Mazumder B, Malgope A, Dasgupta S. Nasal drug delivery: an approach of drug delivery through nasal route. **Der Pharmacia Sinicia.** 2011; 2(3): 94-106.
4. Malakar J, Datta PK, **Dey S**, Gangopadhyay A, Nayak AK. Proniosomes: A preferable carrier for drug delivery system. **Elixir Pharmacy.** 2011; 40: 5120-5124.
5. Malgope A, **Dey S**. Improved ocular drug delivery: A prodrug approach. *International Journal of Pharmacogenesis.* 2011; 2(1):49-55.
6. Jha SK, **Dey S**, Karki R. Microemulsions: Potential carrier for improved drug delivery. **Asian Journal of Biomedical and Pharmaceutical Sciences.** 2011; 1(1):1-7.
7. Ghosh A, **Dey S**. Overview of Cleaning Validation in Pharmaceutical Industry. **Int. J. Pharm. Quality Assurance.** 2010; 2(2): 26-30.

<b>Book Chapter Published</b>
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1. Cross-linking of chitosan in drug delivery (Chapter 11) Sanjay Dey, Subhobrata Majumdar, Chitosan in Drug Delivery. CRC Press. 2022.
2. Graft copolymers of chitosan in drug delivery applications (Chapter 12). Md Saquib Hasnain, Sanjay Dey, Amit Kumar Nayak. Chitosan in Drug Delivery. CRC Press. 2022.
3. Chitosan nanocomposites for biomedical applications (Chapter 5). Sanjay Dey, Md

- Saquib Hasnain, Amit Kumar Nayak. Chitosan in Biomedical Applications. CRC Press. 2022.
4. Tamarind gum in drug delivery applications (Chapter: 12) **Sanjay Dey**, Bankim Chandra Nandy, Jayanta Narayan De, M. Saquib Hasnain, Amit Kumar Nayak. Natural Polysaccharides in Drug Delivery and Biomedical Applications. 2019. <https://doi.org/10.1016/B978-0-12-817055-7.00012-1>.
  5. Toxic Effects of Metal and Metal Oxide Nanoparticles on Human and Environment (Chapter: 12). **Sanjay Dey**, Bhaskar Mazumder, Supriya Datta. Nanotechnology: Therapeutic, Nutraceutical and Cosmetic Advances. CRC Press, 2019.
  6. Pharmacogenomics: Setting Newer Paradigms of Genetics in Therapy and Medicine (Chapter: 3) **Sanjay Dey**, Kumud Joshi, Bhaskar Mazumder. Genomics – Driven Healthcare: Trends in Disease Prevention and Treatment, Springer Nature, 2018.
  7. Lipid Nanoparticles for Topical Application of Drugs for Skin Diseases (Chapter: 13; Volume: 10), **Sanjay Dey**, Supriya Datta, Sandipan Dasupta, Bhaskar Mazumder, Yashwant Pathak. Nanobiomaterials in Galenic Formulations and Cosmetics: Applications of Nanobiomaterials. Alexandru Grumezescu, Elsevier (USA), 2016.
  8. Model for Risk Assessment of Nanoparticles (Chapter: 19), **Sanjay Dey**, Bhaskar Mazumder, Yaswant Pathak. Biointeractions of Nanomaterials. CRC Press, 2014.

#### **Papers/Abstracts Presented/Published in Conference/Seminars/Symposia**

- Maji S, **Dey S**, Nandy BC, Mohanti B. Nano-lipid Drug Conjugate. National Conference on ‘Collaborative Health Sciences: Visions for the Future’, 2019, Kolkata.
- Mondal PS, **Dey S**, Nandy BC, Mohanti B. Transfersomes: Promising Career for Transdermal Drug Delivery. National Conference on ‘Collaborative Health Sciences: Visions for the Future’, 2019, Kolkata.
- Dey K.K, Barman U, **Dey S**, Ghosh A. Potential of natural polymer as drug delivery carrier to the colon. National Seminar at Bengal College of Pharmaceutical Sciences and Research on ‘Pharmaceutical profession and research in India – present scenario and future perspectives’, 2014.
- Barman U, Dey K.K, **Dey S**, Ghosh A. Suitability of modified starch as drug delivery carrier. National Seminar at Bengal College of Pharmaceutical Sciences and Research on ‘Pharmaceutical profession and research in India – present scenario and future perspectives’, 2014.
- **Dey S**, Mazumder B, Malgope A, Yadav P. Enhanced percutaneous permeability of Acyclovir by DMSO across porcine skin. 60<sup>th</sup> Indian Pharmaceutical Congress, Delhi, 2008.
- Dutta D, **Dey S**, Ghosh A. Formulation and *in vitro* evaluation of gastroretentive matrix tablets of levofloxacin. 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012. (**RECEIVED YOUNG INNOVATIVE AWARDS FOR BEST POSTER**).
- Sen B, **Dey S**, Ghosh A. Formulation and *in vitro* evaluation of a bilayer matrix tablet containing glimepiride as immediate release and metformin hydrochloride as sustained

release, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.

- Kumar S, **Dey S**, Ghosh A. Preparation and *in vitro* characterization of mucoadhesive buccal patches of ondansetron hydrochloride, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Das S, **Dey S**, Ghosh A. Formulation development and *in vitro* evaluation of floating drug delivery systems of metoclopramide hydrochloride, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Tewari D, **Dey S**, Ghosh A. Preparation and *in vitro* characterization of gastroretentive floating microspheres of ofloxacin hydrochloride, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Ghosh R, **Dey S**, Ghosh A. Formulation and characterization of sustained release matrix tablet for gastric retention of ofloxacin, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Mukherjee K, **Dey S**, Ghosh A. Formulation and evaluation of oro dispersible tablets of ondansetron hydrochloride by direct compression using superdisintegrants, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Das K.K, **Dey S**, Ghosh A. Formulation and *in vitro* characterization of pimozebuccalmucoadhesive patches, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Dolui S, **Dey S**, Ghosh A. Preparation and *in vitro* evaluation of silymarin sustained release tablets prepared using hydrophilic natural gums, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Som S, **Dey S**, Ghosh A. Formulation and *in vitro* characterization of ethylcellulose sustained release matrix tablets of theophylline, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Chakraborty L, **Dey S**, Ghosh A. Formulation and *in vitro* evaluation of sustained release matrix tablets of theophylline using hydrophilic polymer as release retardant, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Sinha S, **Dey S**, Ghosh A. Development, characterization, *in vitro* and *ex vivo* evaluation of valsartan loaded solid lipid nanoparticles, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Sharma R.K, **Dey S**, Ghosh A. Preparation and evaluation of gastroretentive microparticulate system of amoxicillin, 1<sup>st</sup> International Seminar of International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Jha S.K, Karki R, Venkatesh D.P, Geethalakshami A, **Dey S**. Formulation and evaluation of Microemulsion drug delivery systems containing antiulcer drug, National Seminar on Pharmacovigilance for Assuring Drug Safety, Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, 2012.

- **Dey S**, Mazumder B, Sarkar S. Statistical evaluation of influence of xanthan gum and guar gum blends on atenolol release from floating matrix tablets, National Seminar on Pharmacovigilance for Assuring Drug Safety, Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, 2012.
- **Dey S**, Mazumder B. Formulation Development and Optimization of Bilayer Tablets of Metoprolol Succinate, National Seminar on Pharmacovigilance for Assuring Drug Safety, Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, 2012.
- **Dey S**, Sarkar S, Mazumder B. Ghosh A. Formulation and optimization of floating matrix tablet for gastric retention of atenolol, National seminar on 21<sup>st</sup> Century Quality Challenges in Pharma Formulation Sector, B.C.Roy College of Pharmacy, Durgapur, 2012.
- Choudhury S, **Dey S**, Dasgupta S, Patel D, Mazumder B. Design and development of gliclazide microspheres: *In vitro* and *in vivo* evaluation, National Seminar in Benaras Hindu University, Benaras, 2011.

#### ACADEMIC DETAILS

Degree	University	Year of passing	Marks	Division
<b>Ph.D</b>	Dibrugarh University	2013	<i>Awarded</i>	
<b>M. Pharm (Pharmaceutics)</b>	Dibrugarh University	2008	76.50%	First class
<b>B. Pharm</b>	Rajiv Gandhi University of Health Sciences	2004	68.40%	First class

#### TECHNICAL SKILL

##### Drug delivery:

- Formulation development of conventional and novel drug delivery system (especially nanoparticle)
- Evaluation of different physicochemical characteristics of developed formulation.
- Determination of different pharmacokinetic properties formulation.
- Investigation of targeting potential of formulation to the site of action through radiolabeling.
- Optimization of formulation by applying different statistical design.
- Determination of confidence limit for bioequivalence study.

##### Analytical:

- Analytical method development for the quantification of drug in plasma or in release medium.
- Analytical method validation as per ICH guidelines.

##### API:

- Synthesis, isolation, and purification of taxol derivatives.



## PROFESSIONAL EXPERIENCE

### **Industry:**

<b>Name of the Company</b>	<b>From</b>	<b>To</b>	<b>Designation</b>
Dabur Pharma Ltd. Kalyani, West-Bengal	19 <sup>th</sup> Feb, 2004	04 <sup>th</sup> Oct, 2006	Sr. Officer (PDL)
Cipla Ltd. Patalganga, Mumbai	01 <sup>st</sup> Dec, 2008	28 <sup>th</sup> April, 2009	Trainee (Tech. Transfer)

### **Academic:**

<b>Name of the Institution</b>	<b>From</b>	<b>To</b>	<b>Designation</b>
Department of Pharmaceutical Technology, Adamas University	01 <sup>st</sup> January, 2025	Till date	Associate Dean
Department of Pharmaceutical Technology, Adamas University	23 <sup>rd</sup> September, 2024	31 <sup>st</sup> December, 2024	Professor
DmbH Institute of Medical Sciences	26 <sup>th</sup> June, 2023	13 <sup>th</sup> September, 2024	Principal
Department of Pharmaceutical Technology, Adamas University	13 <sup>th</sup> February, 2023	31 <sup>st</sup> May, 2023	Professor
Department of Pharmaceutical Technology, Adamas University	17 <sup>th</sup> September, 2022	12 <sup>th</sup> February, 2023	Professor & HoD
Department of Pharmaceutical Technology, Adamas University	05 <sup>th</sup> July, 2021	16 <sup>th</sup> September, 2022	Associate Professor & HoD
Department of Pharmaceutical Technology, Adamas University	18 <sup>th</sup> March, 2021	04 <sup>th</sup> July, 2021	Associate Professor
Calcutta Institute of Pharmaceutical Technology and AHS	01 <sup>st</sup> August, 2019	17 <sup>th</sup> March, 2021	Associate Professor
School of Pharmacy, Techno India University, Kolkata	17 <sup>th</sup> May, 2019	30 <sup>th</sup> July, 2019	Associate Professor
School of Pharmacy, Techno India University, Kolkata	12 <sup>th</sup> September 2016	16 <sup>th</sup> May, 2019	Assistant Professor
Bengal College of Pharmaceutical Sciences and Research, Durgapur	15 <sup>th</sup> February 2011	09 <sup>th</sup> September 2016	Assistant Professor
Shri RNS College of Pharmacy, Gormi, Bhind, M.P.	25 <sup>th</sup> May 2009	31 <sup>st</sup> January 2011	Assistant Professor

## APPLICATION OF SOFTWARE

- MS Office
- Design Expert 8.0.3. software (Stat-Ease Inc., USA)
- SPSS 9.0 (SPSS Inc., IL, USA)
- MINITAB 14 (Minitab Inc., USA)
- STATISTICA 7.0 (STATSOFT Inc. OK, USA)



## PROFESSIONAL RECOGNITION, AWARDS & FELLOWSHIP

### Professional recognition:

- Advisory Board Member: Journal of Biomedical and Pharmaceutical Research, Journal of Drug Discovery and Therapeutics
- Associate Editor: Journal of Fundamental Pharmaceutical Research
- Reviewer: AAPS PhrmaSciTech, British Journal of Pharmaceutical Research, Cellulose Chemistry and Technology, International Journal for Pharmaceutical Research Scholar, Journal of Pharmacy Research
- Life Time Member: Association of Pharmaceutical Teachers in India (APTI)

### Awards:

- Young Innovative Award: Poster Presentation, International Conference on Innovative Pharmacy and Pharmaceutical Sciences, Bhopal, 2012.
- Entrepreneurship Week – India 2014, Premier Award: Certificate of achievement; National Entrepreneurship Network (NEN)
- Entrepreneurship Education: Award certificate by National Entrepreneurship Network (NEN)

### Fellowship:

- Junior Research Fellowship: MHRD, New Delhi during two years Master of Pharmacy course.

## RESEARCH EXPERIENCE

- ❖ **Doctoral Research (December 2009 – January 2014)**
- **Title of the project: Formulation Development and Process Optimization of Bi-layer Tablets of Anti-hypertensive Drugs using Experimental Design.**
- **Supervisor: Prof. (Dr.) Bhaskar Mazumder,** Head of the Department, Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh - 786004, Assam, India.

### **Project summary:**

#### *Experiment 1*

The aim of my research work was to formulation development of bilayer tablets containing the same drug in fast release layer and sustained release layer. The fast release layer provided the loading dose of drug and the sustained release layer was maintained the drug concentration for prolonged period of time thereby reduced dose frequency. The aim of my research work was also included the exploration of statistical optimization techniques to evaluate the effects of different dependent variables on the response variables and *in vivo* study was carried out for establishment of *in vitro in vivo* correlation.

#### *Experiment 2*

The research work was mainly involved the formulation of bilayer tablets containing combination of hypolipidemic drug and anti-hypertensive drug in a tablet formulation. The oral bioavailability of hypoglycemic drug was enhanced by solid dispersion technique and it was released more than 50% drug within 1 hr. Whereas, the second layer contained an antihypertensive drug was floated in the stomach for 12 h to increase its absorption in the stomach and controlled release

the drug for prolonged period of time.

#### M. Pharm

- **Title of the project:** Formulation and Evaluation of Topical Gel of Acyclovir.
- **Supervisor:** Prof. (Dr.) Bhaskar Mazumder, Head of the Department, Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh - 786004, Assam, India.

#### Project summary:

The objective of the research work was to formulation development and evaluation of topical gel of BCS-II drug (acyclovir). The effect of permeation enhancers like: DMSO and IPM on permeation of acyclovir was investigated. The formulation was subjected to evaluation of different parameters like: test of homogeneity, spreadability, determination of pH, viscosity, drug content analysis, *in vitro* release study, determination of release kinetics, and *in vivo* permeation through porcine and mouse skin, determination of permeation parameters, and histopathological study. The higher release rate, steady-state flux, and permeability coefficient, as well as decrease lag time of permeation of acyclovir from gel based on Carbopol 934P (1.5% w/w) containing DMSO (10% w/w) and IPM (10% w/w) as enhancer indicate the usefulness of acyclovir-Carbopol 934P as a suitable formulation for the topical delivery of acyclovir for the treatment of *herpes simplex*, *varicella zoster*, cytomegalovirus, and *Epstein Barr* virus infections in the skin. In the conclusion, it is also interesting to note that DMSO may produce diverse effect i.e. enhancing effect and blocking of HSV-1 productivity, when it is incorporated in the formulation of acyclovir gel.

#### REFRESHER COURSE ATTENDED

Name of the Course	Theme	Name of the University	Duration	Sponsoring Agency if Any
Quality Improvement Program	Drug Targeting; Various Approach and Advantages	Dept. of Pharmaceutical Technology, Jadavpur University	15 Days (30.03.17-12.04.17)	AICTE
	Nanotechnology Based Drug Delivery Systems	Dept. of Pharmaceutical Sciences, BIT, Mesra	15 Days (06.11.19–19.11.19)	AICTE

#### INVITED SPEAKER

Sl. No.	Theme	Event	Place	Date
1.	Poor Awareness of antibiotics: A major concern and the regulations and guidelines.	4 <sup>th</sup> National Conference organized by “Society of Pharmaceutical Education and Technology”	Abacus Institute of Engineering and Management, Mogra, Hooghly.	12 <sup>th</sup> May, 2019

2.	Drug Storage and Public Health Challenges for Pharmacist	WBPCI Regresher Course	Purto Bhavan, Govt. of West Bengal	Several times
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### PERSONAL INFORMATION

Date of Birth : *3<sup>rd</sup> October 1980*  
 Gender : *Male*  
 Linguistic Abilities : *English, Hindi, Bengali*  
 Nationality : *Indian*  
 Hobbies : *Playing and watching Football and Cricket*

### DECLARATION

I hereby declare that all the information's given above are correct according to the best of my knowledge and belief.

Date: 18.08.2025

Place: Kolkata

(SANJAY DEY)