



Prof. (Dr.) Prithviraj Chakraborty
Professor
Royal School of Pharmacy
The Assam Royal Global University
Guwahati

Experience: ~16 years (academics)

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Academic Qualification (Undergraduate Onwards)

S. No	Degree	Year	Department	University/Institution	% of
1	Ph.D	2014	Pharmacy	IFTM University, Uttar Pradesh	Awarded
2	M. Pharmacy	2007	Pharmaceutics	Himalayan Pharmacy Institute, Sikkim/ University of North Bengal	76.6
3	B. Pharmacy	2005	Pharmacy	Himalayan Pharmacy Institute, Sikkim/ University of North Bengal	72.9

Work experience (in chronological order).

Sl. No.	Positions	Name of the Institute	From	To
[1].	Lecturer	SD College of B.Pharmacy, Barnala, Punjab	August 2007	October 2009
[2].	Assistant Professor	SBSPGI, Dehradun	October 2009	January 2012
[3].	Assistant Professor (Sr. Grade)	Bengal College of Pharmaceutical Sciences and Research, Durgapur, West Bengal	Jan 2012	Feb 2016
[4].	Associate Professor,	Bengal College of Pharmaceutical	February 2016	June 2017

	Department of Pharmaceutics	Sciences and Research, Durgapur, West Bengal		
[5].	Assistant Professor (Sr.)	Himalayan Pharmacy Institute, Sikkim	June 2017	July 2019
[6].	Associate Professor & HOD (Department of Pharmaceutics)	Himalayan Pharmacy Institute, Majhitar, Sikkim	July 2019	December 2021
[7].	Professor & HoD (Pharmaceutics)	Mata Gujri College of Pharmacy, Mata Gujri University, Kishanganj, Bihar	January 2022	April 2023
[8].	Professor	Royal School of Pharmacy, The Assam Royal Global University Guwahati	May 2023	continuing

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

Sl. No.	Name of Award	Awarding Agency	Year
1.	Young Researcher Award	Institute of Scholars, Bangalore	2020
2.	Dynamic Pharma Teacher Award	IPES, India	2020
3.	Bentham Brand Ambassador	Bentham Science Publication	Since 2020
4.	Life Member	Life Member of Society of Pharmaceutical Education and Research (SPER)	2018
5.	Life Member	Association of Pharmaceutical Teachers of India (APTI)	2008

#M. Pharm Projects Supervised: 17

#Approved Ph.D. Supervisor at Central University of Sikkim

List of International Publications

[1]. Arijit Mondal, Amit Kumar Nayak, **Prithviraj Chakraborty**, Sabyasachi Banerjee, Bankim Chandra Nandi: Natural Polymeric Nano-bio composites for Anticancer drug delivery therapeutics: A recent Update. *Pharmaceutics* (pharmaceutics -2401963) June 2023 (Accepted). **(IF. 6.525)**.

[2]. Arnab Das, **Prithviraj Chakraborty**, Bunu Khatiwara, Srijita Chakrabarti. Herbal microspoon incorporated sunscreen gel: A novel strategy. *Biomedicine* 2022, 42(5):844-850.

- [3]. Debasmita Das, Tamanna Afnan, Pranal Chhetri, Debarupa Dutta Chakraborty and **Prithviraj Chakraborty**: An Outlook Towards Nano-Sponges: A Unique Drug Delivery System and Its Application in Drug Delivery. *Current Drug Delivery* September 2022. (IF. 3.758)
- [4]. Gupta, A., AmereiBozcheloei, Z., Ghofrani, A., Keramati Nejad, S., **Chakraborty, P.**, Suresh Ambekar, R., & Barati, E. *Electroactive composite for wound dressing. Journal of Composites and Compounds*, 2022; 4(10): 13–23.
- [5]. Bunu Khatiwara, Simran Singh, Samarpan Sarangi, Arnab Das, Jigyasha Dhakal and **Prithviraj Chakraborty**: *Application of Plant Extracts for the Synthesis of Nanoparticles in Green Chemistry: A Concise Update. Current Nanomaterials* August 31, 2022, DOI: 10.2174/2405461507666220531111906
- [6]. Tamanna Afran, **Prithviraj Chakraborty**, Debarupa Dutta Chakraborty, Srijita Chakrabarti, Debasmita Das, Pranal Chhetri: *Microsponge Based Drug-Delivery Systems: A critical update on its Preparation, Dermatological Applications, and Patent Information, Journal of Chengdu University of Technology*, 26, 2021.
- [7]. S. Pramanik, J. Dutta and **P. Chakraborty**. *Development of pH-Responsive Interpenetrating Polymer Networks of Polyacrylamide-g-Gum Arabica and Sodium Alginate for Gastroprotective Delivery of Gabapentin* 2021 *Indian J Pharm Sci* 2021;83(3):473-482.
- [8]. Proma Mukherjee, Debarupa Dutta Chakraborty, Prithviraj Chakraborty, Bhupendra Shrestha, Nihar Ranjan Bhuyan: *Different Ultraviolet Spectroscopic Methods: A retrospective study on its application from the viewpoint of Analytical Chemistry, Asian J Pharm Clin Res*, 14(9), 2021, 1-1.
- [9]. Debarupa Dutta, Lila Kanta Nath, **Prithviraj Chakraborty**, Debashis Dutta: *Targeting Gemcitabine hydrochloride to tumor microenvironment through stimuli-responsive Nano-conjugate: Synthesis, characterization, and in vitro assessment. Journal of Drug Delivery Science and Technology* 60, December 2020, 101981. (IF.5.062)
- [10]. Sourav Mohanto, **Prithviraj Chakraborty**, Chidambaram Soundra Pandian, Shubhradeep Manna, Joni Dutta: *A Comprehensive Review on Alginate as Wound Dressing Biomaterial. Current Applied Polymer Science* 2020, DOI 10.2174/24522716 04999200518085622.
- [11]. Subhasish Pramanik, **Prithviraj Chakraborty**: *Interpenetrating Polymer Network in Drug Delivery Formulations: Revisited. Asian J Pharm Clin Res*, 12 (6), 2019, 5-11.
- [12]. Debarupa Dutta Chakraborty, L. K. Nath, **Prithviraj Chakraborty**: *Recent Progress in Smart Polymers: Behavior, Mechanistic Understanding and Application. Polymer-Plastics Technology and Engineering* Nov 2017.Doi.org/10.1080/03602559.2017.1364383. (IF.3.267)
- [13]. Indranil Chanda, Ripunjoy Bordoloi, Debarupa D. Chakraborty, **Prithviraj Chakraborty**: *Development and Validation of UV-Spectroscopic Method for Estimation of Niacin in Bulk and Pharmaceutical Dosage Form. Journal of Applied Pharmaceutical Science* 09/2017; 7(9):81-84., DOI:10.7324/JAPS.2017.70911
- [14]. Pulak Deb, Jubaraj Singha, Indranil Chanda, **Prithviraj Chakraborty**: *Formulation Development and Optimization of Matrix Tablet of Tramadol Hydrochloride. Recent Patents on Drug Delivery & Formulation* 10/2016; 10(999).
- [15]. Rahul Rama Hegde, Prashant Sharma, Pushp Raj, R. V. Keny, Prashant. J. Bhide, Sunil Kumar, Shiv Sankar Bhattacharya, Alka Lohani, Arvind Kumar, Anurag Verma, **Prithviraj Chakraborty**, Amitava Ghosh, Vaibhav Trivedi: *Factors affecting emissions from diesel fuel and water-indiesel emulsion. Energy Sources Part A Recovery Utilization and Environmental Effects* 05/2016; 38(12):1771-1778., DOI:10.1080/15567036.2014.989341. (IF 0.527)
- [16]. **Prithviraj Chakraborty**, Versha Parcha, Debarupa D.Chakraborty, Amitava Ghosh: *Comparative study on the predictability of statistical models (RSM and ANN) on the behavior of*

optimized buccoadhesive wafers containing Loratadine and their in vivo assessment. *Drug Delivery* 03/2016; 23(3):1016- 1027.(**IF.6.843**)

[17]. **Prithviraj Chakraborty**, Versha Parcha, Debarupa Dutta Chakraborty, Amitava Ghosh: *Application of artificial neural network model in predicting physicochemical characteristics of pharmaceutically developed wafers of loratadine. Asian Journal of Pharmaceutics* 01/2015; 9(1):44-48., DOI:10.4103/0973-8398.150036. (**IF.0.46**)

[18]. Chinmoy Paul, Debarupa D.Chakraborty, Amitava Ghosh, **Prithviraj Chakraborty**: *Natural Indicator as a substitute to Synthetic indicator-A Developmental Approach. Journal of Applied Pharmaceutical Science* 09/2014; 4(9):120-122., DOI:10.7324/JAPS.2014.40921 (**IF.0.528**)

[19]. Amitava Ghosh, **Prithviraj Chakraborty**: *Formulation and Mathematical Optimization of Controlled Release Calcium Alginate Micro Pellets of Frusemide. BioMed Research International* 07/2013; 2013:819674., DOI:10.1155/2013/819674. (**IF 2.880**)

[20]. Shiv Sankar Bhattacharya, Seema Shukla, Subham Banerjee, Purojit Chowdhury, **Prithviraj Chakraborty**, Amitava Ghosh: *Tailored IPN Hydrogel Bead of Sodium Carboxymethyl Cellulose and Sodium Carboxymethyl Xanthan Gum for Controlled Delivery of Diclofenac Sodium. Polymer-Plastics Technology and Engineering* 06/2013; 52(8):795-805., DOI:10.1080/03602559.2013.763361. (**IF.1.482**)

[21]. **Prithviraj Chakraborty**, Surajit Dey, Versha Parcha, Shiv Sankar Bhattacharya, Amitava Ghosh: *Design Expert Supported Mathematical Optimization and Predictability Study of Buccoadhesive Pharmaceutical Wafers of Loratadine. BioMed Research International* 05/2013; 2013:197398., DOI:10.1155/2013/197398. (**IF. 2.880**)

[22]. **Prithviraj Chakraborty**, Versha Parcha, Debarupa D. Chakraborty, Indranil Chanda, Amitava Ghosh: *Mathematical optimization and characterisation of pharmaceutically developed novel buccoadhesive wafers for rapid bioactive delivery of Loratadine. Journal of Pharmaceutical Investigation* 04/2013; 43(2)., DOI:10.1007/s40005-013-0062-7

[23]. Supriya Datta, Debarupa D.Chakraborty, Nilanjan Sarkar, **Prithviraj Chakraborty**, Jyotirmoy Deb, Amitava Ghosh: *Pharmacognostic Profiling and Pharmacological Screening of Zanthoxylum Acanthopodium DC – A Sub-Himalayan Shrub of Ethnomedicinal Value. Am. J PharmTech Res*, 2013; 3(3).

[24]. Pritam Banerjee, Jyotirmoy Deb, Amitava Roy, Amitava Ghosh, **Prithviraj Chakraborty**: *Fabrication and Development of Pectin Microsphere of Metformin Hydrochloride.* 08/2012; 2012:230621., DOI:10.5402/2012/230621

[25]. Apoorva Agarwal, **Prithviraj Chakraborty**, Debarupa D. Chakraborty, Vikas Anand Saharan: *Phytosomes: Complexation, Utilisation and Commercial Status. Journal of Biologically Active Products from Nature* 01/2012; 2(2)., DOI:10.1080/22311866.2012.10719111

[26]. **Prithviraj Chakraborty**, Dutta Debarupa, Dey Biplab Kumar: *Effect of Polymer blends in drug release kinetics from Transdermal drug delivery system. International Journal of Drug Development & Research* 06/2010; 2(1):300-309.

[27]. Junaid Niazi, Vikas Gupta, **Prithviraj Chakraborty**, Pawan Kumar: *Anti-inflammatory and Anti-pyretic activity of Aleuritis moluccana leaves. Asian Journal of Pharmaceutical and Clinical Research* 03/2010; 3(1):35-37.

[28]. Debarupa D.Chakraborty, **Prithviraj Chakraborty**: *Phyto-Pharmacology of Bombax Ceiba Linn: A Review. Journal of Pharmacy Research* 01/2010; 3(12):2821-2824.

[29]. D.D Chakraborty, V Ravi and **P Chakraborty**: *Phytochemical Evaluation and TLC Protocol of various extracts of Bombax Ceiba Linn. International Journal of Pharmaceutical Sciences and Research.* 1(8): 2010, 66-73.

- [30]. **Prithviraj Chakraborty**, Suresh Kumar, Debarupa Dutta, and Vikas Gupta: *Role of Antioxidants in Common Health Diseases. Research J. Pharm. and Tech.* 2 (2): April.-June. 2009, 238-244.
- [31]. **Chakraborty Prithviraj**, Dey Biplab K, Bahadur Sanjib, Thakkar Suresh and Das Sudip: Design, Development, Physicochemical and In Vitro Evaluation of Transdermal patches Containing Verapamil Hydrochloride in Ethyl Cellulose - Povidone Matrices. *Research J. Pharm. and Tech.* 2(1): 2009, 168-172.
- [32]. **Prithviraj Chakraborty**, Suresh Kumar, Veera Garg, Anu Goyal: *Evaluation of Chlorophytum tuberosum as a new tablet binder. Research Journal of Pharmaceutical Dosage Form and Technology* 1(3): 2009,196-199.
- [33]. Debarupa Dutta, **Prithviraj Chakraborty**: *Orphans Drugs- Its pros and cons. Research Journal of Pharmaceutical Dosage form and Technology.* 1:(2). 2009:59-66.

List of National Publications

- [1]. Prabir Kumar Datta, Amitava Ghosh, **Prithviraj Chakraborty**, Amites Gangopadhyay: *Foam Fractionation in Separation of Pharmaceutical Biomolecules: A Promising Unit Operation for Industrial Process and Waste Control. J.fundam.pharm.res.* 2015.3(1);33-41.
- [2]. Babita Gupta, Urmi Chaurasia and **Prithviraj Chakraborty**. *Design and development of oral transmucosal film for delivery of salbutamol sulphate. J Pharm Chem Biol Sci* 2014; 2(2):118-129.

Books/Reports/Chapters/General articles etc.

Sl. no	Title	Author's Name	Publisher	Year
Books				
[1].	Nanostructured Materials for Tissue Engineering	Editors: Arijit Mondal, Amit Nayak, Prithviraj Chakraborty	Elsevier	2023
[2].	Artificial Neural Network: Application in Pharmaceutics	Prithviraj Chakraborty	Lambert Academic Publishing	2018
Book Chapters in Edited Volumes				
[1].	Boron nitride nanostructures in tissue engineering	Prithviraj Chakraborty , Debarupa Dutta Chakraborty, Saumendu Deb Roy, Amitava Ghosh	Elsevier	2023
[2].	Quantum dots in tissue engineering	Debarupa D. Chakraborty, Subhasis Pramanik, Prithviraj Chakraborty	Elsevier	2023
[3].	Biochemical and Therapeutic Targets for Nano phytomedicines	Prithviraj Chakraborty , Debarupa D.Chakraborty, Mainak Chakraborty	Wiley	2022
[4].	Smart Materials Based on Cellulose Nanoparticles	Prithviraj Chakraborty , Debarupa D.Chakraborty, L.K.Nath	The Royal Society of Chemistry (RSC)	2021
[5].	Shape memory polymer composites and their applications	Debarupa D. Chakraborty, Prithviraj Chakraborty	Elsevier	2020
[6].	Polysaccharide based nanoparticles for the enhanced delivery of poorly soluble drugs	Prithviraj Chakraborty , Urmi Chaurasia, Debarupa D.Chakraborty, Indranil Chanda	CRC Press	2018

[7].	Polymeric Systems in Quick Dissolving Novel Films	Prithviraj Chakraborty , Amitava Ghosh, Debarupa D.Chakraborty	John Wiley Publishing LLC	2015
[8].	Herbal drugs in reproductive health: boon or bane	Vikas Gupta, Parveen Bansal, Sanjiv Kumar, Savita Sharma, Prithviraj Chakraborty	Basera Verlag, Germany	2013

Patents Published: 01 (German); Design Patent :01(India)

Papers Presented:

National: **25**

International: **02**

Seminars/ Conference/ FDP/ Workshop/ Short Term Course Attended:

National: **40**

International:**05**