

Faculty Profile

Name: Dr. Abhishek Bhattacharjee

Designation: Associate Professor

Department: Pharmaceutical Sciences

Specialization: Pharmaceutics

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Educational Qualifications: M. Pharm (Pharmaceutics), PhD (Pharmacy)

Areas of Interest: Novel Drug Delivery Systems, Anti-Cancer Research, Integration of Artificial Intelligence & Machine Learning in Cancer Research.

Positions held University Level: Assistant Director, Career Counselling & Placement Cell, w.e.f 23rd July 2024 to till date. Core committee member of Entrepreneurship Development Cell, Institutional Incubation Centre, Skill Hub, Indian Knowledge System and PM Viswakarma Scheme.

Work Experience: [In chronological order with the recent one at the last]

Name of the Organization	Designation	Period		Nature of Post (permanent/temporary/Ad-hoc/ contractual etc.)
		From	To	
Khandelwal Laboratories Pvt. Ltd., Mumbai.	R & D Officer	20/10/2008	08/01/2010	Permanent
Assam University, Silchar	Assistant Professor	01/11/2010	01/06/2011	Temporary
Assam University, Silchar	Assistant Professor (Academic Level-10)	02/06/2011	01/06/2016	Permanent
Assam University, Silchar	Assistant Professor (Academic Level-11)	02/06/2016	31/08/2022	Permanent



Assam University, Silchar	Assistant Professor (Academic Level-12)	01/09/2022	31/08/2025	Permanent
Assam University, Silchar	Associate Professor (Academic Level-13A)	01/09/2025	Till Date	Permanent

Awards and Honours:

Award Details	Awarding Agency	Year	Remark (if any)
Inspired Teacher of Department of Pharmaceutical Sciences, Assam University	Assam University.	2015	--

Publications in Peer Reviewed Scopus Indexed Journals [In chronological order with the recent one at the last]

Sl. No.	Title of the Paper/Article	Name of Journal	Vol. No., Issue No. & Page No.	Month & Year of Publication	ISSN	Indexing	Impact Factor
1.	A Multi-Class Deep Learning Model for Early Lung Cancer and Chronic Kidney Disease Detection Using Computed Tomography Images	Frontiers in Oncology, Frontiers Media, S.A	Volume-13, Page-1193746	June 2023	2234-943X	Scopus, WoS indexed	4.7
2.	Improved Dissolution Time and Oral Bioavailability of Pioglitazone using Liquisolid Tablets: Formulation, <i>in-vitro</i> Characterization and <i>in-vivo</i> Pharmacokinetics in Rabbits	ACS Omega, American Chemical Society.	Volume-42, Issue-9, Pages-42687-42697	October 2024	2470-1343	Scopus, WoS indexed	4.1
3.	<i>In-silico</i> and <i>in-vitro</i> assessment of Doxycycline Loaded Chitosan Nanoparticles for Diabetic Wound Healing	BioNanoScience, Springer Nature, US	Volume-15, Issue-3, Pages-1-14	June 2025	2195-1649	Scopus, WoS indexed	3.0
4.	Innovative Therapeutic Potential of Herbal Extracts Containing Punicic and Ellagic Acid Addressing Lower Urinary Tract Disorders	Current Molecular Medicine, Bentham Science.	Volume-25, Issue-10	May 2025	1566-6240	Scopus, WoS indexed	2.222

5.	Biocompatible Ocular Films: A Novel Approach to Prolonged Aceclofenac Release and Muco-adhesion.	Journal of Pharmaceutical Innovation, Springer Nature, US.	(2025) 20:274	September 2025	1872-5120	Scopus, WoS indexed	3.0
6.	Quantification, Antioxidant, In-silico Molecular Docking and Anti-hepatocellular Carcinoma Activity of Sepia Ink Polysaccharides Prepared from Sepia Pheraonis.	Future Journal of Pharmaceutical Sciences, Springer Nature, US.	(2025) 11:138	October, 2025	2314-7253	Scopus, WoS indexed	3.0
7.	Multiclass Lung Cancer Detection using a Hybrid Capsule Inspired Deep Neural Network	Scientific Reports, Nature	(2026) 16:18615	June, 2026	2045-2322	Scopus, WoS indexed	4.9

Chapters in Edited Book [In chronological order with the recent one at the last]

Sl. No .	Title of the Book Chapter	Title of the Book with its Editors	Name of the Publisher	Month and Year of Publication	ISBN	National/International
1	Covid-19 Pandemic Panic Prophylactic as well as Therapeutic Management with Ethnic Phytopharmaceuticals Challenging Nano spray Inhaler and Advanced Drug Delivery System	Medicinal Plants for Lung Disease: A Pharmacological and Immunological Perspective, by Kamal Dua, Srinivas Nammi, Dinesh Kumar Chellapan, Gaurav Gupta and Trudi Collet	Springer Nature, US	September 2021	978-981-33-6849-1	International
2	Nebulizer Spray Delivery of Phytopharmaceutical Nanosuspension via Oral and Nasal Route a Challenging Approach to Fight against Covid-19	Application of Multifunctional Nanomaterials , by Sabu Thomas, Nandakumar Kalarikkal and Ann Rose Abraham	Elsevier	March 2023	978-0-12-8205570	International
3	Artificial Intelligence and Nanotechnology Integrated Recent Applications in Early	Nanomaterials in Biological Milieu:	Bentham Science	June 2025	978-981-	International

	Lung Cancer Detection and Therapy	Biomedical Applications and Environmental Sustainability, by Manoranjan Arakha and Arun Kumar Pradhan			5313-26-0	
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Books Authored

Sl. No.	Type of the Publication	Title of the Book	Name of Publisher	Month & Year of Publication	ISBN	National/ International Publication
1	Text Book	Pharmaceutical Engineering	Black Pearl Publication	May 2023	978-93-90975-49-5	National

Patents

Sl No.	Title of Patent	Patent No.	Date of Award	International/ National
1	Automated Tablet Packaging Machine	383360-001	08.04.2023	Indian Design Patent
2	AI Based Lung Cancer Testing Device	398784-001	30.10.2023	Indian Design Patent
3	3-D Printed Tablet Film Coating Machine	6324617	16.11.2023	UK Design Patent

Total Score: 24