

CV of RAJAT SUBHRA DUTTA

Name: DR. RAJAT SUBHRA DUTTA

Designation: ASSISTANT PROFESSOR

Address for Communication: (office)

Girijananda Chowdhury Institute of Pharmaceutical Science-Tezpur, Near Dekargaon Railway Station, Dekargaon, Tezpur, Sonitpur, Assam-784501.

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Sex: Male

Date of Birth: 16/09/1986

Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 <sup>th</sup> Std.	2003	SEBA	NA
2	HSSLC/10+2 Std.	2005	AHSEC	SCIENCE
3	Degree (B.Pharm)	2010	DIBRUGARH UNIVERSITY	
4	Master's Degree (M.Pharm)	2014	DIBRUGARH UNIVERSITY	PHARMACEUTICS
5	M. Phil.(Please Specify)	NA	NA	NA
6	Ph.D.	2024	DIBRUGARH UNIVERSITY	PHARMACEUTICAL SCIENCES
7	Post-Doctoral (Please Specify)	NA	NA	NA
8	Others(Please Specify)			

Languages known: ENGLISH, HINDI, ASSAMESE, BENGALI

(Read, Write & Speak)

Academic/ Administrative /Industrial Experience:

- Quality Assurance Chemist in Quality Pharma Products Pvt. Ltd, Lahoal, Dibrugarh, Assam from 8<sup>th</sup> Nov'2010 to 31<sup>st</sup> July'2012.
- Performed IPQC/QA activities in the Manufacturing, Testing and Packaging of Liquid Orals and Ointments.
- Involved in all the QA related activities from Dispensing to Dispatch.
- Involved in Self Inspection, Unit Operation, Internal Audit, Handling of Deviation, Change Control and CAPA.
- Involved in the Preparation and Review of Documents like BMR, BPR, SOPs and STPs.
- Assistant Professor (Pharmaceutics) in the Regional Institute of Paramedical and Nursing Sciences (RIPANS), Govt. of India, Zemabawk, Aizawl, Mizoram from 25<sup>th</sup> September, 2014 to 30<sup>th</sup> August, 2019
- Involved in teaching B.Pharm and M.Pharm course.
- Served as Research Advisory Committee Member of the Department. of Pharmacy, RIPANS.
- Served as In-charge of students job placement activities, Department of Pharmacy, RIPANS
- Served as In-Charge of the Division of Pharmaceutics, Department of Pharmacy, RIPANS
- Served as College SWAYAM Coordinator, RIPANS
- Served as ISO 9001:2015 process owner of the Department of Pharmacy, RIPANS.
- Served as Advisory Board Member of Drug Information Bulletin, An Official Bulletin of Drug Information Centre, Department of Pharmacy, RIPANS
- Served as Paper setter, Moderator, Examiner associated with B.Pharm and M.Pharm examinations under Mizoram University.
- Certified as Internal Auditor Quality Management System (ISO 9001:2015) by MacLead certifications on 17<sup>th</sup> March,2017
- Research fellow under LSRB-DRDO funded project in the Department of Pharmaceutical Sciences, Dibrugarh University, Assam from 30<sup>th</sup> August, 2019 to 29<sup>th</sup> August, 2022.
- Reviewer of *Journal of Herbal Medicine* (Elsevier).
- Assistant Professor (Pharmaceutics) in the Girijananda Chowdhury Institute of Pharmaceutical Science, Girijananda Chowdhury University-Tezpur campus from 1<sup>st</sup> March, 2023 to Till date.
- Involved in teaching B.Pharm and D.Pharm course.
- Serving as Nodal Officer (Tezpur Campus) for National Scholarship Portal.
- Serving as Training and Career Guidance Cell (Tezpur Campus) coordinator.
- Serving as Anti-Ragging Committee (Tezpur Campus) member.

- Serving as Students' Grievance Redressal Committee member.

List of Publications:

SL No	Title of the Paper	Authors	Name of Journal (Publisher)	Year	Vol. & Issue	Page No.	ISSN/ Impact factor (IF)
1.	Enhanced efficacy of $\beta$ -carotene loaded solid lipid nanoparticles optimized and developed via central composite design on breast cancer cell lines	<b>Rajat Subhra Dutta</b> , Gamal Osman Elhassan, Takhellambam Bidyapati Devi, Bedanta Bhattacharjee, Mohini Singh, Bani Kumar Jana, Supriya Sahu, Bhaskar Mazumder, Ram Kumar Sahu, Jiyauddin Khan	<i>Heliyon</i> (Elsevier)	2024	10 (7)	1-16	2405-8440 (Online)  <b>IF: 3.4</b>
2.	Design, synthesis and in-vitro antidepressant activity evaluation of some 2-styrylbenzimidazole derivatives	Manisha Sahariah, Rubina Chowdhury, Padmanath Pegu, Farak Ali, <b>Rajat Subhra Dutta</b> , Supriya Sahu	<i>Future Journal of Pharmaceutical Sciences</i> (Springer)	2024	10 (20)	1-16	2314-7253 (Online)  <b>IF: 3.4</b>
3.	Essential oils extracted from <i>Citrus macroptera</i> and <i>Homalomena aromatica</i> (Spreng.) Schott. exhibit repellent activities against <i>Aedes aegypti</i> (Diptera: Culicidae)	<b>Rajat Subhra Dutta</b> , Supriya Sahu, Rinku Baishya, Lalduhsanga Pachuau, Bibhuti Bhusan Kakoti, Bhaskar Mazumder	<i>Journal of Vector Borne Diseases</i> (Wolters Kluwer Medknow)	2024	61	114-123	0972-9062 (Online)  <b>IF: 0.8</b>
4.	Phytochemical Screening, HPTLC Fingerprinting and Evaluation of <i>In Vitro</i> Cytotoxic Activity of Stem Bark Extracts of <i>Oroxylum indicum</i> (L.) Vent. Against Human Cervical Cancer Cells	Sameeran Gam, Suman Kumar, Susankar Kushari, <b>Rajat Subhra Dutta</b> , Himangshu Sarma, Arpita Paul, Md Kamaruz Zaman	<i>Indian Journal of Clinical Biochemistry</i> (Springer)	2023		1-7	0970-1915  0974-0422 (Online)  <b>IF: 1.5</b>

5.	Nanodiamond mediated molecular targeting in Pancreatic Ductal adenocarcinoma: Disrupting the tumor-stromal cross-talk, next hope on the horizon?	Mohini Singh, Paulami Pal, <b>Rajat Subhra Dutta</b> , Daphisha Marbaniang, Subhabrata Ray, Bhaskar Mazumder	<i>Current Cancer Drug Targets</i> (Bentham Science Publishers B.V.)	2023	23 (8)	620-633	1568-0096 1873-5576 (Online) <b>IF: 2.3</b>
6.	Current Drug Delivery Strategies for Buccal Cavity Ailments using Mouth Dissolving Wafer Technology: A Comprehensive Review on the Present State of the Art.	Bani Kumar Jana, Mohini Singh, <b>Rajat Subhra Dutta</b> , Bhaskar Mazumder	<i>Current Drug Delivery</i> (Bentham Science Publishers B.V.)	2023	21 (3)	339-359	1567-2018 1875-5704 (Online) <b>IF:2.8</b>
7.	Green synthesis of silver nanoparticles from plant extract of <i>Phlogacanthus thyrsoiflorus</i> Nees. and screening of its antimicrobial activity against <i>Staphylococcus aureus</i> and <i>Aspergillus niger</i>	Atanu Konwar, Pranab Paul, <b>Rajat Subhra Dutta</b> , Manashjyoti Konwar	<i>Research Journal of Biotechnology</i> (Research Journal Biotechnology)	2022	17 (9)	54-58	0973-6263 2278-4535 (Online)
8.	A Review on Bioactive Constituents of Essential Oils as Mosquito Repellent	<b>Rajat Subhra Dutta</b> , Supriya Sahu, Bhaskar Mazumder	<i>Current Bioactive Compounds</i> (Bentham Science Publishers B.V.)	2022	18 (5)	2-12	1875-6646 (Online)
9.	Evaluation of the Food and Nutrition Value of <i>Rubus alceifolius</i> Poir. Fruits of Mizoram, India	Laldinchhana, <b>Rajat Subhra Dutta</b> , Kawl Thanzami, Hauzel Lahlhenmawia, Laldusanga Pachuau.	<i>Current Nutrition &amp; Food Science</i> (Bentham Science Publishers B.V.)	2020	16 (4)	554-562	2212-3881 (Online) <b>IF:0.8</b>
10.	Development and validation of simple UV spectrophotometric method for estimation of brinzolamide	Chanam Melody Devi, Pratap Kalita, <b>Rajat Subhra Dutta</b> .	<i>Journal of Pharmaceutical and Scientific Innovation</i> (Moksha Publishing House)	2019	8(2)	60-63	2277-4572 (Online)
11.	Comparison of surgical site infection rate between antibacterial coated	Probin Kr. Roy, Pratap Kalita, Hauzel Lahlhenmawia,	<i>International Journal of Pharmaceutical Sciences and</i>	2019	10 (5)	2385-2391	0975-8232 (Online)

	surgical suture and conventional suture: A randomized controlled single centre study for preventive measure of post operative infection	<b>Rajat Subhra Dutta</b> , Kawl Thanzami , Cherput Zothanmawia , Lalrosangi , Lalduhsanga Pachuau, Saia Chenkual	<i>Research</i> (Society of Pharmaceutical Sciences and Research)				
12.	Evaluation of novel microcrystalline cellulose from <i>Ensete glaucum</i> (Roxb.) Cheesman biomass as sustainable drug delivery biomaterial	Lalduhsanga Pachuau, <b>Rajat Subhra Dutta</b> , Hauzel Lalhlenmawia , Takhellambam Bidyapati Devi, Dhitashree Deka	<i>Carbohydrate Polymers</i> (Elsevier)	2019	206	336-343	0144-8617 (Online) <b>IF: 10.7</b>
13.	Taro starch ( <i>Colocasia esculenta</i> ) and citric acid modified taro starch as tablet disintegrating agents	Lalduhsanga Pachuau, <b>Rajat Subhra Dutta</b> , Takhellambam Bidyapati Devi, Dhitashree Deka, Hauzel Lalhlenmawia	<i>International Journal of Biological macromolecules</i> (Elsevier)	2018	118	397-405	0141-8130 (Online) <b>IF: 7.7</b>
14.	Nanoprecipitated Ethylcellulose-Curcumin particles for controlled release and enhanced antioxidant activity	<b>Rajat Subhra Dutta</b> , Hauzel Lalhlenmawia, Probin Kumar Roy, Pratap Kalita, Takhellambam Bidyapati Devi, Dhitashree Deka, Lalduhsanga Pachuau	<i>Current Nanoscience</i> (Bentham Science Publishers B.V.)	2018	14 (4)	298-306	1875-6786 (Online) <b>IF: 1.4</b>
15.	Physicochemical and disintegrant properties of glutinous rice starch of Mizoram, India	Lalduhsanga Pachuau, <b>Rajat Subhra Dutta</b> , Probin Kumar Roy, Pratap Kalita, Hauzel Lalhlenmawia	<i>International Journal of Biological macromolecules</i> (Elsevier)	2017	95	1298–1304	0141-8130 (Online) <b>IF: 7.7</b>
16.	A Need of a Novel Antimicrobial Suture for Surgical Site Infection.	Probin Kumar Roy, Pratap Kalita, Pougang Golmei, Iswar Hazarika, Hauzel Lalhlenmawia , <b>Rajat Subhra</b>	<i>Research &amp; Reviews: A Journal of Microbiology and Virology</i> (STM Journals)	2016	6	1-4	2230-9853 (Online)

		<b>Dutta</b>					
17.	A chronological review on preclinical and clinical evaluation of antimicrobial sutures.	Probin Kumar Roy, Hauzel Lalhlenmawia, <b>Rajat Subhra Dutta</b> , Pougang Golmei, Pratap Kalita, Iswar Hazarika	<i>Research &amp; reviews :A Journal of Pharmacology</i> (STM Journals)	2016	6	13-16	2230-9861 (Online)

### International Book Chapters Published

1. Marbaniang D., Dutta R.S., Gogoi N.R., Ray S., Mazumder B.(2021) Biopolymeric nanocrystals in drug delivery and biomedical applications. In: Bera H., Layek B., Singh J. (eds) Tailor-Made and Functionalized Biopolymer Systems For Drug Delivery and Biomedical Applications. Elsevier. <https://doi.org/10.1016/B978-0-12-821437-4.00013-X>
2. Pachuau L., Dutta R.S. (2020) Wild Edible Fruits of Northeast India: Medicinal Values and Traditional Practices. In: Sen S., Chakraborty R. (eds) Herbal Medicine in India. Springer, Singapore. [https://doi.org/10.1007/978-981-13-7248-3\\_27](https://doi.org/10.1007/978-981-13-7248-3_27)
3. Pachuau L., Devi C.M., Goswami A., Sahu S., Dutta R.S. (2019) Seed Oils as a Source of Natural Bio-active Compounds. In: Akhtar M., Swamy M., Sinniah U. (eds) Natural Bio-active Compounds. Springer, Singapore. [https://doi.org/10.1007/978-981-13-7154-7\\_8](https://doi.org/10.1007/978-981-13-7154-7_8)

### Resource Person:

- Resource person at the Workshop on “Pathways in Drug Discovery; From Forest to Drug Store” organized by IBT Hub, Department of Pharmacy, RIPANS during 7-11th March 2016.
- Resource person at the Summer School-2019 organized by the Department of Pharmacy, RIPANS in association with IBThub, RIPANS during 27th-31st May, 2019.

### Papers in Conferences/Seminars published as conference proceedings:

- Goswami A, **Dutta RS**. Formulation, Characterization and Evaluation of curcumin loaded pH-responsive nanoparticles. Abstract published in the journal Current Trends in Pharmaceutical Research, 2018, 5(2),106-107, Dibrugarh University as Proceedings of National Seminar, PharmaNanotech-2018, November, 23-24.
- Patowary A, **Dutta RS**, Kakati A. Sodium carboxymethylation of glutinous rice starch *Buh tui* of Mizoram, India and its characterization. Abstract published in the journal Current Trends in Pharmaceutical Research, 2018, 5(2),124-125, Dibrugarh University as Proceedings of National Seminar, PharmaNanotech-2018, November, 23-24.
- Kakati A, **Dutta RS**, Patowary A. Synthesis and characterization of sodium carboxymethyl starch obtained from glutinous rice variety *Ja pnah* of Meghalaya. Abstract published in the journal Current Trends in Pharmaceutical Research, 2018, 5(2),126-128, Dibrugarh University as Proceedings of National Seminar, PharmaNanotech-2018, November, 23-24.
- Debbarma A, Kakati A, Patowary A, **Dutta RS**. A review on Traditional plants used for the treatment of diabetes in Mizoram, India. Abstract published as Proceedings of National Seminar on “Advancement in Healthcare Management: Traditional Knowledge to Contemporary Drug Technology” organized by Assam Down Town University Pharmacon-2019, March, 29-30, pp 30.
- Kakati A, Patowary A, Debbarma A, Kalita P, **Dutta RS**. Tulsi (*Ocimum sanctum* L.): The incomparable herb it’s traditional and medicinal uses. Abstract published as Proceedings of

National Seminar on “Advancement in Healthcare Management: Traditional Knowledge to Contemporary Drug Technology” organized by Assam Down Town University Pharmacon-2019, March, 29-30, pp 35.

- Patowary A, Kakati A, **Dutta RS**, Pachuau L, Kalita P. Evaluation of *Prunus cerasoides* gum as compression coating material for colonic delivery of prednisolone. Abstract published as Proceedings of National Seminar on “Advancement in Healthcare Management: Traditional Knowledge to Contemporary Drug Technology” organized by Assam Down Town University Pharmacon-2019, March, 29-30, pp 36.
- **Dutta RS**, Pachuau L, Kakati A, Patowary A, Debbarma A. Physicochemical properties of Fourteen different glutinous rice starch varieties of Northeast India. Abstract published as Proceedings in the International Conference on Chemistry & Environmental Sustainability (ICCES-2019)” organized by the Department of Chemistry, Mizoram University, 2019, February 19- 22, pp 226-229.
- **Dutta RS**, Sahu S, Baishya R, Pachuau L, Kakoti BB, Mazumder B. Docking studies of active constituents of *Citrus macroptera* and *Homalomena aromatica* (Spreng.)Schott. essential oils against mosquito odorant binding proteins. Abstract published in the journal Current Trends in Pharmaceutical Research (Special Issue), 2023, 213-214, Dibrugarh University as Proceedings of DST-PURSE Sponsored National Seminar-2023, November, 16-18.

#### **Workshops/Seminars/FDP attended:**

- Attended National Seminar on ‘Pharmacovigilance for Assuring Drug Safety’ at Department of Pharmaceutical Sciences, Dibrugarh University during 26th and 27th November, 2011.
- Attended International Symposium on ‘Sustainable Public Health Practices for Good Health, Peace and Prosperity’ at Dibrugarh University on 24th February, 2012.
- Attended U.G.C Sponsored National Seminar on ‘Understanding the Tribes of Northeast India’ at Tengakhat College, Tengakhat, Dibrugarh during 29th -30th January, 2014 organized by IQAC, Tengakhat college.
- Attended workshop on ‘Professional Development for Higher Education’ organized by Department of Nursing, RIPANS during 13th to 17th October, 2014.
- Attended AICTE sponsored QIP Short term course on ‘Advances in Biomedical Engineering’ organized by Department of Biotechnology, Indian Institute of Technology, Guwahati during 25th February-1st March, 2015.
- Participated at one day seminar on ‘Regulations and handling techniques involved in animal experiments’ on 12th March 2015 organized by DBT’s Institutional Level Biotech Hub, RIPANS.
- Attended the ‘Innovation and Intellectual Property Rights Awareness Workshop’ held at Aizawl Club, Aizawl, Mizoram on 24th March, 2015, organized by Directorate of Science & Technology, Govt. of Mizoram.
- Attended one day programme on ‘Practical Risk Assessment as per ISO 9001:2015- Quality Management System’ organized by National Board for Quality Promotion on 23rd June, 2016 at Aizawl, Mizoram.
- Participated in the one day seminar on ‘Entrepreneurship Development for Pharmacy Students’ organized by the Department of Pharmacy, RIPANS on 14th June, 2017 at Beraw Tourist Centre, Berawtlang, Aizawl, Mizoram.
- Attended and participated as Organizing Committee Member in the National Workshop on ‘Molecular Docking, Virtual Screening and Computational Biology’ organized by Department of Pharmacy, RIPANS during 18th -22nd June, 2018.
- Participated in the ‘One day seminar cum Hands on Training on Foldscope’ organized by Department of Pharmacy, RIPANS in collaboration with Central Food Technological Research Institute, Mysore, Karnataka funded by DBT, Govt. of India held at Multipurpose Hall, Berawtlang Tourist Centre, Zemabawk, Aizawl on 18th September, 2018.

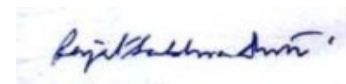
- Participated in the ‘Hands on Training Workshop’ on ‘Medical Imaging: Preclinical Imaging in Drug Discovery’ organized by DBT-NER Biotechnology/Bioinformatics Training Centre, ACTREC, Kharghar, Navi Mumbai during 14th -18th January, 2019.
- Presented paper entitled ‘Physicochemical properties of Fourteen different glutinous rice starch varieties of Northeast India’ in the ‘International Conference on Chemistry & Environmental Sustainability (ICCES-2019)’ organized by the Department of Chemistry, Mizoram University during 19th - 22nd February, 2019.
- Participated in the ‘NER Twinning Programme cum Foldscope Seminar’ organized by the Department of Pharmacy, RIPANS in collaboration with Muthayammal Centre for Advanced Research, Rasipuram Tamil Nadu funded by DBT, Govt. of India on 8th March, 2019.
- Attended workshop on ‘Handling and Utility of Experimental Animals in Biomedical Research’ funded by UGC under UGC-SAP(DRS-I) organized by the Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, Assam during 24th -25th October, 2019.
- Participated in the National Seminar on ‘Current Research in Drug Discovery and Development’ funded by UGC under UGC-SAP(DRS-I) organized by the Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, Assam during 13th -14th November, 2019.
- Participated in the ‘One day workshop on Analytical cum semi-preparative HPLC systems’ conducted by the Department of Pharmaceutical Sciences, Dibrugarh University in collaboration with IPA, Assam State Branch and Spinco Biotech Pvt. Ltd on 29th January, 2021.
- Participated in the ‘One day Symposium on Publication Skill Development’ jointly organized by the Department of Pharmaceutical Sciences and IQAC, Dibrugarh University, Assam on 28th February, 2022.
- Participated in the 5 Day Faculty Development Programme on ‘Advances in Research Methodology’ organized by Royal School of Pharmacy under the aegis of IQAC Cell, The Assam Royal Global University (RGU) during 22<sup>nd</sup> -26<sup>th</sup> May, 2023 at the Assam Royal Global University, Betkuchi, Guwahati, Assam.
- Presented paper entitled ‘Docking studies of active constituents of *Citrus macroptera* and *Homalomena aromatica* (Spreng.) Schott. essential oils against mosquito odorant binding proteins.’ in the DST-PURSE sponsored National Seminar on ‘Nanotechnology in Bio therapeutics: Advancement in Drug Discovery, Development and Delivery Systems’ held during 16th-18th November, 2023 at Dibrugarh University.

#### Research Experience:

- Doctoral thesis guided\_: NIL
- PG thesis/dissertation guided: 6 awarded.
- Research & Consultancy Projects: NIL

**Membership of Professional bodies:** Life member of Indian Pharmaceutical Association (ASS/DIBR/ON/LM/000008).

**Award, Fellowship & Recognition:** JRF/SRF under LSRB-DRDO project.



Signature

Date: 23.07.2024

(DR. RAJAT SUBHRA DUTTA)