***Trideep Saikia Resume***

**Name:** *Trideep Saikia*

**Designation:** Assistant Professor

Address for Communication: (office): Department of Pharmaceutics, School of Pharmaceutical Sciences, Girijananda Chowdhury University, Pharmacy Building, Azara, GHY-17.

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**Date of Birth:** 03-11-1994

**Educational Qualifications:** M. Pharm, MBA, PhD (Pursuing) (Cancer Drug Delivery)

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| Sl. No. | Examination Passed | Year of passing | Board / Council / |  |
|  |  |  | University | Specialization |
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| 1 | HSLC/10th Std. | 2010 | SEBA | N/A |
| 2 | HSSLC/10+2 Std. | 2013 | AHSEC | Science |
| 3 | B. Pharm | 2017 | Assam Science and Technology University | Pharmacy |
| 4 | M. Pharm | 2020 | Mizoram University | Pharmaceutics |
| 6 | Ph. D. (Pursuing) | 2026 (Expected) | Dibrugarh University | Cancer Drug Delivery |
| 7 | MBA | 2026 (Expected) | Mizoram University | Marketing |
| 8 | PGDCA | 2013 | IITA, Guwahati | Computer Application |

**Languages known:**

Read : Assamese, English, Hindi, Bengali

Write: Assamese, English

Speak: Assamese, English, Hindi

**Academic/ Administrative Experience:**

1. **University-Level Teaching & Mentorship:** Served as an Assistant Professor at Girijananda Chowdhury University, delivering lectures in pharmaceutics and mentoring both postgraduate and undergraduate student research projects to foster academic growth.
2. **Advanced Pharmaceutical Research:** Engaged in high-impact research on anticancer nanoformulations, diabetes, and advanced pulmonary drug delivery systems through government-funded projects (DST & AICTE) and as a Junior Research Fellow.
3. **Prolific Scientific Author & Reviewer:** Authored and edited over 18 peer-reviewed publications in reputable journals and actively serve as a peer reviewer for high-impact journals such as the *International Journal of Nanomedicine*.
4. **Accreditation & Quality Assurance Coordination:** Played a key administrative role as the **NAAC Coordinator** and **Quality Council of India (QCI) Criteria Coordinator**, managing documentation and processes to meet national quality standards.
5. **Student Placement & Career Services:** Acted as the **NBA Placement File Coordinator**, demonstrating administrative experience in managing crucial documentation for professional accreditation and student career outcomes. Actively contributed to student career development by serving as a panelist for mock placement interviews, providing valuable feedback and preparation for professional roles.
6. **Financial Management & Alumni Relations:** Held the position of **Treasurer for the Girijananda Chowdhury University Alumni Association**, managing financial responsibilities and fostering engagement within the alumni network.
7. **Expertise in Advanced Analytical Techniques:** Possess hands-on proficiency with a wide range of sophisticated analytical instruments, including HPLC, SEM, DSC, GC, TEM, IR, and fluorescence microscopy, crucial for advanced research.
8. **Patented Inventor:** Successfully granted a German patent for a novel multiepitope vaccine design and have a published Indian patent for a surgical stiletto, highlighting a strong capacity for innovation.
9. **In-Vitro Cell-Based Research Specialist:** Gained extensive experience in cancer and normal cell line studies at CSIR-NEIST, utilizing a comprehensive set of techniques including MTT assays, Western Blotting, RT-PCR, and cell cycle analysis.
10. **Project Management & Grant Experience:** Successfully contributed to prestigious government-funded research projects, overseeing work on nanoconjugation, dry powder inhaler (DPI) formulation, and in-vivo studies in animal models.

**List of Publications:**

1. Lahan, M., **Saikia, T\***., Baishya, R., Bharali, A., Baruah, S., Ghose, S., Biswas, N., Laloo, D., Medhi, S., & Sahu, B. P. (2025). Development of Dry Powder Inhaler formulation for site specific delivery of nanoconjugates loaded with Curcumin and BCL2 siRNA in Lung Cancer. *Pulmonary Pharmacology & Therapeutics*, *90*, 102361. https://doi.org/10.1016/j.pupt.2025.102361. [IF 3.4]
2. **Saikia, T**., Patowary, L., Sadhu, P., Laloo, D. (2025). Integrating Probiotics, Postbiotics, and Nanotechnology for Enhanced Treatment Efficacy in Colorectal Cancer. In: Mishra, N., Garg, A., Ashique, S. (eds) Role of Gut Microbiota and Postbiotics for Colorectal Cancer. Cancer Drug Discovery and Development. Humana, Cham. https://doi.org/10.1007/978-3-031-86065-2\_15.
3. Patowary L., **Saikia T.\*** (2025). The Role of GAD65 in Early Detection of Latent Autoimmune Diabetes in Adults (LADA). In: Grewal, A. S., Singh, N., Verma, S. (eds) Receptor-Targeted Therapies in Diabetes Mellitus: From Pathophysiology to Innovative Treatments. Nova science publisher.
4. Lahan, M., Sarma, S. K., **Saikia, T**., Dutta, K., Baishya, R., Bharali, A., ... & Sahu, B. P. (2025). QBD based and Box-Behnken Design based PLGA Nanoparticles for Sustained Release of Curcumin (Cur-PLGA-NS) In A549 Lung Cancer Cells. *Journal of Chemical Health Risks, 15,* 1440-1450. [IF-0.8]
5. Aryanfar, Y., Wu, Y., Alcaraz, J. L. G., Vidal, R. P. I., Osman, A. I., Manap, A. S. A., Afzal, S., **Saikia, T**., Chen, Z., Lu, K., Rooney, D. W., & Yap, P. (2024). 3-D models for studying microplastics effects on humans. *Microplastics in Agriculture and Food Science*, 399-423. https://doi.org/10.1016/B978-0-443-22210-8.00027-4.
6. **Saikia, T**., Sahu, B. P., & Das, M. K. (2024). Lipid-drug conjugates for cancer chemotherapy. *Lipid-Drug Conjugates*, 191-219. https://doi.org/10.1016/B978-0-443-33382-8.00008-X
7. Lahan, M., **Saikia, T**., Dutta, K., Baishya, R., Bharali, A., Baruah, S., Bharadwaj, R., Medhi, S., & Sahu, B. P.. (2024). Multifunctional approach with LHRH-mediated PLGA nanoconjugate for site-specific codelivery of curcumin and BCL2 siRNA in mice lung cancer. *Future Journal of Pharmaceutical Sciences*, *10*(1). https://doi.org/10.1186/s43094-024-00743-w. [IF-3.8]
8. **Saikia, T**., Khanam, A., Ahmed, N., Bharali, A., Kalita, T., Rajak, P., ... & Patowary, L. (2024). Disrupting Tumour Niches: Advanced Strategies for Targeting the Tumour Microenvironment in Cancer Therapy. [IF-0.8]
9. Sonowal, A., Bharali, A., **Saikia, T**., Kushari, S., Lahan, M., Kalita, J. M., Biswas, N., Laloo, D., & Sahu, B. P.. (2024). Citrus aurantifolia-derived carbon quantum dots with red fluorescence emission for codelivery with curcumin as theranostic liposomes for lung cancer. *Future Journal of Pharmaceutical Sciences*, *10*(1). https://doi.org/10.1186/s43094-024-00689-z. [IF-3.8]
10. **Saikia, T**., Rajak, P., Sahu, B. P., & Patowary, L. (2024). Enhanced Lung Cancer Therapy via Co-Encapsulation of Docetaxel and Betulinic Acid. *Drugs and Drug Candidates*, *3*(3), 566-597. https://doi.org/10.3390/ddc3030033.
11. Siddiqui, S. A., Harahap, I. A., Osei-Owusu, J., **Saikia, T**., Wu, Y. S., Fernando, I., Perestrelo, R., & Câmara, J. S. (2024). Bioconversion of organic waste by insects – A comprehensive review. *Process Safety and Environmental Protection*, *187*, 1-25. https://doi.org/10.1016/j.psep.2024.04.122. [IF-7.8]
12. Borah, C., **Saikia, T**., Bharali, A., Lahan, M., Biswas, N., & Sahu, B. P. (2024). Development of Paclitaxel Proliposomal Dry Powder Inhaler (PTX-PLM-DPI) by Freeze-Drying Method for Lung Cancer. *Drugs and Drug Candidates*, *3*(1), 275-290. https://doi.org/10.3390/ddc3010016.
13. **Saikia, T**., Kalita, T., Sahu, B. P., Rajak, P., Deka, B., & Bharali, A. (2024). Mechanistic Aspects of Neurodegeneration in Alzheimer's Disease and the Role of Phytochemicals. In *Computational and Experimental Studies in Alzheimer's Disease* (pp. 91-121). CRC Press.
14. Siddiqui, S.A., Wu, Y.S., **Saikia, T**. *et al.* Production and growth of microalgae in urine and wastewater: A review. *Environ Chem Lett* **21**, 2789–2823 (2023). https://doi.org/10.1007/s10311-023-01622-1. [IF-20.4]
15. Osman, A. I., Hosny, M., Eltaweil, A. S., Omar, S., Elgarahy, A. M., Farghali, M., Yap, P.-S., Wu, Y.-S., Nagandran, S., Batumalaie, K., Gopinath, S. C. B., John, O. D., Sekar, M., **Saikia, T**., Karunanithi, P., Hatta, M. H. M., & Akinyede, K. A.. (2023). Microplastic sources, formation, toxicity and remediation: a review. *Environmental Chemistry Letters*, *21*(4), 2129–2169. https://doi.org/10.1007/s10311-023-01593-3. [IF-20.4]
16. **Saikia, T**., Devi, C. M., Rymbai, B., Mawlieh, B. H., & Kumar, A. K. (2022). Effect of amorphous solid dispersions (ASDs) on the bioavailability of drug. In Recent Trends in Medical Pharmaceuticals. Innovat Publisher.
17. **Saikia, T**., Sahu, B. P., & Das, M. K. (2021). Safety evaluation and assessment of nanocosmeceutical products. *Nanocosmeceuticals*, 511-524. https://doi.org/10.1016/B978-0-323-91077-4.00004-1.
18. **Saikia, T**., Lalhlenmawia, H., Laldinchhana, R. P., & Thanzami, K. (2020). Effect of polymeric nanoparticles of curcumin on a549 cell line. *International Journal of Current Pharmaceutical Research*, *12*(5), 50-53.
19. **Saikia, T**. (2019). Formulation evaluation and optimization of Metfromin HCl matrix tablet using natural polymer. *International Journal of Pharmaceutical Sciences and Research, 10*(12): 5435-42. 10.13040/IJPSR.0975-8232.10(12).5435-42.
20. Amin, R., **Saikia, T**., & Das, B. (2017). Formulation evaluation and optimization of Metfromin HCl matrix tablet using natural polymer. *World Journal of Pharmacy and Pharmaceutical Sciences, 6*: 574-583. 10.20959/wjpps201710-9427.
21. Ali, J., Das, B., & **Saikia, T**. R. I. D. E. E. P. (2017). Antimicrobial activity of lemon peel (Citrus limon) extract. *International Journal of Current Pharmaceutical Research*, *9*(4), 79-82.
22. **Saikia, T**., Ali, J. & Das, B. (2017). Isolation and characterization of tamarind seed polysaccharides—A natural release retardant. *International Journal of Current Pharmaceutical Research*, *9*, 114-117.

**Membership of Professional bodies:**

1. Lifetime member of Indian Pharmaceutical Association (IPA)

**Award, Fellowship & Recognition:**

1. **Patent Holder** (German Patent – Multiepitope Vaccine Design; Indian Patent – Surgical Stiletto for Zebrafish Brain Extraction)
2. **Reviewer** for high-impact journals: International Journal of Nanomedicine (IF-7.7), Journal of Inflammation Research (IF-4.5), Cancer Management and Research (IF-2.6), Drug Delivery and Industrial Pharmacy (IF-3.3), Onco targets and therapy 9IF-2.7), Nanotechnology, Science and Applications (IF 5.3)
3. Presented at prestigious conferences like ESTEC-2020, 68th IPC, and NEPC 2017.



Date:28/07/2025

Name: Trideep Saikia