

List of Publication for the academic session Jan-March 2024

School of Pharmaceutical Sciences, GCU (Guwahti), Assam.

❖ **Research publications**

1. **Bhuyan C, Saha D, Rabha B.** Repellent activity of *Vitex negundo* and *Curcuma longa* herbal extract against simuliid species in India. *Journal of Vector Borne Diseases*. 2024;10:4103. https://doi.org/10.4103/JVBD.JVBD_181_23 (Published 12/04/2024) **GCU**
2. Usapkar P, Saoji S, Jagtap P, Ayyanar M, Kalaskar M, Gurav N, Nadaf S, Prasad SK, **Laloo D**, Khan MS, Chikhale R, Gurav S. QbD-guided phospholipid-tagged nanonized boswellic acid nanosomal delivery for effective rheumatoid arthritis treatment. *International Journal of Pharmaceutics*: X. 2024; 100257. <https://doi.org/10.1016/j.ijpx.2024.100257> (Article-in-press) [Elsevier; Indexed in Scopus, Web of Science, SCI; Impact factor-4.7] **GCU**
3. Siddiqui SA, Ngah N, Wu YS, **Kalita T**, Yudhistira B, Ibrahim SA. Lab-grown insect meat – Chemical and biological insights – A comprehensive review. *Journal of Insects as Food and Feed*. 2024. (Wageningen Academic, Indexed in Scopus, Impact Factor- 5.7) (Article-in-press). <https://doi.org/10.1163/23524588-00001131> **GCU**
4. Hazarika S, Thakur S, Jadhav HR, Chetia P, **Laloo D**, Hemalatha S. Investigation of antibacterial potential of *Natsiatum herpeticum* Buch.-Ham. ex Arn. using in silico-in vitro approach. *South African Journal of Botany*. 2024;164:167-179 (Published January 2024)[Indexing: Web of Science; IF: 3.1]. **GCU**
5. Borah C, **Saikia T, Bharali A**, Lahan M, **Biswas N, Sahu BP**. Development of Paclitaxel Proliposomal Dry Powder Inhaler (PTX-PLM-DPI) by Freeze-Drying Method for Lung Cancer. *Drugs and drug candidates*. 2024;3(1), 275-290. (Published 5th March 2024) **GCU**
6. Prasad RS, Kalita JM, Rai N, Yenorkar NY, Dhaswadikar SR, Sharma P, Dhobi M, **Laloo D**, Sinha SK, Itankar PR, Prasad SK. Antidiarrhoeal screening of Himalayan edible plant *Begonia rubrovenia* and its marker followed by its validation using computational analysis. *Future Journal of Pharmaceutical Sciences*, 2024; 10:27. (27 Feb 2024) [Indexing: Web of Science; IF: 2.6]. **GCU**
7. Alam F, Yakin J*, Baishya D, Sarma A, Zaman H, Umam A, Jyoti S K, **Sarma D**. Preliminary *in vitro* assessment of antimicrobial and haemostatic activity of Spider Web Silk Extract. *International Journal of Zoological Investigations*. 2024;10(1): 316-322. [Indexing: Web of Science]. **GCU**
8. Juti Rani Devi, **Arundhuti Kashyap**, B. Das. Formulation, Optimization and Evaluation of Sustained Release Tablet of Tramadol Hydrochloride. *Indian Journal of Pharmaceutical Sciences*. 2024;86(2):692-702. [Indexing in Scopus] **GIPS-G**

❖ **Review publications**

1. **Ian Stewart Suchiang.** A review on *Dendrocnide sinuata* (Blume) chew: A medicinal plant utilized by Tribes in North East, India. *Journal of Pharmacognosy and Phytochemistry*. 2024;13(2): 601-604. <https://doi.org/10.22271/phyto.2024.v13.i2d.14899>
2. Baruah H, **Sarma A**, Basak D, Das M. Exosome: From biology to drug delivery. *Drug Delivery and Translational Research*. 2024:1-37. [Indexing: Web of Science; IF: 5.4]. Doi: 10.1007/s13346-024-01515-y. (Published January 2024) **GCU**

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3. Arandhara A, **Saha D**, Deka DJ, **Deka M** and **Das BK***. Redox Imbalance and Cardiovascular Pathogenesis: Exploring the Therapeutic Potential of Phytochemicals, Current Bioactive Compounds 2024; Doi: <http://dx.doi.org/10.2174/0115734072279525231210144617> (**Published January 2024**) [**Indexing: Web of Science; IF: 0**]. **GCU**
4. Bhuyan N, **Ghose S**, **Biswas N**, Sultan JA, **Laloo D**. From Bench to Bedside: Unveiling the Effects of Phloroglucinol as a Promising Neuroprotective Agent in the Battle Against Neurodegenerative Disorders. Current Behavioral Neuroscience Reports. 2024 179 (**Published 30th January 2024**) [**Indexing: Web of Science; IF: 1.7**]. **GCU**
5. Chavda VP, Luo G, Bezbaruah R, **Kalita T**, **Sarma A**, Deka G, Duo Y, **Das BK**, Shah Y, Postwala H. Unveiling the promise: Exosomes as game-changers in anti-infective therapy. Exploration. 2024; 20230139. <https://doi.org/10.1002/EXP.20230139> (Published January 2024)
6. Sultana A, **Borgohain R**, Rayaji A, **Saha D.**, **Das BK**. Promising phytoconstituents in diabetes-related wounds: Mechanistic insights and implications. Curr. Diabetes Rev. 2024. (27 Feb 2024)[**Indexing: Scopus; IF: 3.3**]. **GCU**
7. **Kalita T**, Choudhury A, Shakya A, Ghosh SK, Singh UP, Bhat HR. A review on synthetic thiazole derivatives as an antimalarial agent. Current Drug Discovery Technologies (Preprint). 2024. [**Indexing: Web of Science**]. (**Published Jan 2024**) **GCU**
8. Siddiqui SA, Asante K, Ngah N, Saraswati YR, Wu YS, **Lahan M**, Aidoo OF, Fernando I, Povetkin SN, Castro-Muñoz R. Edible dragonflies and damselflies (order Odonata) as human food – A comprehensive review. Journal of Insects as Food and Feed. 2024. (**Article-in-progress**). (**Wageningen Academic, Indexed in Scopus, Impact Factor- 5.7**) <https://doi.org/10.1163/23524588-20230097>

❖ Book Chapters

1. **Saikia T**, **Kalita T**, **Sahu, BP**, Rajak P, **Deka B**, **Bharali A**. Mechanistic aspects of Neurodegeneration in Alzheimer's disease and the role of Phytochemicals. In: Bhattacharya K, Bhattacharjee A (Eds). Computation and Experimental Studies in Alzheimer's Disease. **2024**, Chapter 6, 1st Edition. CRC Press, Taylor & Francis. ISBN 9781003412069. (**Published March 2024**) **GCU**
2. Nongrang L, Bezbaruah R, **Kalita T**, Deka K, Gogoi B, Sadhu P. Global Impact of Delta and Omicron Variants of SARS-CoV-2. In: Chavda VP, Uversky VN (Eds) SARS-CoV-2 Variants and Global Population Vulnerability. **2024**. Chapter 5, 1st Edition. CRC Press, Taylor & Francis. ISBN 9781774917589. (**Published July 2024**) **GCU**

School of Pharmaceutical Sciences, GCU (Tezpur), Assam.

❖ Research publications

List of Publication for the academic session Jan-March 2024

1. Sahariah M, Chowdhury R, Pegu P, Ali F, Dutta RS, Sahu S. Design, synthesis and in-vitro anti-depressant activity evaluation of some 2-styrylbenzimidazole derivatives. Future Journal of Pharmaceutical Sciences. 2024 Feb 15;10(1):20. <https://doi.org/10.1186/s43094-024-00589-2> [Indexing: Web of Sciences; IF: 2.6]. (Published Feb 2024) **GCU**
2. Dutta RS, Sahu S, Baishya R, Pachuau L, Kakoti BB, Mazumder B. Essential oils extracted from *Citrus macroptera* and *Homalomena aromatica* (Spreng.) Schott. exhibit repellent activities against *Aedes aegypti* (Diptera: Culicidae). Journal of Vector Borne Diseases.:10-4103. <https://doi.org/10.4103/0972-9062.392256> (Published March 2024) **GCU**.
3. Rajat Subhra Dutta, Gamal Osman Elhassan, Takhellambam Bidyapati Devi, Bedanta Bhattacharjee, Mohini Singh, Bani Kumar Jana, Supriya Sahu, Bhaskar Mazumder, Ram Kumar Sahu, Jiyauddin Khan. Enhanced efficacy of β -carotene loaded solid lipid nanoparticles optimized and developed via central composite design on breast cancer cell lines. Heliyon. 2024; e28457. <https://doi.org/10.1016/j.heliyon.2024.e28457> [Indexing: Scopus, ESCI; IF: 4.0] (Accepted March 2024) **GCU**.
4. Abdul Baquee Ahmed, Purbajit Chetia. Selegiline modulates inflammatory indicators in RAW 264.7 macrophages and LPS-aggravated CFA-induced rheumatoid arthritis in rats. Eur J Clin Exp Med 2024; 22 (1): 6–16. <https://doi.org/10.15584/ejcem.2024.1.12>

❖ Review publications

1. Ali SR, Deor C, Gogoi GK, Borah NJ, Kalita PP, Chowdhury R, Kaur S, Kakoti BB. Liposomal nano particles in the treatment of colorectal and ovarian cancer. European Journal of Medicinal Chemistry Reports. 2024;15:100149. <https://doi.org/10.1016/j.ejmcr.2024.100149> [Indexing: Scopus; IF: 2.6]. (Published March 2024) **GCU**
2. Dhameliya TM, Patel DS, Kathuria D, Shah MB, Dabhade AS, Dave HS, Lad NC, Chaudhari AZ, Alom S, Vyas VK, Bhatt HG. Biannual account of anti-malarial agents reported in 2021 and 2022: A Comprehensive Coverage. ChemistrySelect. 2024 Mar 11;9(10):e202303982. <https://doi.org/10.1002/slct.202303982> (Published March 2024) **GCU**
3. Bhattacharjee B, Rynjah D, Ahmed AB, Newar A, Sengupta S, Chakrabarty S, Sahu RK, Khan J. Overview of diagnostic tools and nano-based therapy of SARS-CoV-2 infection. Chemical Papers. 2024 Jan 17:1-32. <https://doi.org/10.1007/s11696-023-03271-8> (Published Jan 2024) **GCU**.
4. Bhattacharjee B, Rynjah D, Newar A, Chakrabarty S, Kumar Sahu RK. Antihelmintic Herbal Remedies of North Eastern India: An Ethopharmacological Exploration. Current Traditional Medicine. 2024; e080324227791. <https://doi.org/10.2174/0122150838281547240219114943> [Indexing: Scopus, ESCI; IF: 0.6]. (Published March 2024) **GCU**.
5. Bhattacharjee B, Rynjah D, Ahmed AB, Newar A, Sengupta S, Chakrabarty S, Sahu RK, Khan J. Overview of diagnostic tools and nano-based therapy of SARS-CoV-2 infection.

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Chemical Papers. 2024; 78, 2123–2154. <https://doi.org/10.1007/s11696-023-03271-8> [Indexing: Scopus, ESCI; IF: 2.2]. (Published January 2024). **GIPS-Tezpur.**

6. Vivek P Chavda, Pankti C Balar, Rajashri Bezbaruah, Dixia A Vaghela, **Damanbhalang Rynjah, Bedanta Bhattacharjee**, Vrashabh V Sugandhi, Ana Cláudia Paiva-Santos. Nanoemulsions: summary of a decade of research and recent advances. Nanomedicine. 2024;19: 519-536. <https://doi.org/10.2217/nnm-2023-0199> [Future Science Group, Indexed in Scopus, Impact Factor-5.5]. (Published 31th January 2024). **GCU**
7. Harshadeep Seal, Namrata Koushik. Artemisia: A Promising Herbal Approach for the Treatment of Cancer. International Joournal of Research in Pharmacy and Allied Science. 2024; 3(1): 147-152. **GIPS-T**

❖ **Book Chapters**

1. Niva Rani Gogoi, Rajashri Bezbaruah, Vishwa Patel, Riyansi Satasia, Bedanta Bhattacharjee, Bhaskar Mazumder. Chapter 14: Regulatory Pathways for Nanocarrier Vaccine. In: Vivek P. Chavda, Vasso Apostolopoulos (Eds), Nanocarrier Vaccines: Biopharmaceutics-Based Fast Track Development. <https://doi.org/10.1002/9781394175482.ch14> [Wiley Online Library]. (Published 16th February 2024). **GCU**
2. **Bhattacharjee B**, Sandhanam K, **Ghose S**, Barman D, Sahu RK. Market Overview of Herbal Medicines for Lifestyle Diseases. In: Dhara, A.K., Mandal, S.C. (eds) Role of Herbal Medicines. Springer, Singapore. https://doi.org/10.1007/978-981-99-7703-1_30 (Published 27th February 2024) **GCU**
- 3.

School of Natural Sciences, Dept. of Mathematics, GCU, Assam.

❖ **Research publications**

1. Qianqian Li, **Ankur Jyoti Kashyap**, Qun Zhu, Fengde Chen. Dynamical behaviours of discrete amensalism system with fear effects on first species. Mathematical Biosciences and Engineering. 2024; 21(1): 832-860. (SCIE IF 2.6, SCOPUS), <https://doi.org/10.3934/mbe.2024035> (Published Jan 2024) **GCU.**
2. **Moytri Sarmah**. Total near-ring graph. Journal of Algebraic Systems. 2024. <https://doi.org/10.22044/JAS.2024.13537.1753> (Article-in-Press)

School of Natural Sciences, Dept. of Zoology, GCU, Assam.

❖ **Research publications**

1. Sanghamitra Saharia, Manabendra Nath, Shibani Kalita, Dimpimoni Kalita and **Sunayan Bardoloi**. Identification and toxicity evaluation of *Beauveria* sp. associated with white Muscardine disease in Muga silkworm *Antheraea assamensis* Helfer. Indian Journal of Entomology. 2024:e24698. <https://doi.org/10.55446/IJE.2024.1698> (Published Feb 2024) **GCU**

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School of Natural Sciences, Dept. of Physics, GCU, Assam.

❖ Research publications

1. **Jyoti Prasad Deka.** Synchronization Dynamics in the Spatial Evolution of Optical Power in Optical Oligomer. arXiv preprint arXiv: 2405.00976. 2024.
<https://doi.org/10.48550/arXiv.2405.00976>

School of Engineering & Technology, Dept. of Mechanical Engineering, GCU, Assam.

❖ Research publications

1. Avadhoot Mohite, Bhaskor Jyoti Bora, Prabhakar Sharma, Suat Sarıdemir, **Debarshi Mallick**, Sunil S, Ümit Ağbulut. Performance enhancement and emission control through adjustment of operating parameters of a biogas-biodiesel dual fuel diesel engine: An experimental and statistical study with biogas as a hydrogen carrier. International Journal of Hydrogen Energy. 2024;52:752-764.
<https://doi.org/10.1016/j.ijhydene.2023.08.201> [Indexing: Scopus, SCIE; IF: 7.2]
(Published Jan 2024) **GCU**

School of Engineering & Technology, Dept. of Civil Engineering, GCU, Assam.

❖ Research publications

1. **Kaushik S**, Dasgupta K. Evaluation of plastic hinge length in RC shear wall connected with floor slabs. Discover Civil Engineering. 2024; 1:10. <https://doi.org/10.1007/s44290-024-00010-0> [Springer Link] (Published Jan 2024) **GCU**

❖ Patent

1. **S. Robert Ravi.** High Performance Eco-friendly Construction Materials for Sustainable Infrastructure Development Ref.No: 202441009054, Filed on 10.02.24, Published in Journal no: 10/2024, Part 1, dt: 08.03.2024 Intellectual Property India, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India. **GCU**

❖ Book Chapter

1. **S. Robert Ravi.** Environmental impact assessment processes & attributes. Futuristic Trends in Social Sciences, e-ISBN: 978-93-5747-727-7, IIP Series, Volume 3, Book 7, Part 1, Chapter 8, Environmental Impact Assessment Processes & Attributes. **GCU**

School of Engineering & Technology, Dept. of Computer Science and Engineering, GCU, Assam.

❖ Research Publications

List of Publication for the academic session Jan-March 2024

1. **Manjula Kalita**, Lipi B. Mahanta, Anup Kumar Das, Mananjay Nath. A new deep learning model with interface for fine needle aspiration cytology image-based breast cancer detection. Indonesian Journal of Electrical Engineering and Computer Science. 2024;34:1739-1752. [Indexing: Scopus, SCIE; IF: 0] (Article-in-press) **GCU**

School of Business management & Commerce, Dept. of Business Administration, GCU, Assam.

❖ Research Publications

1. **Dhruva Jyoti Sharma**, Nripendra Narayan Sarma. Impact of Behavioral Biases on Fundamental Analysis Factors of Investment Decision: A Study on Retail Investors in Assam. IUP Journal of Applied Finance. 2024;30(1). **GCU**

School of Humanities and Social Sciences, Dept. of English, GCU, Assam.

❖ Book Chapter

1. **Goswami, N.** Voicing the Slum. In: Rajendra Baikady), S.M Sajid, Jaroslaw Przeperski, Varoshini Nadesan, M. Rezaul Islam, Jianguo Gao (Eds). The Palgrave Handbook of Global Social Problems. Palgrave Macmillan, Cham. 2024. https://doi.org/10.1007/978-3-030-68127-2_341-1 **GCU [Springer Link] (Published January 2024)**