

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 simulium 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 naturosomal 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**

List of Publication for the academic session Jan-March 2024

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-press). (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, Pachua L, Kakoti BB, Mazumder B. Essential oils extracted from *Citrus macroptera* and *Homalomena aromatic* (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.

List of Publication for the academic session Jan-March 2024

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, Dixa 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 Kalita1 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/10.5544/IJE.2024.1698> (Published Feb 2024) **GCU**

List of Publication for the academic session Jan-March 2024

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 Saridemir, **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)**