

List of Publication for the academic session July 2022-Dec 2023

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

Research/Review publications

1. **Kushari S**, Hazarika I, **Laloo D***, **Kumar S**, **Kalita JM**, **Sarma H****. An integrated computational approach towards the screening of active plant metabolites as potential inhibitors of SARS-CoV-2: an overview. *Structural Chemistry*. 2023; 34: 1073-1104. <https://doi.org/10.1007/s11224-022-02066-z> (**Impact factor 1.7, Springer publication**) (01 October 2022). GIPS
2. **Kalita A**, **Bharadwaz A**, **Kaushik D**, **Kumar S***, **Sarma H****, **Kushari S**, **Bharali A**, **Deka B**, **Hazarika I**, **Laloo D**. *Tamilnadiauliginosa* (Retz) Tirveng and Sastre: Potential Application from Traditional Remedies to Modern Therapeutics. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 2023; 93(1): 1-15. <https://doi.org/10.1007/s40011-022-01386-8> (**Impact Factor 0.9, Springer Nature India publication**) (01 August 2022). GIPS
3. **Sarma A***. Biological importance and pharmaceutical significance of keratin: A review. *International Journal of Biological Macromolecules*. 2022, 219: 395-413. <https://doi.org/10.1016/j.ijbiomac.2022.08.002> (**Impact Factor 8.2, Elsevier**) (8 August 2022). GIPS
4. **Sahu BP***, **Baishya R**, **Hatiboruah JL**, **Laloo D**, **Biswas N**. A comprehensive review on different approaches for tumor targeting using nanocarriers and recent developments with special focus on multifunctional approaches. *Journal of Pharmaceutical Investigation*. 2022; 52(5): 539-585. <https://doi.org/10.1007/s40005-022-00583-x> (**Springer Nature Singapore, Impact Factor: 5.5**) (28 July 2022). GIPS
5. **Prasad RS**, **Dhaswadikar SR**, **Laloo D**, **Dhobi M**, **Itankar PR**, **Prasad SK**. Quality control profiling, nutritional analysis and phytochemical standardization of a vegetable root *Begonia roxburghii*. *Vegetos*. 2022. <https://doi.org/10.1007/s42535-022-00446-8> (**Impact Factor 0.9, Springer Nature Singapore**). (30 August 2022). GIPS
6. **Das SRC**, **Ahmed S**, **Borgohain R**, **Debnath JK**, **Panda SK**, **Saxena PK**. Therapeutic Potential, medicinal importance of traditional Indian Herb *EmbelicaOfficinalis*, *Neuroquantology*, 2022; 10(10):984-994. (August 2022). GIPS
7. **Das BK**. Altered gut microbiota in hepatocellular carcinoma: Insights into the pathogenic mechanism and preclinical to clinical findings. *APMIS*. 2022; 130 (12): 719-740. <https://doi.org/10.1111/apm.13282> (**Impact factor 2.8; Wiley Online Library**). (02 November 2022). GIPS
8. **Chavda VP**, **Bezbaruah R**, **Deka K**, **Nongrang L**, **Kalita T**. The Delta and Omicron Variants of SARS-CoV-2: What We Know So Far. *Vaccines (Basel)*. 2022 Nov 14;10(11):1926. <https://doi.org/10.3390/vaccines10111926> (**Impact Factor 7.8, MDPI**) (14 November 2022). GIPS
9. **Chavda V**, **Bezbaruah R**, **Kalita T**, **Sarma A**, **Devi JR**, **Bania R**, **Apostolopoulos V**: Variant influenza: connecting the missing dots. *Expert Review of Anti-infective Therapy*.

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- 2022, 20(12):1567–1585. <https://doi.org/10.1080/14787210.2022.2144231> (Impact Factor 5.7, Taylor & Francis Group) (18 Nov 2022). GIPS
10. Bezbaruah R, Chavda VP, Nongrang L, Alom S, Deka K, **Kalita T**, Ali F, Bhattacharjee B, Vora L. Nanoparticle-Based Delivery Systems for Vaccines. *Vaccines* (Basel). 2022 Nov 17;10(11):1946. <https://doi.org/10.3390/vaccines10111946> (Impact factor 7.8, MDPI) (17 Nov 2022). GIPS
 11. Kuppaswamy U, **Rajan RK**, Kumar A, Ramanathan M. In-silico and in-vitro analysis of novel substituted benzimidazolyl derivatives for antimycobacterial potentials targeting enoyl acyl carrier protein reductase (InhA). *Future Journal of Pharmaceutical Sciences*. 2022; 8(1):1-9. <https://doi.org/10.1186/s43094-022-00449-x> (Impact Factor 2.6; Springer Open). (22 December 2022). GIPS
 12. Kalita P, **Ahmed AB**, Sen S, Chakraborty R. Citric acid esterified Glutinous Assam bora rice starch enhances disintegration and dissolution efficiency of model drug. *International Journal of Biological Macromolecules*. 2023 Feb 1;227:424-36. <https://doi.org/10.1016/j.ijbiomac.2022.12.149> [Impact Factor-8.025, Elsevier] (21 December 2022). GIPS
 13. **Alom S**, Ali F, Ali SR, **Ahmed AB**. Phytochemistry and Pharmacological Properties of *Morus alba* Linn. with Reference to its SARS-CoV-2 Inhibiting Potential. *Asian Journal of Chemistry*. 2022:1983-92. <https://doi.org/10.14233/ajchem.2022.23891> [Impact Factor-0.15, Asian Publication Corporation] (July 2022). GIPS
 14. **Alom S**, Kalita D, Ahmed J, Rahman K, Boruah M, Sarmah M, Das N, Ali F. Phytochemistry, ethnobotany and pharmacological uses of *Tinospora cordifolia* with special reference to SARS-COV-2. *Asian Journal of Chemistry*. 2022:2786-96. <https://doi.org/10.14233/ajchem.2022.23970> [Impact Factor- 0.15, Asian Publication Corporation] (19 October 2022). GIPS
 15. Mahapatra C, **Bora SC**, Choudhury S, Barman D, Tripathy S, Kaushik S. Anti-cancer potential of quinoxaline derivatives: current scenario and future perspective. *Journal of Pharmaceutical Negative Results*. 2022;17:2344-51. <https://doi.org/10.47750/pnr.2022.13.S07.320> [Impact Factor- 0.128] (17 Dec 2022). GIPS

Book Chapter:

1. Zothantluanga JH, Umar AK, Lahlhenmawia H, Vinayagam S, Borthakur MS, **Patowary L**, Tayeng D. Computational screening of phytochemicals for anti-parasitic drug discovery. In: Egbuna C, Rudrapal M, Tijjani H (Eds.). *Phytochemistry, Computational Tools and Databases in Drug Discovery*, 2023, Chapter 12, pp. 257-283, **Elsevier**, ISBN: 9780323905930. (30, November, 2022). GIPS
2. **Saikia T**, **Sahu BP**, Das MK, Safety Evaluation and assessment of nanocosmeceutical products in *Nanocosmetecuticals: Innovation, application and Safety*, **Elsevier publication**, Academic Press, 2022, ISBN:978-0-323-91077-4 (26 August 2022). GIPS

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3. **Chakraborty T, Sarma A.** Toxicity of nanostructures and nanodrugs. In: Rudrapal M (Ed) Phytoantioxidants and Nanotherapeutics. 2022, Chapter 13, pp. 267-287, ISBN (Print): 9781119811770, ISBN (Online): 9781119811794, **John Wiley & Sons, Inc.** <https://doi.org/10.1002/9781119811794.ch13>. (Sept 2022). GIPS
4. **Bharali A, Deka B, Sarma H, Ahmed A, Bhattacharjee B, Sarma S, Kumar S, Kushari S, Devi R.** The Role of Vitamin D in the Restriction of the Progress and Severity of COVID-19 Infection. In: Fedotova J. Vitamin D Deficiency: New Insights, 2022, Chapter 5, Intech Open. <http://dx.doi.org/10.5772/intechopen.106980> (22 September 2022). GIPS

Patent (National & International)

1. Barman D, Chakraborty DD, **Das SRC**, Chowdhury S, **Das T**, Sarma U, Shil D, Thapa G, Yadav P. A nanoformulation protein with cardioprotective activity. **2022**, German Patent, Application no.: 202022104840, Date- 26/09/2022.
2. **Bhattacharjee Bedanta**, Das Soma, Kalita Pallab, Kalita Rupjyoti, Kushwaha Poonam, Mittal Gaurav, Sarkar Dhurbajyoti, Sen Ashim Kumar, Somwanshi Bhagwat Tukaram. A Novel Herbal Formulation for the Prevention and management of Cardiovascular Disease, **2022**, German Patent, Application number: 20 2022 103 773.6, Date- 2022.
3. Ahmed A, Awasthi S, Dwivedi A, Nath TM, **Rynjah D**, SahooN, Saikia K, Sarmah J, Singh L. Fabrication of Lipid-Based Nanocarrier Drug Delivery for an Antibiotic, **2022**, German Patent, Application Number: 20 2022 104 605, Date- 2022.

School of Engineering and Technology, GCU, Assam.

[A] Department of Mechanical Engineering

Research/Review publications

1. **Pathak KK**, Giri A, Bhuyan D, Roy K. A comparative numerical study of estimation of velocity components in mixed convection through vertical shrouded plate finned channel. **Journal of Thermal Science and Engineering Applications**. 2022, 14(12): 121013. <https://doi.org/10.1115/1.4055264> (Impact Factor: **2.1**, American Society of Mechanical Engineers). (22 September, 2022). GIMT

Book Chapters

1. **Mallick D**, Goswami M, Bhuyan D. Pyrolysis characterization of biomass feedstock using thermogravimetric analysis. In: Revankar S, Muduli K, Sahu D (Eds.). Recent advances in thermofluids and manufacturing engineering: Lecture Notes in Mechanical Engineering,

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Select proceedings of ICTMS, 2022. Print ISBN: 978-981-19-4387-4, Online ISBN: 978-981-19-4388-1. https://doi.org/10.1007/978-981-19-4388-1_28(Springer Nature Singapore).(01 October 2022).GIMT

School of Natural Sciences, GCU, Assam.

[A] Department of Physics

Book Chapters:

1. Deka RC, Sarma PJ, **Deka A**, Biswakarma N, Dowerah D, Baruah SD. Mechanistic details of catalytic hydrogenation of CO₂ to useful chemicals using SnO₂ clusters. In: Sudarsanam P, Yamauchi Y, Bharali P (Eds.). Heterogeneous nanocatalysis for energy and environmental sustainability: Environmental Applications, 2022, Volume 2, Chapter 25, pp 303-335, ISBN: 978-1-119-77202-6 (**John Wiley & Sons, Inc.**) (11 November 2022). GIMT