

# Publication

## Patents

1. Ved Prakash Verma, Debanjan Sen, **Sudhan Debnath**, Amitava Das, Synthesis and anticancer activity of hydrazide derivatives of N-amino-11-azaartemisnin, App. Number: TEMP/E-1/33978/2022-DEL Ref. 202211030491 (**Published**)
2. Swapan Majumdar, Debanjan Sen, **Sudhan Debnath**, Amitava Das, Compositions comprising bis-indolyl derivatives having anti-cancer activity, a process for the preparation thereof, and the use of the compounds for the treatment of cancer, App. Number: TEMP/E-1/21071/2023-KOL, Ref. 202331017811 (**Published**).
3. **Basu Maan Daas**, Design No.320743-001 in Indian Patent Office Journal No. 40/2019 Dt. 04.10.2019 (Granted).

## Publications in Journal

### 2025

1. **Debashis Roy Chowdhury**, Debanjan Sen, Sagnik Jyoti Roy, Swapan Majumdar, Sudhan Debnath, Discovery of Potential Selective HDAC8 Binders: Using Combination of Pharmacophore Based- Structure Based Virtual Screening, ADME Filtration, and Molecular Dynamics Studies, *ChemistrySelect*, **2025**, <https://doi.org/10.1002/slct.202500646> (Impact: 2.0)
2. **Prasenjit Debbarma**, The effectiveness of pollinators and their foraging behavior on *Neustanthus phaseoloides* (Fabaceae). *The Science of Nature*, 2025, 0028-1042 (print) 1432-1904 (web)
3. **Dipak Kumar Sarkar**, India's Partition and the Catastrophe of Chittagong Hill Tract (CHT): A Retrospection, *International Journal of Multidisciplinary Research*, 2025, 2277-7881
4. **DIPAK KUMAR SARKAR**, BIRSA MUNDA AND HIS STRUGGLE AND HIS STRUGGLE FOR THE ESTABLISHMENT AND PRESERVATION OF THE INDIGENOUS RIGHTS OF THE MUNDA TRIBE, RESEARCH JOURNEY - INTERNATIONAL E-RESEARCH JOURNAL, 2025, 2348-7143

5. **Madhurima Das**, Infrastructure management of government primary schools of Khowai district, International journal of creative research thoughts, 2025 2320-2882
6. **Madhurima Das**, Status of Co-Curricular activities of Government primary schools of Khowai district, International journal of Multidisciplinary research and growth evaluation, 2025, 2582-7138
7. Anjaneyulu Bollampalli, **Sudhan Debnath**, Pradosh P. Chakrabarti, Shiva Shanker Kaki Isolation and characterization of *Zanthoxylum limonella* seed oil for biodiesel applications, **2025**, International Journal of Green Energy, DOI: 10.1080/15435075.2025.2450459 (Impact: 3.1).
8. **Supriya Dam**, New Education Policy 2020 and Its Role in Promoting Vocational Commerce Education in Tripura, India". Global Journal of Business Management, 2025, Vol.18, No.2, Pp53-66. (International Peer Reviewed and Refereed Journal). ISSN 2736-1721.
9. **Supriya Dam**, "An Interface of Pilgrims, Pera Merchants, and Hoteliers at the Mata Tripureswari Temple: A Case from Tripura, India". Atna Journal of Tourism Studies, 2025, Vol.20, No. 1, Pp25-44 (UGC Care List Publication). ISSN 09753281.
10. **Supriya Dam, Patriot Debbarma & Kishan Reang**, Sustainability of Handloom Industry for North East India: A Perspective from Tripura, *International Journal of Science and Research (IJSR)*, 2025
11. **Supriya Dam**, "Leveraging Upscale Homestays for Sustainable Tourism and Local Community Livings in Sikkim –India". Bali Journal of Hospitality, Tourism and Culture Research, 2(2), 11-20, **2025**. DOI: <https://doi.org/10.5281/zenodo.15678809>
12. **Supriya Dam**, "Preferences and Usage of E-Banking Services among Customers in Tripura, India". Editors: Rachna Rana and Pankaj Bhambri. Publisher IGI-Global, USA, **2025**, (SCOPUS Indexed International Edited Book). DOI: 10.4018/979-8-3693-8477-0.ch001
13. "House Finance in New Income Tax Regime: A Perspective". Pranesh Debnath and Biplob Kumar Dey. **Supriya Dam**, Bharti Publications (National Edited Book chapter), **2025**. ISBN: 978-93-48059-87-1 DOI: <https://doi.org/10.70381/978-93-48059-87-1.2025.6>

14. Parimal Nama Das, Ideal society as conceived by Ambedkar and its relevance, *IJMER*, **2025**, ISSN: 2277-7881

2024

15. **Sourav Ghosh**, Ultrathin lanthanide-based 2D-coordination nanosheets: A versatile class of 2D materials, *Coordination Chemistry Reviews*, 2024, 0010-8545
16. **Prasenjit Debbarma**, Influences of seasons, tissue types and locations on endophytic fungi diversity associated with *Terminalia bellirica* (Gaertn.) Roxb., *Journal of Bioresources*, 2024, 2394-4315 and 2582-2276
17. **Prasenjit Debbarma**, A Comparative Approach on the Effects of Organic Wastes for the Cultivation of Wild Edible Mushrooms along with Various Substrate Compositions. *Fungal Biotech*, 2024, 2774-0323
18. **Prasenjit Debbarma**, Diversity and seasonal variations of endophytic fungi associated with *Terminalia chebula* Retz. (Combretaceae) of Tripura, India. *Asian Journal of Mycology*, 2024, 2651-1339
19. **Prasenjit Debbarma**, Foraging behavior and pollination efficiency of generalist floral visitors of *Leucas aspera* (Willd.) Link (Lamiaceae). *Journal of Asia-Pacific Biodiversity*, 2024, 2287-884X (print) and 2287-9544 (online)
20. **Prasenjit Debbarma**, Seasonal variation and diversity of endophytic fungi in *Chromolaena odorata* (L.) King and Robinson, an invasive alien weed of Tripura, Northeast, India. *Asian Journal of Pharmacy and Pharmacology*. 2024, 2455-2674
21. **Sebika Reang**, Kavisarvabhauma Acharya Mulashankara Manekalalayanjikasya Byaktityang Krititwancha, *Vedanjali*, **2024**, 2349-364X
22. **Prasenjit Debbarma**, Diversity and seasonal variation of fungal endophytes associated with *Ageratum conyzoides* L.: an invasive species., *Vegetos*, 2024, 2229-4473
23. **Prasenjit Debbarma**, Endophytic Fungal Diversity and Seasonal Variation in *Parthenium hysterophorus* L.: an invasive plant species of Tripura, *J.Mycopathol.Res.* 2024, 0971-3719 (print) and 2583-6315 (online)
24. **Prasenjit Debbarma**, Endophytic fungal diversity in *Terminalia arjuna* (Roxb.) Wight & Arn. of Tripura, Northeast India at different sampling sites and plant organs. *Plant Science Today*, 2024, 2348-1900

25. Swathi R Shetty, **Sudhan Debnath**, Khokan Majumdar, Muthukumaran Rajagopalan, Amutha Ramaswamy, Amitava Das, Virtual screening, molecular dynamics simulations, and in vitro validation of EGFR inhibitors as breast cancer therapeutics, *Bioorganic Chemistry* 153 (2024) 107849 (**Impact: 4.5**), doi: 10.1016/j.bioorg.2024.107849
26. Rishav Mazumder, Deijy Choudhury, Alekhya Sarkar, Ashmita Ghosh, **Sudhan Debnath**, Bimal Debnath, Rajat Ghosh, In Silico Approach for Identification of Potential Tetracyclic Triterpenoids from Mushroom as HMG-CoA Reductase Inhibitor, *Aspects of Molecular Medicine*, **2024**, 4: 100053, <https://doi.org/10.1016/j.amolm.2024.100053>.
27. Alekhya Sarkar, Arjita Chakrabarti, Samhita Bhaumik, Bimal Debnath, Shiv Shankar Singh, Rajat Ghosh, Magdi E. A. Zaki , Sami A. Al-Hussain, **Sudhan Debnath\***. *Parkia javanica* edible pods reveal potential as an anti-diabetes: UHPLC-QTOF-MS/MS-based chemical profiling, *in-silico*, *in-vitro*, *in-vivo*, and oxidative stress studies, *Pharmaceuticals*, **2024**. 17(7), 968; <https://doi.org/10.3390/ph17070968> (**Impact: 4.3**)
28. Kakali Sarkar, Samir Kumar Sil, Debanjan Sen, Supratik Kar, **Sudhan Debnath\***, Crucial Structural Understanding for Selective HDAC8 inhibition: Common Pharmacophores, Molecular Docking, Molecular Dynamics, and Zinc Binder Analysis of selective HDAC8 inhibitors, *Medicinal Chemistry*, **2024**. doi: 10.2174/0115734064320232240709105228 (**Impact: 1.9**)
29. Kakali Sarkar, Maria Debbarma, **Sudhan Debnath**, Rajat Ghosh, Samir Kumar Sil\*, In Silico Identification of Dual HDAC8 and MMP9 Inhibitors by Pharmacophore Modeling, Molecular Docking, and Molecular Dynamics Simulation Studies for Development of Antitumour Agent, *Interactions*, **2024**, 245:254; <https://doi.org/10.1007/s10751-024-02083-w>.
30. Subarna Roy, Subhankar Basak, Shristi Roy, Paromita Dey, Hema Barman, Bhagat Singh, Kaushik Sarkar, Subhadeep Sen, Rajesh Kumar Das, **Sudhan Debnath\***, Goutam Biswas\*, Design, Synthesis, Molecular Docking, Pharmacokinetic Properties, and Molecular Dynamics Simulation of Sulfonyl Derivatives of Benzimidazole against Parkinson's Disease, *Current Medicinal Chemistry*, **2024** (Press). (**Impact: 3.5**), doi: 10.2174/0109298673337912241007120510
31. Manvika Karnatak, Priyanka Yadav, Komal Rathi, Monika Shukla, Prachi Dugam, Shruthi Suthakaranb, Varun Rawat, Mohammad Hassam, Aditi Pandey, Ram Awatar

- Maurya, Debanjan Sen, **Sudhan Debnath**, Amitava Dasb, Achal Mukhija, Ved Prakash Vermaa, Novel hydrazide derivatives of N-Amino-11-Azaartemisinin as Promising EGFR Inhibitors for Therapeutic Development in Triple Negative Breast Cancer, *Archiv der Pharmazie*, **2024**. doi: 10.1002/ardp.202400466. (**Impact 4.3**), 13:e2400466. doi: 10.1002/ardp.202400466.
32. Bhaumik S, Sarkar A, **Debnath S\***, Debnath B, Ghosh R, Zaki MEA, Al-Hussain SA.  $\alpha$ -Glucosidase inhibitory potential of *Oroxylum indicum* using molecular docking, molecular dynamics, and *in vitro* evaluation. *Saudi Pharm J.* **2024**, 32(6):102095 (**Impact: 4.10**), doi: 10.1016/j.jsps.2024.102095.
  33. Kakali Sarkar, **Sudhan Debnath\***, Samir Kumar Sil, Rajat Ghosh, Repurposing of DrugBank Molecules as Dual Non-hydroxamate HDAC8 and HDAC2 Inhibitors by Pharmacophore Modeling, Molecular Docking, and Molecular Dynamics Studies, *Journal of Biomolecular Structure & Dynamics*, **2024**, Accepted (**Impact 2.7**).
  34. Alekhya Sarkar, **Sudhan Debnath**, Bipul Das Chowdhury, Rajat Ghosh, Bimal Debnath, Identification of phytoconstituents from *Dicliptera paniculata* and study of antibacterial activity guided by molecular docking, *In Silico Pharmacology*, **2024**, 12(1):18. doi: 10.1007/s40203-024-00196-2
  35. Trisha Kar, Prachi Dugam, Surbhi Shivhare, Swathi R. Shetty, Subholakshmi Choudhury, Debanjan Sen, Barnali Deb, Swapan Majumdar, **Sudhan Debnath**, Amitava Das, EGFR inhibition potentiates chemotherapeutics-mediated sensitization of metastatic breast cancer stem cells, *Cancer Reports.* **2024**; 7: e2049 (Impact: 1.70), doi: 10.1002/cnr2.2049.
  36. Phytochemical evaluation, in-silico binding affinity, and *in-vitro* antibacterial activity of volatile oil from leaves of *Bambusa polymorpha*, Alekhya Sarkar, **Sudhan Debnath**, Debanjan Sen, Bipul Das Chowdhury, Rajat Ghosh, Bimal Debnath, *Chemistry of Natural Compounds*, **2025**, 61, 243-50. DOI 10.1007/s10600-025-04622-5 (**Impact: 0.80**).
  37. **Basu Maan Daas**, Electrochemical analysis of aluminium corrosion in alkaline battery fluid under the influence of Alizarin Red S and Xylenol Orange *Journal Results Chem*, 2024, ISSN 2211-715

38. **Basu Maan Daas**, Electrochemical analysis of aluminium corrosion in alkaline battery fluid under the influence of Alizarin Red S and Xylenol Orange, in Results Chem.: 7, 101405, Jan, 2024
39. Parimal Nama Das, M.K. Gandhi 's concept of welfare society, **IJMER**, 2024, **ISSN:** 2277-7881