DR. SUDHAN DEBNATH

Principal
Netaji Subhash Mahavidalaya, Udaipur, Gomati Tripura

Email: nsm.udaipur@gmail.com

Education

- Doctor of Philosophy- Tripura University, 2007
- Master of Science in Chemistry- Tripura University, 1996
- Bachelor of Science in Chemistry (Honours)- MBB College, under Tripura University, 1994
- Diploma in Computer Application (DCA) - FEII, 2001.

Academic Training

Name of the Course	Conducted by	Duration	Sponsoring Agency
Orientation Programme	UGC-Academic Staff College, Gauhati University from 5th September to 2nd October, 2005	28 days	UGC
Refresher Course	UGC-Academic Staff College, Jadavpur University, on "Thrust areas on Development of Natural Products" from November 20, 2008.	21 days	UGC
Summer School	A national School on New Dimension to NMR: From Molecule to Human Behaviour, NEHU, Shillong 2005 held during May 23-June 2005 at NEHU, Shillong.	12 days	IISc Bangalore
Winter School	Green Chemistry Winter School on "Research, Teaching and Applications: Exploring Opportunities in Green Chemistry", Organized by the Department of Chemistry, IIT, Guwahati, 7-22 March, 2011	16 days	DST SERC
CATC	Combine Annual Training Camp, Organized by 13th Tripura BN, NCC, 20 - 29 January 2008 at Salbagan, Agartala	12 days	NCC, 13th Tripura BN of NER

Experience

- Principal: 4th November 2022 – till date

- Associate Professor & Principal-in-Charge: 30th June 2021– 3rd November 2022
- Associate Professor: 19th April 2016 – 30th June 2021
- Assistant Professor: 19th April 2002 – 18th April 2016
- Post Graduate Teacher: 8th January 1997 – 18th April 2002

Award

- Awarded JRF-CSIR June 1999, Joint UGC-CSIR NET Examination

Area of Interest

- Natural Product Research
- Computer Aided Drug Design

Administrative Experience

- Head of the Department of Chemistry at ICV college: August 2005- June 2010
- Head of the Department of Chemistry at MBB College: July 2018- June 2021
- Principal-in-Charge, Netaji Subhash Mahavidyalaya, Udaipur: July 2021 to 3rd November 2022
- Principal: 4th November 2022 to till date

Administrative Training

- Leadership and Capacity Development Program for the College Principals of North Eastern and Northern Region, INTER UNIVERSITY CENTRE FOR TEACHER EDUCATION, Banaras Hindu University Banaras Hindu University, 20th – 23rd March, 2023
- UGC Sponsored Principals Workshop organized by NEHU, Sillong, 29-30 November 2022.

Membership

- Member Management Committee, ICFAI University, Tripura, 2017-2018
- Life member, 'Tripura Chemical Society', MBB College, Agartala, Tripura.
- Life member, 'National Magnetic Resonance Society', SIF, IISc-Bangalore-560 012, India.
- Life member, "Indian Red Cross Society", Tripura Branch.

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 (Applied)

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 (Applied).

Publications in Scientific Journal

1. Iqrar Ahmad Ansari, Bimal Debnath, Saikat Kar, Harun M. Patel, **Sudhan Debnath***, Magdi E.A. Zaki, Pinaki Pal, Identification of potential edible spices as EGFR and EGFR mutant T790M/L858Rinhibitors by structure-based virtual screening and molecular dynamics, *J Biomol Struct Dyn*, **2023** (Accepted).
2. Debashis Roy Chowdhury, Rajat Ghosh, **Sudhan Debnath**, Samhita Bhaumik*, Potential Peptidyl Arginine Deiminase Type 4 Inhibitors from Morinda citrifolia: A Structure-Based Drug Design Approach, *In Silico Pharmacology*, **2023** (Accepted).
3. Abhijit Rudra Paul, **Sudhan Debnath**, Swapan Majumdar, Water-SDS-Ionic Liquid Catalytic System for the Synthesis of Pyrano-chromenes and In-Silicio Approach to Predict Inhibitory Activity Against Mpro of SARS-CoV-2, *ChemistrySele*ct, **2023**, Accepted (slct.202300007). (Impact: 2.307)
4. **Sudhan Debnath**, Bimal Debnath, Pradip Debnath, Carvacrol: A PLpro Inhibitor of SARS-CoV-2 Is a Natural Weapon for COVID-19, *Chem. Proc*. **2022**, 12(1), 11.
5. **Sudhan Debnath**, Moumita Nath, Alekhya Sarkar, Gourab Roy, Suman Kumar Chakraborty, Bimal Debnath. Phytochemical characterization of Styrax benzoin resin extract, molecular docking, ADME, and antibacterial activity study. *Nat Prod Res*. **2022**, 10:1-6. doi: 10.1080/14786419.2022.2132244 ((Impact: 2.488)
6. Parvin M, Rahaman A, Sarkar A, **Debnath S**, De UC, Mandal DP, Bhattacharjee S. Oroxylum indicum Stem Bark Extract Reduces 1. Tumor Progression by Inhibiting the EGFR-PI3K-AKT Pathway in an In Vivo 4NQO-Induced Oral Cancer Model. *J Am Nutr Assoc*. **2022,** 19:1-15. doi: 10.1080/27697061.2022.2107583 (3.571).
7. Aparna Vema*, **Sudhan Debnath***, Arunasree M Kalle*, Identification of Novel HDAC8 Selective Inhibitors through Ligand and Structure Based Studies: Exploiting the Acetate Release Channel Differences among Class I isoforms, *Arabian journal of Chemistry*, **2022**, 15 (6): 103863. ISSN 1878-5352 (***corresponding author**) (6.13)
8. Hemant Suryavanshi, Raju D. Chaudhari, Vishakha Patil, Swapan Majumdar, **Sudhan Debnath***, Goutam Biswas*, Design, synthesis and docking study of novel Vortioxetine derivatives as a SARS-CoV-2 main protease inhibitor, *DARU Journal of Pharmaceutical Sciences*, **2022**, 30, 139–152. https://doi.org/10.1007/s40199-022-00441-z. (3.87)

9. Debanjan Sen, Bimal Debnath, Pradip Debnath, **Sudhan Debnath***, Magdi E.A. Zaki*, and Vijay H. Masand, Identification of potential edible mushroom as SARS-CoV-2 main protease inhibitor using rational drug designing approach, *Scientific Reports*, **2022,** 12:1503 https://doi.org/10.1038/s41598-022-05349-x. **ISSN:** 2045-2322 (4.996).
10. **Sudhan Debnath**, Samhita Bhaumik, Debanjan Sen, Bimal Debnath, Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design, *Natural Product Research*, **2021**, 25:1-6. **ISSN:** 1478-6419
11. Sanjoy Chakraborty, Apu Kumar Saha, Sukanta Nama, **Sudhan Debnath**, COVID-19 X-ray image segmentation by modified whale optimization algorithm with population reduction, *Computers in Biology and Medicine*, **2021**, 139:104984. **ISSN:** 0010-4825
12. Deb Barnali, **Debnath Sudhan**, Chakraborty Ankita, Majumdar Swapan, Bis-indolylation of aldehydes and ketones using silica supported $FeCl_3$: A Molecular docking studies of bisindoles by targeting SARS-CoV-2 main protease binding site, *RSC Advances*, **2021**, 11, 30827-30839
13. Samhita Bhaumik, Gourav Roy, **Sudhan Debnath**, Debanjan Sen, Rasbihari Hembram, Ravikumar Muttineni, Identification of potential scaffolds from the shrub *Justicia adhatoda against* SARS-CoV-2 main protease target, *International Journal of Quantitative Structure-Property Relationships*, **2021**, 6(4): p21. ISSN: 2379-7487
14. Sarmi Sardar, Shilpa Chatterjee, Nripendra Nath Bala, **Sudhan Debnath**, Debanjan Sen, Arindam Maity, *de*-novo design of hits against New Delhi metallo-β-lactamase enzyme, *International Journal of Quantitative Structure-Property Relationships,* **2021**, 7(2): p13
15. Arkadeep Sarkar, Debanjan Sen, Ashutosh Sharma, Ravi Kumar Muttineni, **Sudhan Debnath***, Structure-Based Virtual Screening and Molecular Dynamics Simulation to Identify Potential SARS-CoV-2 Spike Receptor Inhibitors from Natural Compound Database, *Pharmaceutical Chemistry Journal*, **2021**, 55(5): 441-453, DOI 10.1007/s11094-021-02441-w. **ISSN:** 0091150
16. **Debnath S***, Sen D. Mushrooms are potential foods against cancer: identified by molecular docking and molecular dynamics simulation. *Nat Prod Res*. **2021**, 11:1-6. doi: 10.1080/14786419.2021. ISSN: 1478-6419
17. Chakraborty, S., Saha, A. K., Sharma, S. Chakraborty, R. **Debnath, S**. A hybrid whale optimization algorithm for global optimization. *Journal of Ambient Intelligence and Humanized Computing. 2***021, 153: 107086**. https://doi.org/10.1007/s12652-021-03304-8, ISSN 0360-8352
18. Debnath, P*. Bhaumik, S. Sen, D. Muttineni, R. K. **Debnath, S***, Identification of SARS-CoV-2 Main Protease Inhibitors Using Structure Based Virtual Screening and Molecular Dynamics Simulation of DrugBank Database, *Chemistry Select*. **2021**, 6: 4991 –5013. https://doi.org/10.1002/slct.202100854, **ISSN:** 2365-6549

19. Sen D, Bhaumik S, Debnath P, **Debnath S***. Potentiality of *Moringa oleifera* against SARS-CoV-2: identified by a rational computer aided drug design method. *J Biomol Struct Dyn*. **2021**. 15:1-18. doi: 10.1080/07391102.2021.1898475, ISSN: 07391102
20. Debnath, B. Debnath, P. Ghosh, R. **Debnath, S***. In silico identification of potential inhibitors of SARS-CoV-2 papain-like protease from natural sources: A natural weapon to fight COVID-19, *Coronaviruses*, **2020**, 2: 12 https://**DOI**: 10.2174/2666796701999201203211330, ISSN (Print): 2666-7967
21. Debnath P*, Debnath B, Bhaumik S, **Debnath S***. In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore- and Receptor-Based Virtual Screening of Database. *Chemistry Selec**t***. **2020**, 5(30):9388-9398. https://doi: 10.1002/slct.202001419.
22. Sen D, Debnath P, Debnath B, Bhaumik S, **Debnath S***. Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study. *J Biomol Struct Dyn*. **2020**, 18:1-22. doi: 10.1080/07391102.2020.1819883.
23. Debnath B, Saha AK, Bhaumik S, **Debnath S***. In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach. *Eurasian Journal of Medicine and Oncology*, 2**020.** 4(4):336–348. DOI: 10.14744/ejmo.2020.91768, ISSN 2587-2400
24. Sarkar, A. Shilkar, D. Jayaprakash, J. Maity, A. Sardar, S. **Debnath**, **S**. Debanjan Sen, Virtual screening assisted identification of small molecule against 2019- novel coronavirus protease enzyme, *Journal of Pharmacutical Chemistry*, **2020**, 7: 7-12, DOI: http://dx.doi.org/10.14805/jphchem.2020.art116
25. **Debnath S**, Kanakaraju M, Islam M, Yeeravalli R, Sen D, Das A. In silico design, synthesis and activity of potential drug-like chrysin scaffold-derived selective EGFR inhibitors as anticancer agents. *Computational Biology and Chemistry*, **2019** 83:107156. doi: 10.1016/j.compbiolchem.2019.107156. ISSN: 1476-9271
26. **Debnath S***, Debnath T, Bhaumik S, Majumdar S, Kalle AM, Aparna V. Discovery of novel potential selective HDAC8 inhibitors by combine ligand-based, structure-based virtual screening and in-vitro biological evaluation. *Scientific Report*. **2019,** 9(1):17174. doi: 10.1038/s41598-019-53376-y. ISSN: 2045-2322
27. Manupati K, **Debnath S**, Goswami K, Bhoj PS, Chandak HS, Bahekar SP, Das A. Glutathione S-transferase omega 1 inhibition activates JNK-mediated apoptotic response in breast cancer stem cells. *FEBS J. 2019*, 286(11):2167-2192. doi: 10.1111/febs.14813. ISSN: 1742-464X
28. Roy, B.C. Debnath, L. Chaudhuri A. **Debnath**, **S**. A Review on Ozone Layer Depletion, Effects & it's Solution, *Int. J. Adv. Res.* **2018**, 6(4), 385-392, Article DOI:10.21474/IJAR01/6871, ISSN 2320-5407
29. Manupati K, Dhoke NR, Debnath T, Yeeravalli R, Guguloth K, Saeidpour S, De UC, **Debnath, S**, Das A. Inhibiting epidermal growth factor receptor signalling potentiates

mesenchymal-epithelial transition of breast cancer stem cells and their responsiveness to anticancer drugs. ***FEBS J***. **2017**, 284(12):1830-1854. doi: 10.1111/febs.14084. ISSN: 1742-464X

30. Roy, B.C. Pal, D. Choudhuri, A. **Debnath**, **S.** Climate Status of Tripura: A Tight-Rope Walking, *International Journal of Advance Research and Development,* **2017***, 2(5): 72-84*
31. **Debnath, S***. Debnath, T. Majumder, M. K. Arunasree, V. Aparn, A combined pharmacophore modeling, 3D QSAR, virtual screening, molecular docking and ADME studies to identify potential HDAC8 inhibitors, *Medicinal Chemistry Research*, **2016**, 25(11): 2434-2450, doi: 10.1007/s00044-016-1652-5. ISSN: 1054-2523
32. T. Debnath, S. Majumdar, A. M. Kalle, V. Aparna, **S. Debnath***, Identification of potent histone deacetylase 8 inhibitors using pharmacophore-based virtual screening, three-dimensional quantitative structure–activity relationship, and docking study, ***Research and Reports in Medicinal Chemistry***, **2015**, 5: 21–39 DOI: 10.2147/RRMC.S81388, ISSN 2230-5238
33. De, U.C. Debnath, T. Sen, D. **Debnath***, **S**. Three-dimensional quantitative structure-activity relationships and docking studies of some structurally diverse flavonoids and design of new aldose reductase inhibitors, Journal of Advanced Pharmaceutical Technology & Research, **2015**, 6, 13-18 doi:10.4103/2231-4040.150366, ISSN: 0976-2094
34. De, U.C. **Debnath**, S. Sen, D. Studies on structural insight of 2-amino-6-arylsulfonylbenzonitrile derivatives as anti-HIV agents, International Journal of Research in Pharmacy and Chemistry (IJRPC), **2014**, 4(3): 528-539, e-ISSN: 2231-2781
35. Debnath**,** T. De, U.C. **Debnath*, S.** 3D-QSAR, Docking and ADME study on flavone derivatives as human breast cancer cell line MCF-7 inhibitors, International Journal of Research in Pharmacy and Chemistry (IJRPC), **2014**, 4(4), 808-818
36. **Debnath, S**. Nath, P. Nath, R.K. Identification of Novel HDAC8 Inhibitors Using Pharmacophore Based Virtual Screening, 3D QSAR and Molecular Docking Approach, Am. J. PharmTech Res. **2014,** 4(6), 253-267, doi: 10.21276/ajptr
37. **Debnath***, **S**. Banik, R. Debnath, T. In Silico Discovery of Small Molecule HDAC2 Inhibitors using Virtual Screening, Atom based 3D QSAR Model, Docking Analysis and ADME study, Am. J. PharmTech Res. **2014,** 4(5), 607-624, doi: 10.21276/ajptr, ISSN: 2249-3337
38. Ajanneyulu, B. Ravinder, T. **Debnath**, S. Kanjilal, S. Chakrabart, P.P. Lipid Classification and characterization of *Terminalia Belerica* Seed Oil From Tripura, Journal of Lipid Science and Technology, **2014**, 46 (4): 145-149, ISSN: 0973 – 6379
39. Majumder, K. **Debnath**, **S**. Sinha, R.K. Effect of crude methanolic stem extract of *Tinospora cordifolia* and *T. alabarica* on root meristmetic activity in *Allum cepa*., Advances in Plant Sciences, **2013**, 26: 179-183, ISSN: 0970-3586

40. **Debnath**, **S**. De, U.C. Sen, D. Dinda, B. Pharmacophore Modeling and 3D QSAR analysis of flavonoids and congeners active against A549 cell line, *Int.J.Res.Pharm.Sci*., **2012**, 3, 206-214, ISSN: 2320-5148
41. B. Dinda, **S. Debnath**, S. Majumder, Noriko Sato, Y. Harigaya, New iridoid glucoside from *Wendlandia tinctoria* roots, *Chinese Chemical Letters*, **2011**, 22(10), 1233-1236, , Doi: 10.1002/jccs.201980401, ISSN: 1001-8417
42. B. Dinda, **S. Debnath**, R. Banik, Naturally Occurring Iridoids & Secoiridoids. An Updated Review, Part 4, *Chem. Pharm. Bull*., **2011**, 59 (7), 803-833, Doi: 10.1248/cpb.59.803, ISSN: 0009-2363
43. B. Dinda, **S. Debnath**, R. Banik, N. Sato & Y. Harigaya, Iridoid Glucosides from *Wendlandia tinctoria roots*, *Natural Product Communication*, **2011**, 6(6), 747-748, doi:10.1177/1934578X1100600601, ISSN: 15559475
44. B. Dinda, **S. Debnath**, B. Mohanta, and Y. Harigaya, Naturally Occurring Triterpenoid Saponins. A Review, *Chemistry & Biodiversity*, **2010**, 7 (10), 2327-2580. (Full Volume) doi: 10.1002/cbdv.200800070, ISSN:1612-1880
45. B. Dinda, B. Mohanta, **S. Debnath**, B. Ghosh, S. Arima, N. Sato and Y. Harigaya, Iridoid Glucosides from leaves and stem barks of *Parkia javanica*, *J. Asian Nat. Prod. Res*., **2009**, 11(3), 229-235, doi: 10.1080/10286020902727280, ISSN: 10286020
46. B. Dinda, **S. Debnath** and Y. Harigaya, Naturally Occurring Secoiridoids and Bioactivity of Naturally Occurring Iridoids and Secoiridoids, Review, Part 2, *Chem. Pharm.Bull*., **2007**, 55(5), 689-728, doi: 10.1248/cpb.55.689, ISSN: 0009-2363
47. B. Dinda, **S. Debnath,** Y. Harigaya, Naturally Occurring Iridoids. A Review, Part 1, *Chem. Pharm. Bull*., **2007**, 55(2), 159-222, doi: 10.1248/cpb.55.159, ISSN: 0009-2363
48. B. Dinda, **S. Debnath**, S. Majumder, S. Arima, N. Sato and Y. Harigaya, A new bis-iridoid glucoside from *Mussaenda incana*, *Chinese Chemical Letters*, **2006**, 17 (10), 1331-1334, Doi: 10.1007/s11418-008-0273-9, ISSN: 1001-8417
49. B. Dinda, **S. Debnath**, S. Arima, N. Sato and Y. Harigaya, Iridoid glucosides from *Wendlandia tinctoria* roots, *Chem. Pharm. Bull.*, **2006**, 54, 1030-1033. doi: 10.1248/cpb.54.1030
50. B. Dinda, **S. Debnath**, S. Majumder, S. Arima, N. Sato, Y. Harigaya, Chemical constituents of *Mussaenda incana*, *Indian J. Chem*., **2005**, 44B: 2362-2366, ISSN: 0376-4699
51. B. Dinda, **S**. **Debnath**, S. Arima, N. Sato and Y. Harigaya, Chemical constituents of *Lasia spinosa*, *Mussaenda incana* and *Wendlandia tinctoria*, *J. Indian Chem. Soc.*, **2004**, 81, 73-76, ISSN: 0019-4522

Chapter in Edited Book

1. Biswanath Dinda, **Sudhan Debnath**, Natural Products Phytochemistry, Botany and Metabolism of Alkaloids, Phenolics and Terpenes, Monoterpenes: Iridoids, Volume 1, 2013,

3009-3068, ISSN/ISBNNo. 9783642221446 3642221440, DOI 10.1007/ 978-3-642-22144-6. Publisher: Springer Heidelberg New

Research Projects Completed

1. University Grants Commission, North Eastern Regional Office was sanctioned a Minor Research Project Titled "Chemical constituents of Lasia spinosa and some other medicinal plants of Tripura" (No.F.5-50/2003-04 (MRP/NERO)/1735).

2. UGC-NERO sanctioned me another Minor Research Project dated 31st March 2008 on "Chemical constituents of *Syzygium syzygioides (Myrtaceae), Allophylus kobi* and some other medicinal plants of Tripura and study of their antimicrobial, anticoagulant activity" (No. F. 5-7/2007-08 (MRP/NERO)/6162)

3. 'Molecular Dynamics Studies of the HDAC8 isoform, Virtual Screening of Potential HDAC8 Inhibitors using Structure and Ligand Based Studies – Synthesis and Biological Screening of Novel HDAC8 inhibitors' DBT, Govt. of India. (F.No. BT/327/NE/TBP/2012 Dated: 21.03.2013).

Paper Presented in International Seminar/Conference

1. **"**Drug target for SARS-COV-2 and potentiality of Indigenous natural products", on 20.06.2020, 11:00 a.m. IST, An International WEBINAR SERIES "WISSEN-2020". Organized by BCDA College of Pharmacy & Technology, Kolkata, India

2. COVID-19 and its remedy using natural products, International Web conference, July 9-10, 2020, organized by MBB University. Tripura, India

3. *In silico* identification of cervical cancer inhibitory plants by harmacophore-based virtual screening, docking, ADME filtration and molecular dynamics simulation studies, International conference on Drug Discovery-2020, Feb 29 – Mar 2, **2020,** organized by Schrodinger Inc, USA in collaboration with BITS-Pilani, Hyderabad

4. Physico-Chemical Characteristic of *Terminalia Belerica* Seed Oil. 69th Annual Convention of Oil Technologist's Association of India and International Conference on Sustainable

Technologies and Futuristic Trends: Oilseeds-Oils Processing Surfactants & Expo **2014**, 14−16 November, Organized by Oil Technologist's Association of India

5. Iridoid glucosides from *Wendlandia tinctoria* root, International Conference on "Emerging Areas of Chemistry ICEAC-2011" 12-14 January **2011,** Organized by Department of Chemistry, Tripura University
6. Ligand based 3D-QSAR analysis and discovery of new oxygenated chalcone' derivative as potential antileismanial and anti-malarial agents, International Conference on "Emerging Areas of Chemistry ICEAC-2011" 12-14 January **2011,** Organized by Department of Chemistry, Tripura University
7. Iridoid Glycosides of *Wendlandia tinctoria,* International Conference on Chemistry Biology Interface: Synergistic New Frontiers, 21-26 November **2004,** Organized by Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi.

Paper Presented in National Seminar/Conference

1. Identification of natural products against COVID-19 using computer aided drug design, 11-13 September 2020 National E-conference organized by Dept. of Physics Women's college & Dharmanagar college.
2. In-silico identification of novel HDAC8 inhibitors by ligand-based and structure-based drug design method. National Seminar on Recent Trend of Research in Chemistry - A New Horizon of Hopes', August 8 – 9, **2015,** Organized by Department of Chemistry, Women's college.
3. In-silico identification of novel HDAC2 inhibitors using ligand based and structure based drug design method, National seminar on recent trend of research in chemistry - a new horizon of hopes, **2015,** August 8 – 9, **2015**, Organized by Department of chemistry, Women's college.
4. A combined pharmacophore modeling, 3D QSAR, virtual screening and molecular docking studies to identify potential HDAC8 inhibitors, National Conference 5th December **2014,** Organized by IIT Gauhati.
5. Isomeric taxifolin-4-O-beta-D-glucopyranoside showed potent inhibitor of aldose reductase in docking study, National Seminar on Green Chemistry & Nano-Science: Theory &

Applications, National Conference, 20-21 July **2012,** Organized by Dept. of Chemistry, MBB College.

6. Pharmacophore modeling and 3D QSAR analysis of flavones and isoflavone derivatives with cytotoxicity against HeLa, Fifth National Conference on Surfactants, Emulsions and Biocolloids-2011, December 27−29, **2011,** Organized by Dept. of Chemistry, TU and Indian Society for Surface Science and Technology, Kolkata**.**

7. Capacity Building in Health Care of Tribals of Tripura using Traditional Knowledge, National Seminar on Capacity Building of Students in Higher Education with Special Reference to Tribal Students in Tripura 16−17 November **2010,** Organized by MBB College, Agartala, West Tripura

8. Application of Green Procedure in Chemistry Laboratory-Beneficial for Environment, National Seminar on Management of Environment: North East India Perspective, 11−12 September, **2010**, Organized by Iswarchandra Vidyasagar College, Belonia
9. Traditional Knowledge of Medicine in Natural Product Research, Regional Seminar on Recent Trends in Chemistry, 12-13 September, **2009,** Govt. Degree College, Dharmanagar.
10. Aqueous leaf extracts of *Syzygium syzygioides* (Myrtaceae) has anti-coagulant activity, National Seminar on Scope & Recent Development of Natural Products, 12-13 November 2010, Organized by ICV college, Belonia

11. Bioactive iridoid glycosides from *Wendlandia tinctoria,* National Symposium on Impact of Chemistry on Life and Society, 1-3 October **2004,** Organized by Department of Chemistry, Tripura University

Extra-Curricular Activities

i) Care Taker Officer, NCC, ICV College Unit, for one year from July, 2007 to September, 2008.

ii) NSS Programme Officer for two years from 1st December 2002 at NSS ICV College Unit, Belonia, Tripura (S).

iii) IGNOU Academic counsellor, evaluator, examiner of MBB College Study Centre (2608)-2010 – 2021

Seminar/Conference Organized (Organizing Secretary/Convener)

i) Three days workshop on 'Computer Aided Drug Design' organized by Department of Chemistry, MBB College, Agartala, in Collaboration with SCHRODINGER, Bangalore, India, 8-10 November 2013.

ii) "One day Seminar on Recent Developments in Computer Aided Drug Design" organized by Department of Chemistry, MBB College, Agartala, in collaboration with SCHRODINGER, on 13 June 2011.

iii) National Seminar on "Scope & Recent Development of Natural Products" 12-13 November 2010, arranged by me and accordingly UGC-NERO, CSIR, DST, DBT and NEC sanction it. But at the eleventh hour I have been transferred from ICV College to MBB College.