

Curriculum Vitae



Name: Dr. Jewel Hossain
Date of birth :- 12th January 1978
Phone Number : +91-9436925100
E-mail's : jewel_agartala@yahoo.com,
jewel_agartala@rediffmail.com
Academic Qualifications: M.Sc., Ph.D.

Present Designation: Asst. Professor, Department
of Chemistry
Ramthakur College,
Badharghat, Agartala
West-Tripura, Pin
799003

❖ **Date of Joining as Assistant Professor:** 21.04.2008

❖ **ACADEMIC QUALIFICATIONS:**

| Degree | Institution /Subject | Specialisation | Board/University | Year |
|--------------------|------------------------------------|--------------------------------|--------------------|------|
| Ph.D. | Chemistry | Synthetic organic Chemistry | Tripura University | 2017 |
| NET | Chemical Science | - | UGC | 2005 |
| M.Sc. | Tripura University/Chemistry | Organic Chemistry | Tripura University | 2001 |
| B.Sc.(H) | M.B.B. College | Chemistry | Tripura University | 1999 |
| H.S. (+2 Stage) | J.N.V. Ram Chandra Ghat, Khowai | Science | CBSE | 1996 |
| Madhyamik | J.N.V. Ram Chandra Ghat, Khowai | - | CBSE | 1994 |

- ❖ **Ph.D Awarded:** August 2017 from Tripura University, Suryamaninagar, Agartala.
- ❖ **Place of Research work:** Department of Chemistry, Tripura University.
- ❖ **Thesis Title:** “*Studies on the Synthesis of Macro-heterocycles from Sugar Derivatives by Intra-molecular 1, 3-Dipolar Cycloaddition*” under the supervision of Professor (Dr.). SwapanMajumdar, Department of Chemistry, Tripura University, Agartala, Tripura.
- ❖ **Research Interest:**

Synthesis of biologically active natural products, medicinal chemistry, Heterocyclic and carbohydrate chemistry and development of novel synthetic methodologies.

❖ **Teaching Experience (at HEIs):**

| Name of Institution/Organisation | Designation | Date | |
|---------------------------------------|---------------------|------------|------------|
| | | From | To |
| Netaji Subhash Mahavidyalaya, Udaipur | Assistant Professor | 21.04.2008 | 06.11.2008 |
| Kabi Nazrul Mahavidyalaya, Sonamura | Assistant Professor | 07.11.2008 | 04.03.2020 |
| Ramthakur College, Agartala | Assistant Professor | 05.03.2020 | Till date |

❖ **Research Experience:**

| Designation | College/ University | Date of joining | |
|------------------|--|-----------------|-----------------------------|
| | | From | To |
| JRF(CSIR) | IICB, Kolkata, West-Bengal under Supervisor of Dr. Asish Kr. Banerjee, Department of Medical Chemistry | April 2006 | 17 th April 2008 |
| Research Scholar | Tripura University under Supervisor of Dr. R. K. Nath, Department of Chemistry | October 2005 | March 2006 |

❖ **List of Publications in journals:**

| Sl. No | Title of the paper | Journal, year, vol., pages | ISSN & Impact Factor |
|--------|---|---|--------------------------|
| 1. | Synthesis of macrocyclic conjugated ψ -disaccharides via nitrile oxide cycloaddition: alkenyl chain length controlled unprecedented formation of di-oxaheterocycles from monosaccharides. Jewel Hossain , Ramalingam Natarajan, Ashish K Banerjee and Swapan Majumdar; | <i>Tetrahedron</i> 73 (2017) 3139-3146 | 0040-4020 & 2.377 |
| 2. | Phthalate tethered strategy: carbohydrate nitrile oxide cycloaddition to 12-15 member chiral macrocycles with alkenyl chain length controlled orientation of bridged isoxazolines. Swapan Majumdar, Jewel Hossain , Ramalingam Natarajan, Ashish K. Banerjee and Dilip K. Maiti. | <i>RSC Adv.</i> 2015, 5, 106289-106293. | 2046-2069 & 3.289 |

| | | | |
|----|---|--|-----------------------------|
| 3. | Activation of 1, 3-dioxolane by protic ionic liquid in aqueous media: a green strategy for the selective hydrolytic cleavage of acetals and ketals. SwapanMajumdar, MithunChakraborty, Dilip K. Maiti, SandipChowdhury and Jewel Hossain | <i>RSC Adv.</i> 2014 , 4, 16497-16502. | 2046-2069 & 3.84 |
| 4. | Formylation of amines catalysed by protic ionic liquids under solvent-free condition SwapanMajumdar, Jhinuk De, Jewel Hossain , AjoyBasak; | <i>Tetrahedron Lett.</i> 2013 ,54, 262–266. | 0040-4039 & 2.379 |
| 5. | Spectral Studies on the Interaction of Cationic Dye / Surfactants with <i>Klebsiella</i> K28 Capsular Polysaccharide. Dasgupta, S.; Nath, R. K.; Biswas, S.; Hossain, J. ; Mitra, A. and Panda, A. K. | <i>Colloids & SurfacesA</i> , 2007 , 302 (17), 17-23. | 0927-7757 & 1.65 |

❖ **Papers presented in National and International Seminars/Symposia:**

| SL. No. | Title of the paper | Seminars/ Conferences / Workshop / Symposium | Date & Duration | Organized by |
|---------|---|--|------------------------------------|---|
| 1. | Highly diastereo- and regioselective synthesis of chiral macrolide fused heterocycle via Intramolecular nitrile oxide cycloaddition | National seminar on Recent Advances in Natural Products Chemistry for Drug Discovery | 28-29 th November, 2015 | NetajiSubhasMahavidyalaya, Udaipur, Tripura |
| 2. | Synthesis of Macro-heterocycle by intramolecular alkenyl-carbohydrate nitrile oxide cycloaddition using phthaloyl template. | National seminar on Recent Trend of Research in Chemistry-A New Horizon of Hopes | 8-9 th August, 2015 | Department of Chemistry, Women's College, Agartala, Tripura |
| 3. | Acidic ionic liquid promoted catalytic approach of N-formylations of amine | Fifteenth National conference on surfactants, emulsions and biocolloids-2011 (NATCOSEB XV) | 27-29 th December 2011 | Department of Chemistry, Tripura University, Suryamaninagar, Tripura |
| 4. | Synthesis of medium sized macrocyclic lactones from sugar derivatives by intramolecular 1,3-dipolar nitrile oxide cycloaddition | International Conference on Emerging Areas of Chemistry | 12-14 th January 2011 | Department of Chemistry, Tripura University, Suryamaninagar, Tripura |
| 5. | Synthesis of chiral macrocyclic lactone by the Intramolecular nitrile oxide cycloaddition (INOC) of | State level Seminar on Frontier Areas of Chemistry | 3 rd September 2010 | Tripura University in association with Tripura Chemical Society and Tripura |

| | | | |
|---|--|--|---|
| phthaloyl tether O-allyl carbohydrate oxime (This was selected as best poster award among three posters) | | | State Council for Science & Technology, Government of Tripura |
|---|--|--|---|

❖ **Articles/Chapters published in Book:**

1. Chapter-02 in “Natural Products’ Chemistry” published by Write and Print Publications, New Delhi-110015, **2017, ISBN: 978-93-86283-54-2.**
2. Proceedings of National seminar on Recent Trend of Research in Chemistry-A New Horizon of Hopes, 8-9th August, **2015**; Department of Chemistry, Women’s College, **page: 44-53, ISBN: 978-93-81631-36-2.**

❖ **Participation in Regional / National and International Seminars/ Conferences / Workshop / Symposia:**

| SL. No. | Seminars/ Conferences / Workshop / Symposium | Date & Duration | Organized by |
|---------|--|--|---|
| 1. | International Seminar on “ Patriarchy and Gender in Colonial and Post-Colonial South Asia” | 16-17 th January, 2015, | Kabi Nazrul Mahavidyalaya, Sonamura, Sepahijala, Tripura. |
| 2. | Workshop on “Development of the Deprived Groups with Special Reference to Women” | 15 th March, 2014 | Kabi Nazrul Mahavidyalaya, Sonamura, Sepahijala, Tripura. |
| 3. | National seminar on Green Chemistry and Nanoscience: theory and applications | 20-21 st July 2012 | Department of Chemistry, M. B. B. College, Tripura |
| 4. | “National conference on Recent Trends of Research in Physics”, University, Tripura. | 3 rd & 4 th February, 2012 | Department of Physics & Alumino Association of Physics, Tripura University, |
| 5. | State Level Seminar on “Right to Development: Issues and Challenges in North –East India” , | 20-21 th September, 2011, | Kabi Nazrul Mahavidyalaya, Sonamura, Sepahijala, Tripura. |
| 6. | “Inter University Accelerator Centre (IUAC) Acquaintance Program” | 3 rd October, 2010 | Department of Physics, Tripura University & IUAC, New Delhi |
| 7. | “State Institute of Public Administration and Rural Development”, | 26-28 th August 2010 | Implementation of Plan Training Scheme at SIPARD, Agartala. |
| 8. | A Two day State level Seminar on “Emerging areas & opportunities for studies & research in Science”, | 13-14 th August 2010, | DHE, Govt. Of Tripura in collaboration with Womens College, |
| 9. | National Seminar on “Identities in North East India with special reference to Tripura”, | 17-18 th July, 2010 | Kabi Nazrul Mahavidyalaya, Sonamura, Sepahijala, Tripura. |
| 10. | Workshop on Syllabus preparation for | 21 st March 2009 | Tripura University |

| | | | |
|-----|---|-----------------------------------|--|
| | Undergraduate Courses (TDC & TDCH), | | |
| 11. | National Symposium on Recent Challenges in Chemistry | 29-31 st March 2001 | Department of Chemistry, Tripura University, Suryamaninagar. |
| 12. | National Seminar on Preventive strategies against chemical hazards, | 12-14 th December 1998 | M.B.B.College, Agartala, Tripura |

❖ **Research Project:**

1. **Minor Research Project Completed: 01**

Title of the project: Synthesis of higher amino sugar derivatives by intra-molecular 1, 3-dipolar nitrile oxide cycloaddition.

Funded by: UGC, North Eastern Regional Office, Guwahati-781006, INDIA.

Role: Principal Investigator, **Year:** May 2011- December 2012

Status: Completed Successfully

❖ **Award & Fellowships:**

1. Best Poster Award (among three Posters), State level Seminar on Frontier Areas of Chemistry 3rd September 2010, Tripura University in association with Tripura Chemical Society and Tripura State Council for Science & Technology, Government of Tripura
2. Junior Research Fellowship by CSIR, New Delhi from April 2006 to 17th April 2008
3. Qualified in NET, JRF (CSIR)-2005

❖ **Faculty Development Programme:**

1. **Orientation Programme** (14th February, 2011 to 14th March, 2011) conducted by UGC-Academic staff college Jadavpur University, Jadavpur University.
2. **15-Day Refresher Course** on 'Science and Technology for Social Development' from 11th September, 2019 to 25th September, 2019 conducted by Faculty Development Centre, Tripura University under PMMMNMTT.

❖ **Other Notable Activities:**

State level committee Member for monitoring the Madrasas (both Grant-in-Aid & under centrally scheme) "Scheme for Providing Education in Madrasa/Minorities (SPEMM)" in the state. Govt. of Tripura.