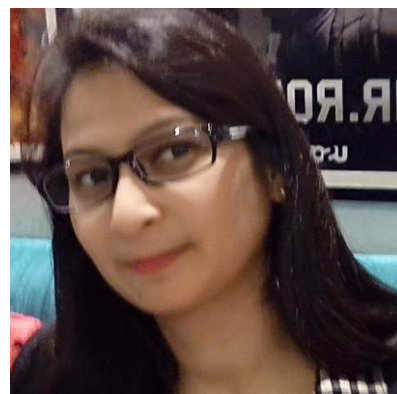


Dr. Tanu Gupta

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PERSONAL DETAIL:

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|------------------------|---|
| Name: | Dr. Tanu Gupta |
| Designation: | Assistant Professor |
| Mode of Recruitment: | Permanent |
| Recruitment Authority: | State Government |
| Department: | Chemistry |
| Date of Joining: | 31-10-2017 |
| Date of Birth: | 22-11-1988 |
| Sex: | Female |
| Permanent Address: | 22 Shankarpur Kachhawa Bazar Kachhawa Mirzapur, 231501 |

EDUCATION:

2017- Current Working as Assistant Professor through Bihar Public Service Commission.

2013-2018 Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, U. P. India
Ph.D. in Chemistry.
Title of Thesis: Synthesis of Acridines & Phenanthridines via carboannulation of Morita Baylis-Hillman Acetates.

2010-2012 Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, U. P. India
M.Sc. in Chemistry (Specialization Organic Chemistry)
79.50% (CGPA- 8.39/10)

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|-------------------------|--|
| <u>2006-2009</u> | Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, U. P. India B.Sc. (Chemistry Hons.), 72.50% |
| <u>2005</u> | Janta Inter College, Khochohawa, Varanasi, U. P. India 12 th , 71.20% |
| <u>2003</u> | Janta Inter College, Khochohawa, Varanasi, U. P. India 10 th , 70.80% |

AWARDS AND FELLOWSHIPS

2014 Awarded Junior Research Fellowship (JRF) by CSIR, Govt. of India in 2014.

2013 Qualified GATE in 2013.

RESEARCH INTERESTS

- Organic Synthesis: haloalkane functionalized ligand/Suzuki / sonogashira / heck coupling/ bromination/experience of working with Schlenk line.
- Operational knowledge of analytical instrumentation like FTIR, NMR and UV-Vis equipments
- Extensive knowledge of and experience in analytical techniques like, thin layer chromatography, column chromatography, recrystallization and other purification techniques.
- Software: MS Office, ChemDraw and Origin
- Languages: Proficient in English.
- Work independently and collaboratively as good
- High self creativity
- Great communication and organization skills learned from group discussion in our lab and while research paper writing.
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ACADEMIC WORK & CO-CURRICULAR ACTIVITY:

- Appointed as Head of Department (HOD) at Department of Chemistry, Rajendra College, Chapra (Feb 2018-Feb 2021)
- Appointed as Academic Counselor in IGNOU (Feb 2019-current).
- Appointed as Examiner for evaluating the answer book of UG.
- Appointed as Internal & External examiner for practical examination of UG (TDC-I, II & III).
- Completed Orientation Programme from Jawahar Nehru University, New Delhi.
- Completed Refresher Course in Chemistry with grade A sponsored by Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur.

RESEARCH PUBLICATIONS

1. Cascade S_N2' - S_NAr , Elimination, and 1,5-Hydride Shift Reaction Acetylacetone/ Acetoacetic Esters: Synthesis of 9,10-Dihydroacridines.

Tanu Gupta, Kishor Chandra Bharadwaj and Radhey M. Singh, *Eur. J. Org. Chem.* **2016**, 4981-4984.

2. Active methylene compounds (AMCs) controlled facile synthesis of acridine and phenanthridine from morita Baylis–Hillman acetate.
Tanu Gupta, Jay Bahadur Singh, Kalpana Mishra and Radhey M. Singh, *RSC Adv.* **2017**, 7, 54581-54585.
3. Metal Free Facile Synthesis of Phenanthridine via S_N2' Reaction/C-H Functionalization/Aromatization from Reaction of MBH Acetate with Nitroalkane.
Tanu Gupta, Jay Bahadur Singh, Kalpana Mishra, Biswajit Maiti and Radhey M. Singh, *Eur. J. Org. Chem.* **2018**, 1130–1135.
4. Temperature Controlled Palladium-Catalyzed Reaction of MBH Acetate with Terminal Alkyne: Cascade Synthesis of Phenanthridine and 6-Arylethynyl Phenanthridine.
Tanu Gupta, Jay Bahadur Singh, Rashmi Singh and Radhey M. Singh, *Eur. J. Org. Chem.* **2018**, 4284-4295.
5. Copper-catalyzed cascade reaction: synthesis of pyrimido[4,5-b]quinolinones from 2-chloroquinoline-3-carbonitriles with (aryl)methanamines.
Jay Bahadur Singh, Kalpana Mishra, **Tanu Gupta** and Radhey M. Singh, *New J. Chem.* **2018**, 42, 3310-3314.
6. TBHP-promoted oxidative cyclization of o-alkynylquinoline aldehydes: Metal/additive-free domino synthesis of pyrano[4,3-b]quinolin-1-ones.
Jay Bahadur Singh, Kalpana Mishra, **Tanu Gupta** and Radhey M. Singh, *Tetrahedron Lett.* **2018**, 59, 1019–1022.
7. Na₂S-mediated synthesis of terminal alkynes from gem-dibromoalkenes.
Radhey M. Singh, Durgesh Nandini, Kishor Chandra Bharadwaj, **Tanu Gupta** and Raj Pal Singh, *Org. Biomol. Chem.* **2017**, 15, 9979-9982.
8. Ag(I)-Catalyzed one-pot synthesis of 4-fluorobenzo[b][1,6]naphthyridines and 4-fluoroisoquinolines via iminofluorination of alkynes with Selectfluor.
Kalpana Mishra, Jay Bahadur Singh, **Tanu Gupta** and Radhey M. Singh, *Org. Chem. Front.* **2017**, 4, 1926-1930.
9. TBAB-catalyzed cascade reactions: facile synthesis of 1-trifluoromethyl-3-alkylidene-1,3-dihydrofuro [3,4-b]quinolines via 5-exo-dig cyclization of o-arylalkynylquinoline aldehydes.
Kalpana Mishra, Jay Bahadur Singh, **Tanu Gupta** and Radhey M. Singh, *Org. Chem. Front.* **2017**, 4, 1794-1798.

10. TBHP Promoted Cross-Dehydrogenative coupling (CDC) Reaction: Metal/Additive-Free Synthesis of Chromone-Fused Quinolines.
Jay B. Singh, Kalpana Mishra, **Tanu Gupta** and Radhey M. Singh, *Chemistry Select*, 2017, 2, 1207-1210.
11. Pd catalyzed facile synthesis of cyclopenta[*b*]-quinolin-1-one via sequential Sonogashira coupling and annulation. An unusual mode of ring closure, using sulphur as a soft nucleophile.
Radhey M. Singh, Ritush Kumar, Kishor Chandra Bharadwaj and **Tanu Gupta**, *Org. Chem. Front.* 2016, 3, 1100-1104.
12. Ligand-free palladium-catalyzed facile construction of tetra cyclic dibenzo[*b,h*][1,6] naphthyridine derivatives: domino sequence of intramolecular C–H bond arylation and oxidation reactions.
Jay Bahadur Singh, Kishor Chandra Bharadwaj, **Tanu Gupta** and Radhey M. Singh, *RSC Adv.* 2016, 6, 26993-26999.
13. Base promoted facile route to functionalized benzo[*b*][1,8]naphthyridin-2-(1H)-ones from N-benzyl-N-(3-cyanoquinolin-2-yl)acetamides.
Durgesh Nandini, Mrityunjaya Asthana, **Tanu Gupta**, R.P. Singh and Radhey M. Singh, *Tetrahedron*, 2014, 70, 8592-8599.
14. Facile synthesis of functionalized 1H-pyrrolo[2,3-*b*]quinolines via Ugi four-component reaction followed by Cu-catalyzed aryl-amide, C–N bond coupling.
Mrityunjaya Asthana, Ritush Kumar, **Tanu Gupta**, Radhey M. Singh, *Tetrahedron Letters*, 2015, 56, 907-912.
15. Book Title: Synthesis of Medicinal Agents from Plants, Chapter Title: Alkaloid group of *Cinchona officinalis*: Structural, synthetic and medicinal aspects.
Kishor Chandra Bharadwaj, **Tanu Gupta** and Radhey M. Singh, *Elsevier*, 2018, ISBN:9780081020715
16. Na₂S·9H₂O mediated facile synthesis of 1,3-dihydrofuro[3,4-*b*]quinoline derivatives via domino reduction approach.
Rashmi Singh, **Tanu Gupta**, Vishal Prasad Sharma, Radhey M. Singh and Ashish Kumar Tewari, *Tetrahedron*, 2021, 90, 132447-132452.

PAPERS PRESENTED IN CONFERENCES

1. **Poster Presentaion:** Palladium-Catalyzed Reaction of MBH Acetate with Terminal Alkyne: Cascade Synthesis of Phenanthridine and 6-Arylethynyl Phenanthridine @ National Symposium on Emerging trends in Chemical Science (NSETCS – 2018) in November 2018 at BHU, Varanasi.

2. **Poster Presentaion:** Facile Synthesis of dihydroacridines/acridines from Morita Bayliss-Hillman acetates and methylene compounds @ international Conference on Advances in Biological System and Materials Science in Nanoworld in February 2017 at IIT BHU, Varanasi.
3. **Poster Presentaion:** Cascade S_N2' - S_NAr , Elimination and an unusual 1,5-Hydride shift reactions by Acetylacetone/acetoacetic esters : Synthesis of 9, 10-dihydroacridines @ 20th CRSI National Symposium in Chemistry in February 2017 at Gauhati University.
4. **Poster Presentaion:** Cascade S_N2' - S_NAr , Elimination and an unusual 1,5-Hydride shift reactions by Acetylacetone/acetoacetic esters : Synthesis of 9, 10-dihydroacridines @ ACCT (I) satellite conference on Recent Trend in Carbohydrate Chemistry (RTCC-2016) in November 2016 at BHU, Varanasi.
5. **Poster Presentaion:** Palladium-catalyzed one-pot synthesis of benzo[b][1,6] naphthyridines via Sonogashira coupling and annulation reactions from 2-chloroquinoline-3-carbonitriles @ National Symposium on Organic Synthesis and Advanced Materials (NSOSAM - 2014) in March 2014 at BHU, Varanasi.

Participation in Webinar/Workshop/Faculty Development Program:

1. **Faculty Development Pogramme on Multididisciplinary Approaches in Research and Basic Teaching Methodologies in 21st century** organised by R.R.S. College, Mokama, Bihar from 14-21 december 2020
2. **E-Faculty Development Program cum Workshop on Waste to Bioenergy** organized by Sharda University from 28th june to 4th july 2020.
3. **E-Faculty Development Program cum Training Workshop on Environment, Water and disaster Risk Reduction** organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India & Sharda University from 13th to 17th July 2020.

4. **Online Faculty Development Programme on Research Opportunities in Environmental Engineering** organized by Bharti Vidyapeeth, Pune on 20th-25th July 2020.
5. **International Webinar on Challenges to the Right of Street Workers in Contemporary World** organized by Jai Prakash Mahila College, Chapra, Bihar on 27th June 2020.
6. **International e-Conference on Advanced & Innovative Materials for Sustainable Future** on 22nd & 23rd June 2020.
7. **International Virtual Conference on Globalization of Justice through ADR** organized by Aligarh Muslim University on 13th July 2020.
8. **International e-seminar on Impact of Covid-19 Pandemic in India** organised by Ranvir Rananjay PG College, Amethi on 28-29th June 2020.
9. **International e-Conference on Chemistry and its application in Modern Life** organized by R.R.S. College, Mokama, Bihar.
10. **National Webinar on Energy and Environment** organized by Maharaja sayajirao University from 9th-10th July 2020.
11. **National Online Conference** on Covid-19 optimistic Perspective: Pandemic transforming challenges into opportunity organized by Janta Mahavidyalaya, Chandrapur on 18th July 2020.
12. **National Webinar on Pandemic and reverse Migration in Bihar** organized by Kunwar Singh College, Laheriasarai, Darbhanga on 4th August 2020
13. **National Webinar on Drug Discovery & Development in India** organized by Anugrah Narayan Singh College Barh on 2nd July 2020.
14. **National Conference on Effective Teaching and Learning with Modern Technology** organized by Yeshwantro Chavan College on 23rd December.
15. Sensitization Programme for the academic counselors about **National Innovation and startup policy-2019** organized by IGNOU on 20th December.