

BANKURA UNIVERSITY



FACULTY ACADEMIC PROFILE/ CURRICULUM VITAE

- Name:** DR. ABU TAHER
- Designation:** ASSISTANT PROFESSOR
- Date of Birth:** 01/01/1982
- Specializations:** ORGANIC CHEMISTRY
- Contact Information:**
Contact Address: Department of Chemistry
Bankura University
Purandarpur Campus, Purandarpur
PO – Purandarpur, Dist. Bankura
West Bengal, India, Pin - 722155
Email: abutaher@bankurauniv.ac.in
Phone Number (Optional):

5. **Academic qualifications:**

Please mention here the degrees (graduation onward):

College/ University from which the degree was obtained	Abbreviation of the degree
Bankura Sammilani College (under The University of Burdwan)	B.Sc.
The University of Burdwan	M.Sc.
University of Kalyani	Ph.D.

6. **Past Employments/Academic Experience:**

Past Employments: Assistant Professor, Department of Chemistry, Burdwan Raj College, Burdwan – 713104, (4th April 2015 to 7th July 2019). **Experience** – Four years and three months.

Present Employments: Assistant Professor, Department of Chemistry, Bankura University (8th July, 2019 to till now)

7. Administrative Experience:

At College:

- ✚ Convener of Placement Cell, Burdwan Raj College
- ✚ Joint Convener of Examination Committee, Burdwan Raj College
- ✚ Member of External Examination Committee, Burdwan Raj College
- ✚ Member of Admission Committee, Burdwan Raj College

At University:

- ✚ Teacher in Charge, Dept. of Chemistry, Bankura University (8th July, 2019 to 7th July 2021 and 13th June 2022 to 13th July 2022)
- ✚ Convenor of Board of Research Studies, Bankura University
- ✚ Convenor of Post Graduate Board of Studies, Bankura University
- ✚ Convenor of Undergraduate Board of Studies, Bankura University
- ✚ Convenor of Green & Sustainable Cell, Bankura University
- ✚ Co-Convenor of “Centre for Recent Advancement in Chemistry”
- ✚ Member of NAAC Committee, Bankura University
- ✚ Member of IQAC, Bankura University
- ✚ Member of Committee for welfare of Backward Classes, Scheduled Caste and Scheduled Tribe

8. Research Interests:

- Synthesis of potential bioactive heterocyclic compounds
- Synthesis of kinase inhibitors
- Design and Synthesis of Catalyst and its application in organic synthesis

9. Research Guidance / Supervision:

Number of researchers awarded M.Phil/ Ph.D degrees:

Number of researchers pursuing M.Phil/ **Ph.D:** **01**

10. Research Projects:

Current projects:

Title of the project	Principal Investigator	Name of the Funding agency	Period of the project		Funds provided
			From	To	
Synthesis, characterization and biological studies of benzosultam/benzo- δ -sultone-tethered polycyclic heterocycles using pyrazole/ pyrone/quinolone and indane-1,3-dione scaffolds.	Dr. Abu Taher	WBDSTBT	28 th March 2022	27 th March 2025	Rs. 8.2 lakhs
Redox-Neutral Photocatalytic C-H Bond Functionalization	Dr. Abu Taher	DST-SERB (TARE)	19 th October 2022	18 th October 2025	Rs. 18.3 lakhs

11. List of publications:

a) *Journals / Online Journals:*

37. L. van der Westhuizen, J. Weisner, **Abu Taher**, I. Landel, L. Quambusch, M. Lindemann, N. Uhlenbrock, M. P. Müller, I. R. Green, S. C. Pelly, D. Rauh, W. A. L. van Otterlo. Covalent Allosteric Inhibitors of Akt Generated Using a Click Fragment Approach. *ChemMedChem* **2022**, e202100776 (1 of 19). doi.org/10.1002/cmdc.202100776.
36. D. Nandi, **Abu Taher**, R. U. Islam, K. Mallick. Free-radical-mediated copper-catalyzed triazole formation under UV-irradiation. *Applied Organometallic Chemistry* **2019**, *33* (4), e4733.
35. **Abu Taher**, M. Choudhary, D. Nandi, S. Siwal, K. Mallick. Polymer-supported palladium: A hybrid system for multifunctional catalytic application. *Applied Organometallic Chemistry* **2018**, *32* (1), e3898.
34. D. Nandi, **Abu Taher**, R. U. Islam, S. Siwal, M. Choudhary, K. Mallick. Carbon nitride supported copper nanoparticles: light-induced electronic effect of the support for triazole synthesis. *R. Soc. Open Sci.* **2016**, *3*, 160580.
33. D. Nandi, **Abu Taher**, R. U. Islam, M. Choudhary, S. Siwal, K. Mallick. Light effect on Click reaction: Role of photonic quantum dot catalyst. *Scientific Reports*, **2016**, *6*, 33025.
32. M. Choudhary, S. S. Siwal, **Abu Taher**, K. Mallick. Recognition of biomolecules using gold-polymer composites: metal nanoparticles play the role of the catalyst. *J. Mater. Sci.* **2015**, *50*, 6087-6095.
31. J. Weisner, R. Gontla, L. van der Westhuizen, S. Oeck, J. Ketzer, P. Janning, A. Richters, T. Mühlenberg, Z. Fang, **Abu Taher**, V. Jendrosseck, S. C. Pelly, S. Bauer, W. A. L. van Otterlo, D. Rauh. Covalent-Allosteric Kinase Inhibitors. *Angew. Chem. Int. Ed.* **2015**, *54*, 10313-10316.
30. M. Hassam, **Abu Taher**, G. E. Arnott, I. R. Green, W. A. L. van Otterlo. Isomerization of allylbenzenes. *Chemical Reviews* **2015**, *115*, 5462-5569.
29. R. U. Islam, **Abu Taher**, M. Choudhary, S. Siwal, K. Mallick. Polymer immobilized Cu (I) formation and azide-alkyne cycloaddition: A one pot reaction. *Scientific Reports* **2015**, *5*, 9632.
28. **Abu Taher**, D. Nandi, R. U. Islam, M. Choudhary, K. Mallick. Microwave assisted azide-alkyne cycloaddition reaction using polymer supported Cu (I) as a catalytic species: a solventless approach. *RSC Advances*, **2015**, *5*, 47275-47283.
27. **Abu Taher**, D. Nandi, M. Choudhary, K. Mallick. Suzuki coupling reaction in the presence of polymer immobilized palladium nanoparticles: a heterogeneous catalytic pathway. *New J. Chem.* **2015**, *39*, 5589-5596.
26. R. U. Islam, **Abu Taher**, M. Choudhary, M. J. Witcomb, K. Mallick. A polymer supported Cu (I) catalyst for the 'click reaction' in aqueous media. *Dalton Transactions* **2015**, *44*, 1341-1349.

25. M. Choudhary, S. K. Shukla, **Abu Taher**, S. Siwal, K. Mallick. Organic–inorganic hybrid supramolecular assembly: an efficient platform for nonenzymatic glucose sensor. *ACS Sust. Chem. Eng.* **2014**, *2*, 2852-2858.
24. **Abu Taher**, B. A. Aderibigbe, G. L. Morgans, L. G. Madeley, S. D. Khanye, L. van der Westhuizen, M. A. Fernandes, V. J. Smith, J. P. Michael, I. R. Green and W. A. L. van Otterlo. A ring-closing metathesis approach to eight-membered benzannelated scaffolds and subsequent internal alkene isomerizations. *Tetrahedron* **2013**, *69*, 2038-2047.
23. K. C. Majumdar, **Abu Taher**, R. K. Nandi. Synthesis of heterocycles by domino-Knoevenagel–hetero-Diels–Alder reactions. *Tetrahedron*. **2012**, *68*, 5693-5718.
22. **Abu Taher** and Vincent J. Smith. *N*-(4-Aminopyrimidin-5-yl)-4-methyl-*N*-(4-methylphenylsulfonyl) benzenesulfonamide. *Acta Cryst. E.* **2012**, *E68*, o3362.
21. **Abu Taher** and Vincent J. Smith. *N*-(2-Aminopyridin-3-yl)-4-methyl-*N*-(4-methylphenylsulfonyl) Benzenesulfonamide. *Acta Cryst. E.* **2012**, *E68*, o1136.
20. K. C. Majumdar, **Abu Taher** and S. Ponra. Regioselective synthesis of chromeno[4, 3: 4, 5]pyrano [3, 2-*c*] [1,8] naphthyridin-13(6*H*)-one derivatives by domino Knoevenagel hetero-Diels-Alder reaction. *Synthesis* **2011**, 3716-3722.
19. K. C. Majumdar, S. Ponra, D. Ghosh, **Abu Taher**. Multicomponent Aza-Diels-Alder Synthesis of Phenanthrolines and Pyranoquinolines. *Synfacts* **2011**, *3*, 260.
18. K. C. Majumdar, S. Ponra and **Abu Taher**. Dihydro-3*H* chromeno[3,4-*b*][4,7]phenanthrolin-3-one and chromeno-[4,3-*b*]pyrano[3,2-*f*]quinolin-3(13*H*)-one Derivatives by Aza-Diels–Alder reaction. *Synthesis* **2011**, 463-468.
17. K. C. Majumdar, S. Ponra, D. Ghosh and **Abu Taher**. Efficient, one pot synthesis of substituted 4,7-phenanthrolin, pyrano [3,2-*f*]quinoline and pyrano[3,2-*g*] quinoline derivatives by BF₃.Et₂O catalysed Aza Diels-Alder reaction. *Synlett.* **2011**, 104-110.
16. K. C. Majumdar, R. K. Nandi, S. Ganai and **Abu Taher**. Regioselective synthesis of annulated quinoline and pyridine derivatives by Ag-catalyzed 6-*endo*-dig cycloisomerization. *Synlett.* **2011**, 116-120.
15. K. C. Majumdar, **Abu Taher** and S. Ponra. Green synthesis of benzopyran–annulated thiopyrano[2,3-*b*]thiochrome-5(4*H*)-ones by domino Knoevenagel–hetero-Diels–Alder reaction. *Synthesis* **2010**, 4043-4050.
14. K. C. Majumdar, **Abu Taher** and R. K. Nandi. Copper(II)-acetate promoted intramolecular carboamination of alkenes: an efficient synthesis of pentacyclic sultams. *Synlett.* **2010**, 1389-1393.
13. K. C. Majumdar, **Abu Taher** and S. Ponra. Catalyst-free regioselective synthesis of Benzopyran-annulated thiopyrano[2,3-*b*]thiochromen-5-(4*H*)-one derivatives by domino-Knoevenagel-hetero-Diels-Alder reaction of terminal alkynes with 4-hydroxy dithio-coumarin in aqueous medium. *Tetrahedron Lett.* **2010**, *51*, 2297-2300.
12. K. C. Majumdar, **Abu Taher** and S. Ponra. Unusual product from condensative cyclization: Pyrano[3,2-*f*]quinolin-3,10-diones from 6-amino-5-[(trimethylsilyl)ethynyl]-2*H*-chromen-2-one and aryl aldehydes. *Synlett.* **2010**, 735-740.
11. K. C. Majumdar, **Abu Taher** and S. Ponra. Catalyst-free domino-Knoevenagel hetero-Diels-Alder reaction of terminal alkynes in water: an efficient one-step synthesis of indole-annulated thiopyrano benzo- pyran derivatives. *Tetrahedron Lett.* **2010**, *51*, 147-150.

10. K. C. Majumdar, B. Roy, P. Debnath and **Abu Taher**. Metal-mediated hetero cyclization: synthesis of hetero-cyclic compounds containing more than one heteroatom through carbon-heteroatom bond forming reactions. *Curr. Org. Chem.* **2010**, *14*, 846-887.
9. K. C. Majumdar and **Abu Taher**. Wittig olefination and thiol mediated 7-endo-trig radical cyclization: novel synthesis of oxepin derivatives. *Tetrahedron Lett.* **2009**, *50*, 228-231.
8. K. C. Majumdar, **Abu Taher** and K. Ray. Domino-Knoevenagelhetero-Diels-Alder reactions: an efficient one-step synthesis of indole annulated thiopyrano benzopyran derivatives. *Tetrahedron Lett.* **2009**, *50*, 3889-3891.
7. K. C. Majumdar, **Abu Taher** and P. Debnath. Palladium-catalyzed intramolecular biaryl coupling: A highly efficient avenue for benzannulated pyrano quinolines and Julolidine derivatives. *Synthesis* **2009**, 793-800.
6. K. C. Majumdar, S. Chakravorty, P. K. Shyam and **Abu Taher**. Palladium-mediated Heck reaction to the synthesis of 3-substituted indoles and indolones. *Synthesis* **2009**, 403-408.
5. K. C. Majumdar, P. Debnath, **Abu Taher** and A. K. Pal. Intramolecular cyclization reaction–Palladium(0)-catalyzed cyclization is more effective than tin hydride mediated reaction. *Can. J. Chem.* **2008**, *86*, 325-332.
4. K. C. Majumdar, P. Debnath, **Abu Taher**. Regioselective synthesis of oxepin and oxocin annulated quinoline heterocycles by ring-closing metathesis. *Lett. Org. Chem.* **2008**, *5*, 169-173.
3. K. C. Majumdar, S. Chakravorty and **Abu Taher**. New efficient RCM-mediated synthesis of pyrrolidine derivatives. *Synth. Commun.* **2008**, *38*, 3159-3169.
2. K. C. Majumdar, B. Chattopadhyay, **Abu Taher**. New efficient synthesis of pyrido[2,3-c]coumarin derivatives by palladium-catalyzed Heck cyclization. *Synthesis* **2007**, 3647-3652.
1. K. C. Majumdar, A. K. Pal, **Abu Taher** and P. Debnath. Highly effective regio-selective method for the synthesis of substituted coumarin and quinolone annulated heterocycles using Pd(0) catalyzed reaction. *Synthesis* **2007**, 1707-1711.

(b) **Books / Book Chapters/ E-Books:**

BOOK CHAPTERS

1. Inul Ansary and **Abu Taher**

One-pot synthesis of coumarin derivatives (Book Title: Phytochemicals in Human Health), 2019, Intech Open, **ISBN No:** Print: 978-1-78985-587-6; Online: 978-1-78985-588-3; PDF: 978-1-83968-413-5.

2. Abu Taher

Rearrangements (Book Title: Self Learning Material; HCH Chemistry; Organic Chemistry II (CC-CH-08; Unit 6); to be effective 2022. [Under Graduate Degree Programme (CBCS) at Netaji Subhas Open University]

c) **Conference/ seminar volumes:**

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- d) **Edited volumes:**
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- e) **Articles:**
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- f) **Policy documents:**
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- g) **Editor(s) / Co-Editor(s):**

12. **Membership of Learned Societies:**

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13. **Fellowships:**

- (i) **CSIR Junior Research Fellowship (JRF) (2005):** Qualified All India National Eligibility Test (NET) conducted by CSIR-UGC, INDIA, 2005 (June).
- (ii) **CSIR Senior Research Fellowship (SRF) (2008):** The joint Council of Scientific and Industrial Research-University Grand Commission (CSIR-UGC), Govt. of India.
- (iii) **NRF Innovation Postdoctoral Fellowship (2011):** National Research Foundation, Government of South Africa.
- (iv) **Global Excellence and Stature (GES) Postdoctoral Fellowship (2013):** University of Johannesburg, South Africa.

14. **Patents:**

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15. **Invited lectures delivered:**

- ❖ **Title:** “Chemistry in Our Daily Life”
Webinar on “Chemistry and its impact on human civilization”, held on 19th August, 2020 at Department of Chemistry, Panchmura Mahavidyalaya, Bankura.
- ❖ **Title:** “Role of Chemistry in Human Life”
Webinar on “Recent Advances in Chemistry”, held on 27th September, 2020 at Department of Chemistry, Mathabhanga College, Cooch Behar.
- ❖ **Title:** “Development of Click Reaction”
 Lecture presented at **Refresher Course in Chemistry** on “Teaching and Research in Chemistry: Challenges and Opportunities” (31.10.2022 to 15.11.2022) *Organised by* UGC-HRDC, North-Eastern Hill University, Meghalaya on 15th November 2022.
- ❖ Act as resource Person for the Department of Chemistry, Sidho-Kanho-Birsha University, Purulia for PG Semester I for the Session 2022-2033.

16. Awards:

- ✚ **National Scholarship Scheme** from Ministry of Human Resource Development, Government of India in 2003.

17. Papers presented in Conferences, Seminars, Workshops and Symposia:

International:

(Overseas)

- “13th Belgian Organic Synthesis Symposium (**BOSS XIII**)”
Katholieke Universiteit, Leuven, Belgium,
July 15-20, **2012**.
Poster Presented – “*Metal-mediated Synthesis of Bioactive Heterocycles.*”
- “12th Frank Warren Conference On Organic Chemistry”
University Of the Free State, Bloemfontein, South Africa
April 15-18, **2012**.
Poster Presented – “*Synthesis of Irreversible Kinase Inhibitors.*”

(Inside India)

- International Science Seminar on “SCIENCE: PAST, PRESENT AND FUTURE” organized by Syamsundar College & Indian Chemical Society, Kolkata at Syamsundar College.
December 12, **2017**.
Poster presented: “*Synthesis of Benzoxepin Derivative by Thiophenol.*”
- International “Science Seminar” organized by Jointly Burdwan Raj College, Burdwan and Indian Chemical Society, Kolkata at Burdwan Raj College.
October 10, **2017**.
Poster presented: “*Synthesis of kinase inhibitors.*”

National:

- National Seminar on “Recent Trends in Sciences” organized by Burdwan Raj College, Burdwan.
November 16, 2018.
Poster presented: *Synthesis of potential bioactive heterocycles by Metathesis reaction.*
- National Symposium on “Recent Advances in Chemistry Research (RACR-2018)” organized by Department of Chemistry, Visva-Bharati, Santiniketan.
March 11, 2018.
Poster presented: *Synthesis of Heterocyclic Compounds by Aza-Diels-Alder Reaction.*
- National Seminar on “Design, Synthesis, Characterization, Reactivity, Theoretical Study and Applications of Different Advanced Functional Materials” organized by Department of Chemistry, The University of Burdwan, Burdwan, India

December 21-23, **2017**.

Poster presented: *One-step synthesis of indole-annulated thiopyranobenzopyran derivatives.*

- UGC SAP Sponsored National Seminar on “Recent Advances in Chemistry” organized by Department of Chemistry, Visva-Bharati, Santiniketan.
March 04, **2016**.
Poster presented: *Synthesis of Bioactive Heterocycles Using Ru-Catalyst.*
- “12th CRSI National Symposium in Chemistry & 4th CRSI-RSC Symposium in Chemistry” organized by Indian Institute of Chemical Technology (IICT), Hyderabad & National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad.
February 4 - 7, **2010**.
Poster presented: *Synthesis of potential bioactive heterocyclic compounds.*

Conferences, Seminars and Symposia Attended:

5. State Level Seminar entitled “**Nature Inspired Biological Computations, NIBC-2019**” organized by Department of Computer Science, M. U. C. Women’s College, Burdwan.
February 28, **2019**.
4. International Seminar on “**Identity Crisis in Literature, Society and Culture**” Jointly organized by ANTARMUKH (A Peer Reviewed & UGC Approved Journal) & M. U. C. Women’s College, Burdwan.
February 17, **2019**.
3. National Seminar on “**VALUE EDUCATION**” organized by Burdwan Raj College.
August 29, **2018**.
2. One Day Seminar on “**HIV/AIDS Awareness**” organized by NSS Unit, Burdwan Raj College.
March 20, **2017**.
1. UGC Sponsored Two Day International Seminar on “**Civilization: Challenges & Opportunities.**” Organized by Department of History and Sociology, Burdwan Raj College.
August 24-25, **2016**.

Workshops Attended:

5. Short Duration Lecture Workshop on “**Recent Trends in Interdisciplinary Sciences.**” Organized by Integrated Science Education and Research Centre (ISERC), Visva-Bharati, Santiniketan.
February 12-14, **2018**.
4. Seminar cum Workshop on “**Modern Education Technology & E-Content Development**” organized by Rosehub Edutainment Pvt. Ltd. & Burdwan Raj College.
December 2-8, **2017**.

3. Faculty Development Programme (FDP) on Entrepreneurship Promotion at Burdwan- Sponsored by Department of Science and Technology, Govt. of India, under DST-NIMAT project, Organized by Webcon Consulting (India) Ltd., Durgapur Branch.
April 6-24, **2017**.
2. ‘Science Academies’ Lecture Workshop on “**FUNDAMENTALS OF CHEMISTRY**” organized by Post-Graduate Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara.
March 10-11, **2017**.
1. National-Level Lecture-Workshop on “**Quality in Higher Education: The Role of Accreditation.**” Organized by Burdwan Raj College.
September 6, **2016**.

18. **Other notable activities:**

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Signature of the Faculty Member