Murshidabad University

FACULTY ACADEMIC PROFILE/ CV

Full name of the faculty member: Dr. Tapan Kumar Pradhan

Designation: Assistant Professor

Contact information: +917432952882, tapaniict@gmail.com

Academic qualifications:

College/University from which the degree was obtained	Abbreviation of the degree
Calcutta University	M.Sc.
Osmania University (Work Done: CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad, India)	Ph.D.

Positions held/ holding: Head, Department of Chemistry (From April, 2023)

Research interests: Total synthesis, Glycosylation of Kdo, Medicinal Chemistry

Research guidance: NA

Projects: TEACHERS ASSOCIATESHIP FOR RESEARCH EXCELLENCE (TARE) PROJECT **(2021 – 2024)**

18,30,000/ L

SERB-DST Research Project Grant — "Transition Metal Catalyzed Construction of 2-Pyridone based Extended Conjugated Systems and Macrocycles"

Dr. Tapan Kumar Pradhan, **PI**.

Dr. Rajarshi Samanta, **CO-PI**, Indian Institute of Technology Kharagpur (IIT KGP), West Bengal, India.

Select list of publications (Only number):

a) Journals: 14
b) Books/ book chapters: 1
c) Conference/ seminar volumes: 0

Membership of Learned Societies: Life member, American Peptide Society

Invited lectures delivered:

Awards:

2015 Taiwan Ministry of Science and Technology (MOST) Fellowship for postdoctoral research
2012 Taiwan National Science Council (NSC) Fellowship for postdoctoral research

2005-10 CSIR-Fellow (JRF & SRF)
2005 Recipient of National Scholarship from Calcutta University
2003 Recipient of Somnath Banerjee Memorial Awards: (RKMV, Belur)

Other notable activities:

1. Participated in three-day international conference on 'Emerging Trends in Catalysis & Synthesis 2024' organized by Indian Institute of Technology Kharagpur (IIT KGP) on March 07-09th, 2024.
2. Participated in one day national seminar on 'Governance, Leadership and Management of the College Administration in view of NAAC and NEP-2020' organized by Krishnath College on 27th May, 2023.
3. Participated in the UGC Sponsored 'Webinar on NEP-2020: Changing Role of Teacher' organized by UGC-Human Resource Development Center, Gujarat University, Ahmedabad, on 8th September, 2022.
4. Participated in the New IPR 2023 e-workshop organized by Innovative technology Enabling Centre (InTEC), CSIR-IMMT, Bhubaneswar during June 12-17, 2023.
5. Subhash Ghosh*, Tapan Kumar Pradhan "Total Synthesis of Emericellamide A" Poster presented at the international symposium on natural products (ASOMPS - XIII) on November 3-6th, 2008, held at IICT, Hyderabad, India.
6. Oral presentation at 5th J-NOST Symposium for Research Scholars, December 4-7th, 2009, held at IIT KANPUR, India. Topic of the oral presentation: "The total synthesis of Varitriol and its analogues from D- mannitol".

List of Journal Publication/ Conference Papers: (Last ten years)

1. **Tapan Kumar Pradha,*** Kdo Glycosylations and Their Application in Oligosaccharide Synthesis, *Euro JOC*, **2023**, *24*, e202300146.
2. Ming-Hua Hsu*, Mohit Kapoor, **Tapan Kumar Pradhan**, Man-Him Tse, Hsin-Ya Chen, Man-Jun Yan, Yu-Tsen Cheng, Yu-Cheng Lin, Cheng-Ying Hsieh, Ker-Yin Liu, Chien-Chung Han, Mild and Efficient Cu-Catalyzed Synthesis of Trisubstituted Pyrroles. *Synthesis* **2020**.
3. Kwok-Kong Tony Mong*, **Tapan Kumar Pradhan**, Cheng-Hsin Chiu, Wei-Cheng Hung, Chao-Ju Chen and Yi-Fang Wang, (2-Ketulosonyl) onate 2,3-*O*-thionocarbonate donors for the synthesis of KO and KDO α-glycosides and a

one-pot glycosylation method for 2-keto acid donors. *Org. Chem. Front.*, **2020**,*7*, 2179–2186.

4. Chandrasekhar, D. Balaji, Shwu-Chen Tsay, **Tapan Kumar Pradhan**, Hwu, Jih Ru*, Syntheses of Chroman-2-ones and α-Amino Acids through a Diastereoselective Domino Reaction. *J. Org. Chem*. **2017**, *84*, 5524–5537.
5. **Tapan Kumar Pradhan**, Kwok Kong Tony Mong*, Glycosylation Chemistry of 2-Keto-3-Deoxy-D-manno-Octoulsonic Acid (Kdo) Glycosyl Donors. (Invited Review), *Isr. J. Chem*. **2015**, *55*, 285–296.
6. **Tapan Kumar Pradhan**, Chun Cheng Lin, Kwok Kong Tony Mong*, Preparation of a Protected 3-Deoxy-D-Manno-Oct-2-ulosonate Glycal for the Synthesis of β-KDO containing Oligosaccharides. *Org. Lett*. **2014**, *16*, 1474–1477.
7. Bhaswati Ghosh, Yen-Hsun Lai, Yu-Yin Shih, **Tapan Kumar Pradhan**, Chun-Hung Lin, Kwok-Kong Tony Mong*, Total Synthesis of a Glycoglycerolipid from Meiothermus taiwanensis through a One-Pot Glycosylation Reaction and Exploration of its Immunological Properties. *Chem. Asian J.* **2013**, *12*, 3191–3199.
8. **Tapan Kumar Pradhan**. Karla Mahindar Reddy, Subhash Ghosh*. Total synthesis of emeriricellamide A and B. *Tetrahedron: Asymmetry* **2013**, *24*, 1042–1051.
9. **Tapan Kumar Pradhan**, Chun Cheng Lin, Kwok Kong Tony Mong*, Formal Synthesis of a 3-deoxy-D-manno-octulosonic acid (KDO) and 3-deoxy-D-arabino-2-heptulosonic acid (DAH). *Synlett* **2013**, *24*, 219–222.

Book chapter

Jih Ru Hwu, **Tapan K. Pradhan**, Shwu Chen Tsay, Mohit Kapoor, Sergey O. Bachurin, Oleg A. Raevsky, Johan Neyts *In,* Antiviral Agents towards Chikungunya Virus: Structures, Syntheses, and Isolation from Natural Sources; *New Horizon of Process Chemistry by Scalable Reactions and Technologies* Publisher: Springer.