

# Dr. Tapan Kumar Pradhan

Assistant Professor, Department of Chemistry



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| Academic Qualification: | M.Sc. Ph.D.  |
| Area of Specialization: | Organic Chemistry  |

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| Research Interest:       | Total synthesis, organo-catalysis, synthetic methods and strategies for carbohydrates, oligosaccharides, glycoproteins.   |
| Professional Experience: | <ul style="list-style-type: none"><li>• Research Fellow, R &amp; D Center, Genovior Biotech Corporation (GBC), Taiwan (2016-2020)</li><li>• Postdoctoral Research Fellow, Department Chemistry, National Tsing Hua University (NTHU), Taiwan (2015-2016)</li><li>• Postdoctoral Fellow, Department of Applied Chemistry, National Yang Ming Chiao Tung University (NYCU), formerly known as National Chiao Tung University (NCTU), Taiwan (2012-2015)</li><li>• Junior Scientist, Aurigene Discovery Technology Pvt, Hyderabad. India (2010-2012)</li></ul> |

## Publications

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| Journal: | <ol style="list-style-type: none"><li>1. Ming-Hua Hsu*, Mohit Kapoor, <b>Tapan Kumar Pradhan</b>, 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. <i>Synthesis</i> 2020.</li><li>2. Kwok-Kong Tony Mong*, <b>Tapan Kumar Pradhan</b>, 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 <math>\alpha</math>-glycosides and a one-pot glycosylation method for 2-keto acid donors. <i>Org. Chem. Front.</i>, 2020,7, 2179–2186.</li><li>3. Chandrasekhar, D. Balaji, Shwu-Chen Tsay, <b>Tapan Kumar Pradhan</b>, Hwu, Jih Ru*, Syntheses of Chroman-2-ones and <math>\alpha</math>-Amino Acids through a Diastereoselective Domino Reaction. <i>J. Org. Chem.</i> 2017, 84, 5524–5537.</li><li>4. <b>Tapan Kumar Pradhan</b>, Kwok Kong Tony Mong*, Glycosylation Chemistry of 2-Keto- 3-Deoxy-D-manno-Octoulsonic Acid (Kdo) Glycosyl Donors. (Invited Review), <i>Isr. J. Chem.</i> 2015, 55, 285–296.</li></ol> |
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|   | <ol style="list-style-type: none"> <li>5. <b>Tapan Kumar Pradhan</b>, Chun Cheng Lin, Kwok Kong Tony Mong*, Preparation of a Protected 3-Deoxy-D-Manno-Oct-2 -ulosonate Glycal for the Synthesis of b-KDO containing Oligosaccharides. <i>Org. Lett.</i> 2014, 16, 1474-1477.</li> <li>6. Bhaswati Ghosh, Yen-Hsun Lai, Yu-Yin Shih, <b>Tapan Kumar Pradhan</b>, Chun-Hung Lin, Kwok-Kong Tony Mong*, Total Synthesis of a Glycoglycerolipid from <i>Meiothermus taiwanensis</i> through a One-Pot Glycosylation Reaction and Exploration of its Immunological Properties. <i>Chem. Asian J.</i> 2013, 12, 3191-3199.</li> <li>7. <b>Tapan Kumar Pradhan</b>. Karla Mahindar Reddy, Subhash Ghosh*. Total synthesis of emeriricellamide A and B. <i>Tetrahedron: Asymmetry</i> 2013, 24, 1042–1051.</li> <li>8. <b>Tapan Kumar Pradhan</b>, 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). <i>Synlett</i> 2013, 24, 219–222.</li> <li>9. Sudhakar Athe, Balla Chandrasekhar, Saumya Roy, <b>Tapan Kumar Pradhan</b>, Subhash Ghosh*, Formal Total Synthesis of (+)-Neopeltolide <i>J. Org. Chem.</i> 2012, 77, 9840–9845.</li> <li>10. A.V. Jithender Reddy, <b>Tapan Kumar Pradhan</b>, Subhash Ghosh*, Total syntheses of 28, 29-diepi-arenamide A, 29-epi-arenamide A, and 28-epi-arenamide. <i>Tetrahedron Lett.</i> 2012, 53, 6148–6150.</li> <li>11. Subhash Ghosh*, <b>Tapan Kumar Pradhan</b>, Stereoselective Total Synthesis of natural (+)-Varitriol, (–)-Varitriol, 5'-epi-(+)-Varitriol, 4' epi- (–)-Varitriol from D-Mannitol. <i>J. Org. Chem.</i> 2010, 75, 2107–2110.</li> <li>12. Subhash Ghosh*, <b>Tapan Kumar Pradhan</b>, The first total synthesis of emericellamide A. <i>Tetrahedron Lett.</i> 2008, 49, 3697–3700.</li> <li>13. Subhash Ghosh*, <b>Tapan Kumar Pradhan</b>, Stereoselective Synthesis of (3S,8R,9R,10R)- Heptadeca-1-ene-4,6-diyne Tetrol and Its 3-Epimer from D-Mannitol. <i>Synlett</i> 2007, 2433–2435.</li> </ol> |
| <b>Book chapter:</b>                                  | <p>Jih Ru Hwu, Tapan K. Pradhan, Shwu Chen Tsay, Mohit Kapoor, Sergey O. Bachurin, Oleg A. Raevsky, Johan Neyts In, <i>Antiviral Agents towards Chikungunya Virus: Structures, Syntheses, and Isolation from Natural Sources; New Horizon of Process Chemistry by Scalable Reactions and Technologies</i> Publisher: Springer</p>   |
| <b>Sponsored Research And Consultancy Undertaken:</b> | <ul style="list-style-type: none"> <li>• TEACHERS ASSOCIATESHIP FOR RESEARCH EXCELLENCE (TARE) PROJECT, (2022 – 2025), 18,30,000/ L</li> <li>• SERB-DST Research Project Grant — “Transition Metal Catalyzed Construction of 2-Pyridone based Extended Conjugated Systems and Macrocycles”</li> <li>• Dr. Tapan Kumar Pradhan, <b>PI</b>.</li> <li>• Dr. Rajarshi Samanta, <b>CO-PI</b>, Indian Institute of Technology</li> <li>• Kharapur (IIT KGP), West Bengal, India.</li> </ul>   |