Jhimli Sengupta, Ph.D. (IICB)

Assistant Professor

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Research Areas: Organic Synthesis

Research Interest:

1. Synthesis of novel C_2- Symmetric macrocyclic nucleosides starting from Carbohydrates.
2. Formation of supramolecular complexes.
3. Study of the aggregation behaviour of that supramolecular complexes.

Member of Professional Bodies:

Life member (IACS, Kolkata 32)
Life member of Indian Chemical Society, Kolkata.

Academic Qualification:

1. **Ph.D.-** Indian Institute of Chemical Biology, 2007
2. **M.Sc. in Chemistry-** Calcutta University, 2000, (1^{st} class 1^{st})
3. **B.Sc. in Chemistry-** Calcutta University, 1998

Professional Recognition, Fellowship and Award received:

1. Gold Medal for securing highest marks in Chemistry in M.Sc. Examination, Calcutta University, Kolkata, India, 2000
2. Shyama Prasad Mukherjee fellowship for securing place among the top 20% awardees in Chemical Sciences merit list of the NET (CSIR), 2000
3. Research Associate (IICB), 2007 to 2009.
4. Young Scientist, Fast Track DST, 2009.

Professional Experience:

Present position: Assistant Professor at theWest Bengal State University, Department of Chemistry 2009.

Previous position: Research Associate (IICB), 2007 to 2009.

Ongoing Project:

Synthesis of C_2-symmetric macrocyclic nucleosides and the study of their supramolecular complexes funded by **DST Fast Track** Scheme for Young Scientists.

Publications:

1. Synthesis of Ether-Linked Oligoribo- and Xylonucleosides from 3,5'-Ether-Linked Pseudosaccharides , **J. Sengupta**, A. Bhattacharjya, ***J. Org. Chem***. **2008**, *73*, 6860-6863.

2. Synthesis of Nucleosides with Nucleobases anchored to 11-, 12-, 16- membered macrooxacycles: Synthesis and Aggregation study , **J. Sengupta**, R. Mukhopadhyay, A. Bhattacharjya, ***J. Org. Chem***. **2007**, *70*, 8579-8582.

3. Synthesis and intramolecular nitrile oxide cycloaddition of 3,5'-ether-linked pseudooligosaccharide derivatives: an approach to chiral macrooxacycles', **J. Sengupta**, R. Mukhopadhyay, A. Bhattacharjya, M. M. Bhadbhade and G. V. Bhosekar, ***J. Org. Chem***. **2005**, *70*, 8579-8582.

4. Expeditious Synthesis of Enantiopure Symmetrical Macroheterocycles by Ring Closing Metathesis of Ether and Tether-Linked 1,2-Isopropylidene-furanosides. G. Biswas, **J. Sengupta,** M. Nath and A. Bhattacharjya, ***Carbohydr. Res.*** **2005.**

5. **B. Achari, P. Dutta, P. Chakraborty, J. Sengupta, D. Bandyopadhyay, J. Maity, I. Khan, Y. Ding, Ferreira, B. Daneel,** Fluorescent Pigment and Phenol Glucosides from the Heartwood of Pterocarpus marsupium. ***Journal of Natural Products 2012, 75, 655-660***.

6. **T. K. Ghorai*, C. R. Choudhury, S. Biswas, M. Chakraborty, R. Das, J. Sengupta**, Properties of $BaCrO_4$ and TiO_2 mixed oxides synthesized by mechanical alloying, ***Society for Materials Chemistry bulletin***, **Vol. 2 (No.1) June 2011, PP. 40-46.**