

# **Suman Biswas, Ph.D. (University of Kalyani)**

## **Assistant Professor**

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### **Research Areas:**

1. Development and application of synthetic route towards oxazole based macrocyclic natural product Telomestatin and its analogues.
2. Development of new synthetic route to some biaryl ether based macrocyclic anticancer natural products like K-13, OF-4949 by novel C-C bond formation.
3. Regioselective synthesis of functionalised oxepin and oxocin derivatives based on ring closing metathesis (RCM).

### **Research Interest:**

1. Design and synthesis of oxazole based and/or amino acid based bio-active natural products.
2. Modern synthetic transformations.
3. Multi-step synthesis of chiral compounds and heterocyclic compounds of biological importance.
4. Synthetic studies towards transition metal catalysed reactions involving RCM, Heck-reaction, organo-zinc reactions etc.

### **Member of Professional Bodies:**

Life membership of IACS, Kolkata-32  
Life member of Indian Chemical Society, Kolkata.

### **Academic Qualification:**

1. **Ph.D.-** University of Kalyani, **2007**
2. **M.Sc. in Chemistry (Specialisation : Organic-chemistry)-** University of Kalyani, **2002**
3. **B.Sc. in Chemistry-** University of Kalyani, **2000**

### **Professional Recognition, Fellowship and Award received:**

1. Recipient of Merit cum means Scholarship from University of Kalyani in B.Sc.,1998 □

2. Recipient of the Best poster award in the joint International conference organised by Council of Scientific & Industrial Research, India and American Chemical Society, 2006, at ICT, Hyderabad

### **Professional Experience:**

**Present position:** Assistant Professor at the West Bengal State University, Department of Chemistry since 23<sup>rd</sup> March, 2009.

**Previous position:** Lecturer at Taki Govt. College (Date of joining: 30<sup>th</sup> March, 2007)

### **On going project:**

**CSIR No. 01(2445)/10/EMR-II**, Title: "Synthesis and Photophysics of Oxazole Based Fluorescent Dyes in Homogeneous media: A Tool for Probing Micro-Heterogeneous media and Supramolecular Host Assemblies"

### **Publications:**

1. Regioselective Synthesis of Oxepin- and Oxocin-Annulated 2-Quinolones. Chattopadhyay\*, S. K.; Dey, R.; **Biswas, S. *Synthesis*, 2005, 403.**
2. A New [5+1]-Annulation Route to Some Quinazoline and Fused Pyrimidine Derivatives. Chattopadhyay\*, S. K.; Dey, R.; **Biswas, S. *Synthesis*, 2005, 1083.**
3. Pd(0)-Catalyzed Heck-type Arylation of Didehydropeptides Chattopadhyay\* S. K., Pal B. K. and **Biswas S., *Synthetic communications*, 2005, 35,1167.**
4. Efficient construction of a Doubly Functionalized Trisoxazole Derivative Relevant to the Synthesis of Novel Telomerase Inhibitor Telomestatin and its Analogues. Chattopadhyay\* S. K, **Biswas, S.** and Pal, B K., ***Synthesis*, 2006, 1289.**
5. Convergent Synthesis of a 24-membered macrocyclic hexaoxazole derivative related to the novel telomerase inhibitor telomestatin. Chattopadhyay\*, S. K.; **Biswas, S. *Tetrahedron Lett.* 2006, 47, 7897.**
6. Convergent Synthesis of Functionalised Tetra- and Penta-oxazole Derivatives Related to Some Bioactive Natural Products Chattopadhyay\*, S. K.; **Biswas S.;** Ghosh, S K. ***Synthesis*, 2008, 1029.**
7. Photocatalytic properties of mixed oxides of BaCrO<sub>4</sub> and TiO<sub>2</sub>

T.K. Ghorai, C.R. Choudhury, **S. Biswas**, M. Chakraborty, R. Das, J. Sengupta  
*SMC Bulletin 2 (2011) 49*

8. Photophysical study of a charge transfer oxazole dye in micelles: Role of surfactant headgroups

Mait, J.; Sarkar, Y.; , Parui, P. P.; Chakraborty,S.; **Biswas,S.**; Das. R.  
*Journal of Luminiscence, 2015, 163, 21.*