# Kalpataru Das



**Research Area**: "Pt-Catalyzed Development of Environmentally Benign Process for the Direct Amination of Allylic Alcohols"

Key words: Pt-catalysis, direct allylic amination

## **Education:**

**2008:** Ph.D. in Organic Chemistry from Indian Institute of Technology Kanpur, India. Advisor: Professor Manas K. Ghorai

2001: M.Sc. in Chemistry from Calcutta University, India.

1999: B.Sc. in Chemistry from Calcutta University, India.

## **Employment Experience:**

Nov. 2009-Present: Global COE Post-doctoral Fellow

Advisor: Professor Kazushi Mashima

Graduate School of Engineering Science,

Osaka University, Japan.

Feb. 2008- Aug. 2009: Post-doctoral Research Associate

Advisor: Professor Michael Schmittel

University of Siegen, Germany.

#### Awards:

- **2009-Present**: Global COE Post-doctoral Fellowship, Department of Chemistry, Graduate School of Engineering Science, Osaka University, Japan.
- 2008-2009: Post-doctoral Fellowship, Department of Chemistry, University of Siegen, Germany.
- 2004-2007: Senior Research Fellowship, Department of Chemistry, IIT Kanpur, India.
- 2002-2004: Junior Research Fellowship, Department of Chemistry, IIT Kanpur, India.

#### **Selected Publications**:

- Manas K. Ghorai, <u>Kalpataru Das</u>, Amit Kumar, Koena Ghosh, "An efficient route to regioselective opening of *N*-tosylaziridines with zinc(II) halides", *Tetrahedron Lett.*, 46, (23), 4103-4106 (2005).
- Manas K. Ghorai, Amit Kumar, <u>Kalpataru Das</u>, "Lewis acid mediated novel ringopening rearrangement of 2-aryl-*N*-sulfonyl azetidines to enantiopure (*E*)allylamines", *Org. Lett.*, 9, (26), 5441-5444 (2007).
- Manas K. Ghorai, <u>Kalpataru Das</u>, Dipti Shukla, "Lewis acid mediated highly regioselective S<sub>N</sub>2-type ring-opening of 2-aryl-*N*-tosylazetidines and aziridines by alcohols", *J. Org. Chem.*, **72**, (15), 5859-5862 (2007).
- Manas K. Ghorai, Dipti Shukla, <u>Kalpataru Das</u>, "Enantioselective syntheses of morpholines and their homologues *via* an S<sub>N</sub>2-type ring opening of aziridines and azetidines with haloalcohols" *J. Org. Chem.*, **74**, (18), 7013-7022 (2009).

#### **Research Statement:**

Transition metal-catalyzed amination of allylic compds is on-going.

### **Research Goal:**

Development of direct amination of allylic alcohols is targeted.