Curriculum Vitae

Dr. Jaya Prakash Das
Lecturer
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Professional Experience:

2011 (May-continuing)	**Lecturer in Chemistry**, Ravenshaw University
2010 (July-April)	**Assistant Professor** Bhubaneswar Institute of Technology, Bhubaneswar
2010 (April-June)	**Assistant Professor** C. V. Raman College of Engineering, Bhubaneswar
2006 – 2010	**Schulich Postdoctoral Fellow** Schulich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel. *"Enantioselective synthesis of all-carbon quaternary stereo centers in acyclic systems"* **Advisor: Prof. Ilan Marek**
2006 (Mar-Oct)	**CSIR-SRF (Extended)** Indian Institute of Science, Bangalore, India. **Advisor: Prof. Goverdhan Mehta**
2000–2006	**CSIR Research Fellow** Indian Institute of Technology, Kharagpur, India **Advisor: Prof. Sujit Roy**

Education:

1993-1996	**B. Sc.** in Chemistry Utkal University, Orissa, India. Passed with 1st Class Honors
1996-1998	**M. Sc.** in Chemistry (Organic Chemistry Specialization) Utkal University, Orissa, India
2000 – 2006	**Ph.D.** Indian Institute of Technology, Kharagpur, India Thesis title: *"Modified Hunsdiecker Reactions: Halo-, Nitro- and Seleno-Decarboxylation of Aromatic α, β-Unsaturated Carboxylic Acids"* **Thesis advisor: Prof. Sujit Roy**

Area (s) of specialization:

Organic Chemistry, Organometallic Chemistry, Asymmetric synthesis: My research interests are focused on the discovery of novel metal/organo-catalyzed transformations, new methods for

efficient stereo- and enantioselective strategies for the synthesis of important complex molecular structures.

I am particularly interested in developing carbon-carbon and carbon-heteroatom bond forming processes, which efficiently create multiple stereocenters and their applications in the synthesis of valuable building blocks for organic chemistry, biologically important and structurally interesting organic compounds.

I would like to pursue a research career involving studies in chemistry, biology, and medicine with a special emphasis on synthesis and on the utilization of synthesis and mechanistic studies to address problems of biochemical and medicinal significance in a long term.

The goal of my multidisciplinary research plan for the next 5 years is to discover, develop and understand (1) new multicomponent reaction strategies for the creation of multiple stereocenters including the extremely difficult all-carbon quaternary stereocenters and (2) synthesis of complex molecular architecture for broad synthetic application.

Publications:

Research Papers in Peer Reviewed Journals:

1. Enantioselective Synthesis of All-Carbon Quaternary Stereogenic Centers in Acyclic Systems.
   Jaya Prakash Das; Ilan Marek ***Chem. Commun.*** **2011,** *47* (16), 4593 - 4623**.**

2. A Unique Approach to Aldol Products for the Creation of All-Carbon Quaternary Stereocenters.
   Jaya Prakash Das, Helena Chechik, Ilan Marek ***Nature Chem.*** **2009**, *1*, 128

   ☞ Highlighted in ***Synform*** **2009**, *5*, A43
   ☞ Highlighted in ***Angew. Chem. Int. Ed.*** **2009**, *48*, 2-5

3. Synthesis of Alkynyl and Vinyl Selenides via Selenodecarboxylation of Arylpropiolic and Cinnamic Acids.
   Jaya Prakash Das, Ujjal Kanti Roy, Sujit Roy ***Organometallics*** **2005**, *24*, 6136

4. A Nitro-Hunsdiecker Reaction: From Unsaturated Carboxylic Acids to Nitrostyrenes and Nitroarenes.
   Jaya Prakash Das, Pradipta Sinha, Sujit Roy ***Organic Letters*** **2002**, *4*, 3055

5. Catalytic Hunsdiecker Reaction of α, β-Unsaturated Carboxylic Acids: How Efficient is the Catalyst?
   Jaya Prakash Das, Sujit Roy ***Journal of Organic Chemistry*** **2002**, *22*, 7861

6. Highly Enantioselective Approach to Aldol Products for the Creation of All-Carbon Quaternary Stereocenters.
   Jaya Prakash Das; Helena Chechik; Ilan Marek **(Manuscript under preparation)**

Conference Presentations:

As Poster Presentations:

1. An Efficient New Approach to Aldol product with the Creation of All-Carbon Quaternary Stereocenters.
   Jaya Prakash Das; Helena Chechik, Ilan Marek
   The 12th European Symposium on Organic Reactivity, September 6-11, 2009
   Technion-Israel Institute of Technology, Haifa, Israel

2. A Unique Approach to Aldol Products for the Creation of All-Carbon Quaternary Stereocentres.
   Jaya Prakash Das; Helena Chechik, Ilan Marek

Symposium of the Lise Meitner-Minerva Center, November 13-14, **2008**
Hebrew University, Jerusalem, Israel. **(Best Poster Award)**
&
The 74th Annual Meeting of the Israel Chemical Society, February 8-9, **2009**,
Tel aviv, Israel.

3. A Multicomponent Addition Approach Towards an Efficient Route to Aldol Surrogate.
Jaya Prakash Das; Helena Chechik, Ilan Marek
The 73rd Annual Meeting of the Israel Chemical Society, February 4-5, **2008**
International Convention Center (Binyanei Ha'Uma), Jerusalem, Israel
Hebrew University, Jerusalem, Israel,
&
Symposium of the Lise Meitner-Minerva Center, June, **2007**
Schulich Mini-Symposium, 22nd November, **2007**
Schulich Faculty of Chemistry, Technion, Haifa, Israel.

4. Catalytic Hunsdiecker Reaction (CHR): Breaking the Barrier?
Jaya Prakash Das; Sujit Roy
Recent Perspectives in Organic Chemistry, Jan 24-25, **2002**, IACS, Kolkata.

5. Catalytic Hunsdiecker Reaction: How Efficient a Catalyst is?
Jaya Prakash Das; Sujit Roy
National One-Day Symposium, Oct 13, **2001**
Chemistry Department, IIT, Kharagpur**.**

Research Projects, Evaluation Research, Consultancies:

A proposal has been considered and Recommended for support under Fast Track Proposals for Young Scientists scheme of DST-New Delhi. (Registration No. 221/2010)

Honours, Fellowships:

2008	Won the **Best Poster Presentation** Award at the **Symposium of the Lise Meitner-Minerva Center**, Hebrew University, Jerusalem, Israel.
2008-2010	**Schulich Postdoctoral Fellowship** of the Technion-Israel Institute of Technology, Israel.
2006-2008	**VATAT post doctoral fellowship** of the Israel Council for Higher Education
2006	Awarded Senior Research Fellowship (**SRF-Extended**) of the Council of Scientific and Industrial Research (**CSIR**), India.
2003	Awarded Senior Research Fellowship (**SRF**) of the Council of Scientific and Industrial Research (**CSIR**), India
2000	Qualified All India Graduate Aptitude Test (**GATE**) Examination.
1996-1998	Recipient of the **National Scholarship of Post-Graduate Studies.**
