




## Faculty Details proforma for DU Web-site

Title	Dr.	First Name	Girish	Last Name	Mishra	Photograph
Designation	Assistant Professor & Ramalingaswami Fellow (DBT)					
Address	Department of Botany, University of Delhi, Delhi-110007					
Email	girishmishra@yahoo.com					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Hongkong				2004	
PG	Madurai Kamaraj University				1995	
UG	University of Delhi				1993	
Career Profile						
<b>July 2010-Present</b>	<b>Assistant Professor &amp; Ramalingaswami Fellow (DBT)</b> Dept. of Botany, University of Delhi Delhi-110007, India					
<b>Nov' 2006-June 2010</b>	<b>Research Associate</b> Dept. of Biology, Brookhaven National Laboratory, Upton, NY-11973,USA					
<b>2004- Oct' 2006</b>	<b>Postdoctoral Research Associate</b> Dept. of Biology, University of Missouri-St. Louis St. Louis, MO-63132, USA					
Administrative Assignments						
Areas of Interest / Specialization						
My area of specialization is plant molecular biology and biochemistry with research emphasis on lipid metabolism and lipid mediated hormone signaling in plants.						
Subjects Taught						
Bot 301- Algae, environment and human welfare						
Bot 307- Genomics and Proteomics						

## Research Guidance

## Publications Profile

### **Books/Monographs (Authored/Edited)**

Phospholipid signaling in plant response to drought and salt stress. Wang X, Zhang W, Li W and Mishra G .M. A. Jenks et al. (eds.) *Advances in Molecular breeding toward drought and salt tolerant crops*. Springer publications. 183-192. 2007.

### **Research papers published in Refereed/Peer Reviewed Journals**

ACBP4 and ACBP5, novel Arabidopsis acyl-CoA-binding proteins with kelch motifs that bind oleoyl-CoA. Leung KC, Li HY, Mishra G, Chye ML. *Plant Mol Biol*. 2004 May; 55 (2):297-309.

A bifurcating pathway directs abscisic acid effects on stomatal closure and opening in Arabidopsis. Mishra G, Zhang W, Deng F, Zhao J, and Wang X. *Science*. 2006 April; 312: 264-266

Desaturases: Emerging models for understanding functional diversification of diiron-containing enzymes. Shanklin J, Guy JE., Mishra G and Lindqvist Y. *J. Biol. Chem.* **July 2009**, 284: **18559-18563**

The Arabidopsis *acbp1acbp2* double mutant lacking Acyl-CoA-Binding Proteins ACBP1 and ACBP2 is embryo lethal. Chen QF, Xiao S, Wangqin Q, Mishra G. and Chye ML. *New Phytologist* 2010 186: 843-855

Metabolic engineering of seeds can achieve levels of  $\omega$ -7 fatty acids comparable to the highest levels found in natural plant sources. Nguyen HT, Mishra G, Whittle E, Bevan SA, Merlo AO, Walsh TA and John Shanklin. *Plant physiology*. E-Published on October 13, 2010, as DOI:10.1104/pp.110.165340

### **Research papers published in Refereed/Peer Reviewed Conferences**

Induction of plantlet regeneration and embryonic callus in black gram, *Vigna mungo* (L.) Hepper cv. Co4. Mishra G, Ramalingam S, Karuppanapandian T, Agrawal S, Venkataraman J and Kumariah M. In: D'Souza, L.; Anuradha, M.; Shashikiran, N.; Smita, Hegde and K. Rajendra (eds.) *Biotechnology for a Better Future*. SAC Publications, India. 269-282, 2004.

## Conference Organization/ Presentations (in the last three years)

### **Participation as Paper/Poster Presenter**

Isolation and analysis of novel desaturase from *Leonotis nepetifolis*. Girish Mishra, Edward Whittle, John Shanklin. Gordon Research conference on plant lipids, Galveston, Texas in Feb 2009

Structural studies on *Pseudomonas Oleovorans* alkane  $\omega$ -hydroxylase. Girish Mishra and John Shanklin. National Plant lipid consortium, Fallen leaf lake, California in June 2007.

## Research Projects (Major Grants/Research Collaboration)

## Awards and Distinctions

2010-2015	Ramalingaswami Fellowship, Department of Biotechnology (DBT), India
2004-06	NSF postdoctoral fellowship from Govt. of U.S.A
2000-04	Hong Kong University studentship for Ph.D.
1995	National Entrance Test / UGC examination cleared
1993-95	Junior Research Fellowship during M.Sc from Indian Council of Agricultural Research for Plant Biotechnology.
1993-95	Merit scholarship, Department of Biotechnology (DBT), India
1987-93	National merit scholarship, India
Association With Professional Bodies	
Other Activities	