




Faculty Details proforma for DU Web-site

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cc: director@ducc.du.ac.in)

Title	Dr	First Name	YASHWANTI	Last Name	MUDGIL	Photograph
Designation		Assistant professor				
Address		Botany Department , University of Delhi Delhi 110007				
Phone No	Office	27662273				
	Mobile					
Email		ymudgil@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		ICGEB, JNU, New Delhi			2002	
PG		M. S. University of Baroda			1996	
UG		Srivenkateswara college, Delhi University			1993	
P.G Diploma: Biochemical Technology		Srivenkateswara college, Delhi University			1994	
Career Profile						
<p>March, 2010-till date: Assistant Professor, Department of Botany, University of Delhi. 2005-2010: Post-Doctoral Research Associate, Department of Biology, University of North Carolina at Chapel Hill, USA. 2002 -2005: Post-Doctoral Research Associate, Department of Cell & Systems Biology, University of Toronto, Canada.</p>						
Administrative Assignments						
Member Secretary , Bio-Safety Committee North Campus.						
Areas of Interest / Specialization						
Signal transduction networks in plant cells, G protein- AGB1/AGG subunit mediated signaling, Molecular mechanisms of regulation of plant development by hormones.						
Subjects Taught						
University of Toronto: Part time teaching in fourth year undergrad course : Plant Molecular Biology and Biotechnology .						

DU Botany: Recombinant DNA technology and Proteomics, Immunology, Contemporary concepts and methods in cell biology.

Research Guidance

Currently mentoring one M.Phil. , one Ph.D. students and one R.A.

Publications Profile

Research papers published in Refereed/Peer Reviewed Journals

1. Klopffleisch K, Phan N, Augustin K, Bayne RS, Booker KS, Botella JR, Carpita NC, Carr T, Chen JG, Cooke TR, Frick-Cheng A, Friedman EJ, Fulk B, Hahn MG, Jiang K, Jorda L, Kruppe L, Liu C, Lorek J, McCann MC, Molina A, Moriyama EN, Mukhtar MS, **Mudgil Y**, Pattathil S, Schwarz J, Seta S, Tan M, Temp U, Trusov Y, Urano D, Welter B, Yang J, Panstruga R, Uhrig JF, Jones AM (2011) Arabidopsis G-protein interactome reveals connections to cell wall carbohydrates and morphogenesis. *Molecular systems Biology*, 7:532.
2. **Mudgil Y*** and Jones AM (2010) NDR proteins: lessons learned from Arabidopsis and animal cells prompt a testable hypothesis. *Plant Signaling & Behavior*, Vol. 5: issue 8 1-2, Aug 2010.
***corresponding author**
3. **Mudgil Y**, Uhrig J, Zhou J, Temple B, Jones AM (2009) Arabidopsis N-MYC DOWN-REGULATED-LIKE1, a Novel Sugar Regulated Downstream Effector of G β -Mediated Auxin Transport in the Root. *Plant Cell*, 21: 3591-609.
4. Chen Z, Noir S, Kwaaitaal M, Hartmann HA, Wu MJ, **Mudgil Y**, Sukumar P, Muday G, Panstruga R, Jones AM (2009) Two Seven-transmembrane Domain MILDEW RESISTANCE LOCUS O Proteins Cofunction in Arabidopsis Root Thigmomorphogenesis. *Plant Cell*, 21: 1972-1991.
5. **Samuel MA***, **Mudgil Y***, Salt JN, Ramachandran S, Chilelli A, Goring DR (2008) Interactions between the S-Domain receptor kinases and AtPUB-ARM E3 ubiquitin ligases suggest a conserved signaling pathway in Arabidopsis. *Plant Physiology*. 147: 2084-95. *these authors contributed equally to this article
6. **Mudgil Y**, Shiu SH, Stone SL, Salt JN and Goring DR. (2004) Large Complement of the Predicted Arabidopsis ARM Repeat Proteins Are Members of the U-Box E3 Ubiquitin Ligase Family. *Plant Physiology* 134: 59-66.
7. **Mudgil Y**, B.N. Singh, Upadhyaya KC, Sopory SK and Reddy MK (2002) Cloning and characterization of a cell cycle-regulated gene encoding topoisomerase I from *Nicotiana tabacum* that is inducible by light, low temperature and abscisic acid. *Molecular Genetics and Genomics*. 267:380-90.
8. B.N. Singh, **Mudgil Y**, Sopory SK and Reddy MK (2003) Molecular characterization of a nuclear topoisomerase II from *Nicotiana tabacum* that functionally complements a temperature-sensitive topoisomerase II yeast mutant. *Plant Molecular Biology* 52: 1063-76.
9. Tuteja N, Reddy MK, **Mudgil Y**, Yadav BS, Chandok MR, Sopory SK (2003) Pea DNA topoisomerase I is phosphorylated and stimulated by casein kinase 2 and protein kinase C. *Plant Physiology* 132: 2108-15.

10. Reddy MK, Nair S, Singh BN, **Mudgil Y**, Tewari KK and Sopory SK. (2001) Cloning and Expression of a nuclear encoded plastid specific 33 kDa ribonucleoprotein gene (33 RNP) from pea that is light stimulated. **Gene** **263**: 179-187.
11. Reddy MK, Nair S, Tewari KK **Mudgil Y**, Yadav BS and Sopory SK. (1999) Cloning and characterization of a cDNA Encoding Topoisomerase II in Pea and analysis of its expression in relation to cell proliferation. **Plant Molecular Biology** **41**:125-137.
12. Jasrai YT, **Mudgil Y**, A.Remakantham and Kannan VR. (1999) Direct shoot regeneration from cultured leaves of *PASSIFLORA CAERULEA* L. and field performance of regenerated plants. **Phytomorphology** **49**:289-293.

Other publications (Edited works, Book reviews, Festschrift volumes, etc.)

13. **Mudgil Y**. (2010). Auxin Transport and Lateral Root Formation: Knowing the Process at the Root Level. *Current trends in Plant Biology*, 35-45, ed. Trivedi, P.C. and Sopory, S.K. Aavishkar Publishers, Jaipur.

Conference Organization/ Presentations (in the last three years)

Participation as Paper/Poster Presenter

Yashwanti Mudgil and Alan Jones (2011) ND1 Protein Regulation of Meristem Initiation and Shoot Branching. Annual Young Investigator Meeting (YIM) in Bhubaneswar, Orissa (INDIA). Poster.

Yashwanti Mudgil (2009) *Arabidopsis* N-MYC DOWN-REGULATED-LIKE1 (NDL1), a Positive Regulator of Auxin Transport in a G-Protein-mediated, Sugar-sensing Pathway. Invited presentation at Duke Plant Biology forum 2009, Duke University, North Carolina.

Research Projects (Major Grants/Research Collaboration)

PI in DBT funded project (2011-2014) "At ND1 Proteins: Molecular Mechanism of Regulation of Auxin Transport in Root Growth and Development".

PI in DST funded project (2012-2015) "Identification and molecular characterization of signaling components of At N-myc downregulated like proteins in root development"

Awards and Distinctions

Awarded Department of Biotechnology, Govt. of India, Cutting-edge Research Enhancement and Scientific Training award, DBT-CREST award 2011-2012.

Recipient of scholarship from Department of Biotechnology, Government of INDIA (1994-1996).

Recipient of Fellowship University grant commission, Government of INDIA

Junior Research Fellowship (1996-1998) and

Senior Research Fellowship (1998-2001).

Recipient of Dr Manasi Ram Memorial Award for best poster: "Cloning, Characterization and Expression of Topoisomerase I from tobacco" in XXIV All India Cell Biology Conference (2000).

Association With Professional Bodies

Memberships

Canadian Society of Plant Physiologist.

American society of Plant Biologist.

Other Activities

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.