




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Nupur	Last Name	Mondal	Photograph
Designation		Assistant Professor (Adhoc)				
Address		EG-85, 1 st Floor, Inderpuri New Delhi- 110012				
OfficePhone No.		-				
Residence		-				
Mobile		8750368799				
Email		nupur.mondal84@gmail.com				
Web-Page		-				
Educational Qualifications		Ph.D.				
Degree	University/Institute				Year	
Ph.D.	Jamia Hamdard				2014	
M.Phil./M.Tech.	-					
PG	University of Delhi				2007	
UG	University of Delhi				2005	
Any Other Qualification		-				
Career Profile						

**Research Associate in National Research Centre of Plant Biotechnology
Assistant Professor (ad hoc) in Miranda House**

Administrative Assignments

Areas of Interest/Specialisation

Plant Biotechnology & Plant Molecular Biology

Subjects Taught

Plant Biotechnology, Analytical Techniques in Plant Sciences, Bioinformatics, Intellectual Property Rights

Innovation Project/Research Projects (Major Grants/Research Collaboration)

SHC 306: Application of Biocontrol Agents and Herbal Oils on Wheat Crop Against Fungal Disease (*Fusarium*)

Publications Profile (Research Papers/Books)

1. **Mondal Nupur ***, K.V. Bhat and P.S. Srivastava (2010) Variation in fatty acid composition in Indian germplasm of sesame. *Journal of the American Oil Chemists' Society* **87**:1263-1269.
2. **Nupur Mondal**, K.V. Bhat, P.S. Srivastava and S.K.Sen (2015) Effect of domestication bottleneck and selection on fatty acid desaturases in Indian sesame germplasm. (Accepted; *Journal of Plant Genetic Resources*; doi:10.1017/S1479262115000106).
3. K.V. Bhat, R. Kurien, N. Pathak, R. Kumari, N. Bindhani, **N. Mondal** (2013). Whole genome sequencing of sesame by NBPGR. *NBPGR Newsletter* Vol 30:4.

Conference/Seminar/Faculty Development Programme/Workshop

1. **Nupur Mondal***, K. V. Bhat and P.S. Srivastava (2009) SNPs and INDELS in omega-3 fatty acid desaturase gene of Sesame for variation in alpha-linolenic acid content in germplasm. National Symposium on Recent Global Developments in the Management of Plant Genetic Resources, 17- 18 December 2009, NBPGR, New Delhi. *Abstract* No. C 138pp. 223 -224.
2. **Nupur Mondal***, K.V. Bhat, P.S. Srivastava (2011) Functional analysis of FAD3 gene reveals insight into its evolution amongst various *Sesamum* species. 15th ADNAT Convention, CCMB, Hyderabad. 23-25th February 2011, Abstract P48.
3. **Nupur Mondal*** and K.V. Bhat (2015) SNP markers to study functional polymorphism in fatty acid desaturases of Indian sesame germplasm. 6th World Congress on Biotechnology, 05-07 October 2015, New Delhi.
3. Neha Verma, Vibhuti Singh, Anand K. Pushkar, **Nupur Mondal**, K.V. Bhat, Suman Lakhnpaul (2009) Evaluation of variation in antioxidative potential of sesame (*Sesamum indicum* L.) cultivars and wild allies of the genus *Sesamum*. 6th Indo- Italian workshop on Chemistry and Biology of Antioxidants, 10-11 December 2009, DU, New Delhi. *Abstract* pp. 5.
4. Lima JM, Nath M, **Mondal N**, Kulkarni KP, Dokku P, Viswakarma C, Sahu S, Kumar P, Chinnusamy V, Robin S, Sarla N, Seshashayee M, Singh K, Singh AK, Mohapatra T, Sharma RP, AmithaMithra SV and Singh NK * (2013) Isolation and characterization of EMS induced mutants for chlorophyll biosynthesis process in upland rice variety Nagina22. International Symposium on rice functional genomics, 22-23 Nov, NIPGR.
5. Seema Talwar, **Nupur Mondal**, Gaurav Kumar, Himani, Vaishnavi, Sujata Bhardwaj (2016) Antifungal activity of some essential oils against *Fusarium graminearum*. The Innovation Conclave – 2016 (under the aegis of ANDC Rajatotsav celebrations), Acharya Narendra Dev College, University of Delhi, Delhi on 25th- 26th October.
6. Talwar S, **Mondal N**, Mathur P and Bhardwaj S (2016). "Clove Oil: as Biocontrol Agent" In: Proceedings of II International Conference on "Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health 2016)" organized by Krishi Sanskriti, Jawahar Lal Nehru University, Delhi on 21st May (ISBN: 978-93-85822-17-9).
7. **Nupur Mondal*** and Seema Talwar (2016) Climate change: Impact on food safety, nutrition and diseases; National Seminar on "Emerging Issues of Climate Change: Sustainability and Economic Implications" 21st -22nd October 2016.

Attended

Participated in National Seminar on Relevance of Botany in Conservation and Improvement of Plants, Department of Botany, University of Delhi; 8-9 February, 2006.

Organized

Organized and participated in ICAR conducted Winter School on Molecular Markers for Efficient Management and Enhancing Utilization of Plant Genetic Resources, NBPGR, New Delhi, India. 5-16 January 2010.

Organized National Seminar on Water and Air Quality in Urban Ecosystem, 22nd March 2016 on the occasion of World Water Day; Shivaji College, University of Delhi.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

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Awards and Distinctions

1. Awarded Junior & Senior Research Fellowship (JRF & SRF) for Ph.D studies being qualified in National Eligibility Test (NET) in Science conducted by the Council of Scientific and Industrial Research (CSIR) and University Grant Commission (UGC).
2. Awarded 3rd Prize in Paper Presentation in a competition organized by the Botanical Society, Hansraj College, New Delhi in 2002.
3. Awarded 3rd prize in Extempore in an inter college competition organized by the Botanical Society, Hansraj College, New Delhi in 2005.

Memberships

1. Member of online community Genome India International (<http://www.genome-india-intl.org>).
2. Member of Indian Society of Plant Genetic Resource (ISPGR).

Other Academic Activities

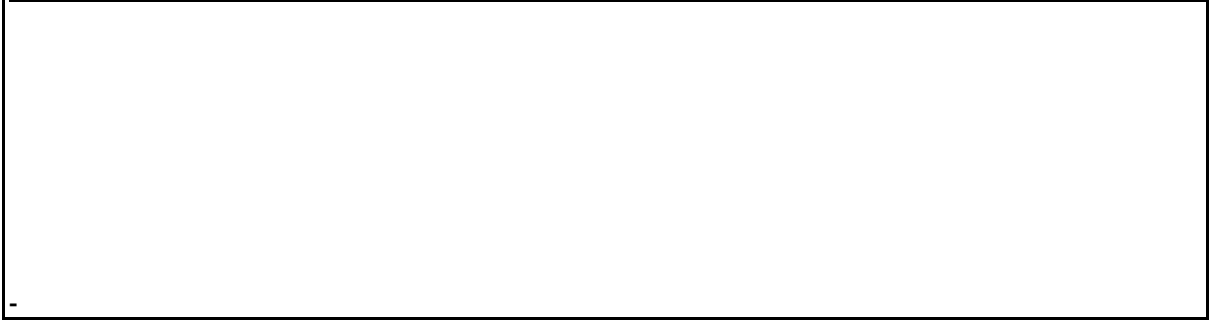
Sequences submitted in NCBI/ EMBL:

1. KF644447.1; Sesamum radiatum isolate 31 chloroplast omega-3 fatty acid desaturase (O3fad) mRNA, partial cds; nuclear gene for chloroplast product. K.V. Bhat and N. Mondal.
2. HG475429.1; Sesamum radiatum partial FAD2 gene for omega-6 fatty acid desaturase. N. Mondal
3. KF310529.1; Sesamum indicum var. malabaricum isolate IC253971 omega-6 fattyacid desaturase-like mRNA, partial sequence. K.V. Bhat and N. Mondal.
4. KF310528.1 Sesamum indicum var. malabaricum isolate IC253950 omega-6 fattyacid desaturase-like mRNA, partial sequence. K.V. Bhat and N. Mondal.
5. HG530254.1; Sesamum radiatum partial stearyl-acyl carrier protein desaturase gene. K.V. Bhat and N. Mondal.

E Publications

1. **NupurMondal*** and Gayacharan (2017) Environmental Biotechnology for Air Pollution Control. *Biotecharticles.com*. (<https://www.biotecharticles.com/Biotech-Research-Article/Environmental-Biotechnology-for-Air-Pollution-Control-4289.html>)
2. **NupurMondal*** and Gayacharan (2017) Single Nucleotide Polymorphism (SNP) Markers in Oilseeds. *Biotecharticles.com*. (<https://www.biotecharticles.com/Biotech-Research-Article/Single-Nucleotide-Polymorphism-SNP-Markers-in-Oilseeds-4288.html>)
3. **NupurMondal** and Gayacharan (2017) Role of Intellectual Property Rights in protecting Biological Databases. *Biotecharticles.com*. (<https://www.biotecharticles.com/Bioinformatics-Article/Role-of-Intellectual-Property-Rights-in-protecting-Biological-Databases-4279.html>)
4. Gayacharan and **NupurMondal**(2017) Application of RNA Interference (RNAi) in Crop Improvement. *Biotecharticles.com*. (<https://www.biotecharticles.com/Biotech-Research-Article/Application-of-RNA-Interference-RNAi-in-Crop-Improvement-4286.html>)
5. Gayacharan and **NupurMondal**(2017) Role of Epigenetic Diversity in Crop Improvement. *Biotecharticles.com*. (<https://www.biotecharticles.com/Biotech-Research-Article/Role-of-Epigenetic-Diversity-in-Crop-Improvement-4281.html>)

Cultural/ Extracurricular Activities



Nafise Mondal

Signature of Faculty Member