



UNIVERSITY OF CALCUTTA

Full name of the Faculty member : Dr. Arunava Mandal
Designation : Assistant Professor
Specialization : Plant Molecular Biology
and Biotechnology
Contact Information :



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Academic Qualifications :

College / University from which degree obtained	Degree	Year
University of Calcutta	B.Sc	2007
University of Calcutta and Bose Institute	M.Sc	2009
University of Calcutta and Bose Institute	Ph.D	2016
National Institute of Plant Genome Research, New Delhi	Postdoc	2018

Position held/ holding :

- Assistant Professor, Department of Biotechnology, Maulana Abul kalam Azad University of Technology, W.B, July 2018 to November 2019
- Assistant Professor, Department of Genetics, University of Calcutta, W.B, November 2019 to present.

Research Interest :

- Plant stress biology
- Identification and characterization of novel ubiquitin ligase genes during stress in plants.

Research Guidance :

- Number of researchers pursuing Ph.D : **Two**

PG Dissertation Guided :

Name of the student	Affiliation	Year	Course	Title of the Thesis
Hena Gain	MAKAUT	2019	M.Tech	Establishment of Tomato

			Biotechnology	Leaf Curl Virus infection procedure and monitoring of leaf curl disease progression in laboratory condition
Anusmita Bayen	Serampore college	2019	M.Sc Zoology	Amplification of <i>S/WRKY16</i> transcription factor from cDNA of tomato leaf curl virus infected plants
Poulami Chowdhury	Serampore college	2019	M.Sc Zoology	Amplification of TRN1 gene from leaf curl virus infected genomic DNA
Soumyadeepa Kundu	Serampore college	2019	M.Sc Zoology	Amplification and cloning of <i>S/ARM18</i> (E3 ligase) from cDNA of tomato leaf curl virus infected plants

Research Project : one

Project Details	Funding Agency	Sanctioned Amount	Duration
Mechanism of regulation of tomato PUB22 gene, a E3 ligase during tomato leaf curl virus infection.	SERB-SRG	29,34,800/-	2 years

Honors & Awards :

- BEST POSTER AWARD in National Symposium on Environmental Impact on Biodiversity and plant Development 2015 , Presidency University, Kolkata, India
- BEST POSTER AWARD in Plant Science section of 100th Session of Indian science congress, 2013 Kolkata
- TRAVEL GRANT AWARD by American Society of Virology, Pennsylvania State University, USA, 2013 for attending 32nd Annual Meeting of American Society of Virology.
- DOCTORAL STUDENT TRAVEL GRANT by Department of Biotechnology, Government of India, 2013 for attending 32nd Annual Meeting of American Society of Virology, USA.

Publications :

1. **ArunavaMandal**, Deepti Sarkar, Surekha kundu, Pallob Kundu, “Mechanism of regulation of tomato TRN1 gene in late infection with tomato leaf curl New Delhi virus (ToLCNDV),” *Plant Science* 2015 Dec;**241:221-37**.doi: 10.1016/j.plantsci.2015.10.008
2. Abhishek Pal, Santanu Maitra, **Arunava Mandal**, Mimi Biswas and Pranab Kr Banerjee^{1,2*} “Studies on Mid Gut Microbiota of Wild Caught Aedes (Aedesalbopictus) Mosquitoes from Diamond Harbour (South 24 Parganas) Areas of West Bengal, India” *International Journal of Current Microbiology and Applied Sciences* ISSN: 2319-7706 Volume 4 Number 12 (2015) pp. 591-599
3. Payel Bhattacharjee, Rohit Das, **Arunava Mandal** and Pallob Kundu “Functional characterization of tomato membrane-bound NAC transcription factors” *Plant Molecular Biology* 2017 Mar;**93(4-5):511-532**. doi: 10.1007/s11103-016-0579-z
4. **Arunava Mandal**, Mishra AK, Dulani P, Muthamilarasan M, Shweta S, Manoj Prasad * (2017) Identification, characterization, expression profiling, and virus-induced gene silencing of armadillo repeat-containing proteins in tomato suggest their involvement in Tomato leaf curl New Delhi virus resistance. *Functional & Integrative Genomics* 2018 Mar;**18(2):101-111**. doi: 10.1007/s10142-017-0578-4.
5. **Arunava Mandal**, Namisha Sharma, Manoj Prasad “Ubiquitination: A tool for plant adaptation to changing environments”*The Nucleus*, 2018, Volume 61, pp 253–260, doi.org/10.1007/s13237-018-0255-6

Membership of Learned Societies :

- Life member of Indian science congress association
- Member of American society of virology

Other Notable Activities :

- Reviewer of PLOS ONE
- Reviewer of BMC Plant Biology
- Reviewer of Plant Cell Reports
- Reviewer of The Nucleus
- Reviewer of Plant Cell Tissue and Organ Culture (PCTOC)