

Brief Curriculum Vitae



Name : Dr. Tanmoy Sarkar
Designation : Scientist-C
Qualification : Ph. D. (Biotechnology)

Subject Specialization : Plant Biotechnology
Areas of Research : Genetic transformation in mulberry, Plant tissue culture, Mulberry Breeding, Molecular Breeding

Date of birth : 07-08-1980
Sex : Male

Present Address : Mulberry Breeding and Genetics Laboratory, Central Sericultural Research & Training Institute (CSR&TI), Manandavadi Road, Srirampura, Mysuru-570 008 Karnataka, India

e-mail address : tanmoy.dgr@gmail.com, tanmoy.csb@nic.in
Contact No. (O): 0821-2362879 Extn. 276,
(Fax): 0821-2362845
(M): 0-9601985252

Academic Qualification

Ph. D. thesis title: Development of transgenic resistance to abiotic stress in groundnut using *AtDREB1A* gene through *Agrobacterium* mediated genetic transformation

Degree	University/College	Subject	Year of Passing
B.Sc	Bangalore University, Bengaluru	Biotechnology, Chemistry, Botany	2003
M.Sc	Bangalore University, Bengaluru	Biotechnology	2005
Ph.D.	Saurashtra University, Rajkot, Gujarat	Biotechnology	2015

Research/Academic Experience

Position	Organization	Duration	Responsibility
Scientist-C	CSR&TI (CSB), Mysuru, Karnataka	01.07.2019 to till date	
Scientist-B	CSR&TI (CSB), Mysuru, Karnataka	10.11.2015 to 30.06.2019	Research
SRF	ICAR-DGR, Junagadh, Gujarat	11.12.2009 to 31.10.2015	
JRF	CSIR-CSMCRI, Bhavnagar, Gujarat	02.02.2009 to 04.12.2009	
JRF	CSIR-NEIST, Jorhat, Assam	05.06.2007 to 27.01.2009	
Lecturer	Brindavan College, Bangalore	05.01.2006 to 31.05.2007	Teaching

On-going research projects being pursued

Title	Duration	Collaborating Institute
Engineering photosynthesis in mulberry for resilience to climate change: A C4 approach	Aug. 2017 – Jul. 2021	Department of Plant Sciences, School of Life Sciences, University of Hyderabad Hyderabad
Primary yield evaluation for identification of superior mulberry hybrids with drought adaptive traits under sub-optimal irrigated conditions	Mar. 2018 – Feb. 2022	-
Genetic enhancement of mulberry by genomics approach: a multi-component project Sub-component Development of new generation transgenic mulberry for drought stress tolerance and characterization of existing transgenic mulberry for confined field trials	Sep. 2018 – Aug. 2021	Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bengaluru

List of Most Important Recent Five Publications

- Sarkar T**, Thankappan R, Mishra GP, Nawade BD (2019). Advances in the development and use of DREB for improved abiotic stress tolerance in transgenic crop plants. **Physiology and Molecular Biology of Plants** 25: 1323–1334. <https://doi.org/10.1007/s12298-019-00711-2>. **Impact Factor: 1.539**
- Bhalani H, Thankappan R, Mishra GP, **Sarkar T**, Bosamia TC, Dobarra JR (2019) Regulation of antioxidant mechanisms by *AtDREB1A* improves soil-moisture deficit stress tolerance in transgenic peanut (*Arachishypogaea* L.). **PLoS ONE** 14(5): e0216706. <https://doi.org/10.1371/journal.pone.0216706>. **Impact Factor: 2.776**
- Sarkar T**, Mogili T, Sivaprasad V (2017). Improvement of abiotic stress adaptive traits in mulberry (*Morus spp.*): an update on biotechnological interventions. **3 Biotech** 7: 214. doi 10.1007/s13205-017-0829-z. **Impact Factor 1.786**
- Sarkar T**, Radhakrishnan T, Kumar A, Mishra GP, Dobarra JR (2016). Stress inducible expression of *AtDREB1A* transcription factor in transgenic peanut (*Arachishypogaea*L.) crop conferred tolerance to soil-moisture deficit stress. **Frontiers in Plant Science** 7:935. doi:10.3389/fpls.2016.00935, **Impact Factor 4.106**
- Sarkar T**, Radhakrishnan T, Kumar A, Mishra GP, Dobarra JR (2014). Heterologous expression of *AtDREB1A* gene in transgenic peanut conferred tolerance to drought and salinity stresses **PLoS ONE** 9(12): e110507. doi:10.1371/journal.pone.0110507. **Impact Factor: 2.776**

Awards/Prizes/Certificates Received

- Qualified CSIR-NET in LifeSciences
- Qualified ASRB-ICAR-NET in Agri. Biotechnology(Twice)
- Qualified ICAR-Senior Research Fellowship (PGS)for pursuing Ph.D. (Agri. Biotechnology)
- Received certificate for outstanding contribution in reviewing research articles by the International journal “Gene” (Elsevier)
- Selected for financial assistance from SERB, Govt. of India, for attending international conference under International Travel Scheme
- Best Oral Presentation award at “International Conference on Environmental,

Agricultural, Chemical and Biological Sciences” held at Hotel Anandha Inn, Puducherry for the research paper “Optimization of medium for selection of transformed shoots regenerated from cotyledons and hypocotyls of G4 mulberry”

Research Publications and Trainings

Publications	Numbers
Research Papers	06
Research and Review Abstracts	10
Popular Articles	05
Conferences/Seminars /Symposiums	06
Book Chapters	03
Review Papers	02
Trainings/Workshops	10

Guided M. Sc. students for dissertations/need-based-trainings

Guided eleven M.Sc. students

Reviewer of the International Journal

Elsevier- Gene; **Springer-** Euphytica, Trees, J Plant Growth Regul, J Plant Biochem Biotechnol;
Nature-Scientific Report

Membership of Scientific Societies

-
1. The Indian Science Congress Association, 14, Dr. Biresh Guha Street, Kolkata-700017
 2. Society of Biological Chemists (India), Bangalore- 560012, India
 3. Society for Plant Biochemistry and Biotechnology, National Research Centre on Plant Biotechnology, LBS Centre, Pusa Campus, New Delhi, New Delhi 110012

Relevant Information

Total impact factor: **22.89**, h-index: **6**, i-10 index: **6**, and Total number of citations: **207**

Place: Mysuru
Date:

Signature

(Dr. Tanmoy Sarkar)