

RESUME

NAME: Dr. Saikat Gantait

DESIGNATION: Assistant Professor

CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

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5. GOOGLE SCHOLAR: https://scholar.google.com/citations?hl=en&user=gPp1__8AAAAJ



6. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph.D. in Biotechnology	B.C.K.V.	2010
MASTER'S	M.Sc. (Agri.) Genetics	B.C.K.V.	2004
BACHELOR'S	B.Sc. Agriculture (Hons.)	Visva Bharati	2002

7. EMPLOYMENT HISTORY:

POSITION	ORGANIZATION	PERIOD	
		From	To
Assistant Professor	BCKV	Nov. 2015	Cont.
Subject Matter Specialist	Sasya Shyamala KVK	May 2014	Nov. 2015
Research Officer	National Tea Res. Foundation	Jul 2013	May 2014
Post-Doctoral Researcher	Universiti Putra Malaysia	Apr 2011	Jul 2013
Research Associate	WB State Council of Sci. & Tech.	Sept 2010	Apr 2011

8. AREAS OF RESEARCH:

- Plant Cell, Tissue and Organ Culture
- Synthetic Seeds for Storage and Exchange of Germplasms
- Mutagenesis for Enhancement of Quality Traits
- Polyploidization for Improvement of Commercial Traits

9. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	GPB156	Fundamentals of Genetic	(2+1)
	GPB105(H)	Principles of Genetic and Plant Breeding	(2+1)
POST GRADUATE	GPB501	Principles of Genetics	(2+1)
	CC502	Laboratory Tools and Techniques	(0+1)
	GPB506	Molecular Breeding and Bioinformatics	(2+1)
Ph.D.	GPB 604	Plant Genetic Resources, Conservation and Utilization	(2+0)

10. NUMBER OF STUDENTS SUPERVISED:

Master's: **08**; Doctoral: **03**

11. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	<i>In vitro</i> mutagenesis of <i>Stevia</i> for enhanced production of steviol glycosides	DAE-BRNS, Govt. of India	ONGOING	PI
2	Induction of <i>in vitro</i> polyploidisation and mass propagation of gerbera for improved commercial traits, along with their routine demonstration	Dept. of Sci. & Tech. and Biotech., GoWB	COMPLETED	PI

12. HONOURS/ AWARDS/ RECOGNITION:

- **Senior Scientist of the Year:** bestowed by Cooch Behar Association of Cultivation of Agricultural Sciences at UBKV, Cooch Behar, India (2024)
- **Silver medal:** Research work presentation at Exhibition of Research and Innovation (PRPI), Putra Science Park, UPM, Malaysia (2012)
- **Best Poster:** Research paper presentation at International Symposium on System Intensification Towards Food and Livelihood Security at BCKV, India (2011)
- **Best Poster:** Research paper presentation at National Symposium on Physiological and Biotechnological Approaches to Improve Plant Productivity at CCSHAU, India (2008)

13. PUBLICATIONS

A. BOOKS

1. **Gantait S**, Majumder J, Sharangi AB (2024) *Biotechnology of Medicinal Plants with Antiallergy Properties: Research Trends and Prospects*, **Springer Nature**, Singapore [ISBN 978-981-97-1466-7]
2. Manohar A, Shukla G, **Gantait S**, Das AP, Chakravarty S (2024) *Propagation to Pharmacopeia: Modern Approaches in Medicinal Plants*, CRC Press, Taylor & Francis, USA [ISBN 978-1032729992]
3. **Gantait S**, Verma SK, Sharangi AB (2021) *Biotechnology of Anti-diabetic Medicinal Plants*, **Springer Nature**, Singapore [ISBN 978-981-16-3529-8]

B. RESEARCH PAPERS (best 10 in past 5 years)

1. Bandyopadhyay S, Subrahmanyeswari T, Mallick J, Dey S, Bhattacharyya S, **Gantait S** (2025) Mono-phasic protocol for micropropagation of potato cv. Cooch Behar local, its acclimatization, on-field evaluation, and fidelity analysis. *3 Biotech* 15: 50 (**NAAS 8.6**)
2. Subrahmanyeswari T, **Gantait S**, Sarkar R, Kamble SN, Singh S, Bhattacharyya S (2024) Polyamines- and growth inducers-mediated enhanced mono-phasic *in vitro* regeneration of sugar leaf plant (*Stevia rebaudiana* Bert.) in liquid medium. *South African Journal of Botany* 173: 34–45 (**NAAS 8.7**)
3. Subrahmanyeswari T, **Gantait S**, Kamble SN, Singh S, Bhattacharyya S (2024) Identification and characterization of stevia (*Stevia rebaudiana* Bert.) lines with enhanced steviol glycosides derived from gamma ray-induced *in vitro* mutagenesis. *Plant Cell Tissue and Organ Culture* 159: 34 (**NAAS 8.3**)
4. Laha S, Subrahmanyeswari T, Kamble SN, Singh S, Bhattacharyya S, **Gantait S** (2023) Biogenic synthesis, characterization and application of silver nanoparticles as biostimulator for growth and rebaudioside-A production in genetically stable stevia (*Stevia rebaudiana* Bert.) under *in vitro* conditions. *Industrial Crops and Products* 197: 116520 (**NAAS 11.9**)

5. Char M, Subrahmanyeswari T, Bhattacharyya S, **Gantait S** (2023) *meta*-Topolin-induced in vitro propagation, field evaluation, flow cytometry and molecular marker-based genetic stability assessment of potato cv. Badami alu. *Plant Cell Tissue and Organ Culture* 155: 485–493 (**NAAS 8.3**)
6. Subrahmanyeswari T, **Gantait S**, Kamble SN, Singh S, Bhattacharyya S (2023) Radio-sensitivity assessment of *in vitro* tissues of stevia (*Stevia rebaudiana* Bert.) for induced mutagenesis. *Sugar Tech* 25: 1520-1530 (**NAAS 7.9**)
7. Subrahmanyeswari T, **Gantait S**, Kamble SN, Singh S, Bhattacharyya S (2023) *meta*-Topolin-induced regeneration and ameliorated rebaudioside-A production in genetically uniform candy-leaf plantlets (*Stevia rebaudiana* Bert.). *South African Journal of Botany* 159: 405–418 (**NAAS 8.7**)
8. Mahanta M, **Gantait S**, Sarkar S, Sadhukhan R, Bhattacharyya S (2023) Colchicine-mediated in vitro autopolyploidization in gerbera hybrid. *3 Biotech* 13: 74 (**NAAS 8.6**)
9. Mahanta M, **Gantait S**, Mukherjee E, Bhattacharyya S (2023) *meta*-Topolin-induced mass propagation, acclimatization and cyto-genetic fidelity assessment of gerbera (*Gerbera jamesonii* Bolus ex Hooker f.). *South African Journal of Botany* 153: 236–245 (**NAAS 8.7**)
10. Suranthran P, **Gantait S**, Sinniah UR (2023) Water content significantly influences post-cryopreservation survival of air-desiccated oil palm (*Elaeis guineensis* Jacq.) zygotic embryos: A thermal and ultrastructural study. *Industrial Crops and Products* 204: 117343 (**NAAS 11.9**)

 19th May'25
(Dr. Saikat Gantait)