

Curriculum vitae



1. Name and full correspondence address : **Dr. Gaurab Gangopadhyay**
Present affiliation:
Professor
School of Biological Sciences
RKMVERI
Narendrapur Campus
Kolkata - 700103

Former Professor
Department of Biological Sciences
Bose Institute
EN 80, Sector V, Salt Lake
Kolkata – 700091

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8902781646
3. Institution : RKMVERI, Narendrapur Campus
4. Date of Birth : 24.07.1966
5. Gender : M
6. Category : Gen
7. Whether differently abled : No

8. Academic Qualification (Undergraduate Onwards)

Degree	Year	Subject	University/Institution	% of marks
B.Sc.	1986	Botany (Hons.)	Presidency College/ University of Calcutta	61.3
M.Sc.	1988 (result in 1989)	Botany	University of Calcutta	63.6
Ph.D.	1997	Science (Botany)	University of Calcutta	-

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award:

In vitro studies on salt and water stresses in *Nicotiana tabacum* L. var. Jayasri and *Brassica juncea* (L) Czern. Var. 85-59

Late Professor Sukumar Gupta

Bose Institute, degree under University of Calcutta

Date of submission: 15.12.1995, Date of award: 20.09.1997

10. Work experience (in chronological order):

Sl. No.	Positions held	Name of the Institute	From	To
1	Provisional Research Associate CSIR Project	Bose Institute	1996	1997
2	Research Associate DBT Project	University of Calcutta	1997	1998
3	Research Associate CSIR (Adhoc)	Bose Institute	1999	2003
4	Post-Doctoral Fellow	Bose Institute	2004	2006
5	Research Associate DBT Project	Bose Institute	2006	2008
6	Assistant Professor	Bose Institute	23.06.2008	22.06.2012
7	Associate Professor	Bose Institute	23.06.2012	31.12.2018
8	Professor Pay-Level 13A	Bose Institute	01.01.2019	21.10.2024
9	Professor Pay-Level 14	Bose Institute	22.10.2024	31.07.2026
10	Professor	RKMVERI	03.08.2026	continuing

12. Publications: **Total 93** as on 26.08.2026

(Research Articles 72, protocol Book chapter 1, Review 13, Conference proceedings 7)

The list of significant publications for the last five years (with Impact Factors):

- 1) Chakraborty A, Ghosh A, **Gangopadhyay G (2026)** Exploring the sesame phyto-microbiome for developing sustainable biocontrol strategies against *Macrophomina phaseolina*. **J Plant Pathology** (Published online on 25.08.2026. <https://doi.org/10.1007/s42161-026-02278-w>) **Impact Factor – 2.1 (2025)**
- 2) Najar MA, **Gangopadhyay G (2026)** Expression landscape, evolutionary insights, and duplication patterns of Cinnamyl Alcohol Dehydrogenase genes under *Macrophomina phaseolina* infection and salt stress in sesame. **J Plant Growth Regulation** (Published online on 28.07.2026. <https://doi.org/10.1007/s00344-026-12360-3>) **Impact Factor – 4.2 (2025)**
- 3) Sepay Nadir, Chakraborty A, Sepay Nayim, Paul S, **Gangopadhyay G, Bera S (2026)** Modelling the structure of Lsi2, Lsi3, Lsi6 proteins and their role in the intercellular trafficking of silicon from root to shoot in rice. **Journal of Biomolecular Structure and Dynamics** (Published online on 16.04.2026. <https://doi.org/10.1080/07391102.2026.2653797>) **Impact Factor – 2.5 (2025)**
- 4) Sikdar B, Paul D, Banik SK, Ghosh Dastidar S, **Gangopadhyay G (2026)** An integrated *in-vitro*, transcriptomic, and *in-silico* approach to understand the molecular mechanism of quorum-sensing inhibition by Epigallocatechin-3-gallate (EGCG) in *Chromobacterium violaceum*. **World Journal of Microbiology and Biotechnology** (Published online on 23.01.2026. <https://doi.org/10.1007/s11274-025-04715-x>) **Impact Factor – 4.7 (2025)**
- 5) Pal S, **Gangopadhyay G (2025)** Overexpression of AcSERK3 confers *Fusarium*-tolerance to transgenic pineapple. **In Vitro Cellular & Developmental Biology - Plant** (Published online on 20.05.2025. <https://doi.org/10.1007/s11627-025-10533-5>) **Impact Factor – 2.2 (2025)**
- 6) Sikdar B, Mukherjee S, Bhattacharya R, Raj A, Roy A, Banerjee D, **Gangopadhyay G, Roy S (2024)** The anti-quorum sensing and biofilm inhibitory potential of *Piper betle* L. leaf extract and prediction of the roles of the potent phytocompounds. **Microbial Pathogenesis** 195:106864 (Published online on 15.08.2024. <https://doi.org/10.1016/j.micpath.2024.106864>) **Impact Factor – 3.9 (2026)**
- 7) Najar MA, **Gangopadhyay G (2024)** Identification and validation of defense related candidate genes in *Sesamum* under artificial inoculation of *Macrophomina phaseolina*. **Nucleus** (Published online on 20.04.2024. <https://doi.org/10.1007/s13237-024-00490-6>) **Impact Factor – 2.1 (2023)**

- 8) Banerjee S, **Gangopadhyay G (2024)** Untargeted metabolomics reveals altered pathways in *Phytoplasma*-infected sesame plants. **Plant Molecular Biology Reporter** (Published online on 04.03.2024. <https://doi.org/10.1007/s11105-024-01440-x>) **Impact Factor – 2.0 (2025)**
- 9) Awon VK, Dutta D, Banerjee S, Pal S, **Gangopadhyay G (2024)** Integrated metabolomics and transcriptomics analysis highlight key pathways involved in the somatic embryogenesis of Darjeeling tea. **BMC Genomics** 25:207 (Published online on 23.02.2024. <https://doi.org/10.1186/s12864-024-10119-2>) **Impact Factor – 3.9 (2025)**
- 10) Dutta D, Harper A, **Gangopadhyay G (2022)** Transcriptomic analysis of high oil-yielding cultivated white sesame and low oil-yielding wild black sesame seeds reveal differentially expressed genes for oil and seed coat colour. **Nucleus** (Published online on 04.05.2022. <https://doi.org/10.1007/s13237-022-00389-0>) **Impact Factor – 2.1 (2023)**
- 11) Dutta D, Banerjee S, Pal M, **Gangopadhyay G (2022)** Validation of determinate (*dt*) gene-based DNA marker in inter-specific hybrid sesame and *in-silico* analysis of the predicted *dt* protein structures. **Physiology and Molecular Biology of Plants** (Published online on 31.01.2022. <https://doi.org/10.1007/s12298-022-01135-1>) **Impact Factor – 3.6 (2025)**
- 12) Datta D, Prasad R, **Gangopadhyay G (2022)** Inter-specific hybrid sesame with high lignan content in oil reveals increased expression of *sesamin synthase* gene. **Nucleus** 65:7–18 (Published online 19.05.2021. <https://doi.org/10.1007/s13237-021-00354-3>) **Impact Factor – 2.1 (2023)**

14. Submissions to GenBank, NCBI database: **Total 89** as on 26.08.2026

15. Submission of germplasm in National Repository:

The germplasm of sesame (INGR22090) developed by Dr. Gaurab Gangopadhyay and his students has been registered by the plant Germplasm Registration Committee (PGRC) of ICAR on 08.07.2022.

16. Completed funded project: 1

Project entitled “Development of transgenic pineapple over-expressing *AcSERK* to combat fungal pathogens” funded by Department of Biotechnology, Govt of West Bengal (Memo No. 43(Sanc) – BT/ST/P/S&T/2G-32/2017 dtd 16.02.2018)

17. Teaching:

Presently:

Post graduation courses of RKMVERI, Narendrapur

Coursework of PhD students of RKMVERI, Narendrapur

Previously:
Integrated MSc-PhD (Life Sciences) of Bose Institute
Coursework of PhD students of Bose Institute

18. PhD thesis supervised: Ten

- 1) Dr. Ranjana Prasad - Ph.D. degree awarded on 25.10.2016 (Department of Botany, CU), presently working as an Assistant Professor, College of Agriculture, Tripura
- 2) Dr. Vivek Arora - Ph.D. degree awarded on 09.07.2018 (Department of Genetics, CU), presently working in industrial R&D
- 3) Dr. Marufa Sultana – Ph.D. degree awarded on 28.08.2018 (Department of Botany, CU), presently working as an Assistant Professor, Charuchandra College, Kolkata, WB
- 4) Dr. Sananda Bhattacharya - Ph.D. degree awarded on 13.01.2021 (Department of Biochemistry, CU), presently working as an Assistant Professor, City of Oxford College, Oxford, UK
- 5) Dr. Shinjini Sengupta - Ph.D. degree awarded on 25.04.2022 (Department of Biochemistry, CU), presently working as a teacher in WB School Services
- 6) Dr. Debabrata Dutta - Ph.D. degree awarded on 29.07.2022 (Department of Botany, CU), presently availing a Swiss Govt Post Doctoral Fellowship at Switzerland
- 7) Dr. Soumili Pal - Ph.D. degree awarded on 04.06.2024 (Department of Botany, CU)
- 8) Dr. Diptasree Kumar - Ph.D. degree awarded on 14.06.2024 (Department of Botany, CU)
- 9) Dr. Mushtaq Ahmad Najar - Ph.D. degree awarded on 20.05.2026 (Department of Botany, CU)
- 10) Dr. Saptadipa Banerjee - Ph.D. degree awarded on 24.06.2026 (Department of Botany, CU)

19. Post-doctoral students trained: Two

20. M.Sc. projects supervised (Integrated M.Sc. of Bose Institute): Seven

21. M.Sc. projects supervised (interns from outside organizations): Seven