**Curriculum vitae**



1. Name and full correspondence address : **Dr. Gaurab Gangopadhyay**

 Professor

 Division of Plant Biology

 Bose Institute (Main Campus)

 93/1 APC Road

 Kolkata – 700009

2. Email(s) and contact number(s) : gaurab@jcbose.ac.in

 gaurabgangopadhyay@gmail.com

 9103323031124 (Office)

 918902781646 (Cell)

3. Institution : Bose Institute, Kolkata

4. Date of Birth : 24.07.1966

5. Gender (M/F/T) : M

6. Category Gen/SC/ST/OBC : Gen

7. Whether differently abled (Yes/No) : No

8. Academic Qualification (Undergraduate Onwards)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Degree  | Year  | Subject  | University/Institution  | % of marks  |
| 1. B.Sc. | 1986 | Botany (Hons.) | Presidency College/ University of Calcutta | 61.3 |
| 2. M.Sc. | 1988 (result in 1989) | Botany | University of Calcutta | 63.6 |
| 3. 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

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):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No.  | Positions held  | Name of the Institute  | From  | To  | Pay Scale  |
| 1 | Assistant Professor | Bose Institute | 23.06.2008 | 22.06.2012 | Rs. 15,600-39,100 GP Rs. 7,600/- |
| 2 | Associate Professor | Bose Institute | 23.06.2012 | 31.12.2018 | Rs. 37,400-67,000 GP Rs. 8,700/- |
| 3 | Professor | Bose Institute | 01.01.2019 | Till date | Matrix pay – Level 13A Rs. 1,47,600/- |

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant:

|  |  |  |  |
| --- | --- | --- | --- |
| S.No  | Name of Award  | Awarding Agency  | Year  |
| 1 | Research Associateship (Ad hoc) | CSIR | 1999 |

 12. Publications: **Total 77** as on 24.01.2021

 **The list of significant publications for the last ten years:**

1. Datta D, Awon VK and Gangopadhyay G (2021) Amino acid substitution in the conserved motifs of a hypothetical R-protein in sesame imparts a significant effect on ADP binding position and hydrogen bond interaction. Physiological and Molecular Plant Pathology 113: 101588 (<https://doi.org/10.1016/j.pmpp.2020.101588>)
2. Datta D, Awon VK and Gangopadhyay G (2020) Transcriptomic dataset of cultivated (Sesamum indicum), wild (S. mulayanum ), and inter-specific hybrid sesame in response to induced Macrophomina phaseolina infection. Data in Brief 33: 106448 (<https://doi.org/10.1016/j.dib.2020.106448>)
3. Sultana M and Gangopadhyay G (2020) *In silico* structural analysis and ligand-binding predictions of a few developmental stage-specific proteins during *in vitro* morphogenesis in *Vanilla*. Vegetos 33:570-579 (<https://doi.org/10.1007/s42535-020-00140-7>) Published online 15.07.2020

1. Bhattacharya S, Sengupta S, Karmakar A, Sarkar SN, **Gangopadhyay G**, Datta K and Datta SK **2019**. Genetically engineered rice with *appA* gene enhanced phosphorus and minerals. Journal of Plant Biochemistry and Biotechnology (<https://doi.org/10.1007/s13562-019-00505-3>) **(Impact Factor – 0.774)**789
2. Laha S, Kumar D, Sengupta DN and **Gangopadhyay G** **2019**. *In silico* characterization of *SAMdC* from Pokkali rice and its over-expression in transgenic tobacco. **Vegetos** (Springer) (<https://doi.org/10.1007/s42535-019-00019-2>)
3. Bose. S., **Gangopadhyay, G.** and Sikdar, S.R. **2019**. *Rorippa indica* *HSPRO2* expression in transgenic *Brassica juncea* induces tolerance against mustard aphid *Lipaphis erysimi*. **Plant Cell Tissue and Organ Culture** 136: 431 – 443 (online version <https://doi.org/10.1007/s11240-018-1524-4>) **(Impact Factor – 2.004)**
4. Bose. S., **Gangopadhyay, G.** and Sikdar, S.R. **2018**. RiHSPRO2, a nematode resistance protein-like homolog from a wild crucifer *Rorippa indica* (L.) Hiern, is a promising candidate to control mustard aphid *Lipaphis erysimi*. **Arthropod-Plant Interactions** 12:701–714 (online version <https://doi.org/10.1007/s11829-018-9615-z>) **(Impact Factor – 1.591)**
5. Sultana, M. and **Gangopadhyay, G. 2018**. Early expression of WUSCHEL is a marker for *in vitro* shoot morphogenesis in tobacco and *Beta palonga*. **Plant Cell Tissue and Organ Culture** 134: 277 – 288 (online version <https://doi.org/10.1007/s11240-018-1421-x>) **(Impact Factor – 2.004)**
6. Arora, V., Ghosh, M.K., Singh, P. and **Gangopadhyay, G. 2018**. Light regulation of nitrate reductase gene expression and enzyme activity in the leaves of mulberry. **Indian Journal of Biochemistry and Biophysics** 55: 62-66.

**(Impact Factor – 0.579)**

1. Debnath, A.J., **Gangopadhyay, G**., Basu, D. and Sikdar, S.R. **2018**. An efficient protocol for *in vitro* organogenesis of *Sesamum indicum* L. using cotyledon as explants. **3 Biotech** 8:146 ( <https://doi.org/10.1007/s13205-018-1173-7> ) **(Impact Factor – 1.361)**
2. Arora, V., Ghosh, M.K., Pal, S. and **Gangopadhyay, G**. **2017**. Allele specific CAPS marker development and characterization of chalcone synthase gene in Indian mulberry (*Morus* spp., family Moraceae). **PLOS ONE** June 22, 2017 <https://doi.org/10.1371/journal.pone.0179189> **(Impact Factor – 2.806)**
3. Arora, V., Sultana, M., Kumar, V. and **Gangopadhyay**, **G**. **2017**. Isolation and characterization of BADH2 gene from *in vitro* propagated *Pandanus amaryllifolius* Roxb. Plant Cell Tissue and Organ Culture (online version DOI 10.1007/s11240-017-1209-4). **(Impact Factor – 2.004)**
4. Prasad, R. and Gangopadhyay, G. 2014. Selection of prospective parents among Indian and exotic Sesame (Sesamum indicum L.) for Marker Assisted Breeding. Indian Journal of Genetics and Plant Breeding 74(2): 197-204.
5. Prasad, R., Mukherjee, K.K. and Gangopadhyay, G. 2013. Image analysis based on seed phenomics in Sesame. Plant Breeding and Seed Science 68: 119-136. (DOI: 10.2478/v10129-011-0085-z)
6. Roy, S.K., Gangopadhyay, G. and Mukherjee, K.K. 2010. Is stem twinning form of *Basella alba* L. a naturally occurring variant? Current Science 98 (10): 1370 -1375.

 **(Impact Factor – 0.883)**

1. Gangopadhyay, G., Roy, S.K., Basu Gangopadhyay, S. and Mukherjee, K.K. 2009. *Agrobacterium*-mediated genetic transformation of pineapple var. Queen using a novel encapsulation-based antibiotic selection technique. Plant Cell Tissue and Organ Culture 97: 295-302 (Online version DOI 10.1007/s11240-009-9528-8).

**(Impact Factor – 2.004)**

13. Detail of patents.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.No  | Patent Title  | Name of Applicant(s)  | Patent No.  | Award Date  | Agency/Country  | Status  |
| 1 | Downstream processing in micropropagation | Gangopadhyay, G. et al. | 770/Cal/99 dtd. 09.09.99 |  | India |  |

14. Submissions to GenBank, NCBI database: Total 89 as on 24.01.2021

15. Present 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)

16. Reviewer of the following Journals (Last five years):

1. African Journal of Agricultural Research (January 2014)
2. Indian Journal of Biotechnology (March 2014)
3. American Journal of Experimental Agriculture (August 2014)
4. Indian Journal of Biotechnology (November 2014)
5. Journal of Medicinal Plants Research (December 2014)
6. African Journal of Agricultural Research (March 2015)
7. Indian Journal of Biotechnology (March 2015)
8. Journal of Plant Science and Research (April 2015)
9. Journal of Plant Science and Research (September 2015)
10. Plant Cell Biotechnology and Molecular Biology (January 2016)
11. Journal of Cereals and Oilseeds – Academic Journals (February 2016)
12. African Journal of Biotechnology (October 2016)
13. In Vitro Cellular & Developmental Biology – Plant (July 2017)
14. Trends in Phytochemical Research (August 2017)
15. Acta Physiologiae Plantarum (November 2017)
16. BioMed Research International (March 2018)
17. African Journal of Biotechnology (March 2018)
18. The Nucleus (March 2018)
19. Journal of Plant Science and Research (March 2018)
20. African Journal of Agricultural Research (March 2018)
21. The Nucleus (June 2018)
22. PLOS ONE (December 2018)
23. The Nucleus (February 2019)
24. Indian Journal of Genetics and Plant Breeding (February 2019)
25. 3 Biotech (October 2019)
26. Applied Biological Research (March 2020)
27. Genetic Resources and Crop Evolution (March 2020)
28. Proceedings of the Indian National Science Academy (July 2020)
29. African Journal of Agricultural Research (July 2020)
30. 3 Biotech (August 2020)
31. African Journal of Agricultural Research (August 2020)
32. Hort Science (September 2020)
33. BMC Genomics (September 2020)
34. Journal of Plant Breeding and Crop Science (September 2020)
35. Hort Science (October 2020)
36. The Nucleus (November 2020)
37. Planta Medica (December 2020)
38. BMC Plant Biology (December 2020)

18. Reviewer of Project Proposal

1. Kerala State Council for Science, Technology and Environment (Young Investigators Programme in Biotechnology) – Name of Project: Development of water stress tolerant banana plantlets through *in vitro* selection (Reference No. 02/YIPB/KBC/2010/CSTE)
2. Kerala Biotechnology Commission – Name of Project: Community Agriculture Resource Center (CARC) (Reference No. 008/KBC/CARC/2012/CSTE) – March 2012
3. Kerala State Council for Science, Technology and Environment - Name of Project: Improvement of *Stevia rebaudiana* by *in vitro* mutagenesis and allele mining (Reference No. 019/SRSLS/2012/CSTE dtd. 26th April 2013) – May 2013.
4. Kerala State Council for Science, Technology and Environment - Name of Project: Hairy root culture of *Gymnema sylvestre* and *Tylophora indica* for enhanced production of pharmaceutical compounds (Reference No. 031/SRSLS/2013/CSTE dtd. 24th January 2014) – February 2014.
5. Kerala State Council for Science, Technology and Environment - Name of Project: “Characterization of key structural genes involved in flavonoid synthesis in Indian Gooseberry (*Emblica officinalis* Gaertn)” (Reference No. 015/SRSLS/2013/CSTE) – April 2014.
6. Kerala State Council for Science, Technology and Environment - Name of Project: “Systematic studies on the bryophytes of Peechi-Vazhani Wildlife Sanctuary in Thrissur district, Kerala” (Reference No. 031/SRSLS/2014/CSTE dtd. 20th March 2015) – April 2015.

