



## Sohini Gupta MSc. Ph.D.

**Contact:** [sohinigupta18@gmail.com](mailto:sohinigupta18@gmail.com)

### CURRENT POSITION:

STATE AIDED COLLEGE TEACHER - 1  
 POST GRADUATE DEPARTMENT OF BOTANY  
 BARASAT GOVERNMENT COLLEGE, BARASAT 24 PGS (N)  
 JANUARY 2020 ONWARDS

### LAST POSITION:

#### PART TIME LECTURER

POST GRADUATE DEPARTMENT OF BOTANY  
 BARASAT GOVERNMENT COLLEGE, BARASAT 24 PGS (N)  
 AUGUST 2008 TO JANUARY 2020

### INTERNSHIP EXPERIENCE:

TRAINEESHIP UNDER THE DEPARTMENT OF BIOTECHNOLOGY, GOVERNMENT OF INDIA, FUNDED BTIS - BTBI NETWORK AT THE DBT CENTRE FOR BIOINFORMATICS, PRESIDENCY COLLEGE KOLKATA.

### KEY RESEARCH AREAS:

- STRUCTURAL BIOINFORMATICS; PLANT PATHOGEN INTERACTION; VIRAL SILENCING SUPPRESSORS; NON CODING RNA AND ITS PREDICTION

### RESEARCH SUPERVISION:

DISSERTATION (FINAL YEAR) POST GRADUATE STUDENTS IN BOTANY (2016 ONWARDS): SPECIAL PAPERS: MOLECULAR GENETICS AND PLANT PHYSIOLOGY

### EDUCATION:

Ph.D. in Botany Thesis Title: “ Studies on Interactions of Viral Silencing Suppressors”	West Bengal State University, 2012 - 2019
Masters in Botany (Specialisation: Cytogenetics)	Barasat Government College University of Calcutta 2004 - 2006
Bachelor in Botany	University of Calcutta Dinabandhu Andrews College [2001 - 2004]

### TEACHING AND PEDAGOGY: Online and Offline Modes; PPT, Lecture, Videos and Boardwork

Stream	Sem1	Sem 2	Sem 3	Sem 4	Sem 5	Sem 6
Honours	CC 2 - Cell Biology	CC 4 - Archaeogoniata	CC 7 - Genetics	CC 8 - Molecular Biology; CC 9 - Plant Ecology and Phytogeography; CC10 - Plant Systematics	CC 11 - Reproductive Biology of Angiosperms	Yet to be distributed
General	CC 1- Biodiversity		ACC - Plant Diversity and Human Welfare		DSE 1 - Cell and Molecular Biology; ACC - Plant Diversity and Human Welfare	Yet to be distributed
PG	ILS - Methods in Biology; AECC	D7 - Plant Ecology and Environmental Biology	D11 - Molecular and Cellular Genetics	Special Paper 1: Molecular Genetics; Special Paper 2: Plant Physiology	NA	NA

**OTHER PROFESSIONAL EXPERIENCE:**

1. GUEST FACULTY, DEPARTMENT OF BOTANY, MRINALINI DUTTA MAHAVIDYAPITH, BIRATI 2006 TO 2010
2. INTERNAL EXAMINER FOR THE CALCUTTA UNIVERSITY GENERAL PAPER PRACTICAL EXAMINATION 2007-2009.
3. PAPER SETTER AND EXAMINER FOR BARASAT GOVT COLLEGE-POST GRADUATE DEPARTMENT OF BOTANY.
4. EXAMINER -WEST BENGAL STATE UNIVERSITY.
5. EXTERNAL EXAMINER FOR NETAJI SUBHAS OPEN UNIVERSITY PRACTICAL EXAMINATION.

**AWARDS:**

1. **1998**-BEST TRAINEE OF THE YEAR FOR ROCK CLIMBING, WEST BENGAL ADVENTURE AND MOUNTAINEERING FEDERATION, KOLKATA.
2. **1998**-SELECTED FOR SAARC ADVENTURE PROGRAMME, HIMALAYAN MOUNTAINEERING INSTITUTE- JAWAHAR PARBAT, DARJEELING.
3. **2000**-THIRD PRIZE IN DRAMA COMPETITION AT THE NATIONAL DAY MEET.

**RECENT WEBINARS, SEMINARS AND SYMPOSIA ATTENDED:**

1. International Webinar on “Surviving in a covid world: Major issues in India” Organised by Barasat Government College, held on 3<sup>rd</sup> September 2020.
2. Webinar on “NAAC assessment and accreditation process” Organised by St.Xavier’s College, held on 30<sup>th</sup> and 31<sup>st</sup> July 2020.
3. Webinar on “DBT’s Response to Covid19” Organised by DBT held on 3<sup>rd</sup> July 2020.
4. International Webinar on “Covid 19:-The disease, prevention and control” Organised by Government General Degree College Singur” held on 2<sup>nd</sup> July 2020.
5. National Webinar on “Plant through ages: Extinct to Extant” Organised by Mrinalini Datta Mahavidyapith, held on 4<sup>th</sup> August 2020.
6. Webinar on “DBT’s Response of the startup community to Covid19” Organised by DBT held on 17<sup>th</sup> July 2020.
7. International Webinar on “Food and lifestyle changes: East to west preventive measures in Covid 19 crisis” Organised by Government General Degree College Kharagpur II, held on 29<sup>th</sup> June 2020.
8. Webinar on “Institutional waste management: An essential parameter for NAAC accreditation” Organised by Gurudas college, held on 11<sup>th</sup> July 2020.
9. International Webinar on “Gene Expression: the momentous keyword during this century” Organised by Bangabasi College, held on 25<sup>th</sup> July 2020.
10. National Webinar on “Vaccines: Past, present and future” Organised by University of Calcutta held on 9<sup>th</sup> August 2020.

**PUBLICATIONS:**

1. Sabdar Rahaman, Abhisek Ranjan Bera, Vineet Vishal, Sohini Gupta, Wrick Chakraborty And Sayak Ganguli; Biochemical And Metagenomic Insight Into The Impact Of Climate Change On An Epiphytic Fern Of The Indian Sunderbans; 2019; Tropical Plant Research 6(3):433-437 Doi: 10.22271/Tpr.2019.V6.I3.053
2. Sayak Ganguli, Olivia Das, Abhisek Ranjan Bera, Pankaj K Singh, Protip Basu, Vineet Vishal, Sohini Gupta: West Bengal Butterfly Biodiversity Database - A Compendium Of Butterfly Biodiversity With Information Regarding The Habitat And Status Of Individual Identified Species Of Butterflies Of West Bengal; Asian Journal Of Conservation Biology, 5(2) 2016.
3. Sayak Ganguli, Sasti Gopal Das, Hirak Jyoti Chakraborty, Sohini Gupta, Abhijit Datta: Identification Of Regulatory Sequence Signatures In Microrna Precursors Implicated In Neurological Disorders. Advances In Bioscience And Biotechnology 2013; 4(05):26 - 33., Doi:10.4236/Abb.2013.45A003
4. Sayak Ganguli, Pritha Mukhopadhyay, Sohini Gupta And Abhijit Datta Regulatory Motifs In Precursors Of Mir156 Family In Plants Int J Comput Bioinfo In Silico Model (2013); 2(3): 123-127
5. Sayak Ganguli, Sohini Gupta, Arijit Bhowmik, Md. Javed Ansari And Monojit Basu Ricinus Communis L. Effectively Removes Lead From Contaminated Ecosystems. “Indian Science Cruiser” November 2008 Page 38 –

45.

6. Sayak Ganguli, Subhodeep Chakraborty, Sohini Gupta, Monojit Basu And Anadi Kumar Kundu. Potentiality Of Certain Medicinal Plant Extracts As Alternative Surfactants For The In Vitro Culture Of Arachis Hypogaea L. Journal Of The Botanical Society Of Bengal” 2006, 60(2) 92 -96.
7. Joardar, S., Ghosh, S., Sohini Gupta., Ganguli, S., 2017. In Vitro And Computational Assessment Of Genotoxic Potential Of Active Constituents Present In Three Medicinally Important Plant Extracts. Int.J.Curr.Res.Biosci.Plantbiol. 4(7): 119-128. Doi: <https://doi.org/10.20546/Ijcrbp.2017.407.015>
8. S Rahaman, Ar Bera, V Vishal, Pk Singh, P Basu, Sohini Gupta, M Basu, S Ganguli Isolation And Computational Characterization Of Glutathione Peroxidase Gene From Azolla Pinnata 2017 Rjlbpc 3(2) 122 - 128.
9. Sabdar Rahaman, Pankaj Kumar Singh, Protip Basu, Sohini Gupta, Monojit Basu, Sayak Ganguli: Isolation And Computational Characterization Of Glutathione Peroxidase Gene From An Aquatic Fern - Salvinia Molesta. 02/2016; 51:58-62., Doi:10.18052/Www.Scipress.Com/Ilns.51.58 If: 0.51
10. Protip Basu, Sayak Ganguli, Sohini Gupta, Abhijit Datta: Exploring Computational Protein Fishing (Cpf) To Identify Argonaute Proteins From Sequenced Crop Genomes. 01/2015; 33:27-36., Doi: 10.18052/Www.Scipress.Com/Ilns.33.27 If: 0.51
11. Sohini Gupta, Sayak Ganguli, Protip Basu, Abhijit Datta: Structural Analyses Of Ac4 Protein Of Sri Lankan ; Cassava Mosaic Virus. 01/2015; 33:37-42., Doi:10.18052/Www.Scipress.Com/Ilns.33.37 If: 0.51
12. Sohini Gupta, Sayak Ganguli, Debisri Datta, Abhijit Datta: Studies On Interactions Of Histone Proteins With Mitomycin And Chlordane Provides Insights Into Mechanisms Of Chemical Clastogenesis. Natura 07/2013; (17) (5):2 - 9. If: 0.34
13. Tanusri Nandi, Sohini Gupta, Sayak Ganguli And Abhijit Datta; Structural Analyses Of Argonaute And Its Homologues In Oryza Sativa And Hordeum Vulgare International Journal Of Biology, Pharmacy And Allied Sciences 2012, 1(9).
14. Hirak Jyoti Chakraborty, Protip Basu, Sayak Ganguli, Sasti Gopal Das, Paushali Roy, Sohini Gupta And Abhijit Datta; Lantibase - A Lantibiotics Resource; Journal Of Pharmaceutical And Biomedical Sciences Jpbms 2011 (3) 13
15. Amit Kumar Das, Sayak Ganguli, Sohini Gupta, Abhijit Datta: Secondary Structural Analysis Of Microrna And Their Precursors In Plants. 06/2011; 3(1)., Doi: 10.9735/0975-3710.3.1.62-64
16. Moumita Adhikary, Sayak Ganguli, Hirak Jyoti Chakraborty, Protip Basu, Sasti Gopal Das, Paushali Roy, Sohini Gupta And Abhijit Datta; Computational Analyses Of Sag 13 Gene – Encoding An Alcohol Dehydrogenase ; Journal Of Pharmaceutical And Biomedical Sciences Jpbms 2010 (2) 07
17. Sohini Gupta, Saha Sabuj, Roy Paushali, Basu Protip, Sayak Ganguli: Structural And Functional Analysis Of Glutathione Peroxidase From Ricinus Communis L.– A Computational Approach.. 06/2010; 2(1)., Doi: 10.9735/0975-3087.2.1.20-30

## BOOK CHAPTERS:

1. Sanga Mitra, Agnik Halder, **Sohini Gupta**, Sayak Ganguli and Jayprokas Chakraborty 2017: A COMPARATIVE EVALUATION OF EMERGING DATABASES AND TOOLS FOR CANCER NONCODING RNAS; Chapter 27; Pg 497 - 508.
2. **Sohini Gupta**, Sayak Ganguli, Abhijit Datta: THE SILENT ASSASSINS: INFORMATICS OF PLANT VIRAL SILENCING SUPPRESSORS. Agricultural Bioinformatics, Edited by Kishor, P.B. Kavi, Bandopadhyay, Rajib, Suravajhala, Prashanth, 09/2014: Chapter 4: pages 21 – 32; Springer., ISBN: 978-81-322-1880-7, DOI: 10.1007/978-81-322-1880-7-2

## Accession Numbers

1. **SIX ACCESSION NUMBERS FOR GLUTATHIONE PEROXIDASE GENE EF620778 – EF62083 available publicly at NCBI – GENBANK Collection since 2007.**

## Professional Affiliations:

1. LIFE MEMBER OF SEBA - India
2. LIFE MEMBER OF BARASAT GOVERNMENT ALUMNI ASSOCIATION - BGCAA

I hereby declare that the above information is true to the best of my knowledge

**Sohini Gupta**