CURRICULUM VITAE

Dr. KAMALA GUPTA, *M.Sc., Ph.D.*
Assistant Professor (W.B.E.S.) & Head , Department of Botany, Government General Degree College Singur
E-mail: kamalagupta@gmail.com
Orcid id: orcid.org/0000-0003-2559-8486
Google scholar: https://scholar.google.co.in/citations?user=1JEGVpwAAAAJ&hl=en

EDUCATION: Post Doctoral Experience:

"*Structure and Functional Analysis of a 42 kDa protein from rice cultivar***"** as an adhoc **DBT-Postdoctoral Fellow** in the **Department of Chemistry, Bose Institute**, Kolkata, India. 2006.
"*Studying the signaling mechanism of SnRK during salt stress by high-throughput protein microarray*"
Raman Post Doctoral Fellowship from UGC to visit and work in **Boyce Thompson Institute for Plant Research, Cornell University, New York, USA.** (August' 2013 - July 2014)

PROFESSIONAL EXPERIENCE/TEACHING EXPERIENCE: 11 years (approx.)

AREA OF SPECIALIZATION AND INTEREST: Teaching: **Masters Degree**: Stress Physiology, cell signaling, Crop Biotechnology, Plant Molecular Biology techniques theory and Lab session; **Bachelor's Degree**: Plant Physiology, Biochemistry, Molecular biology, Plant Biotechnology and Genetic Engineering.

PUBLICATIONS (Peer-Reviewed Journals/Book Chapters): (in recent times) :

1. Gupta B*, Debmallik T, **Gupta K* (2017)** Polyamines and ROS: Understanding their Role in Plant Drought Homeostasis, In V.P.Singh, S.Singh, S.M.Prasad (eds.) Mechanisms Behind Phytohormonal Signalling and Crop Abiotic Stress Tolerance, Chapter 3, Nova Science Publishers, USA (ISBN: 978-1-53610-713-5)
2. Khatun S, Islam A, **Gupta K***, Gupta B* (**2017**) Detection of Edible Mushroom Species by Using Molecular Markers, In: B.P. Singh, V.K. Gupta (eds.), Molecular Markers in Mycology, Fungal Biology, Chapter 9, Springer International Publishing Switzerland, http://dx.doi.org/10.1007/978-3-319-34106-4_9 (ISBN: 9783319341040)
3. **Gupta K**, Sengupta A, Chakraborty M, Gupta B **(2016)** Hydrogen peroxide and polyamines act as double edged swords in plant abiotic stress responses. *Frontiers in Plant Science.* 7:1343. https://doi.org/10.3389/fpls.2016.01343
4. Saha S, Gupta B, **Gupta K**, Ghosh Chaudhuri M **(2016)** Production of putrescine-capped stable silver nanoparticle: its characterization and antibacterial activity against multidrug-resistant bacterial strains. Appl. Nanosci. (Springer) http://dx.doi.org/10.1007/s13204-016-0528-9

PROCEEDINGS IN NATIONAL/INTERNATIONAL SYMPOSIA : (recent times) :

1. Saha J., Mitra T. , **Gupta K.** , Mukherjee S. Evaluation of Antioxidants in the Methanolic Extracts of Flower, Bark and Leaf of *Saraca asoca* (Roxb.)Wilde by DPPH and HPTLC assay. International Conference on Ecotoxicology and Environmental Sciences, **2011**. 263-267
2. Gupta B and **Gupta K** (**2010**) Characterization of microbes from sewage effluents. Proceedings of UGC-Sponsored National Symposium on *Recent Trends in Microbiological Research*, Rashtraguru Surendranath College Barrackpore: 13-14.

EXTRAMURAL RESEARCH GRANTS: (in recent times) :

1. **Principal Investigator** in **DST-SERB** Major Research Project entitled "Study the molecular mechanism of Polyamine action during salinity stress in indica rice cultivars" **2013-2016** SERB/LS-553/2012. Rs 23 Lakhs. One JRF **(Completed)**
2. Principal Investigator in **UGC BSR** project entitled 'Biochemical and Molecular Analysis of Mechanism of Polyamine Action in Rice cultivars in response to salinity stress' (Rs. 6 Lakhs) **2014-2016 (Completed)**
3. **Principal-Investigator jointly with Dr. Bhaskar Gupta** in **Multi-Institutional DBT (RGYI)** sanctioned Major Research Project entitled "Molecular dissection of Polyamine mediated hyperosmotic stress tolerance in cultivars of Indica rice". **2013-2016**. BT/PR6031/GBD/27/374/2012 dated 02/12/2013 Rs 17.75 Lakhs. One JRF.