


Curriculum Vitae

Name	SOMNATH BHATTACHARYYA, Ph. D
	
Designation	Professor
Date of birth	03.02.1966
Department	Genetics and Plant Breeding
Institute/Place	Bidhan Chandra KrishiViswavidyalaya
Gender	Male
e.mail	somnathbhat@yahoo.com
Contact	09433556387

Education (Post graduation onwards and Professional Career)

Degree/Qualification	Institute/Place/Board	Year of award	Field of study
M.Sc (Ag) in Genetics and Plant Breeding	Bidhan Chandra KrishiViswavidyalaya	1990	Genetics, Cytogenetics, Plant Breeding
Ph D (Ag) in Genetics and Plant Breeding	Department of Biochemistry, Bose Institute, University of Calcutta	1997	Plant Molecular Genetics and Molecular markers
NET (Fellowship and Lectureship)	CSIR-UGC	1990	Life Science
NET	ICAR	1995	Genetics and Cytogenetics

Awards / Honors

	Description
International	US-Patent on “Methods and composition for expressing multiple genes in plants by alternate splicing of a polycistronic message”; [US 7,052,905 B1 dated May30, 2006]
National	<ol style="list-style-type: none"> 1. Fellow: West Bengal Academy of Science and Technology. 2. Member, Academic and Research Council, Faculty Centre of Rural Development and Management, Ramakrishna Mission Vivekananda University, Belur, WB 3. Member, Selection Committee, West Bengal Agriculture Service (Research), Public Service Commission, WB. 4. ICAR nominated Expert member of the assessment committee of ICAR-CRIJAF in the discipline of Agril. Biotechnology (May 2015-May 2016)

Professional Training:

1. **Post Doctoral Fellow**, Plant Genetic Engineering Laboratory, University of Kentucky, USA, (27.09.1999 to 20.10.2001).

2. Ministry of Environment and Forest, Govt of India, sponsored short term training course on ‘**Environmental Bio-safety of GM crops**’ organized by Michigan State University, APHIS, Maryland and IFPRI, Washington DC. USA, Aug 2 – Aug 14, 2008
3. Short term training course (15 days) on **Molecular markers in crop improvement**, Organized by ICRISAT, Hyderabad, India, 2010.

Selected peer-reviewed publications

1. Das T, Mandal S, Mishra D and Bhattacharyya S (2015) Development of SCAR marker for screening Sigatoka-leafspot resistance in banana genotypes. **Indian Journal of Genetics and Plant Breeding** 76:69-74.
2. Mukherjee A, Sutanu S, Yelne R, Chakraborty A, Kaviseti V, Mondal N, Bhattacharyya S (2014) Phosphate acquisition efficiency and phosphate starvation tolerance locus (*PSTOL1*) in rice. **Journal of Genetics** 93:683-688.
3. Singh N, Mallick J, Murmu S, Sagolsem D, Sarkar S, Mandal N and Bhattacharyya S (2014) Inheritance of MYMIV tolerance in two RIL populations of greengram on lower Gangetic alluvial zone during summer and their parental molecular diversity. **Indian Journal of Genetics and Plant Breeding** 74: 584-588.
4. Chattopadhyaya K, Nath D, Mohanta RL, Bhattacharyya S, Marndi BC, Nayak AK, Singh DP, Sarkar RK, Singh ON (2014) Diversity and validation of microsatellite markers in Saltol-QTL region in contrasting rice genotypes for salt tolerance at the early vegetative stage. **Australian Journal of Crop Science** 8:356-362.
5. Sakar S, Bhattacharyya S (2014) Inheritance of bruchid resistance and morphological traits in greengram. **Indian Journal of Genetics and Plant Breeding** 74:98-102.
6. Biswas T, Das A, Bhattacharyya S (2013) Marker assisted selection for developing high yielding submergence tolerant rice (*Oryza sativa* L.) genotypes with slender grain. **Cereal Research Communication** 41:35-44. DOI:10.1556/CRC.2012.0022.
7. Chatterjee M, Sarkar S, Debnath S, Mukherjee A, Chakraborty A, Bhattacharyya S (2013) Genotypic difference in temporal variation of arsenic accumulation and expression of silicon efflux transporter (*LSi₂*) gene in field grown rice. **Indian Journal of Genetics and Plant Breeding** 73: 94-97.
8. Majumder A, Bhattacharyya K, Bhattacharyya S, Kole SC (2013) Arsenic-tolerant, arsenite-oxidising bacterial strains in the contaminated soils of West Bengal, India. **Science of the total environment**. 463: 1006-1014.
9. Banerjee S, Dutta S, Mondal N and **Bhattacharya S** (2012) Characterization of molecular variability in *Rhizoctoniasolani* isolates from different agro-ecological zones by random amplified polymorphic DNA (RAPD) markers. **African Journal of Biotechnology**. 11: 9543-9548.
10. Das, S, D Pan, A K Bera, T Rana and D Bhattacharya, S Bandyapadyay, S De, V. Sreevatsava, S Bhattacharya and S Kumar Das(2011). Sodium arsenite mediated immuno-disruption through alteration of transcription profile of cytokines in chicken splenocytes under in vitro system. **Mol Bio report**. 38:171-176.
11. Sarkar, S Roshan Yelne, Chatterjee M, Das P, Debnath S, Chakraborty A, Mandal N, Bhattacharyya, K and **Bhattacharyya S** (2011) Screening of phosphorus tolerance and validation of *Pup 1* linked markers in *Indica* rice. **Ind J Genet Pl Breed** 71:209-213.
12. Chattopadhyay, K, H.K. Sarkar and S. Bhattacharyya (2011) Estimation of genetic distances based on agro-morphological and molecular parameters in mungbean - a case study **Journal of Food Legumes** 24: 277-281.

13. Sarkar, S, S Ghosh, M Chatterjee, P Das, T Lahari, A Maji, N Mondal, K KPradhan, S Bhattacharyya (2011) Molecular Markers Linked with Bruchid Resistance in an Indian Sublobata (*Vignaradiata* var. Sublobata) and its validation. **J. Plant Biochem. Biotechnol.** 20:155-160.
14. Gangopadhyay M; Chatterjee D; Bhattacharyya S and Bhattacharya S (2010) Regeneration of transformed plants from hairy roots of *Plumbagoindica*. **Plant Tissue Organ and Cell Culture** 102:109–114.
15. Guha Roy S; Bhattacharyya S; Mukherjee S K and Khatua D (2009) Molecular identification of *Phytophthora* sp. affecting some economically important crops in Eastern India through ITS-RFLP and sequencing of the ITS region. **J Phytopathology** 157:666–674 (2009).
16. Prakash J; **Bhattacharyya S**; Chattopadhyay K; Roy S; Das S P; Singh N P (2009) PQM-1: A newly developed superior clone of pineapple for northeastern India as evident through phenotype, fruit quality and DNA polymorphism. **ScientiaHorticulturae** 120:288-291.
17. Chattopadhyay K; BhattacharyyaS; KarmakarN; BiswasT; Das S P and Singh N P (2009) Marker assisted selection for aromatic and submergence tolerant rice genotypes for Tripura. **Oryza**46: 245-247.
18. Chattopadhyay T; Biswas T; Chatterjee M; Mandal N; **Bhattacharyya S** (2008) Biochemical and SSR marker based characterization of some Bengal landraces of rice suffixed with ‘sail’ in their name. **Indian J Genet and PI Breeding** 68:15-20.
19. Chattopadhyay K; **Bhattacharyya S**; Mandal N; Sarkar H K (2008) PCR based characterization of Mung Bean genotypes from Indian subcontinent at intra and inter specific level. **J Plant Biochemistry and Biotechnology** 17: 141-148.
20. Ali N; Chattopadhyay K; Mondal N; Sarkar HK and Bhattacharyya S (2007) Molecular Diversity of some Black gram [*Vignamungo* (L.) Wilczek] accessions as revealed through RAPD and ISSR markers. **Indian J Genet and PI Breeding.** 67: 171-172.
21. Chattopadhyay K; Ali N; Mondal N; Sarkar HK and Bhattacharyya S (2005) Diversity analysis by RAPD and ISSR markers among the selected mung bean [*Vignaradiata* (L.) Wilczek] genotypes. **Indian J Genet and PI Breeding** 65: 173-175.
22. Guharoy S; **Bhattacharyya S** Mukherjee SK; Mondal N; and Khatua D (2006) *Phytophthoramelonis* associated with fruit and vine rot disease of pointed gourd in India as revealed by RFLP and sequencing of ITS region. **J Phytopathology**154:612-615.
23. PattanaikSK; De N; **Bhattacharyya S** and I B Maiti. (2004) Isolation of full- length transcript promoter from the Strawberry vein banding virus (SVBV) and expression analysis by protoplasts transient assays and in transgenic plant. **Plant science**, 167: 427-438.
24. **Bhattacharyya Sand S K Ghosh** (2004) Association among yield related traits of twenty four diverse landraces of rice. **Crop research**, 27:90-93.
25. **BhattacharyyaS**,PattanaikSKand I B Maiti (2003). Intron mediated enhancement of gene expression in transgenic plants using chimeric constructs composed of peanut chlorotic streak virus (PCISV) promoter-leader and the antisense orientation of PCISV ORFVII (p7R). **Planta**, 218: 115-124.
26. **Bhattacharyya S**; Dey N and MaitiI B (2002). Analysis of cis-sequence of sub genomic transcript promoter from the Figwort Mosaic virus and composition of promoter activity with the Cauliflower Mosaic virus promoter in monocot and dicot cells. **Virus research**, 90: 47-62.
27. **Bhattacharyya S** and MandalR K (1999) Cloning and sequencing of an apparently recombinant promoter for napin gene from *Brassica campestris* genomic library and its evolutionary significance. **Indian J BiochemBiophys**, 36: 221-226.
28. **BhattacharyyaS** and MandalR K (1999.) Identification of molecular marker for septumless bold pod in *Brassica campestris*. **J Plant Biochemistry and Biotechnology**, 8: 93-99.
29. Ghosh S K,DeyN,**BhattacharyyaSand Mandal R K** (1993). Regeneration and transformation of *Nasturtium indicum* – a wild crucifer. **Current Science**, 63: 44-46.

Books:

1. Maiti IB, Pattanaik SK, **Bhattacharyya S** and Dey N (2004) Genetic tools useful for basic research in molecular biology and biotechnological applications: In **Biotechnological approaches for sustainable development**; Ed, Reddy MS and Khanna S. **Allied Publishers Pvt. Ltd:** pp 29-39.

Ongoing Research Support (extramural fund as PI only)

Sl. No.	Title of Project	Duration	Share of BCKV	Funding Agency
1.	Improvement of mungbean for resistance to <i>Mungbean yellow mosaic virus</i> (MYMV)	2014-17	28.9	DBT, Govt. of India.
2	Development of abiotic stress tolerant rice suitable for West Bengal agro-climate with special emphasis to drought and P-deficiency	2014-2018	86.18	DAE-BRNS, Govt. of India
3	Study of rice yield under low light intensity using genomic approach	2015-2017	72.8	ICAR-Incentivizing research, Govt. of India