

BRIEF BIO-DATA OF DR. JOYDEEP BANERJEE



1.	Name	:	Dr. Joydeep Banerjee				
2.	Father's name	:	Anil Kumar Banerjee				
3.	Date of birth	:	18.12.1981				
4.	Designation	:	Assistant Professor Grade I				
5.	Official and corresponding address	:	Department of Agricultural and Food Engineering, Indian Institute of Technology Kharagpur, West Bengal-721302, India				
6.	Residential address	:	Pandit Saroda Banerjee Road, P.O.: Ghola Bazar, 24 PGS (N), West Bengal, Kol-700111				
7.	Contact No.	:	91-8276914432				
8.	E Mail	:	jbanerjeebiotech@gmail.com ; joydeep@agfe.iitkgp.ac.in				
9.	Field of specialization	:	Genetics and Plant Breeding, Plant Molecular Biology, Transgenic Technology				
10.	Academic qualification	:	Degree	Board/University	Class (Percentage)	Remarks	Year of Passing
			Secondary (10 th)	WBBSE	First (76.1%)	With star marks	1997
			Higher Secondary (10 + 2)	WBCHSE	First (78.4%)	With star marks	1999
			B.Sc. (Agriculture)	UTTAR BANGA KRISHI VISWAVIDYA LAYA, COOCHBEHAR	First (83.4%)	Qualified ICAR JRF	2003
			M.Sc. (Agriculture)	GOVIND BALLABH PANT UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR	First (81.5%)	Qualified NET(CSIR) with JRF in 2004	2005
			Ph.D.	INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR	Grade A (Equivalent to First class)	Received post-doctoral opportunity at USA	2011

11.	Date of joining in present service	: 5th July, 2018
12.	Awards received	<p>1. Received Senior research Fellowship during the Ph.D. program from Council of Scientific and Industrial research, Government of India, from September, 2007 to 2010.</p> <p>2. Received Junior Research Fellowship during the Ph.D. program from Council of Scientific and Industrial research, Government of India from 2005 to 2007.</p> <p>3. Received Junior Research Fellowship during the M.Sc. program from Indian Council of Agricultural Research (ICAR) from 2003 to 2005.</p> <p>4. Best poster award in National symposium on plant cell tissue & organ culture: the present scenario and 31st annual meeting of plant tissue culture association (India) during 3rd -5th March 2010.</p> <p>5. Best poster award in National Symposium on Challenges and Perspective in Plant Health Management under Climate Change Scenario & IPS (EZ) Meet organized by BCKV, Department of Plant Pathology, during 23rd to 24th November, 2017.</p> <p>6. Young Scientist Award from Crop and Weed Science Society (CWSS), BCKV in 2018.</p>
13.	Publication	<p>List of Publication in International Journal</p> <p>A. Das, K. Pramanik, R. Sharma, S. Gantait, J. Banerjee (2019) <i>In-silico</i> study of biotic and abiotic stress-related transcription factor binding sites in the promoter regions of rice <i>germin-like protein</i> genes, <i>PLoS ONE</i>, 14(2): e0211887.</p> <p>S. Mahapatra, J. Banerjee, K. Kumar, S. Pramanik, K. Pramanik, S. Islam, S. Das (2018) Leaf spot and fruit rot of strawberry caused by <i>Neopestalotiopsis clavispora</i> in Indo-Gangetic plains of India, <i>Indian Phytopathology</i>, 71: 279-283.</p> <p>J. Banerjee*, S. Gantait, M.K. Maiti (2017) Physiological role of rice germin-like protein 1 (OsGLP1) at early stages of growth and development in indica rice cultivar under salt stress condition, <i>Plant Cell, Tissue and Organ Culture</i>, 131(1):127-137.</p> <p>S. Sarkar, J. Banerjee, S. Gantait (2017) Sex-oriented research on dioecious crops of Indian subcontinent: an updated review, <i>3 Biotech</i>, 7(2):93.</p> <p>S. Gantait, A. Das, J. Banerjee (2017) Geographical distribution, botanical description and self-incompatibility mechanism of genus <i>Stevia</i>. <i>Sugar Tech</i>, DOI</p>

10.1007 /s12355-017-0563-1.

A. Halder, **J. Banerjee***, P. Bhattacharyya, K. Pramanik, A. Debnath (2016) Isolation of lentil-specific salt tolerant nitrogen fixing bacteria from Murshidabad district of West Bengal, *J. Crop Weed*, 13(3):14-19.

A.R. Barman, **J. Banerjee*** (2015) Versatility of germin-like proteins in their sequences, expressions, and functions, *Funct. Integr. Genomics*, 15(5):533-548. Doi 10.1007/s10142-015-0454-z.

D. K. Sahoo, S. Sarkar, S. Raha, N. C. Das, **J. Banerjee**, N. Dey, I. B. Maiti, (2015) Analysis of dahlia mosaic virus (DaMV) full-length transcript promoter driven gene expression in transgenic plants, *Plant Molecular Biology Reporter*, 33:178–199.

J. Banerjee, D. K. Sahoo, S. Raha, S. Sarkar, N. Dey and I. B. Maiti, (2015) A region containing an as-1 element of dahlia mosaic virus (DaMV) sub-genomic transcript promoter plays a key role in green tissue and root specific expression in plants, *Plant Molecular Biology Reporter*, 33:532–556.

L. C. Galvez, **J. Banerjee**, A. Mitra, (2014) Engineered plant virus resistance, *Plant Science*, 228:11-25.

J. Banerjee, R. Magnani, M. Nair, L. M. Dirk, S. DeBolt, I. B. Maiti and R. L. Houtz, (2013) Calmodulin-mediated signal transduction pathways in Arabidopsis are fine-tuned by methylation, *The Plant Cell*, 25:4493–4511.

J. Banerjee, D. K. Sahoo, R. L. Houtz and I. B. Maiti, (2013) An intergenic region shared by At4g35985 and At4g35987 in Arabidopsis thaliana is a tissue specific and stress inducible bidirectional promoter analyzed in transgenic Arabidopsis and tobacco plants, *PLOS One*, 8(11):e79622.

P. Dey, **J. Banerjee** and M. K. Maiti, (2011) Comparative lipid profiling of two endophytic fungal isolates– *Colletotrichum sp.* And *Alternaria sp.* Having potential utilities as biodiesel feedstock, *Bioresource Technology*, 102:5815–5823.

J. Banerjee and M. K. Maiti, (2010) Functional role of rice germin-like protein1 in regulation of plant height and disease resistance, *Biochemical and Biophysical Research Communication*, 394:178–183.

J. Banerjee, N. Das, P. Dey and M. K. Maiti, (2010) Transgenically expressed rice germin-like protein1 in tobacco causes hyper-accumulation of H₂O₂ and reinforcement of the cell wall components, *Biochemical and Biophysical Research Communication*, 402:637–643.

B. Chattopadhyaya, **J. Banerjee**, A. Basu, S. K. Sen and M. K. Maiti, (2010)

		<p>Shoot induction and regeneration using intermodal transverse thin cell layer culture in <i>Sesamum indicum</i>, <i>Plant Biotechnology Report</i>, 4:173–178.</p> <p>List of Publication in National Journal</p> <p>J. Banerjee, R. S. Rawat and J. S. Verma, (2006) Stability analysis in bread wheat (<i>Triticum aestivum</i> L. em. Thell) and durum wheat (<i>T. durum</i> L.) genotypes, <i>The Indian Journal of Genetics & Plant Breeding</i>, 66:2.</p> <p>List of Popular Article</p> <p>1. P. K. Bhattacharyya and J. Banerjee (2015) Popular article on PVR and FR bill, 2001 in <i>Krishi Karcha</i>, Nabanna, West Bengal.</p> <p>2. K. Jana, D. K. De, S. Sarkar, J. Banerjee and C. K. Kundu (2017) Ricebean germplasm variability: Development of molecular markers and variety for salinity and other abiotic stress conditions. Souvenir of AICRP on Forage Crops and Utilization published at National Group Meet, Kharif-2017.</p>
14.	Training undertaken	: 1. Summer school in biotechnology on “RNA-interference as a Tool for Plant Functional Genomics and Crop Improvement” conducted by ICAR-National Research Centre on Plant Biotechnology, Pusa Campus, New Delhi during 6 th to 26 th May, 2015.
15.	Author of books	: Book chapter: J. Banerjee and C. Kole, Plant nanotechnology: an overview on concepts, strategies, and tools, <i>Plant Nanotechnology Principles and Practices</i> edited by Chittaranjan Kole, D. Sakthi Kumar, Mariya V. Khodakovskaya, Springer International Publishing Switzerland 2016, 1-14. J. Banerjee and P. K. Bhattacharyya, Genes responsible for Improved Nitrogen use efficiency in Rice are key components to enrich Agriculture and Rural community, published in ‘Rural Health, Women Empowerment and Agriculture: Issues and Challenges’. 2016. Edited by Pranab Kumar Chattopadhyay and Daya Shankar Khshwaha, A.K.Dasgupta Centre for Planning & Development, Viswa Bharati, Santiniketan, West Bengal pp. 309-315. New Delhi Publishers, 90 Sainik Vihar, Mohan Garden, New Delhi- 110 059.
16.	Student(s) guided	: M.Sc. student: 2 completed
17.	Seminar/symposium attended	: Oral Presentation: 1. J. Banerjee and P. K. Bhattacharyya, Bidirectional promoter: An important member in transcriptional regulation, National seminar

on “Resource based inclusive agriculture and rural development: Opportunities and challenges” organized by faculty centre of IRDM RKMVU in collaboration with APBI, University of Calcutta held on 15th to 16th January, 2016 at Kolkata.

Poster Presentation at National Conference:

1. K. Kumar, S. Mahapatra and **J. Banerjee**, Leaf spot and fruit rot of Strawberry caused by *Neopestalotiopsis clavispora* in Indo-Gangetic plains of India, National Symposium on Challenges and Perspective in Plant Health Management under Climate Change Scenario & IPS (EZ) Meet organized by Department of Plant Pathology, BCKV during 23rd to 24th November, 2017.
2. **J. Banerjee** and P. K. Dhal, Calmodulin methyltransferase: A new player in signaling network, National symposium on “Evolving plant biology: from chromosomes to genomics” organized by West Bengal Academy of Science and Technology (WAST) held on 27th to 29th November, 2014 at Kolkata.
3. **J. Banerjee**, S. Roy, A. Basu, S. K. Sen, M. K. Maiti, Genetic engineering approach to alter the plant architecture of indigenous rice (*Oryza sativa*) cultivar for improving the yield potential, National symposium on plant cell tissue & organ culture: the present scenario and 31st annual meeting of plant tissue culture association (India) held on 3rd to 5th March, 2010, organized by the Centre of Advanced Study, Department of Botany, University of Calcutta, Kolkata.

Poster Presentation at International Conference:

1. **J. Banerjee**, R. Magnani, D. M. Lynnette, R. L. Houtz and I. B. Maiti, Expression profiling of the calmodulin methyl transferase gene from *Arabidopsis thaliana* and analysis of its promoter region, American Society of Plant Biologist meeting held on 20th to 24th July, 2012 at Austin, Texas, USA.
2. I. B. Maiti, D. K. Sahoo, **J. Banerjee** and N. Dey, Genetic tools and gene expression vectors developed for molecular farming of pharmaceutical proteins, vaccines and recombinant antibodies, 45th Tobacco Workers’ Conference held on 16th to 19th January, 2012 at Williamsburg Lodge & Conference Center, Williamsburg, Virginia, USA.
3. A. Halder, **J. Banerjee**, P. K. Bhattacharyya, K. Pramanik, A. Debnath, Isolation of lentil-specific salt tolerant nitrogen fixing bacteria from Murshidabad district of West Bengal, International Seminar on “Eco-Efficiency in Agriculture & Allied Research” organized by Crop and

		<p>Weed Science Society (CWSS), Bidhan Chandra Krishi Viswavidyalaya (BCKV) at Farmers' Academy & Convention Centre (FACC), BCKV, Kalyani during 20th -23rd January, 2017.</p>
18.	Act as an expert	<p>: 1. Acted as an external examiner in the course ABT-205: Genetic Engineering and ABT-206: Molecular Tools and Techniques in Ramakrishna Mission Vivekananda University (RKMVU), Narendrapur on 30.06.2017.</p> <p>2. Acted as a paper setter in the course GPBR-1.8.2: Principles of Plant Breeding in Dr. YSR Horticultural University, Andhra Pradesh during March, 2017.</p> <p>3. Acted as an external examiner in the course ABT-102: Fundamentals of Crop Improvement in Ramakrishna Mission Vivekananda University (RKMVU), Narendrapur on 26.12.2016.</p> <p>4. Acted as an external examiner in the course BBP 101 and APG 102 in Bihar Agricultural University, Sabour, Bhagalpur on 12.01.2016.</p> <p>5. Acted as a resource person to deliver lecture on Aromatic rice at the Farmers Training Programme scheduled on 24.06.2016 at the training hall of the office of Assistant Director of Agriculture, Barrackpore II Block, North 24 Parganas.</p> <p>6. Acted as a resource person to deliver lecture on the Farmers Training Programme scheduled on 26.10.2016 at the training hall of the office of Assistant Director of Agriculture, Barrackpore I Block, North 24 Parganas.</p>
19.	Important activities and significant Achievements	<p>: Publication as the first author in the journal "The Plant Cell" which is highest rating journal in plant science having Impact Factor 8.538 and NAAS Rating 14.54</p> <p>Acting as a project reviewer in Department of Science and Technology, Government of India</p> <p>Acted as a reviewer in Journal of Plant Physiology, Plant Molecular Biology, Acta Agriculturae Scandinavica and Rumanian Biotechnological Letters</p>
20.	Project handled/handling	<p>Acted as Co-PI in the project entitled "Development of farm and tissue culture units for production and promotion of the medicinal plant Stevia as a promising cash crop (PIC No. 201900374)" given by NABARD, Kolkata</p>

21.	Member, academic Societies	:	<ol style="list-style-type: none"> 1. Annual member of American Society of Plant Biologist in 2012. 2. Annual member of Indian Journal of Genetics and Plant Breeding in 2004. 3. Life member of Crop and Weed Science Society since 2017. 4. Annual member of Indian Phytopathological Society in 2018-19.
22.	Additional Job	:	<ol style="list-style-type: none"> 1. Acted as a rapporteur in an International Seminar on “Eco-Efficiency in Agriculture & Allied Research” organized by Crop and Weed Science Society (CWSS), Bidhan Chandra Krishi Viswavidyalaya (BCKV) at Farmers’ Academy & Convention Centre (FACC), BCKV, Kalyani during 20th -23rd January, 2017. 2. Acted as a team manager of BCKV football team for participation in P.C.N. Memorial football tournament at ISI, Kolkata during 2017.
23.	Professional Experience	:	<p>Assistant Professor at Bidhan Chandra Krishi Viswavidyalaya 22.05.2014 to 04.07.2018</p> <p>Post doc at University of Nebraska-Lincoln from 01.05.2013 to 06.05.2014</p> <p>Post doc at University of Kentucky from 12.10.2010 to 30.04.2013</p>