

	
Name	Jayanta Tarafdar
Date of Birth	17 th Day of October 1961
Photo	
Designation	Associate Professor (Research)
Official address/Department	Officer in charge of All India Coordinated Research project on Tuber Crops (Other than Potato), Kalyani centre (ICAR), Directorate of Research, BCKV, Kalyani 741235, W.B., India
Residential address	B-15/70, Lake Park, PO: Kalyani 741235, Nadia, 741235, West Bengal
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E-Mail (Institutional)	Jayanta94bckv@gmail.com
Working in BCKV since	1991
Professional Training	<p>i. Attended National Training Course on Evaluation of Sweetpotato Viruses to generate Health Planting Material held from 13-14th February, 2003 at Regional Centre of Central Tuber Crops Research Institute (CTCRI), ICAR at Bhubaneswar, Orissa organized by CTCRI, ICAR and International Potato centre (CIP), South-East Asia.</p> <p>ii. Attended Workshop on Biological Electron Microscopy held at Bose Institute, Kolkata from 3rd to 8th February 1997 at Regional Sophisticated Instrumentation centre, Bose Institute sponsored by the Department of Science & Technology, Govt. of India</p> <p>iii. Attended Special training course in Production, Protection and Post harvest technology of Horticultural crops held from February 3 to march 2 1993 at central Institute of Horticulture fro Northern Plains (CIHNP), Lucknow organized by Indian Council of Agricultural Research under NARP.</p>

<p>National/International recognition/awards</p>	<p>i. Awarded National Biotechnology Associateship by the Department of Biotechnology, Govt. of India (1995-1997); I was attached with in the Plant Molecular & Cellular Genetics Section, Bose Institute, Kolkata and worked on genetic transformation of ginger and the expression of <i>gus A</i> and Bt endotoxin gene (<i>CryIII A</i>) in ginger towards the insect pest resistance: an indirect approach to manage the soft rot disease complex in ginger.</p> <p>ii. Awarded National Overseas Associateship by Department of Biotechnology, Govt. of India (1999-2000) and did work on in the Department of Biochemistry, Kansas State University, USA. I worked on the Genetic engineering of rice with PR-Protein gene (class I chitinase) from rice and Green Fluorescent Protein (GFP) as a reporter gene for resistant to fungal pathogen.</p> <p>iii. Society Award on Best Oral Paper Presentation in the 14th International Symposium organized by International Society for Tropical Root Crops (ISTRC), Natural Resource Institute (NRI), University of Greenwich, Chatham, U.K., CTCRI, ISRC and International Potato centre (CIP).</p> <p>iv. Winner of Generation Challenge Program (GCP) under Genotyping Support Service (GSS) by CGIAR in 2009 : Global program on Genotyping of Sweetpotato and I am the only person from India got the award for doing genotyping of sweetpotato and development of virus resistance marker.</p> <p>v. Certificate of appreciation for successfully running AICRP on Tuber Crops by Project Coordinator, CTCRI, ICAR, Trivandrum</p> <p><u>Invited / Guest lecturer in International Symposium:</u></p> <p>Jayanta Tarafdar (2011) delivered lecture on Emerging and Re-emerging of Threatening Plant diseases and Global Food Security (Review paper) in Proc: International Symposium on System Intensification Towards Food and Livelihood Security, Crop & Weed Science Society. BCKV, 24-27 Feb. 2011</p>
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	<p>Jayanta Tarafdar (2008) delivered lecture on Present status of Rice Tungro virus disease in West Bengal: A case study for ten years. In: International Conference on Virology, New Delhi</p> <p>Jayanta Tarafdar (2006) delivered lecture on <i>Biolistic transformation and detection of jellyfish green fluorescent and chitinase proteins in indian basmati rice</i> in 11th IUPAC International Congress of Pesticides Chemistry organized by International Society of Organic Chemistry, held on 6-11th August 2006 at Kobe Japan</p> <p>Reviewer of Scientific publication in foreign journals; International Journal: HortScience, USA International Journal: African Journal of Agricultural Research VIROLOGY JOURNAL - BIOMED</p>
Patents	Not applicable
Fellow of the Society	
Research Interests and area of specialization	Plant Molecular Biology & Molecular Plant Pathology (Virology)
Best 10 Publications with NAAS impact score > 5	<ol style="list-style-type: none"> 1) Somnath Roy, Jayanta Tarafdar, Amrita Banerjee and B.K. Senapati (2012) Detection of probable marker free transgene positive rice tungro disease resistant plants from backcross progenies of transgenic Pusa Basmati 1 Journal of Genetics (Springer) 91, 213–218 (NAAS rating – 7.5) 2) Somnath Roy, Amrita Banerjee, Jayanta Tarafdar, B.K. Senapati and I. Dasgupta (2011) Transfer of transgenes for resistance to rice tungro disease into high yielding rice cultivars through gene based marker-assisted selection" Journal of Agricultural Sciences, Cambridge, UK pp: 1-9 (NAAS rating – 7.7) 3) Somnath Roy, Amrita Banerjee, Jayanta Tarafdar, Surajit Mitra (2012) Tuber quality assessment of orange-fleshed sweet potato cultivars and their genetic relatedness as

revealed by SDS-PAGE of tuber proteins
Indian Journal of Agricultural Sciences, ICAR 82 (6): 482–8 (NAAS rating – 6.6)

- 4) Amrita Banerjee, Somnath Roy and **Jayanta Tarafdar (2011)** The large intergenic region of Rice tungro bacilliform virus evolved differentially among geographically distinguished isolates. *Virus Genes (Springer)* **44:312-318 (NAAS rating – 7.6)**
- 5) Amrita Banerjee, Somnath Roy, **Jayanta Tarafdar, (2011)** Phylogenetic analysis of Rice tungro bacilliform virus ORFs revealed strong correlation between evolution and geographical distribution *Virus Genes (Springer) (2011) 43:398–408 (NAAS rating – 7.6)*
- 6) Susmita Ganguly, Sima Bhattacharya, Sukumar Mandi and **Jayanta Tarafdar (2010)** Biological detection and analysis of organophosphate and azadirachtin- based insecticides in Lathyrus sativus L. *Ecotoxicology (Springer) 19: 85 – 95 (NAAS rating – 7.7)*
- 7) Somnath Roy, Amrita Banerjee, **Jayanta Tarafdar** and Samir Kumar Samanta (2010) Superior bioefficacy of a combined formulation of carbendazim and mancozeb in inducing defense responses in chilli seedlings against *Sclerotium rolfsii* Sacc. in comparison with methyl jasmonate **Crop Protection (Elsevier) 29: 163-167. (NAAS rating – 7.5)**
- 8) Bireswar Sinha and **J. Tarafdar (2007)** A study on the Cause of a Sweet Potato Virus Disease in West Bengal. *The BIOSCAN, 2(2): 163-166 (NAAS rating – 5.1)*
- 9) S. Mitra, **J. Tarafdar** and M. Palaniswami (2010) Impacts of different maturity stages and storage of Nutritional Changes in raw and cooked tubers of Orange Fleshed sweetpotato (*Ipomoea batatas*) cultivars. *Acta*

	<p style="text-align: center;">Horticulturae 205-212</p> <p>10) Mitra, S. Sinha, B. ; Pal, H. and Tarafdar, J. (2007). Comparative studies on morphological characters, yield, nutritional status and isozymes activity of taro (<i>Colocasia esculenta</i> var. antiquorum L. Schott.) grown in West Bengal. <i>Acta Hort.</i> 752 : 219-224.</p> <p>11) Tarafdar, J. and Sarkar, M.A. 2006. Managing sweetpotato weevil (<i>cylas formicarius fabricius</i>) in West Bengal, India, by some chemicals, bioproducts and sex pheromone traps. <i>Acta Horticulturae (ISHS)</i> 703:189-196</p>
Books or Chapter in Books	<ol style="list-style-type: none"> 1. Jayanta Tarafdar and Sambit Dutta (2011) Common Flower Diseases in West Bengal and its Management. In Book: Manual for High Tech Horticulture published by Centre for Testing and Training for providing Technical Backup to the beneficiaries for Agricultural and Horticultural Development, Institute of Agricultural sciences, University of Calcutta 2. M.S Palaniswami and Jayanta Tarafdar (2008) Pest and Diseases of Tuber Crops: Their Management and Plant quarantine. In Book: Tuber & Root Crops by M. S. Palaniswami and K. V. Peter; Horticulture Science Series – 9 published by New India Publishing Agency, New Delhi pp: 179 – 240 (Forwarded by Dr. M.S. Swaminathan and Dr. M. Rai (DG), ICAR 3. A. Chattapdhyay, J. Tarafdar and H. Sen, (2006) Performance of Indigenous Genetic Resources of Upland Taro (Eddoe Type) in gangetic plains of West Bengal. ROOT AND TUBER CROPS: In Nutrition, food security and sustainable Environment. Ed. Regional Centre, CTCRI, (ICAR), Bhubaneswar 61-63pp
Variety Release etc.	i) Elephant Foot Yam (EFY)(<i>Amorphophallus</i>

	<p><i>paeoniifolius</i>) Variety: BIDHAN KUSUM (BCA) Year of release: 2002</p> <p>ii. (BCC-1: IC- 361229 Year of release: 2011 (recommended by ICAR)</p> <p>iii) Swamptaro (<i>Colocasia esculenta var stoloniferum</i>) [BCST-13 (IC no. 592053)] Year of release: 2011 (recommended by ICAR)</p> <p>iv) Sweetpotato (<i>Ipomoea batatas</i>) Variety: KAMLA SUNDARI (Orange fleshed Sweetpotato) Year of release: 2008 (recommended by ICAR)</p> <p>v) Sweetpotato (<i>Ipomoea batatas</i>) Variety: BIDHAN JAGANNATH (90 – 101) Year of release: 2011 (recommended by ICAR)</p>
Courses teaching	Phytovirology-I – PPA-504 Phytovirology-II – PPA-558 Molecular Biology & Plant Viruses –PPA-703 Ecology, Epidemiology & Forecasting of plant virus diseases PPA-752
Research Projects/ supports	<p>A. Govt. of India funded projects -3</p> <p>A. Generation of Virus resistant rice for India: Diversifying Transgenic Resistance to popular varieties studying virus –host Interactions and new marker free Transgenics against Tungro disease (2nd PHASE) Deptt. of Biotechnology, Ministry of Science & Technology, GOI, Delhi</p> <p>B. Co-Nodal centre of Development of standards of DUS testing for varietal gene bank in elephant foot yam and taro Protection of Plant Varieties & farmers’ Rights Authority (PPV & FRA), Ministry of Agriculture, Govt. of India</p> <p>C. Diversity, Distribution and Genome Characterization of Whitefly-Transmitted Geminiviruses causing diseases of important crops in West Bengal and adjoining areas University Grant</p>

	Commission, New Delhi
	B. Non-Govt. funded projects- 12 (Twelve)
Number of Seminar/ symposium attended	International: 17 (India and Abroad- USA, Canada, UK, Japan, Indonesia, Thailand, Malaysia, Mauritius, Tanzania) National: 18
Laboratory strength, you work in	Established advanced laboratory facilities for research in plant science and molecular plant pathology and Plant Virus Diagnostic centre. Presently leading a research group with CTCRI (RC), ICAR, Delhi University (South Campus), Tamil Nadu Agricultural University, Kalyani University, West Bengal State University and as a consequence running the research project of DBT, UGC Govt. of India, Ministry of Agriculture, Govt. of India and corporate sectors funded projects.
Number of scholars, you are supervising	Awarded Ph.D. degree -5 (Five) PhD thesis submitted – 1 (One) Ph.D. fellows presently working – 7(Seven) M.Sc. Students Awarded- 9(Nine) Working- 2 (Two)
Additional duty in administration	Officer-in-Charge of All India Coordinated Research Project on Tuber Crops (Other than potato), ICAR, New Delhi since October 2004 and continuing.