

	
Name	Jayanta Tarafdar
Date of Birth	17 <sup>th</sup> 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
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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 13-14<sup>th</sup> 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 3<sup>rd</sup> to 8<sup>th</sup> February 1997 at Regional Sophisticated Instrumentation centre, Bose Institute sponsored by the Department of Science &amp; 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><b>i. Awarded National Biotechnology Associateship</b> by the Department of Biotechnology, Govt. of India (1995-1997); I was attached with in the Plant Molecular &amp; 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><b>ii. Awarded National Overseas Associateship</b> 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 <b>PR-Protein gene</b> (class I chitinase) from rice and <b>Green Fluorescent Protein (GFP)</b> as a reporter gene for resistant to fungal pathogen.</p> <p><b>iii. Society Award on Best Oral Paper</b> Presentation in the 14<sup>th</sup> International Symposium organized by <b>International Society for Tropical Root Crops (ISTRC), Natural Resource Institute (NRI), University of Greenwich, Chatham, U.K., CTCRI, ISRC and International Potato centre (CIP).</b></p> <p><b>iv. Winner of Generation Challenge Program (GCP) under Genotyping Support Service (GSS) by CGIAR in 2009 : Global program on Genotyping of Sweetpotato</b> and I am the only person from India got the award for doing genotyping of sweetpotato and development of virus resistance marker.</p> <p><b>v. Certificate of appreciation</b> for successfully running AICRP on Tuber Crops by Project Coordinator, CTCRI, ICAR, Trivandrum</p> <p><b><u>Invited / Guest lecturer in International Symposium:</u></b></p> <p><b>Jayanta Tarafdar (2011)</b> 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 &amp; Weed Science Society. BCKV, 24-27 Feb. 2011</p>
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	<p><b>Jayanta Tarafdar (2008)</b> delivered lecture on Present status of Rice Tungro virus disease in West Bengal: A case study for ten years. In: <b>International Conference on Virology, New Delhi</b></p> <p><b>Jayanta Tarafdar (2006)</b> delivered lecture on <i>Biolistic transformation and detection of jellyfish green fluorescent and chitinase proteins in indian basmati rice</i> in 11<sup>th</sup> IUPAC International Congress of Pesticides Chemistry organized by International Society of Organic Chemistry, held on 6-11<sup>th</sup> August 2006 at Kobe Japan</p> <p><b>Reviewer of Scientific publication in foreign journals;</b>  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 ( <b>Virology</b> )
Best 10 Publications with NAAS impact score > 5	<ol style="list-style-type: none"> <li>1) Somnath Roy, <b>Jayanta Tarafdar</b>, 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 <b>Journal of Genetics (Springer) 91, 213–218 (NAAS rating – 7.5)</b></li> <li>2) Somnath Roy, Amrita Banerjee, <b>Jayanta Tarafdar</b>, 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" <b>Journal of Agricultural Sciences, Cambridge, UK pp: 1-9 (NAAS rating – 7.7)</b></li> <li>3) Somnath Roy, Amrita Banerjee, <b>Jayanta Tarafdar</b>, Surajit Mitra (2012) Tuber quality assessment of orange-fleshed sweet potato cultivars and their genetic relatedness as</li> </ol>

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

	<p><i>paeoniifolius</i>)  Variety: <b>BIDHAN KUSUM (BCA)</b> Year of release: <b>2002</b></p> <p><b>ii. (BCC-1: IC- 361229</b>  Year of release: 2011 (recommended by ICAR)</p> <p><b>iii) Swamptaro (<i>Colocasia esculenta var stoloniferum</i>)</b>  <b>[BCST-13 (IC no. 592053)]</b>  Year of release: <b>2011 (recommended by ICAR)</b></p> <p><b>iv) Sweetpotato (<i>Ipomoea batatas</i>)</b>  <b>Variety: KAMLA SUNDARI (Orange fleshed Sweetpotato)</b>  Year of release: <b>2008</b> (recommended by ICAR)</p> <p><b>v) Sweetpotato (<i>Ipomoea batatas</i>)Variety:</b>  <b>BIDHAN JAGANNATH (90 – 101)</b> 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><b>A.Govt. of India funded projects -3</b></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 (<b>2<sup>nd</sup> PHASE</b>)  Deptt. of Biotechnology, Ministry of Science &amp; 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 &amp; farmers’ Rights Authority (PPV &amp; 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	<b>International: 17</b> (India and Abroad- USA, Canada, UK, Japan, Indonesia, Thailand, Malaysia, Mauritius, Tanzania) <b>National: 18</b>
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	<b>Awarded Ph.D.</b> degree -5 (Five) PhD thesis submitted – 1 (One) Ph.D. fellows presently working – 7(Seven) <b>M.Sc. Students</b> 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 <b>October 2004 and continuing.</b>