

RESUME

NAME: JAYANTA TARAFDAR

DESIGNATION: PROFESSOR

CONTACTS:

1. **OFFICIAL ADDRESS FOR CORRESPONDENCE:**

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3. **EMAIL :** Institutional: tarafdar.jayanta@bckv.edu.in
Alternative: jayanta94bckv@gail.com

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5. **GOOGLE SCHOLAR PROFILE:**

| | |
|-----------|-----|
| Citations | 537 |
| h-index | 13 |
| i10-index | 20 |

6. **RESEARCHGATE PROFILE:**

| | |
|-------------------------|-------|
| Research Interest Score | 322.7 |
| Citations | 191 |
| h-index | 8 |

7. **DATE OF BIRTH:** 17/10/1961

8. **DATE OF JOINING TO THE UNIVERSITY:** 10/09/1991



9. **ACADEMIC PROFILE:**

| LEVEL | NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT | INSTITUTE | YEAR OF PASSING |
|------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------|
| DOCTORAL | PhD in Plant Pathology Plant Virology | Bidhan Chandra Krishi Viswavidyalaya, India | 1995 |
| MASTER'S | M.Sc (Ag.) Plant Pathology Plant Virology | -DO- | 1988 |
| BACHELOR'S | B.Sc.(Agriculture) Group subjects with Agricultural Entomology & Plant Pathology specialization | -DO | 1985 |

10. **EMPLOYMENT HISTORY:(Starting from present position)**

| POSITION | ORGANIZATION | PERIOD | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|--------------|
| | | From (Date) | To (Date) |
| Assistant Professor ([Lecturer (Research)]) | Bidhan Chandra Krishi Viswavidyalaya, India | 10/9/1991 | 09/9/2000 |
| Associate Professor | Bidhan Chandra Krishi Viswavidyalaya, India | 10/9/2000 | 09/9/2008 |
| Professor | Bidhan Chandra Krishi Viswavidyalaya, India | 10/9/2008 | Present |
| Appointed in the Senior Scientist post, Plant Virology in ICAR-Directorate of Rice Research, Hyderabad by Agricultural Scientist Recruitment Board, GOI in 2000 under direct recruitment | | | Did not join |

11. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)

| SL. NO. | NAME OF THE POST(S)/ RESPONSIBILITY(IES) | PERIOD | |
|---------|-------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|
| | | From (Date) | To (Date) |
| 1. | Director of Research, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, WB, | 12 th September 2023 | 11 th March 2024 |
| 2. | Director of Research, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, WB, | 1 st June 2021 | 31 st October 2021 |
| 3. | Nodal Officer, ICAR Accreditation Bidhan Chandra Krishi Viswavidyalaya | 2020 | 2021 |
| 4. | Officer In-Charge of ICAR-All India Coordinated Research project on Tuber Crops, Kalyani Centre, BCKV | October 2004 | 22/11/2023 |

12. AREA OF RESEARCH : (Bulleted list)

Disease Management, Plant Virology & molecular Biology, Molecular basis of plant-pathogen-insect interaction, Crop Genomics, Diagnostics, Plant disease Resistance management

13. COURSES ASSOCIATED WITH:

| LEVEL | COURSE NO. | COURSE TITLE | CREDIT |
|----------------------|----------------|----------------------------------------------|------------|
| UNDERGRADUATE | | Plant Pathology Practical | 0+2 |
| POST GRADUATE | Plant Path 502 | Plant Virology | 2+1 |
| Ph.D. | Plant Path 602 | Advanced Virology | 2+1 |
| PhD | Plant Path 604 | Molecular Basis of Host Pathogen Interaction | 2+1 |

14. NUMBER OF STUDENTS SUPERVISED:

Master's. 26 (Twenty seven), Doctoral: 19 (Nineteen)

15. RESOURCE PERSON FOR OTHER INSTITUTES (involvement in teaching or working as member of academic/ research bodies of other organizations, if any)

Former Adjunct Professor, Central Agricultural University, Barapani, Umium, Meghalaya

Appointed as external examiner by the Universities:

- Visva-Bharati University, Shantiniketan, W.B.
- Department of Agricultural Sciences, Calcutta University, W.B.
- Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore
- Department of Botany, Vidyasagar University, W.B.
- Department of Botany, University of Kalyani, W.B.,
- Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam
- Dept. of Biotechnology, National Institute of Technology (NIT), Durgapur, W.B
- Centre for Post Graduate Studies (CPGS), Central Agricultural University (CAU), Umium 793103, Meghalaya
- Department of Plant Pathology, Central Agricultural University (CAU), Imphal, Manipur

- Department of Plant Pathology, Uttarbanga Krishi Viswavidyalayam Coochbihar, W.B.
- Department of Plant Pathology & Mycology, IARI, New Delhi
- Department of Molecular Biology, University of Delhi (South Campus), New Delhi

- Editor (Virology) of the journal of Indian Phytopathology (Springer) published by Indian Phytopathological Society, New Delhi

- Nominee as Expert of Agricultural Scientist Recruitment Board (ASRB), Indian Council of Research (ICAR) Research centre, Govt. of India for Screening and Assessment Committee for ARS Scientists

- Nominee of Hon'ble Deputy Director Group (Horticulture), ICAR, GOI for Departmental Promotion Committee of Agricultural Scientist Recruitment Board (ASRB), Indian Council of Research (ICAR) Research centre, Govt. of India.

- Nominee of Hon. Vice Chancellor, University of Kalyani, WB, India for Selection Committee of Professor of Botany, Microbiology and Biotechnology in the department of Botany, Microbiology and Biotechnology & Molecular Bio0logy..

- Nominee of Hon. Vice Chancellor, Uttar Banga Krishi Viswavidyalaya (State Agricultural University), Coochbehar, West Bengal, India for selection of Teachers and in CAS (Career Advancement Scheme) of the teachers in Plant Pathology

- Nominee of Hon. Vice Chancellor, Nagaland University, Dimapur for selection of Assistant and Associate Professor of Plant Pathology and promotion of teachers in CAS.
- Examiner of West Bengal Civil Service (Executive) Examination (Agriculture), Main **Public Service Commission (PSC), Govt. of West Bengal**

- External Member, Institutional Biosafety Committee (IBSC), Ramakrishna Mission Vivekananda Centenary College (RMVCC), DBT Star College, Rahara, West Bengal, India
- Examiner of several examinations conducted by PSC, Govt. of West Bengal
- Expert of several selection committee of PSC, Govt. of West Bengal
- Member, Project Review Committee, Directorate of Ayush, Govt of India
- Member, Project Review Committee, DBT, Govt of India

16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

Indian Virological Society, NASC, New Delhi, 2022
 Indian Phytopathological Society (IPS), IARI, New Delhi- 2019
 Indian Society of Root Crops, ICAR-CTCRI, Thiruvananthapuram
 Indian Society of Genetics Plant Breeding, New Delhi
 Crop and Weed Science Society, West Bengal
 Former Councilor, International Society of Tropical Root Crops (ISTRC) for South-East Asia, Greenwich, UK

17. PROJECT ACTIVITIES

| SL. NO. | TITLE OF THE PROJECT | FUNDING AGENCY | ONGOING/ COMPLETED | PI/ Co-PI |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|
| 1. | 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 (1 ST PHASE) [(A multi-institutional | Department of Biotechnology, Ministry of Science & Technology, Government of India, New Delhi | Completed | April 2006 to 2009 (Completed Phase –I) |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|
| | Collaborative project with Tamil nadu Agricultural University, Deptt. Of Genetics – Department of Plant Pathology, BCKV- Deptt. Of Plant Molecular Biology, Delhi University (South Campus)] | | | |
| 2. | 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 (1STPHASE) [(A multi-institutional Collaborative project with | Department of Biotechnology, Ministry of Science & Technology, Government of India, New Delhi | Completed | September 2011 (PhaseII) December 2015 |
| 3. | 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 | Completed | December 2012 to 2019 |
| 4. | Diversity, Distribution and Genome Characterization of Whitefly-Transmitted Gemini viruses causing diseases of important crops in West Bengal and adjoining areas | University Grant Commission, New Delhi | Completed | May 2012- December 2015 |
| 5. | The project entitled 'Detoxed grasspea: sustainable sustenance for stressful environments' Under CROPGENOMICS AND TECHNOLOGIES (CGAT): | Biotechnology, Biological Science Research Council (BBSRC), UK and Department of Biotechnology (DBT) Govt. of India. UK investigator: Dr Cathie Martin, Department of Metabolic Biology, John Innes Centre, UK Investigator in Indian: Dr. Jayanta Tarafdar, BCKV, Kalyani | Completed | Received the project in UK and India collaborate on future-proof crops 2014 to 2018 |
| 6. | Establishment of Advanced virus and other pathogens diagnostic and Testing Service Centre for Plant Propagation Materials for the benefit of the Farmers and Entrepreneurs in West Bengal | Funded by RKVY- RAFTAAR, GOI | Continuing | 2021 |

18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

A. ORGANIZED

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|-----------------------|----------|-------|------|
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B. ATTENDED

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | 7 days training on 'National level skill development workshop on Bioinformatic tools in Agriculture' for the benefit of Faculty members under NAHEP, ICAR. | 9 th March to 16 th March, 2021 | Assam Agricultural University, Jorhat | Resource person lecture topic: Bioinformatics applications in Plant Virus Genomics and protein modeling' "Virus diseases of Root and Tuber crops in Eastern India: Detection, virus-host interaction and management strategies" |
| 2 | "Use of biotechnological and conventional tools in understanding virus-host interactions" for the benefit of Faculty members under Centre for Advanced Faculty Training (CAFT), ICAR | 7th November to November 27, 2017 | Advanced Centre for Plant Virus Research, IARI, New Delhi | Resource person lecture topic: Virus diseases of Root and Tuber crops in Eastern India: Detection, virus-host interaction and management strategies |
| 3 | Three day online Orientation Course on IPM for Important Agricultural and Horticultural Crops of Uttar Pradesh for the SMSs of KVKs, field functionaries and progressive farmers. | January 6-8 2021 | ICAR-National Research Centre For Integrated Pest Management LBS Building, Pusa Campus, New Delhi-110012, | Resource person for lecture (January 8, 2021) Synthesis and validation of bio-intensive IPM technology in Pulses |
| | Three-day Orientation Course on IPM Important Agricultural and Horticultural Crops of West Bengal, Odisha and Andaman and Nicobar for the SMSs of KVKs, field functionaries and progressive farmers | 13-15 December 2018 | ICAR-ATARI- II Kolkata | Resource person for lecture Pulse Disease Management 15.12.2018 |
| | ICAR sponsored Winter School for the entry and middle level scientists/ Associate Professors /Assistant Professors/ | For 21 days January 2014 | Farmers Academy and Convention Centre, Bidhan Chandra Krishi | Resource person for lecture Knowledge gain in Crop Diversification and livelihood management: Role of |

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|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | SMS of KVKs | | Viswavidyalaya, Kalyani, WB | Root & Tuber crops and its agro-techniques |
| | -Do- | | Farmers Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, WB | Resource person for lecture Development of skills for diagnosis, disease management of Rice and maintaining health and safety of self and others at the work place |
| | ICARsponsored Winter School on “Role of precision farming in urban and peri-urban horticulture in the era of urbanization” for the entry and middle level scientists/ Associate Professors /Assistant Professors/ SMS of KVKs. | 4 th to 24 th January, 2019 (21days) | Farmers Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, WB | Resource person for lecture on Modern Concept of Plant health and disease management of Ornamental crops for the entrepreneur and flower exporter |

A. SEMINAR/ SYMPOSIUM/ WORKSHOP etc. ORGANIZED

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. | Organized Brain Storming Session on Agrochemicals and Seed Companies towards sustainable future for greater Food Production and Nutrition Security under Changed climate | One Day 6 th January 2024 | Farmers Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, WB | Director of Research and Organizing Secretary |
| 2. | Organized 23 rd Annual Group Meeting of ICAR-AICRP on Tuber Crops | 10-12 May 2023 | Farmers Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, WB | OIC of the project & Organizing Secretary |
| 3. | Organized the National Seminar on ‘Role of Plant Pathology in Global Environment and Food Security’ | 6-7th March 2022 | Farmers Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, WB | Zonal President and Organizing Secretary |
| 4. | The role of fungicides and insecticides in regulating biological activity pathogens and insects : implication for resistance management | | Directorate of Research Agricultural Research Complex Building (Online) | Director of Research and Organizing Secretary |
| 5. | Organized 16 th Annual Group Meeting of ICAR-AICRP on Tuber Crops | 24-26 May 2016 | Farmers Academy and Convention Centre, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, WB | OIC of the project & Organizing Secretary |

A. ATTENDED

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------|
| 1 | National Conference on Tropical Tuber Crops for Sustainability, Tradition, Agri-Food Systems & Resilience (NCTTC4STAR) Indian Society for Root Crops and ICAR-Central Tuber Crops Research Institute, Sreekariyam Thiruvananthapuram-695 017, Kerala | 28-29 November, 2023 | ICAR-Central Tuber Crops Research Institute, Sreekariyam Thiruvananthapuram | Lead Lecture |
| 2 | Climate Resilient Millet Production Technologies for Sustainable Agriculture (CRMPTSA-2023) | April 28-29, 2023 | College of Agriculture, Tripura | Lead Lecture |
| 3 | International Conference on Biotic and abiotic stress of crop plants and their sustainable management | 2 nd -3 rd February 2023 | Department of Plant Pathology, Visva Bharati, Sriniketan | Lead lecture |
| 4 | 30 th Annual convention-cum-International Conference of IVS "VIROCON 2022" on the theme "Emerging and Re-emerging Viral Infections Impacting Humans, Animals, Plants, Fish and Environment" | November 05-06, 2022 | SKUAST-K, Srinagar | Received IVS Award and Lecture |
| 5 | 8 th Indian Phytopathology International Conference (hybrid mode) on "Plant Pathology: Retrospect and Prospects | March 23-26, 2022. | Sri Karan Narendra Agriculture University, Jobner-Jaipur, Rajasthan | Lead lecture (Physical mode) |
| 6 | IPS Platinum Jubilee Lecture Series | October 13, 2021 - March 23, 2022 | IPS, IARI, New Delhi (Online) | Special Lecture March 6, 2022. |
| 7 | 7 th Indian Phytopathology- National Symposium - Recent Challenges and Opportunities in Sustainable Plant Health Management (RCOSPHM) 2019 organized by Indian Phytopathology | 26 th to 28 th February 2029 | BHU, Varanasi | Lead Lecture |
| 8 | 6 th Indian Phytopathology -Plant Health Management: Embracing Eco-Sustainable Paradigm organized by Indian Phytopathology | February 15-17, 2018 | Assam Agricultural University, Jorhat | Invited Lecture |
| 9 | National Symposium on Recent Advances on Floriculture and Urban Horticulture in Global Perspective, | Three days 2018 | Farmers Academy & Convention Centre, BCKV, Kalyani | Lead Lecture |
| 10 | Attended Global Meeting on the project funded by the DBT-BBSRC,UK Held at JIC, Norwich, UK | 6 th to 12 th October 2016 | John Inns Centre, Norwich, UK | Project report and Lead Lecture |

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| 11 | World Biodiversity Congress (WBC-2014), Colombo, Sri Lanka held on 24 th to 27 th November 2014 at Colombo. Jointly organized by Global Scientific Research Foundation (GSRF), University of Colombo and Rajarata University, Sri Lanka. | 22-27 th November 2014 | Colombo, Srilanka | Lead Lecture |
| 12 | World Biodiversity Congress (WBC-2013), Chiang Mai, Thailand | 23-28 th November 2013 | Chiang Mai, Thailand | Lead Lecture |
| 13 | 21 st International Pepper Conference at Florida University, USA; organized By International Society for Horticultural Sciences (ISHS) | 4-6 th November 2012 a | Naples Grande, Florida Naples, USA | Invited Lecture |
| 14 | “Shifting patterns of major and minor rice diseases as function of climate change and develop road map to address the issue” | 23-25 January 2012 | At CRURRS, ICAR, Hazaribag | Lead Lecture |
| 15 | Global Conference on AROIDS Opportunities and Challenges organized by CTCRI (Regional Centre, CTCRI, ICAR), ISRC | 13 th -17 th March 2011 (five days) | Bhubaneswar, Odisha, India | Invited Lecture |
| 16 | 1 st ISHS (International Society of Horticultural Sciences) Symposium on Sustainable Vegetable Production in South East Asia, | 24 th to 27 th February 2011 (Four Days) | Salatiga, Central Java, Indonesia | Invited Lecture |
| 17 | International Symposium on System Intensification Towards Food & Environment Security organized by Crop and Weed Science Society (CWSS), BCKV | 16 th - 18 th September 2010 (Three days) | BCKV, Kalyani, W.B. India | Invited Lecture |
| 18 | International Conference of Environmental Research organized by Mauritius University & Journal of Environmental Research & Development | 25 th -27 th August 2010 (Three days) | University of Mauritius, Reduit, Mauritius | Invited Lecture |
| 19 | 16 th Asian Agricultural Symposium & 1 st International Symposium on Agricultural Technology “ Sufficiency Agriculture” organized by King Mongkut’s Institute of Technology, Thailand & Tokai University, Japan | 13 th to 13 th November 2009 (Four Days) | King Mongkut’s Institute of Technology, Ladkrabang, Bangkok Thailand | Invited Lecture |
| 20 | 5 th International Conference on Plant Pathology in the Globalized Era organized by Indian Agricultural Institute, New Delhi | 13 th to 13 th November 2009 (Four Days) | IARI, New Delhi | Poster and oral Lecture |
| 21 | 5 th International Weed Science Congress organized by International Weed Science Society, Canadian weed Science Society & Weed Science Society of America | 23 rd to 27 th June 2008 (Five days) | Vancouver B.C, Canada | Invited Lecture |
| 22 | International Conference on Emerging and Re-Emerging of Viral Diseases in Tropics | 11 th to 14 th December 2007 (Four Days) | IARI, New Delhi | Invited Lecture |

| | &Sub-Tropics | | | |
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| 23 | International Seminar on Biotechnology Approaches for Alleviating Malnutrition and Human Health, 18organized by USAID, PURDUE University, USA and Agricultural University of Bangalore, India | 9 th to 11 th January2006 (Three Days) | University of Agricultural Sciences, GKVK, Bangalore | Invited Lecture |
| 24 | Golden Jubilee International Symposium organized by Indian Mycological Society, University of Calcutta | 23 rd – 25 th February2006 (Three days) | Hotel Golden park, Ho Chi Min Sarani, Kolkata | Invited Lecture |
| 25 | 11 th IUPAC International Congress of Pesticides Chemistry organized by International Society of Organic Chemistry | 6 th to 11 th August2006 (Six days) | Kobe, Japan | Invited Lecture |
| 26 | 14 th TriennialSymposiumof the International Societyfro Tropical Root Crops (ISTRC) organized by ISTRC, UK, CTCRI, ICAR &ISRC, Trivandrum | 20 th to 26 th November 2006(Seven Days) | Central Tuber crops Research Institute (CTCRI), Trivandrum | Invited Lecture |
| 27 | 2 nd International Symposium on Sweetpotato and Cassava organized by Malaysian Agricultural Research and Development Institute (MARDI) and International Society for Horticultural Science (ISHS). | 14 th to 17 th June 2005 (Four days) | Corus Hotel, Kuala Lumpur, Malaysia | Invited Lecture |
| 28 | First International Weed Science Seminar on Innovative Approaches for Eco-Safety Weed management organized by Crop and Weed Science Society (CWSS), BCKV | 21 st to 24 th January2005 (Four Days) | Hotel Peerless Inn, Kolkata | Invited Lecture |
| 29 | 13 th TriennialSymposiumof the International Society of Tropical Root Crops (ISTRC) | 9 th to 15 th November 2003(Seven Days) | Arusha, Tanzania | Invited Lecture, poster, oral |
| Attended and presented other several National Seminar/Symposium/Conference in different Universities and Institutes in India | | | | |
| Biennial/Annual Group Meeting of ICAR-AICRP Tuber Crops: (Attended and presented the progress of work in the Workshop/ Annul Group Meeting. (ICAR-AICRP on Tuber Crops) | | | | |
| <ol style="list-style-type: none"> 1. VI BiennialGroupMeetingofTuberCrops1999-2000/2001-2002heldon3rdto5thOctober 2001at IGKV, Jagaddalpur, Chhatrishgarh 2. VII Biennial Group Meeting of Tuber Crops2003-2003&2003-2004heldon24th& 25th May 2003 at central Tuber Crops Research Institute (CTCRI), Trivandrum, Kerala 3. VIII Biennial Group Meeting of Tuber Crops2004-2005&2005-2006heldon4thto6th May, 2006 at NDAUT, Kumarganj, Faizabad, UP 4. IX Biennial Group Meeting of Tuber Crops 2006-2007 &2007-2008heldon21st to23rd December 2007 at Navsari Agricultural University, Gujrat 5. X Biennial Group Meeting of Tuber Crops2008-2009and2009-2010heldon9thto11th October 2009 at OUAT, Odisha 6. XIAnnual Group Meeting2010-2011 heldon11thto 13thMarch2011atTNAU, Coimbatore, TN 7. XII AnnualGroupMeeting2011-2012heldon18thto20thJune2012atNPUAT, Udaipur, Rajashthan 8. XIII Annual Group Meeting in May AAU, Jorhat 2013 9. Mid-term Review Meeting of AICRP Tuber crops, October 2014 CTCRI Regional centre Bhubaneswar 10. XIVAnnual Groupmeetingin May23-262014atRAU,Ranchi 11. XV Annual Group Meeting in May24-26 2015 at VR Gudem, Telengana | | | | |

12. XVI Annual Group Meeting, held at BCKV, Kalyani, WB. 24-26th May 2016
13. XVII Annual Group Meeting, held on 28-30 April 2017 at UHSC, Bagalkot, Karnataka
14. XVIII Annual Group Meeting, held on 28-30 April 2018 at ICAR-CTCRI, Trivandrum
15. XIX Annual Group Meeting, held on 26-28 May 2019 at ICAR-CTCRI, Trivandrum
16. XX Annual Group Meeting, held on 26-28 June 2020 (Online)
17. XXI Annual Group Meeting, held on 22-23 May 2021 (Online)
18. XXII Annual Group Meeting, held on 11-13 May 2022, ICAR-NEH Region, Barapani, Umium, Meghalaya
19. XXIII Annual Group Meeting, held on 10-12 May 2023, Bidhan Chandra Krihi Viswavidyalaya, Kalyani, India

Evaluation of Project work under five years plan period

- I. QRT Report 1999-2004, CTCRI
- II. QRT Report 2005-2009 at BCKV during my officer in-charge ship
- III. QRT Evaluation 2009-2014 at Bhubaneswar during my officer in charge ship

19. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- Received Dr. T.S. Thind Distinguished Plant Pathologist Award, Indian Society of Plant Pathologists, Punjab Agricultural University, 2023
- Fellow of Indian Virological Society, NASC, New Delhi, 2022
- Fellow of Indian Phytopathological Society (IPS), IARI, New Delhi- 2019
- Former President of Indian Phytopathological Society (IPS), East Zone (2021-2022 elected)
- Former Councilor, International Society of Tropical Root Crops (ISTRC) for South-East Asia, Greenwich, UK.
- Awarded Best Performing Centre of Tuber Crops in 2013 by ICAR under my leadership of the project-AICRP on Tuber Crops, Kalyani Centre, ICAR, BCKV
- Awarded Gold Medal in 2016 for Best Scientific contribution, offered by the Crop & Weed Science Society, BCKV.
- Awarded Best Achievement 2014 in World Biodiversity Congress (WBC-2014), Colombo, Sri Lanka held on 24th to 27th November 2014 at Colombo. Jointly organized by Global Scientific Research Foundation (GSRF), University of Colombo and Rajarata University, Sri Lanka.
- Awarded Best Senior Scientist 2013 in World Biodiversity Congress, at Raja Bhat University, Chiang Mai, Thailand in World Biodiversity Congress held on 26th to 29th November 2013
- Received Best Presentation award 2006 in the 14th International Symposium organized by International Society for Tropical Root Crops (ISTRC), Natural Resource Institute (NRI), University of Greenwich, Chatham, U.K., Central Tuber Crops research Institute (CTCRI), ICAR, Indian Society of Root Crops (ISRC) and International Potato centre (CIP), Peru

Technology:

- Okra is the 2nd important vegetable crop in India. The begomovirus species, Bhendi Yellow vein Mosaic Virus (BYMV) and Okra Enation Leaf Curl Virus (OELCuV) are the major constraint for okra cultivation across the country. Highly reliable novel molecular technique has been developed for rapid screening of resistant/susceptible varieties of okra. The technology is based on the Real Time (qPCR) based detection of viral copies (BYVMV and OELCuV) inoculated by single whitefly using a unique leaf detach assay method. The number of viral copies ingested and egested by individual whitefly which has not been studied yet. This finding will have important implications in screening of virus resistant/susceptible breeding lines of okra and further and controlling the diseases caused by this virus (Published in Plos ONE & Patent is under formulation).
- Technology on Site Specific Nutrient management of Elephant foot Yam (ICAR-Central Tuber Crops Research Institute, Kerala & AICRP centres) documented in the Indian Journal of Agricultural Sciences (National Recommendation).
- First time notified DUS (Distinctiveness, Uniformity and Stability) guidelines of Elephant Foot Yam and Taro under PPV & FRA project, Ministry of Agriculture, GOI which has been notified by the Ministry of Agriculture, GOI, New Delhi.

Variety Developed:**Crop Varieties Released for high yielding and resistant to disease—Twelve**

(Elephant Foot Yam(EFY)(*Amorphophallus paeoniifolius*)

Variety: Bidhan Kusum(BCA-1) Year of release:2002

- i. BCA-3 (ICVo.592086) Year of release:2014

Upland taro(*Colocasia esculenta var antiquorum*)

- i. Bidhan Chatanya[(BCC-1:IC-361213)] Year of release:2000

- ii. Bidhan Joydeb Year of release 2002

- iii. (BCC-17:IC-3612290) Bidhan Kachu Year of release:2011

- iv. Swamp taro (*Colocasia esculenta var stoloniferum*)[BCST-13(ICNo.592053)]–
Bidhan Latika Year of release: 2011

- v. Banda Taro (*C. esculenta var esculenta*) BCB-2(ICNo.592038) Year of release:2016

- vi. Upland taro-Three lines have been recommended in 2019

Sweet potato(*Ipomoea batatas*):

Kamla Sundari (Orange Fleshed Sweet potato Accession No.IC598243) Year of release:2008

Bidhan Jagannath (90 – 101) Year of release: 2011

20. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY (Bulleted list):

- Received the project in UK and India collaborate on future-proof crops 2014. The project entitled ‘Detoxed grass pea: sustainable sustenance for stressful environments’. Under **CROP GENOMICS AND TECHNOLOGIES (CGAT)**: Biotechnology, Biological Science Research Council (BBSRC), UK and Department of Biotechnology (DBT) Govt. of India, UK investigator: Dr Cathie Martin, Professor, Metabolic Biology, John Innes Centre, UK. Indian investigator: Dr Jayanta Tarafdar, Professor, Dept. of Plant pathology, Bidhan Chandra Krishi Vishwavidyalaya, West Bengal, India
- Participated in Panel discussion in the program ‘A Decade of India-UK Research and Innovation Partnership’ Organized by UK-RI, DBT, GOI at Taj Mahal Hotel, New Delhi on 25th October 2018 invited by British High Commissioner, New Delhi
- Attended the program on Inspiring Change: Impact of the UK-India research partnership on 16th March 2016 held at Hotel Oberoi Grand, Kolkata, India; I have been invited by the British Deputy High Commissioner, Kolkata and the program was organized by Research Council, UK and British Deputy High Commission.
- Long collaboration with International Potato Centre (CIP), Peru

21. PUBLICATIONS

A. BOOKS

B. BOOK CHAPTERS (Best 10):

1. Mritunjoy Barman, Snigdha Samanta, Bulbul Ahmed, Soumik Dey, Swati Chakraborty, Deeksha M. G., Subham Dutta, Arunava Samanta, Jayanta Tarafdar and Deepayan Roy (2023). Transcription dynamics of heat-shock proteins (Hsps) and endosymbiont titres in response to thermal stress in whitefly, *Bemisia tabaci* (Asia-I). In e-Book: Abiotic stress and physiological adaptive strategies of insects *Frontiers in Physiology*. Edited by Seema Ramniwas, Divya Singh, Girish Kumar and Pankaj Kumar Tyagi, May 2023. ISSN 1664-8714, SBN 978-2-8325-2462-6, DOI 10.3389/978-2-8325-2462-6
2. Swati Chakraborty, Subham Dutta, Snigdha Samanta, Sarbani Das, Mritunjoy Barman and Jayanta Tarafdar. Characterization of begomoviruses and DNA satellites associated with tomato. In the Book: *Geminivirus: Detection, Diagnosis and Management*. Chapter 14; Pp-217-236 Edited by R.K. Gaur, Pradeep Sharma and Henryk Czosnek. Academic Press is an imprint of Elsevier 125 London Wall, London EC2Y 5AS, United Kingdom 525 B Street, Suite 1650, San Diego, CA 92101, United States 50 Hampshire Street, 5th Floor, Cambridge, MA 02139, United States The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, United Kingdom, ISBN: 978-0-323-90587-9
3. Compendium of Vegetable Crops Diseases (including EFY and Taro) : Authors: Pratibha Sharma, K. K. Pandey, Govind Pratap Rao, Dinesh Singh, Sanjeev Sharma, Jayanta Tarafdar, Pranab Dutta, Prashant Jambhulkar, Vinay Sagar, Ravinder Kumar, Rahul, Tiwari, Aarti Bairwa. Published by Indian Phytopathological Society, IARI, New Delhi (2022); ISBN Number: 978-81-953723-2-4
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8. Sambit Dutta, Abhijit Sarkar, Jayanta Tarafdar and Ashim Chowdhury (2014) Sheath Blight of Rice: Epidemiology, Control management. Chapter in Book: *CHDR Science Vol: 1*, Edited by Sanjiv Kumar Rana published by Radiance, Renaissance Publishers Pvt. Ltd. Kolkata. pp 59-68
9. 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.
10. 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

C. RESEARCH PAPERS (Best 10)

1. Priyadarshani P. MOHAPATRA, Mahmoud F. SELEIMAN, Rupsanatan MANDAL, Kartik PRAMANIK, Tapan Kumar MAITY, Jayanta TARAFDAR, Subhashree P. DAS, Chandini A. RAJ, Chinmaya JENA, Mekhled M. ALENAZI, Sumit SOW, Shivani RANJAN, Awais AHMAD, Harun GITARI, Naeem KHAN (2023). Efficiency of RAPD and SSR markers in assessing genetic diversity in summer onion (*Allium cepa* L.) genotypes. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. Vol.51(3): 13369, Pp 1-13. <https://doi.org/10.15835/nbha51313369>
2. Snigdha Samanta, Mritunjay Barman, Amitava Banerjee, Gourango Upadhyay and **Jayanta Tarafdar**(2023) Evidence of population expansion and insecticide resistance mechanism in invasive Fall Armyworm (*Spodoptera frugiperda*). **BMC Biotechnology** **23:17**. <https://doi.org/10.1186/s12896-023-00786-6>.
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11. Snigdha Samanta, Mritunjoy Barman, Swati Chakrobarty, Amitava Banerjee, **Jayanta Tarafdar** (2021). Differential Expression Pattern of three sHsps in the newly invasive pest FAW, *Spodoptera frugiperda* in India. **Heliyon**. 7 (2021) Pp. 1-706906. <https://doi.org/10.1016/j.heliyon.2021.101616>.
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19. Amrita Banerjee, Somnath Roy, **Jayanta Tarafdar**, (2011). Phylogenetic analysis of Rice tungro bacilliform virus ORFs revealed strong correlation between evolution and geographical distribution **Virus gene** (2011) 43:398–408.
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Signature with Date