

RESUME

Apurba Kumar Chowdhury

Professor

CONTACT DETAILS

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OFFICIAL ADDRESS : Department of Plant Pathology
Uttar Banga Krishi Viswavidyalaya
Pundibari, Coochbehar, West Bengal, India, 736165

2. DATE OF BIRTH : 2nd August, 1962

3. Academic Qualification :

Examination or Degree or Diploma	Board / University	Year of		% of marks Obtained /OGPA * (with scale)	Class / Division	Subject with Specialization at Master degree level and onward
		Admission	Passing out			
Secondary	WBSSE	1972	1978	60.2	1st	
Higher Secondary	WBHSC	1978	1980	60.7	1st	
Graduation	B.C.K.V	1981	1985	77.7	1st	
Master Degree	B.C.K.V	1985	1987	3.83	1st	Plant Pathology, Microbiology
Doctoral Degree	B.C.K.V,		1991	By Thesis		Plant Pathology

4. Award for PhD Thesis : J.L.Nehru Award by ICAR

5. Experience (Experience and Professional)

a. As Teacher/Researcher

Sl. No.	Employer	Post held	Pay scale	Period of employment		Actual duration
				From	To	
1	Department of Biotechnology, Ministry of Science & Technology, Govt. of india	Senior Scientific Officer, Gr.II	2200-4000	Feb, 1991	Sept, 1991	9 months

2.	Bidhan Chandra Krishi Viswavidyalaya, Coochbehar, W.B.	Lecturer in Plant Pathology	2200-4000	Feb, 1991	Jan,2000	9 Years
3.	Uttar Banga Krishi Viswavidyalaya, Coochbehar, W.B.	Reader in Plant Pathology	12000-18300	Feb, 2000	Jan, 2008	8 Years
4.	Uttar Banga Krishi Viswavidyalaya, Coochbehar, W.B.	Professor in Plant Pathology	37000-67000	Feb, 2008	Till date	17 Years
5.	Uttar Banga Krishi Viswavidyalaya, Coochbehar, W.B.	Dean ,Faculty of Agriculture	Scale 14	Nov,2010	Feb,2015	4 years 4 months
6	Uttar Banga Krishi Viswavidyalaya, Coochbehar, W.B.	Head, Department of Plant Pathology	Scale 14	Sept, 2018	Sept, 2022	4 Years
7	Uttar Banga Krishi Viswavidyalaya, Coochbehar, W.B	Dean, Post Graduate Studies	Scale 14	Dec, 2022	Continuing	

b. As Unit Head : i) Head, Department of Plant Pathology (2018-2022)

c. As Establishment Head : i) Dean, Faculty of Agriculture (2010-2015)

ii) Dean, Post Graduate Studies (2022-till date)

d. As Project PI:

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsoring / Funding organization	Amount of Fund mobilised (Rs. In lakhs)
		From (DD/MM /YYYY)	To (DD/MM/ YYYY)		
Bio-efficacy and phytotoxicity of Cyflufenamid 3% + Difenconazole 12% EW against Powdery Mildew (<i>Leveillula taurica</i>) die back and Anthracnose (<i>Colletotrichum capsici</i>) disease in chilli crop	PI	2024	2025	Dhanuka Agritech Limited	4.90 Lakh

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsorin g / Funding organization	Amount of Fund mobilise d (Rs. In lakhs)
		From (DD/MM /YYYY)	To (DD/ MM/ YYYY)		
Bio-efficacy & phytotoxicity of Ipflufenquin 10% + Azoxystrobin 22.5% WG against Blast disease (Leaf & Panicle) (<i>Pyricularia oryzae</i>) & Grain discolouration of Paddy	PI	2023	2024	Bharat Certis Agriscience Pvt.Ltd	6.30 lakh
Evaluation of IMCS F3 WG against Blast (<i>Pyricularia oryzae</i>), Sheath blight (<i>Rhizoctonia solani</i>) & Grain Discoloration in Rice	PI	2023	2024	IFFCO-MC Crop Science Private Limited	4.90 Lkah
Transforming agrifood systems in EGP	PI	2021	2016	Australian Centre for International Agricultural Research	1.10 Crore
Development of blast resistance non basmati aromatic rice for northern parts of Bengal	PI	2019	2024	ICAR	2.23 Crore
Promotion of integrated farming with introduction of organic farming concept and mushroom cultivation and its value addition in North Bengal	PI	2018	2021	DBT, GOI	44.86 Lakh
Sustainability and Resilient Farming Systems Intensification in EGP	CCPI	2012	2022	ACIAR	3.02 Crore
Enhancing pulse production for food and nutritional security, improved livelihoods and sustainable agriculture in West Bengal	PI	2017	2019	ICARDA	55.06 Lakh
Identification of morphological and molecular markers against spot blotch of wheat	CCPI	2012	2016	CRP	45000 USD
Increasing food legumes production by small farmers to strengthen food and nutrition security through adoption of	CCPI	2011	2015	OCP Foundation	61.23 Lakh

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsoring / Funding organization	Amount of Fund mobilised (Rs. In lakhs)
		From (DD/MM/YYYY)	To (DD/MM/YYYY)		
improved technologies and governance within south-south cooperation					
CSISA, Obj 4	CCPI	2010	2015	USAID	15000 USD
Phenotyping of mapping populations at hot spots and tagging of major QTLs associated with spot blotch resistance in wheat	CCPI	2011	2015	DBT, GOI	23.46 lakh
Establishment of Rural Bioresource Complex in North Bengal	PI	2011	2016	DBT, GOI	94.50 Lkh
On Farm Plant Protection Advisory service	PI	2010	2014	RKVY	44.84 Lakh
Establishment of Plant Health clinic	PI	2007	2009	NHM	22.00 lakh
Increasing Wheat production and building up of research capabilities in warmer areas and eastern India	CCPI	2001	2005	ICAR	23.02 Lakh

d. As Project Co-PI:

Title of the project	Capacity (PI/Co-PI or other)	Period		Sponsoring / Funding organization	Amount of Fund mobilised (Rs. In lakhs)
		From (DD/MM/YYYY)	To (DD/MM/YYYY)		
Management of Bacterial wilt of tomato and Brinjal under Terai zone of West Bengal	CoPI	2001	2003	ICAR	11.13 lakh
RKVY project on Climate Change	CoPI	2010	2012	RKVY	70 lakh
RKVY on Conservation Agriculture	CoPI	2010	2012	RKVY	26 lakh

II. TEACHING EXPERIENCE

Sl. No.	Item	Details	Years
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1.	Graduation level	Plant Pathology	34 years
2.	Masters' level	Plant Pathology	29 years
3.	Doctoral level	Do	25 years
4.	Ph.D Student Guidance	8	
5.	M.Sc. Student Guidance	9	
6.	Innovation of Teaching Methods	4	

a) Professional Trainings

Details of the programme	Level (Local / National / International)	Period	
		From (DD/MM/YYYY)	To (DD/MM/YYYY)
Training at national level			
Training course on Soil Health and Crop Disease Management (Dec 02-22,2006) at Centre of Advanced Studies in Plant Pathology, G.B.Pant University of Agriculture and Technology – 21 days	National	02/12/2006	22/02/2006
Training course on Wheat Breeding approaches in Eastern India (18-25th Dec, 2004) organised by Directorate of Wheat Research and Banaras Hindu University	National	18/12/2004	25/12/2004
Training at International level			
Strengthening partnership and networks in agricultural research for development at ICRIAT, Hyderabad organised by International livestock research Institute (ILRI) and IRRI	International	22/09/2009	24/09/2009
Molecular Approaches of wheat breeding at CIMMYT, Mexico, March 20-26, 2009	International	20/03/2009	26/03/2009

b) Seminars/Symposiums/Workshops

- i) Das,A.R, **Chowdhury,A.K.**and Sinha,A.K(1989).Effect of chitosan on fungal diseases of rice and groundnut. Indian Phytopathology,42:308
- ii) **Chowdhury,A.K.**and Sinha,A.K.(1989). Differential effects of root exudates and extracts from chickpea cultivar on vascular wilt pathogen, *Fusarium oxysporum f.sp.ciceri*, Indian Phytopathology,42:309.
- iii) **Chowdhury,A.K.**(1996). Control of Bacterial wilt of ginger by chemicals. Indian journal of Mycology and Plant Pathology,26:125.
- iv) **Chowdhury,A.K.**and Sinha,A.K.(1996). An alternative approach for the chemical control of Fusarium wilt of chickpea. National Symposium on economically important plants of eastern India and their management, North Bengal University, Siliguri, 27-28th Dec.Pp19.
- v) **Chowdhury,A.K.**and Sinha,A.K.(1997). Chitosan , a senitizer for Sclerotium resistance in groundnut. Indian phytopathological society- Golden jubilee International conference, Nov.10-15, New Delhi. Pp136.
- vi) Mitra,P and **Chowdhury,A.K.**(1998). Non-conventional compounds induce resistance in selected crop plants against their fungal pathogens.5th West Bengal State Science Congress. Siliguri, March 21-23. pp161.
- vii) Mitra,P and **Chowdhury,A.K.**(1998). Non-conventional compounds induce resistance in selected crop plants against their fungal pathogens.5th West Bengal State Science Congress. Siliguri, March 21-23. pp161
- viii)**Chowdhury,A.K.**,Bandyopadhyaya,S.and Gyanendra Singh,(2002). Resistance to foliar blight of wheat in terai agro-ecological zone of West Bengal. 2nd International group meeting on wheat technologies for warmer areas. Sept,23-26,agarkar research Institute, Pune.pp139-140.
- ix) **Chowdhury,A.K.**, Bandyopadhyaya,S., singh,Gyanendra, Singh,D.P. and Laha,S.K.(2003). Evaluation of foliar blight resistance of wheat in North Bengal. IPS Zonal meet cum symposium om microorganisms in relationto grop health in Eastern India. BCKV, Nadia, Nov.18-19,2003. pp24
- x) S.Bandyopadhaya,S.,**Chowdhury,A.K.**,Laha,S.K.and Singh Gyanendra (2003). Response of wheat lines to foliar blight and biochemical changes associated with infection. 5th National symposium on Current trends in research on microorganisms. Indian mycological Society and University of Calcutta, Calcutta,Feb15-16,pp32
- xi) **Chowdhury,A.K.**, Chakraborty,P.,Sharma,M. and Chakraborty,B.N. (2004).Induction of resistance in rice plants against rhizoctonia solani and associated changes in defence enzymes. National symposium on Current Perspectives in Stress Biology. University of North Bengal, Siliguri,Feb6-8.,pp22.
- xii) **Chowdhury,A.K.**, Ali,s., Mullick,S.and Laha,S.K.(2004). Integrated management of bacterial wilt disease of tomato. National symposium on Current Perspectives in Stress Biology. University of North Bengal, siliguri,Feb6-8.,pp25
- xiii)**Chowdhury,A.K.**,Bandyopadhyaya,S.,Garain,P.,Mukherjee,S.and Singh, D.P.(2004). Occurrence of foliar blight disease of wheat in terai belt of West Bengal. National symposium on Current Perspectives in Stress Biology. University of North Bengal, Siliguri,Feb 6-8.,pp26.

- xiv) Chowdhury, A.K.** (2005). National symposium on Crop Disease Management in Dryland Agriculture and Annual Meeting of IPS, Marathwada agricultural University, Jan, 12-14, pp – **INVITED LECTURE**
- xv) Mukherjee, S., Das, J., Bhattacharya, P.M. and **Chowdhury, A.K.** (2006). Evaluation of elite wheat germplasm for foliar blight (*Bipolaris sorokiniana*) resistance in northern districts of West Bengal. 58th Annual meeting of IPS and National symposium on emerging plant diseases, their diagnosis and management. University of North Bengal, Siliguri. Jan 31-Feb 2. pp 49-50.
- xvi) Laha, S.K. and **Chowdhury, A.K.** (2006). Controlling bacterial wilt of tomato in eastern India: a holistic approach. 58th Annual meeting of IPS and National symposium on emerging plant diseases, their diagnosis and management. University of North Bengal, Siliguri. Jan 31-Feb 2. pp 85. – **Invited lecture.**
- xvi) **Chowdhury, A.K.**, Mitra, P. and Chakraborty, B.N. (2007). Serological changes associated with induction of resistance in soybean plants following treatment with phytoalexin inducers. National symposium on Plant protection-Technology interface association for advancement in Plant Protection, Kalyani, Dec 28-29, 2007, pp 94-95
- xvii) Sarkar, B., Roy, A. and **Chowdhury, A.K.** (2007). Biocidal activity of newly synthesized organotin compounds against foliar blight of wheat. National symposium on Plant protection-Technology interface association for advancement in Plant Protection, Kalyani, Dec 28-29, 2007, pp 63-64
- xviii) **Chowdhury, A.K.** (2007). Role of seed treatment, biopesticides and biofertilizers in potato cultivation. State level meeting, Falakata, Oct, 12.
- xix) Member of Monitoring team for CIMMYT/IRRI activities at Bangladesh. September 17-23, 2008.
- xx) **Chowdhury, A.K.**, Khan, A.R., Singh, S.S., Bhattacharya, P. (2009) Projects accomplishments of USAID in Eastern India. 2-3 Feb, NASC, New Delhi
- xxi) Chowdhury, A.K., Mukherjee, P., Bhattacharya, P.M., Kundu, S., Mandal, D. and Rudra, B. (2009). Conservation agriculture in Northern parts of West Bengal- Constraints and opportunities, 4th World Congress on Conservation Agriculture, Feb, 4-7, pp 116.
- xxii) Bhattacharya, P.M., **Chowdhury, A.K.**, Mukherjee, P., Kundu, S., Mandal, D. and Rudra, B. (2009). Impact of bioinoculation on microbial activity and disease incidence under conservation tillage in terai agro-ecological zone of West Bengal, 4th World Congress on Conservation Agriculture, Feb, 4-7, pp 178.
- xxiii) Mukherjee, P., Bhattacharya, P.M., **Chowdhury, A.K.**, Kundu, S., Mandal, D. and Rudra, B. (2009). Shifting of weed flora and their management in Rice-Wheat cropping system under conservation tillage in terai agro-ecological zone of West Bengal, 4th World Congress on Conservation Agriculture, Feb, 4-7, pp 416.
- xxiv) Attended Technical workshop of Borlaug Global Rust Initiative at Obregon, Mexico, March, 17-20, 2009

- xxv) Attended and presented the activities of UBKV for CSISA Project at CIMMYT, Mexico. March 13-16, 2009
- xxvi) Attended CSISA launching workshop at CIMMYT, South Asia, Nepal September 13-17, 2009.
- xxvii) Attended 1st CSISA workshop at CIMMYT, South Asia, Nepal September 12-15, i. 2010.
- xxviii) Attended 2nd CSISA review Workshop at Kathmandu. Nepal , September 6-10, 2011
- xxix) Attended 2nd CSISA review Workshop at Kathmandu. Nepal , Dec , 2012
- xxx) National Symposium at Institute of Agril Sciences, Sriniketan as Lead Speaker (2012)
- xxxi) National Symposium at NBU as Lead Speaker (2011)
- xxxii) International Seminar on Conservation agriculture at Beijing, China 20-22th Nov, 2012 as Invited Speaker
- xxxiii) Thapa,A, Rai,A, Chowdhury,A.K.,Bhattacharya,P.M., Ranjana Devi,M., and Rai,R (2016) To study the association of meteorological parameters during crop growth and development of spot blotch (*Bipolaris sorokiniana*) disease in wheat. 6th International Conference “plant, Pathogens and People” pp335
- xxxiv) Sahu,R, Sharaff,M.,Pradhan,M,Sethi,A.,Bandopadhyay,T.,Chand,R.,Chowdhury,A.K., Joshi,A.K.,and Pandey S. (2016). Understanding the defence related mechanism during wheat-spot blotch interaction. 6th International Conference “plant, Pathogens and People” pp302
- xxxv) Dolpriya Devi,M., Bhattacharya,P.M.,Ranjana Devi,M.,and Chowdhury,A.K.Variation of symptom of spot blotch caused by *Bipolaris sorokiniana* in a warm humid region. 6th International Conference “plant, Pathogens and People” pp285
- xxxvi) Roy,A., Bhattacharya,P.M.,Debnath,A.and Chowdhury,A.K(2016). Biological control in 21st century: opportunities and challenges in subsistence farming system of India. 6th International Conference “plant, Pathogens and People” pp113- lead lecture.
- xxxvii) Promotion of Biotechnologies for Socio-economic Upliftment of SC/ST and rural population of Jharkhand state of India” from 12th -13th May 2017 under the sponsorship of Department of Biotechnology, Ministry of Science and Technology, Govt. Of India.
- xxxviii) National webinar on Plant diseases in Eastern and North Eastern India: Current dynamics and proposed action plan for their management, 24th June, 2021, CAT, Tripura
- xxxix) 7th International Conference on Phytopathology in achieving UN sustainable development goals. 16-20 Jan, 2020, New Delhi
- xl) International Conference on Current Advances in Rice Blast Research organized by NIT, Durgapur "Aromatic rice in West Bengal: Blast resistance gene and nutritional characters" held on 1-5th Dec, 2020
(<https://nitdgp.ac.in/uploads/f65dcc2c83d409d149f75c1b10dee1d7.pdf>)
- xli) M. K. Gathala, A.M. Laing, Md. S. Islam, **A. K. Chowdhury**, P. M. Bhattacharya, T. Dhar, S. Kumar, R. Kumar, S. K. Dutta, M. Rashid, A. Hossain, S. Hossain, B. Brown, T. M. Jackson (2021). Conservation agriculture-based intensification sustainably improves the food, energy and water nexus for smallholder farmers in South Asia, 8th WCCA, Bern, Switzerland, Jun 21-23.

xlii) Chowdhury, A.K., Bhattacharya, PM..... et al (2021) **successful scaling approaches leading to autonomous adoption of Conservation Agriculture in West Bengal.** , 8th WCCA, Bern, Switzerland, Jun21-23.

xliii) Chowdhury, A.K. Bhattacharya, PM et al (2021). **Foliar Diseases of Wheat in South Asia: Challenges, Experience, Innovation and Future Strategy**, National Seminar at NBU, Siliguri, 1st to 3rd October

xliv) XI. A.K.Chowdhury, P.M.Bhattacharya, B.Roy, S.Mandal and N.Sahana (2022). Foliar diseases of wheat and rice blast in South Asia: Challenges, experience and future strategy, IPS Eastern Zone Conference, BCKV, Kalyani, 7-8th Jan, 2022

xlv) Chairman, Technical session- Post Harvest quality, value addition, export and entrepreneurship. International conference on Post harvest disease management and value addition of Horticultural crops (2021). Organized by ICAR-IARI

xlvi) Chairman (2022). Technical Session: Agrochemicals for protecting crops and environment Organized by Society for Agriculture and Environment

xlvii) Delivered talk on "Soil health management for the Fusarium spp. complex in relation to conservation agriculture" in Centre of Advanced Faculty Training (CAFT) for Assistant and associate Professors organized by ICAR- Indian Agricultural Research Institute, New Delhi on 18th October, 2022

xlviii) Chowdhury,A.K. (2023). Disease dynamics and soil health in rice wheat cropping systems under conservation agriculture: Challenges, Experience and Future strategy LEAD PRESENTATION in the National Symposium on "Plant Pathology: Sustainable Approaches for Food Security and Human Health" to be held during 08-09 December, 2023 Department of Mycology and Plant Pathology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India.

Xlix) Chairman under Theme 2: Agrochemicals and its impact on ecosystems and biodiversity (Plant protection products) 10th ANNUAL CONVENTION AND NATIONAL SEMINAR ON Next-gen Management of Agro-chemicals for Achieving Sustainable Development Goals on March 24-25, 2023, Kolkata

Xlix) Chowdhury, A.K. (2024). Addressing Foliar Diseases in Wheat: Challenges, Experiences, and Future Strategies for South Asia National Conference on "Utilization of Microbiome for Sustainable Plant Health and Livelihood" held in Kolkata from December 6-8, 2024.

Xlix) Keynote Address in the session of Climate resilient agriculture and disease forecasting in Indian Phytopathological Society Platinum Jubilee Conference, Mysore, Feb. 2-4, 2023

Xlixii) Chairman, National Conference on Plant Health for Food Security: Threats and Promises Feb 1-3, 2024, ICAR-IISR, Lucknow

Xlixiii) Annual Review and Planning meeting meeting of SRFISI and Rupantar from 2012 to 2024.

c) Seminars/Symposiums/Workshops organized

Details of the programme	Period	
	From	To
1. State level Workshop on Prioritizing Agronomy in a Changed Environment (PAiCE) with CSIRO, Australia	April 1, 2025	April 4, 2025
2. Training on Application of Molecular markers in Crop Improvement	15 th Feb, 2023	24 th Feb, 2023
3. State Level Workshop cum Training on Intellectual Property Rights in Agriculture	18 th Dec, 2022	19 th Dec, 2022
4. Three days workshop cum training was conducted on Detection and Diagnosis of Plant Diseases on 9-11th October 2023 at UBKV	9 th October, 2023	11 th October, 2023
5. East Zone conference of Indian Phytopathological Society, 2015 as Organizing Secretary	21 Jan, 2015	23Jan, 2015
6. National workshop on resource conservation technologies (20-23 rd February, 2009) as Organising Secretary	20 th Feb, 2009	23 rd Feb, 2009
7. National Symposium on Biotic and abiotic stresses in plants under changing climate scenario (29-30 th Nov, 2012) as Organising Secretary	29 th Nov, 12	30 th Nov, 12
8. State level workshop on Bioresource utilization at UBKV on 6-7 August, 2016	6 th August	7 th August
9. National Conference on Enhancing security through climate smart practices 17-18 March, 2017 at Kalimpong, West Bengal by COBACAS	17 March	18 ar
10. National Conference on Diversified farming system: sustainable livelihood and doubling farmers income 17-18 Jan, 2018 at Majhian, West Bengal by COBACAS	17 Jan	18 Jan

IV. Extension Experience

a) Participatory Research

Title of Technology	Methods Adopted	Individual/Collaborative
Conservation Agriculture	Participatory	Collaborative
Mushroom Cultivation	Laboratory Technique	Collaborative

b) Technology Developed

Category of achievement	Title	Year	Additional information, if any
Protocol	Zero tillage technology of six crops	2019	
Laboratory Technique	Hybrid mushroom	2024	

V) Other academic related experiences

Sl. No.	Other academic experiences
1	J.L.Nehru Award for outstanding research work on Plant Protection, ICAR (1992)
2	Fellow of two National Societies of India
3	SERC Visiting Scientist, DST (2001), GOI
4	Recipient of P.R.Verma Award by Society of Mycology and Plant Pathology, India (2002)
5	Task force member (Societal and Women), DBT, GOI (2018-2020)
6	Visiting Scientist in CIMMYT, Kenya (2017)
7	Prof.S.B.Chattopadhyay Memorial Lecture (2017) delivered at Mycopathological society
8	K.C.Mehta and M.Mitra Award (2020) for outstanding work on wheat pathology by Indian Phytopathological Society
9	Editor, Journal of Wheat Research (2015-2017)
10	Editor, Indian Phytopathology (2020-2025)
11	Best Poster Award, World Congress on Conservation Agriculture at Bern, Switzerland (2022)
12	Chief Judge, West Bengal Science Congress at Kolkata under agriculture, horticulture and fishery (2024)
13	Chairman of technical session in various National Seminar/symposia

B. Administrative Experience

Sl. No.	Name of the Post	Nature of Work	Duration	Organization	Remarks
1	Dean, Faculty of Agriculture	Academic administration	4 years	UBKV	
2.	Dean, Post Graduate Studies	Academic administration	2 years	UBKV	

6. LIST OF PUBLICATION

S.No	Details of Publications	NAAS Journal ID
1	Reddy AS, Sinha PK ,Roy B , Bhattacharya PM , Ladhalakshmi D and Chowdhury AK (2025). Screening and identification of rice genotypes with resistance to False Smut Disease. <i>J.Mycopathol.Res.</i> 63(2) : 267-272	5.11 J404
2	Dhar A, Bhaumik P, Bhattacharya PM and Chowdhury AK (2023). Isolation of monospores of <i>P.ostreatus</i> and <i>P.djamor</i> for interspecific hybridization and effect of temperature on dikaryotics <i>J.Mycopathol.Res.</i> 62(1) : 163-168	5.11 J404
3	Mal D, Datta,S, Tulsidas B, Chowdhury A , Islam S. (2022). Screening of cowpea genotypes for growth, yield and Cowpea mosaic virus. <i>Bangladesh J. Botany</i> 51: 817-820	6.40 B001
4	Vaishnavi K, Bhaumik P, Bhattachrya PM and Chowdhury A.K. (2022). Screening of lentil (<i>Lenx culinaris</i> ssp.culinaris) germplasm for resistance to Stemphylium blight disease using qualitative parameters. <i>Int. J. Environ and Climate change.</i> 12: 860-868	5.16 I239
5	R. Wongamthing , Abhijit Nandi , M. Ranjana Devi , Y. Mohan Babu and Chowdhury AK (2022).Strategies for Improvement in Cultivation Practices of Oyster Mushrooms in North Bengal, India. <i>International Journal of Environment and Climate Change</i> 12(11): 1863-1879,	5.16 I239
6	Mandal S, Waghmare MB, Bhattacharya PM, Chowdhury AK. (2022). Screening of wheat genotype against spot blotch disease in hot spots of West Bengal. <i>J Agric Technol.</i> 9(1&2): 48-55.	3.05 J034
7	Chattopadhyay N. Mandal, R.S. Roy, A. Bhattacharya, P.M. and Chowdhury, A.K. (2021). Genotype-by-environment interaction related to resistance to spot blotch disease in wheat genotypes. <i>Cereal Research Communications</i> https://doi.org/10.1007/s42976-021-00164-y .	C059(6.81)
8	Mondal, D., Kantamraju, P., Jha, S. Sundarrao GS, Bhowmik, A, Chakdar H, Mandal S, Sahana N, Roy B, Bhattacharya PM, Chowdhury AK and Choudhury A (2021). Evaluation of indigenous aromatic rice cultivars from sub-Himalayan Terai region of India for nutritional attributes and blast resistance. <i>Scientific Reports</i> 11, 4786 https://doi.org/10.1038/s41598-021-83921-7	S027 (10.00)
9	Chowdhury, A.K. (2021). Threatening wheat diseases in the eastern Gangetic plains: the current status of disease resistance. <i>Indian Phytopathology</i> 74, 333–343 . https://doi.org/10.1007/s42360-021-00336-0	I109(5.95)

10	Chakraborty S, Devi R, Bhattacharya PM, Dhar T and Chowdhury AK (2021). Plant disease dynamics vis-à-vis Conservation agriculture. J Mycopathol Res. 58:221-227	J376(4.46)
11	Gathala, M. K., Laing, A. M., Tiwari, T. P., Timsina, J., Rola-Rubzen, F., Islam, S., Maharjan, S., Brown, P. R., Das, K. K., Pradhan, K., Chowdhury, A. K. , Kumar, R., Datt, R., Anwar, M., Hossain, S., Kumar, U., Adhikari, S., Magar, D. B. T., Sapkota, B. K., Shrestha, HK, Islam, R, Rashid, M, Hossain I, Hossain A, Brown B, Gerard, B. (2021). Improving smallholder farmers' gross margins and labor-use efficiency across a range of cropping systems in the Eastern Gangetic Plains. <i>World Development</i> , 138, 105266]. https://doi.org/10.1016/j.worlddev.2020.105266	IF3.869 (NAAS 9.869)
12	Chowdhury AK, Bhattacharya PM, Roy A, Bandyopadhyay, Chakraborty BN, Chakraborty U and Ninawe A (2020). Entrepreneurship development through rural bio resource complex with adoption of integrated farming with mushroom, aquaculture, organic farming and value addition in north Bengal region of West Bengal. Int J of Current Microbiology and applied Sciences 9: 178-198	I207
13	Gathala, M.K., Laing M Alison, Tiwari, T.P., Timsina, J., Islam Md.S., Chowdhury, A.K. , Chattopadhyay, C., Sigh, A.K., Bhatt, B.P., Shrestha, R, Barma, N.C.D, Rana, D.S., Jackson, Tamara and Gerard, B. (2020) Enabling smallholder farmers to sustainably improve their food, energy and water nexus while achieving environmental and economic benefits <i>Renewable and Sustainable Energy Reviews</i> , Volume 120 , March 2020, 109645 https://doi.org/10.1016/j.rser.2019.109645	J148 (18.11)
14	Mitra B, Bhattacharya PM, Sinha AK, Chatterjee R, Chowdhury AK (2020) Zero tillage technology in jute cultivation: a successful venture in West Bengal. Int J Curr Microbiol App Sci 9(5):2068-2075	I207
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- IV. **Chowdhury, A.K.**, Bhattacharya, P.M. and Chattopadhyay, C. (2018). Recent approaches for detection and management of diseases of Wheat. Recent approaches for management of plant diseases. In: **Recent Approaches for Management of Plant Diseases** Editors: Srikanta Das, Subrata Dutta, B.N. Chakraborty and Dinesh Singh Pp 53-78 Indian Phytopathological Society ISBN: 81-7019-599-X (India), 1-55528-443-4 (USA) (ISBN: 81-7019-599-X)
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1. **Chowdhury, A.K.** Sahana, N, Mandal R and Sen, S (2023). Training Manual on Application of Molecular markers in Crop Improvement pp78
2. **Chowdhury, A.K.**, Bhattacharya, PM, Roy, B, Sahana, N and Mandal S (2002). Manual on Intellectual property rights in agriculture pp52
3. **Chowdhury, A.K.**, Bhattacharya, PM (2016). Bioresource and its utilization, pp87
4. **Chowdhury, A.K.**, Rudra B. V. Krishna (2007) .Frequently asked questions: Conservation agriculture published by CIMMYT.
5. **Chowdhury, A.K.** and Bhattacharya, P.M. (2007). A Guide to Mushroom Cultivation. UBKV, pp 89.
6. **Chowdhury, A.K.** and Bhattacharya, P.M. (2007). Mushroom Cultivation. UBKV, pp 20.
7. **Chowdhury, A.K.**, Mukherjee Soma and Bhattacharya, P.M. (2004). Promising wheat varieties for terai zone of West Bengal. UBKV, pp 20.

7. Ph.D Guidance

AREA OF INTEREST	:		
RESEARCH SUPERVISION	:	M.Sc (Ag.)	7
RESEARCH SUPERVISION	:	Ph.D	8

Doctoral Thesis

1. Pankaj Mitra (**AB 5618**) Chemical induction of resistance in soybean plants to *Sc/erotium roffsii* Sacc. (2003) University of North Bengal (Joint Guidance)
2. Prasanta Chakraborty (**AB 7981**). Induction of resistance in rice plants against *Rhizoctonia solani* Kuhn. for management of sheath blight disease. (2007) University of North Bengal (Joint Guidance)
3. Soma Mukherjee (**VB-1126 of 2005-2006**) Studies on foliar blight complex of wheat with particular reference to *Bipolaris sorokiniana* (2009) *Viswa Bharati (Joint Guidance)*
4. Naba kr. Biswas (**A-2005-10D**). Integrated approach for management of rice sheath blight disease incited by *Rhizoctonia solani* Kuhn under terai agro- ecological region of West Bengal (2009)
5. Mrs. Bipasha Sarkar, (**168/PhD/ch/2453/(R) 06**). Synthesis of new organotin (IV) derivatives of thio- semicarbazides and S,N, O containing related ligands: characterization and studies on the biocidal properties of the new compounds with special reference to their agricultural applications (2012). University of North Bengal (Joint Guidance)
6. Mr. Sajeed Ali (A-2009-11D). Studies on Turicum leaf blight disease in Maize (*Zea mays* L) in North Bengal, (2013)
7. Aparajita Dhar (A-2018-003-D). Interspecific Hybridization of Oyster Mushroom for Temperature Tolerance, Better yield and Nutrition (2024)
8. S Akhileswara Reddy (A-2020-030-D). False Smut of Rice: Pathogen's Characterization, Molecular Aspects of Host-Pathogen Interaction and Integrated Disease Management (2025)

Master Thesis

1. Sima Devi (2003). A-2003-04M. Incidence and severity of spot blotch disease of wheat in Eastern Gangetic plain
2. Abhishak Thapa (2011) A-2011-3M. Resistance to spot blotch disease in bread wheat under changing climate scenario
3. Bijan Kr Pain (2014) A-2014-1M. Identification of foliar blight pathogen
4. Soumen Mandal (2015) A-2015-28M Resistance to spot blotch disease of wheat at hot spot of West Bengal
5. Ms Sinija Das K (2016) A-2016-29M Variation of *Bipolaris* the causal agent of spot blotch with special reference to toxin production
6. R Wangamthing (2019) A-2017-18M Strategies for improvement in cultivation practices of oyster mushroom in North Bengal
7. S Phanindra (2022) A-2020-035-M *Trichoderma* as potential stimulator of yield, soil health and defence gene in Maize (*Zea mays* L.)

8. Any other relevant information (regarding achievement by the individual)

- i) National Expert, FAO Regional Office, Bangkok, 2016

- ii) Scoping Study member, ACIAR 2011
- iii) Technical Advisor, Ministry of Agriculture, Govt. of India for Bringing Green Revolution in Eastern India and National Food Security Mission for Coochbehar (2015)
- iv) Reviewer of J of Molecular and Physiological Plant Pathology, J of Plant Disease and Protection, Annals of Applied Biology, J of Pesticide Research, Indian J of Agril Sciences European J of Plant Pathology, Scientific Reports etc.