

# RESUME

**NAME: DR. ARUP CHATTOPADHYAY**

**DESIGNATION: PROFEESOR**

**CONTACTS:**

**1. OFFICIAL ADDRESS FOR CORRESPONDENCE:**

Department of Vegetable Science, Faculty of Horticulture,  
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur-741252, Nadia,  
West Bengal, India



**2. PHONE :** Mobile: 9239402700

WhatsApp: 9239402700

**3. EMAIL :** Institutional: chattopadhyay.arup@bckv.edu.in

Alternative: chattopadhyay.arup@gmail.com

**4. ORCID ID:** 0000-0002-9362-5434

**5. GOOGLE SCHOLAR PROFILE:** Citation: 2691; h-index: 25 ; i10 index:67 (as on 01.05.24)

**6. RESEARCHGATE PROFILE:** Citation: 1300; Research Interest Score:1432; h-index:20.

**7. DATE OF BIRTH:** 22/11/1966

**8. DATE OF JOINING TO THE UNIVERSITY:** 26/09/1997

---

**9. ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph.D. in Horticulture	BCKV	1996
MASTER'S	M.Sc.(Ag) in Horticulture	BCKV	1991
BACHELOR'S	B.Sc (Hons.) in Agriculture	BCKV	1989

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

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	BCKV	26.09.2012	Till date
Associate Professor	BCKV	26.09.2009	25.09.2012
Asst. Professor	BCKV	26.09.1997	25.09.2009

**11. ADMINISTRATIVE POST(S)/ RESPONSIBILY(IES) (IF ANY)**

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From	To
1.	Officer-in-Charge, AICRP on Vegetable Crops	2007	2021
2.	Head, Department of Vegetable Science	2021	Till date

**12. AREA OF RESEARCH: (Bulleted list)**

- Characterization of vegetable germplasm
- Breeding vegetables for disease resistance
- Breeding vegetables for quality enhancement
- Mutation breeding in vegetable crops
- Seed production of vegetable Crops

**13. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	Hort.303	Potato and tuber crops	2+1
	Hort.351	Seed production of vegetable, tuber and spice crops	2+1
POST GRADUATE	VSC 508	Seed production of vegetable crops	2+1
	VSC 502	Production of warm season vegetable crops	2+1
	VSC 505	Breeding of self pollinated vegetable crops	2+1
Ph.D.	VSC-603	Abiotic stress management in vegetable crops	2+1
	VSC-604	Seed certification, processing and storage of vegetable crops	2+1
	VSC-605	Breeding for special traits in vegetable crops	2+0

**14. NUMBER OF STUDENTS SUPERVISED:**

Master's - 20; Doctoral-11

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

- Question setters of OUAT, BAU, CAU, IARI
- External examiners of OUAT, BAU, IARI for Master's and Doctoral degree programmes
- Expert for CAS assessment of ARS Scientists in Eastern India

**16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES**

- Indian Society of Vegetable Science, Varanasi, U.P.
- Crop and Weed Science Society, Kalyani, W.B.
- Association for Plant Breeding and Improvement, Kolkata, W.B.

**17. PROJECT ACTIVITIES**

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	Development of technology for quality planting material production of tuber crops	NATP, ICAR, New Delhi	Completed (2001-2004)	Co-CCPI

2	Export oriented vegetable production under low cost poly house	APEDA, New Delhi	Completed (2002-2005)	Co-PI
3	Study on commercial viability of whole seed corm production of elephant foot yam in Red and Laterite Zone of West Bengal	NABARD, West Bengal	Completed (2007 - 2009)	Co-PI
4	Basic and strategic research on epidemiology and forewarning system of downy mildew disease of cucurbits by using appropriate IPM strategy	World Bank Sponsored project, ICAR, New Delhi	Completed (2007-2010)	Co-CCPI
5	Isolation of mutant with exerted stigma and anther non-dehiscence character in PS-2 functional male sterile line of tomato for utilization in hybrid seed production	Bhava Atomic Research Centre, Trombay, Mumbai	Completed (2010-2013)	Co-PI
6	Validation of DUS resting guidelines for pointed gourd	PPV & FRA, Ministry of Agriculture and Farmers Welfare, GOI	Ongoing (2013 to till date)	Nodal Officer/PI
7	Agri-biodiversity-CRP on okra	ICAR-NBPGR, New Delhi during 2015-2017.	Completed (2015-2017)	P.I.
8	Food and nutritional security of tribal farmers through vegetable farming	ICAR-IIVR, Varanasi	Completed (2014-2022)	P.I.

## 18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

### A. ORGANIZED : NIL

### B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Recent advances of vegetable breeding	21 days, 1998	IARI, New Delhi	Trainee
2.	Production and processing Technologies of sweet potato	07 days, 2001	CTCRI, Trivandrum	Trainee

## 19. SEMINAR/ SYMPOSIUM/ WORKSHOP etc

### A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Group Meeting/Workshop on AICRP on Vegetable Crops	04 days during April, 2005	FACC, BCKV, Kalyani	Asstt. Secretary

## B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	International Symposium on sweet potato and cassava	03 days 2005	Kuala Lumpur, Malaysia	Presentation of oral paper
2.	Attended many National Symposium/Seminars/ Group meeting	-	Across the country	Presentation of oral/poster papers

### 20. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- **Recipient of Dwarika Nath Young Scientist Gold Medal Award** for the **Best Ph.D. thesis in Vegetable Science** during 1998 conferred by Indian Society of Vegetable Science, IIVR, Varanasi
- **Recipient of Lt. Amit Singh Memorial Award** for the **Best AICRP Centre on Vegetable Crops in India** during 2012 conferred by ICAR, New Delhi
- **Fellow of the Indian Society of Vegetable Science**, IIVR, Varanasi during 2016
- **Fellow of the Crop and Weed Science Society**, BCKV, Mohanpur during 2017
- **Recipient of Reviewer Excellence Award** during 2016 & 2018 conferred by Agricultural Research Communication Centre, Hisar
- **Recipient of International Research Awards on Science, Health and Engineering (SHEN-2022)** for the contribution and honourable achievement in innovative research conferred by Science Father during 2022.
- **Member of Editorial Board of Scientific Journals:** Legume Research, Journal of Crop and Weed, Annals of Plant and Soil Research.
- **Reviewer of many scientific journals** viz., Scientia Horticulturae, Agronomy Journal, Euphytica, International Journal of Vegetable Science, Genetic Resources and Crop Evolution, Indian Journal of Horticulture, Indian Journal of Agricultural Sciences etc.
- **Developed, released and notified nine vegetable varieties/hybrid** (Bidhan Barbati-1, Bidhan Barbati-2, Bidhan Sadabahar of cowpea; Bidhan Supreme, Bidhan Super, Bidhan Suphala of brinjal; Bidhan Tomato Hybrid-4 of tomato; Bidhan Chilli-4 of chilli; Bidhan Saheb mukto of okra).

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

- Involved in chilli nursery trials of AVRDC (World Vegetable Centre), Taiwan

## 22. PUBLICATIONS

### A. BOOKS

- **Chattopadhyay A.**, Dutta S., Karmakar K., Bhattacharya I., and Hazra P. (2007). *Technology for Vegetable Crop Production*, (1st edition), published by AICRP on Vegetable Crops, BCKV, Kalyani, 230 p.
- Hazra P., **Chattopadhyay A.**, Karmakar K. and Dutta S. (2011). *Modern Technology in Vegetable Production*, published by New India Publishing Agency, New Delhi, India 480 p.
- Hazra P., Banerjee M. K. and **Chattopadhyay A.** (2023). *Varieties of Vegetable Crops in India*, 3<sup>rd</sup> edition, published by Kalyani Publishers, 177 p.
- Sarkar, S., Hazra P. and **Chattopadhyay A.** (2013) *Chilli, Genetic Diversity, Characterization and Crop Improvement*, published by Scholar's Press, Verlag, Saarbrucken, Deutschland, Germany, 109 p.
- **Chattopadhyay, A.**, Bhattacharjee, T., Banerjee, H. and Maurya, P.K. (2019). *Tuber Crops-Temperate And Tropical*, Kalyani Publishers, Ludhiana, India, 320p.
- Som, M.G., Bose, T.K., **Chattopadhyay, A.**, Maity, T.K. and Kabir, J. (2021). *Vegetable Crops*, Revised and Illustrated edition of Vol. I-IV, Astral International Pvt. Ltd., New Delhi.

### BOOK CHAPTERS

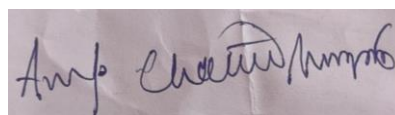
- Chatopadhyay A. and Hazra P. (2008). Brinjal, In: *Olericulture in India* (Ed. M.K. Rana), published by Kalyani Publishers,Ludhiana, pp.100-129.
- Chatopadhyay A. and Hazra P. (2008). Cluster bean, In: *Scientific Cultivation of Vegetables* (Ed. M.K. Rana), published by Kalyani Publishers,Ludhiana, pp.48-61.
- Hazra P., Chattopadhyay A., Thapa U., Pandit M. K. and Dutta S. (2009). Vegetable Science, In: *Basics of Horticulture* (Ed. K.V.Peter), published by New India Publishing Agency, New Delhi, India pp. 101-279.
- Chattopadhyay, A. and Hazra, P. (2012). Origin and Domestication of the Vegetable Crops, In: *Handbook of Vegetables* (Eds. K.V.Peter and P.Hazra), Studium Press, New Delhi India, pp.35-77.
- Seth,T., Lyngdoh, Y.A., Chattopadhyay, A., Sharangi, A.B. and Mishra, G.P. (2018). Export of onion, garlic and chilli: Three essential spices in daily kitchen, In: *Indian Spices* (Ed. A.B. Sharangi), Springer, Cham, doi.org/10.1007/978-3-319-75016-3\_13, pp. 359-378.

- Chakraborty, Ivi and Chattopadhyay, Arup (2018). Pre and post harvest losses in vegetables, In: *Advances in Post Harvest Technologies in Vegetable Crops* (Eds. Bijendra Singh, Sudhir Singh and Tanmay Kumar Koley), Apple Academic Press under Post harvest Biology and Technology Series, pp. 25-88.
- Lalramhlimi, B., Mukherjee, Debmala, Chakraborty, Ivi, Ghosh, Nilotpal, **Chattopadhyay, Arup** and Ray, Ramesh C. (2022). Fruit and Vegetable Wastes as Livestock Feeds, In: *Fruits and Vegetable Waste- Valorization to Bioproducts and Platform Chemicals* (Ed. R.C. Ray), Springer, Singapore, pp.139-168.
- Chakraborty Ivi, **Chattopadhyay Arup**, Maity Pinky, Pahari Aditi, Pramanik Subhradeep, Banerjee Hirak, Nath Rajib, and Ray, Ramesh C (2024). Bi-valorization of sweet potato bagasse into food additives, feeds and fuels, In: *Roots, Tubers, and Bulb Crop Wastes: Management by Biorefinery Approaches* (ed. R.C. Ray), Springer, Singapore, pp.133-147.

## **B. RESEARCH PAPERS (Best 10)**

1. Tiwari, K.N., Mal P.K., Singh R.M. and **Chattopadhyay A.** (1998). Response of okra (*Abelmoschus esculentus*) to drip irrigation under mulch and non-mulch conditions. *Agricultural Water Management*, **38**: 91-102. **(IF:6.70)**.
2. Mukhopadhyay, Swapan Kumar, **Chattopadhyay Arup**, Chakraborty Ivi, and Bhattacharya Indrabrata (2011). Crops that feed the world 5. Sweet potato, Sweet potatoes for income and food security. *Food Security*, **3** (3): 283-305. **(IF:6.70)**
3. Bhutia, Nangsol Dolma, Seth Tania, Shende Varun Durwas, Dutta Subrata and **Chattopadhyay Arup** (2015). Estimation of heterosis, dominance effect and genetic control of fresh fruit yield, quality and leaf curl disease severity traits of chilli pepper (*Capsicum Annuum* L.). *Scientia Horticulturae*, **182**: 47-55.**(IF: 4.30)**.
4. Phonglosa, Amit, Bhattacharyya, Kallol, Ray, Krishnendu, Mandal, Jajati, Pari, Arnab, Banerjee Hirak and **Chattopadhyay, Arup** (2015). Integrated Nutrient Management For Okra In An Inceptisol Of Easternindia And Yield Modeling Through Artificial Neural Network. *Scientia Horticulturae*, **187**: 1-9.**(IF:4.30 )**
5. Hazra, Pranab, Longjam, M. and **Chattopadhyay, Arup** (2018). Staking of mutant genes in development of purple tomato rich in both lycopene and anthocyanin contents. *Scientia Horticulturae*, **239**:253-258.**(IF: 4.30)**.

6. Hazra, Pranab Hazra, Hazra, Soham, Acharya, Brati, Dutta, Subhramalya, Saha, Shubhrajyoti, Mahapatra, Priyadarshini, Pamoti, Pradeep Kumar, Pal, Harshata, **Chattopadhyay, Arup**, Chakraborty, Ivi, Jambhulkar, Sanjay, Chatterjee, Suchandra and Ghosh, Sunil K. (2022). Diversity of nutrient and nutraceutical contents in the fruits and its relationship to morphological traits in bitter gourd (*Momordica charantia* L.). *Scientia Horticulturae*, **305**: 111414. (IF- 4.30).
7. Debnath, Sovan, Saha, Susmit, Mandal, Biswapati, Sarkar, Dibyendu, **Chattopadhyay, Arup**, Mukherjee, Dhiman, Batabyal, Kaushik, Murmu, Sidhu, Nath, Rajib, Mishra, Dilip Kumar, and Sinha, Kanchan (2022). Zinc and Iron profiling in some commonly consumed food crops uncovers inter- and intra-crop variation. *Journal of Soil Science and Plant Nutrition*, **22**:1768-1777(IF-3.90).
8. Hazra, Soham, Gorai, Shouvik, Roy, Sourav, Bose, Suvojit, Hazra, Pranab, **Chattopadhyay, Arup**, Ali, Md. Nasim, Jambhulkar, Sanjay and Maji, Anirban (2023). Isolation of yellow vein mosaic virus (YVMV)-resistant mutants of okra (*Abelmoschus esculentus* L.) through applied mutagenesis. *Plant Breeding*, 1-14, DOI: 10.1111/pbr.13151.(IF- 2.00).
9. Debnath Sovan, Saha Susmit, Biswas Tuffleuddin, Mal Sudipa, Batabyal Kaushik, Sarkar Dibyendu, Yadav Sharwan Lal, Bhattacharjee Tridip, Chakraborty Mahasweta, **Chattopadhyay Arup** and Mandal Biswapati (2024). Trace elements profiling of hyacinth bean (*Lablab purpureus* var. *typicus* L.): A rational screening of the breeding lines for biofortification programs. *South African Journal of Botany*, **167**:40-47.(IF- 3.10).
10. Bose, Suvojit, Hazra, Soham, Hazra, Pranab, **Chattopadhyay, Arup**, Maji, Anirban, Basfore, Shibnath, and Karak, Chandan (2023). Characterization of gynoeocious-parthenocarpic and monoecious cucumber lines (*Cucumis sativus* L.) and regression modelling to obtain high yielding and functionally rich genotypes. *Horticulture, Environment and Biotechnology*, <https://doi.org/10.1007/s13580-023-00579-y>. (IF- 2.40).



01.05.24  
Signature with Date