

## CURRICULUM VITAE



- 1. Name** : **JAGADISH CHANDRA JANA**
- 2. Designation** : Professor and Head, Department of Vegetable and Spice Crops & Ex- Dean, Faculty of Horticulture
- 3. Address** : Department of Vegetable and Spice Crops,  
Faculty of Horticulture, Uttar Banga Krishi Viswavidyalaya,  
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### **4. Educational Qualification:**

<b>Degree</b>	<b>University</b>	<b>Year</b>	<b>Subjects</b>
Secondary	WBBSE	1985	
H.S.	WBCHSE	1987	
B.Sc.(Ag.)Hons	BCKV	1991	Hort., Ento.,...
M.Sc.(Ag.)	BCKV	1994	Horticulture
Ph.D.	BCKV	2001	Vegetable Crops

### **5. Experience:**

#### **5.(a) Professional Experience:**

Under Graduate and Post Graduate teaching, research and extension works of the Department of Vegetable and Spice Crops, Faculty of Horticulture, UBKV with following positions-

<b>Designation</b>	<b>Place of posting</b>	<b>Joining date</b>	<b>Leaving date</b>
Lecturer in Vegetable Crops	Regional Research Station (Terai Zone), B.C.K.V., Pundibari, Cooch Behar, W.B.	31 <sup>st</sup> Dec. 1997	30 <sup>th</sup> Dec. 2001

Designation	Place of posting	Joining date	Leaving date
Sr. Lecturer in Vegetable Crops	Regional Research Station (Terai Zone), B.C.K.V., Pundibari, Cooch Behar, W.B.	31 <sup>st</sup> Dec. 2001	19 <sup>th</sup> Nov. 2003
Reader (Associate Prof.) in Vegetable & Spice Crops	Deptt. of Vegetable & Spice Crops, Faculty of Horticulture, U.B.K.V., Pundibari, Cooch Behar, W.B.	20 <sup>th</sup> Nov. 2003	29 <sup>th</sup> June 2010
Professor	Deptt. of Vegetable & Spice Crops, Faculty of Horticulture, U.B.K.V., Pundibari, Cooch Behar, W.B.	30 <sup>th</sup> June 2010	Continuing

Specialization: Breeding and Seed Production of Vegetable and Spice Crops

#### 5.(b) Administrative Experience:

Administrative post held	Department/Faculty	Joining date	Leaving date
Head	Department of Vegetable and Spice Crops, Faculty of Horticulture, UBKV, Pundibari	20.01.2004	01.12.2011
Dean (Acting)	Faculty of Horticulture, UBKV, Pundibari	05.04.2013	23.11. 2014
Dean	Faculty of Horticulture, UBKV, Pundibari	24 .11.2014	23.11.2019
Dean (Acting)	Faculty of Horticulture, UBKV, Pundibari	24.11. 2019	01.01.2020
Head	Department of Vegetable and Spice Crops, Faculty of Horticulture, UBKV, Pundibari	02.12.2019	Till date

#### Administrative Training Completed:

Programme	Place and Duration	Hosted by	Sponsored by
<i>Leadership for Academicians Programme (LEAP)</i> , a three weeks flagship Leadership Development training programme (2 weeks domestic and 1 week foreign training) for second level academic functionaries in public funded higher education	<b>Indian Training Component:</b> The Indian component held in <b>Indian Institute of Science Education and Research (IISER)-Kolkata</b> between 11-22 February, 2019. <b>Foreign Training Component:</b> The foreign component was delivered in partnership with the <b>Harvard Graduate School of Education</b> , at the Cambridge campus of <b>Harvard University</b>	IISER Kolkata	Ministry of Human Resource Development (MHRD), Government of India

institutions under the <b>Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT)</b> Scheme.	<b>(Boston, USA)</b> during 6-10 March, 2019.		
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## 6. List of Publication:

### 6.(a) Chapter in a Book: 02

1. **Jana, J. C.** 2008. Underutilized leafy vegetables of sub-himalayan terai region. pp. 325-339. In Peter, K. V. (eds.), Underutilized and underexploited horticultural crops', Vol-3. New India Publishing Agency, New Delhi.
2. **Jana, J. C.** and Sinha, P. 2009. Micronutrient disorders in vegetable crops' pp. 479-497. In Srivastava, K. P. and Butani, D. K. (eds.), Pest Management in Vegetables", vol-II. Studium Press (India) Pvt. Ltd., New Delhi.

### 6.(b) Book: 02

1. **Jana, J. C.**, Chatterjee, R., Datta, S. and Choudhuri, P. 2005. Principles and Practices of Vegetable and Spice Crops, Uttar Banga Krishi Viswavidyalaya, West Bengal.
2. **Jana, J. C.**, Kole, T. K., Mani, A., Karak, C. and Murmu, D. K. 2018. Advances in Post Harvest Management, Processing and Value Addition of Horticultural Crops. Part-2: Vegetable, Spices and Plantation Crops. Today and Tomorrow's Printers and Publishers, New Delhi.

### 6.(c) Published Research Articles: 51

1. **Jana, J. C.**, Thapa, U. and Maity, T. K. 1999. Green and seed yield of palak (*Beta vulgaris* L. var. *bengalensis* Hort.) as affected by nitrogen fertilization and cutting management. *Vegetable Science*. **26** (1): 61-63. ISSN 0970-6585.
2. Dhar, M., **Jana, J. C.** and Maity T. K. 1999. Response of cabbage to sulphur fertilization. *Vegetable Science*. **26** (1): 82-84. ISSN 0970-6585.
3. Maity, T. K., **Jana, J. C.** and Thapa, U. 1999. Crop growth rate and green yield of palak (*Beta vulgaris* L. var. *bengalensis* Hort.) as influenced by nitrogen fertilization and cutting frequencies. *Journal of Andaman Science Association*. **15** (1): 35-38. ISSN 0970-4183.

4. **Jana, J. C.** and Bhattacharya, B. 2001. Performance of different promising cultivars of turmeric (*Curcuma domestica* Val.) under terai agro-climatic region of West Bengal. *Environment and Ecology*. **19**(2): 463-465. ISSN 0970-0420.
5. Panja, B. N. and **Jana, J. C.** 2001. White mould disease of *Phaseolus vulgaris* L. from terai region of West Bengal. *Journal of Interacademia*. **5** (1): 121-122. ISSN 0971-9016.
6. **Jana, J. C.** and Bhattacharya, B. 2001. Studies on performance of different tomato hybrids during off-season under different planting methods in terai agro-climatic zone of West Bengal. *Journal of Interacademia*. **5** (2): 186-189. ISSN 0971-9016.
7. **Jana, J. C.** and Mukhopadhyay, T. P. 2001. Effect of nitrogen and phosphorus on growth and seed yield of cauliflower var. Aghani in terai zone of West Bengal. *Vegetable Science*. **28** (2): 133-136. ISSN 0970-6585.
8. **Jana, J. C.**, Dutta, S. and Chatterjee, R. 2001. Genetic variability, heritability and correlation studies in turmeric (*Curcuma longa* L.) *Research on Crops*. **2** (2): 220-225. ISSN 0972-3226.
9. **Jana, J. C.** and Mukhopadhyay, T. P. 2002. Effect of sowing dates and varieties on growth and seed yield of cauliflower (*Brassica oleraceavar. botrytis* L.) in terai zone of West Bengal. *Seed Research*. **30** (2): 247-252. ISSN 0379-5594.
10. **Jana, J. C.** and Mukhopadhyay, T. P. 2002. Effect of nitrogen and phosphorus on growth and seed yield of cauliflower var. Aghani in terai zone of West Bengal. *Seed Research*. **30** (2): 253-257. ISSN 0379-5594.
11. **Jana, J. C.** and Mukhopadhyay, T. P. 2003. Correlation growth and yield parameters with seed yield under varying sowing dates and varieties in cauliflower (*Brassica oleraceavar. botrytis* L.). *Seed Research*. **31** (1): 58-60. ISSN 0379-5594.
12. **Jana, J. C.** and Mukhopadhyay, T. P. 2003. Effect of sowing dates and varieties on growth and curd yield of cauliflower in terai zone of West Bengal. *Indian Agriculturist*. **47**(3 & 4):235-239. ISSN 0019-4336.
13. **Jana, J. C.** 2004. Effect of micronutrients on yield and quality of cauliflower seeds. *Seed Research*. **32**(1):98-100. ISSN 0379-5594.

14. **Jana, J. C.** 2005. Effect of sowing date and variety of French bean on seed yield and quality. *Seed Research*. **33** (1): 111-113. ISSN 0379-5594.
15. **Jana, J. C.** 2006. Effect of *Azospirillum* and graded levels of nitrogenous fertilizer on growth, yield and quality of ginger ( *Zingiberofficinale*Rosc.). *Environment and Ecology*. **24S** (3): 551-553. ISSN 0970-0420.
16. **Jana, J. C.** (2007) Suranjana : a new turmeric of West Bengal. *Indian Horticulture*. **34**(1):27-28. ISSN: 0019-4875.
17. **Jana, J. C.** 2007. Use of traditional and underutilized leafy vegetables of sub-Himalayan terai region of West Bengal. *Acta Hort*. **752**: 571-575. ISSN: 0567-7572
18. Sarkar, R. K., Datta S. & **J. C. Jana** (2007). Effect of pinching on chillies (*Capsicum annum*). *Indian Journal of Agricultural Sciences*. **77**(12):856-8. ISSN:0019-5022
19. **Jana, J. C.** 2008. Underutilized leafy vegetables of sub-himalayan terai region. In: *Underutilized and Underexploited Horticultural Crops*, Vol-3, Peter, K. V. (Eds.), New India Publishing Agency, New Delhi. pp. 325-339.
20. **Jana, J. C.** and Sinha, P. 2009. Micronutrient disorders in vegetable crops'. In: *Pest Management in Vegetables*, Vol-II, Srivastava, K. P. and Butani, D. K. (Eds.), Studium Press (India) Pvt. Ltd., New Delhi. pp. 479-497.
21. **Jana, J. C.** 2009. Utilization and conservation of cucurbits diversity in sub-Himalayan terai region of India. *Green Farming*. **2**(6): 374-375. ISSN 0974-0775.
22. **Jana, J. C.** and Jha, M. K. 2009. Evaluation of vermicompost and farmyard manure in integrated nutrient management of spinach (*Beta vulgaris* var. *bengalensis*Hort.). *Indian Journal of Agricultural Sciences*. **79**(7):538-541. ISSN 0019-5022.
23. **Jana, J. C.** and Talukder, B. 2009. Response of inoculation with Phosphate Solubilizing Bacteria and Vesicular Arbuscular Mycorrhiza on growth, yield and quality of chilli under sub-Himalayan terai region. *Green Farming*. **2**(8): 510-513. ISSN 0974-0775.

24. Talukder, B. and **Jana, J.C.** 2009. Integrated nutrient management for better growth, yield and quality of green chilli (*Capsicum annuum*) in terai region of West Bengal. *Indian Journal of Agricultural Sciences*. **79**(8):600-603. ISSN 0019-5022.
25. Chatterjee, R., **Jana, J. C.** and Pal, P. K. 2009. Utilization of betelvineboroj for year round production of pointed gourd (*Trichosanthes dioica* Roxb.)- A case study in Cooch Behar district of West Bengal, India. *Green Farming*. **2**(12): 849-851. ISSN 0974-0775.
26. Datta, S. and **Jana, J. C.** 2009. Effect of seasons and fertility levels on yield and quality of chilli (*Capsicum annuum* L.) genotypes in terai agroclimatic region. *Indian Journal of Agricultural Sciences*. **79** (11): 917-921. ISSN 0019-5022.
27. Datta, S., **Jana, J. C.** and Choudhuri, P. 2009. Standardization of time for propagation of black pepper under terai zone of West Bengal. *Orissa Journal of Horticulture*. **57**(2): 98-102. ISSN 0973-2180.
28. Datta, S. and **Jana, J. C.** 2010. Genetic variability, heritability and correlation in chilli genotypes under terai zone of West Bengal. *SAARC Journal of Agriculture*. **8**(1): 33-45. ISSN 1682-8348.
29. Chatterjee, R., **Jana, J. C.** and Bandyopadhyay, S. 2010. Growth and multiplication of *Eisenia foetida* during vermicomposting of different vegetable crop residues. *Journal of Soil Biology and Ecology*. **30**(1 & 2):178-187. ISSN 0970-1370.
30. **Jana, J.C.**, Guha, S. and Chatterjee, R. 2010. Effect of planting geometry and nitrogen levels on crop fruit yield quality in okra grown during early winter in terai zone of West Bengal. *Journal of Horticultural Sciences*. **5** (1): 30-33. ISSN 0973-354X.
31. Datta, S. and **Jana, J. C.** 2011. Performance of chilli genotypes (*Capsicum annuum* L.) genotypes under terai agro-climatic zone of West Bengal, *Indian Journal of Agricultural Sciences*. **81**(6): 567-570. ISSN 0019-5022.
32. Datta, S. and **Jana, J. C.** 2011. Studies on genetic divergence in chilli (*Capsicum* spp.) under sub-Himalayan tracts of West Bengal, *Journal of Crop and Weed*. **7**(1): 44-48. ISSN 0974-6315.

33. Choudhuri, P. and **Jana, J. C.** 2012. Effect of intercropping on nutrient uptake and quality parameter estimation in potato based intercropping system. *Crop Research*. **43**(1, 2 and 3):65-68. ISSN 0970-4884.
34. Choudhuri, P. and **Jana, J. C.** 2012. Effect of intercropping yield and economics of cabbage. *Journal of Crop and Weed*. **8**(1):155-157. ISSN 0974-6315.
35. Choudhuri, P. and **Jana, J. C.** 2012. Influence of intercropping on nutrient uptake and quality parameter estimation in okra based intercropping system. *Journal of Interacademia*. **16**(2):234-238. ISSN 0971-9016.
36. Datta, S. and **Jana, J. C.** (2012) Studies on stability of chilli genotypes under terai agro climatic zone of West Bengal. *Journal of Spices and Aromatic Crops*. **21**(1): 71-75. ISSN 0971-3328.
37. Chatterjee, R., **Jana, J. C.** and Paul, P. K. 2012. Enhancement of head yield and quality of cabbage (*Brassica oleracea*) by combining different sources of nutrients. *Indian Journal of Agricultural Sciences*. **82**(4): 323-327. ISSN 0019-5022.
38. Chatterjee, R., **Jana, J. C.** and Paul, P. K. 2013. Vermicompost Substitution Influences Shelf Life and Fruit Quality of Tomato (*Lycopersicon esculentum* Mill.). *American Journal of Agricultural Science and Technology*. **1**: 69-76. ISSN 2162-9676.
39. **Jana, J. C.**, Moktan, P. and Chatterjee, R. 2013. A survey of nitrate concentrations in retail fresh leafy vegetables from daily markets of different locations. *Journal of Green Agricultural Science*. **2**(1):07-10. ISSN 2319-8575.
40. DATTA, S. and **JANA, J. C.** 2014. Studies on stability of chilli genotypes at different fertility levels under terai zone of West Bengal. *Journal of Spices and Aromatic Crops*. **23**(1): 26-31. ISSN: 0971-3328
41. Sarkar, R. K., **Jana, J. C.** and Datta, S. 2014. Effect of different sowing times and spacing on growth, yield and quality of water spinach (*Ipomoea reptans* Poir.) under terai region of West Bengal. *Journal of Applied and Natural Sciences*. **6**(2): 489-494. ISSN 0974-9411.
42. Sarkar, R. K., **Jana, J. C.** and Datta, S. 2014. Effect of cutting frequencies and nitrogen levels on growth, green and seed yield and quality of water

- spinach (*Ipomoea reptans* Poir.). *Journal of Applied and Natural Sciences*. **6**(2): 545-551. ISSN 0974-9411.
43. Datta, S. and **Jana, J. C.** 2014. Effect of Different Temperature and Rainfall Regimes with Different Levels of Soil Fertility on Uptake Pattern of N, P and K of Chilli (*Capsicum annum* L.) under Terai Zone of West Bengal. *American Journal of Agricultural Science and Technology*. **2** (1): 8-16. ISSN 2162-9676.
44. Anandaraj, M., Prasath, D., Kandiannan, K., John Zachariah, T., Srinivasan, V., Jha, A. K., Singh, A. K., Pandey, V. P., Singh, S. P., Shoba, N., **Jana, J. C.**, Ravindra Kumar, K., and Uma Maheswari, K. 2014. Genotype by environment interaction effects on yield and curcuminin turmeric (*Curcuma longa* L.). *Industrial Crops and Products*. **53**:358– 364. ISSN 0926-6690.
45. Chatterjee, R., Bandhopadhyay, S. and **Jana, J. C.** 2014. Organic amendments influencing growth, head yield and nitrogen use efficiency in cabbage (*Brassica oleracea* var. *capitata* L.). *American International Journal of Research in Formal, Applied & Natural Sciences*. **5**(1):90-95. ISSN 2328-3777.
46. Chatterjee, R., Bandhopadhyay, S. and **Jana, J. C.** 2014. Impact of organic amendments and inorganic fertilizers on production potential, nitrogen use efficiency and nitrogen balance in tomato (*Lycopersicon esculentum* Mill.). *International Journal of Scientific Research in Knowledge*. **2**(5):233-240. ISSN 2322-4541.
47. Datta, S. and **Jana, J. C.** 2015. Stability of chilli genotypes under different fertility level. *Green Farming*. **6**(2): 270-273. ISSN 0974-0775.
48. Basak, D. and **Jana, J. C.** 2016. Yield and quality performance of turmeric varieties grown under conventional and organic nutrient management practices under terai region of West Bengal. *Environment and Ecology*. **34**(3):867-870. ISSN: 0970-0420.
49. Datta, S. and **Jana, J. C.** 2016. Growth, yield and important quality attributes of Chilli (*Capsicum* sp.) genotypes under the sub Himalayan tracts of West Bengal. *Indian Journal of Horticulture*. **73**(1):66-73. ISSN 0972 8538.
50. Datta, S., **Jana, J. C.**, Bhisare, P. T. and Nimbalkar, K. H. 2017. Effect of organic source of nutrients and biofertilizers on growth, yield and quality of



turmeric (*Curcuma longa* L.). *Journal of Applied and Natural Sciences*. **9**(4): 1981-1986. ISSN 0974-9411.

51. Sen, A., Khade, S. D., **Jana, J. C.** and Choudhuri, P. 2019. Effect of integrated nutrient management on growth, yield and quality attributes of black cumin (*Nigella sativa* L.) var. RajendraShyama grown under terai zone of West Bengal. *Journal of Spices and Aromatic Crops*. **28**(1): 61-65. ISSN: 0971-3328.

### 7. Guidance of Ph. D. Students (upto 2019):

	<b>Scholar Name</b>	<b>Thesis Topic</b>	<b>Status &amp; Year</b>
1.	Mr. B. Talukder	Studies on the effect of biofertilizers on growth, yield and nutraceutical quality of chilli.	<i>Completed 2008</i>
2.	Mr. R. Chatterjee	Production of vermicompost from vegetable wastes and its effect in integrated nutrient management for vegetable production	<i>Completed 2009</i>
3.	Mr. S. Datta	Studies on genetic divergence and stability of chilli	<i>Completed 2009</i>
4.	Mr. P. Chaudhuri	Growth, yield, quality and economic impacts of intercropping in vegetables and spice crops	<i>Completed 2011</i>
5.	Mr. R. K. Sarkar	Response of different agro-techniques on growth, yield and quality of water spinach ( <i>Ipomoea reptans</i> )	<i>Completed 2012</i>
6.	Mr. K. H. Nimbalkar	Mulches and Row Covers effect on Growth and Yield of Bitter Gourd and Summer Squash	<i>Completed 2014</i>
7.	Ms. S. Subba	Evaluation of conventional and organic nutrient management on crop growth and yield and soil fertility in okra-broccoli-amaranth production system	<i>Continuing</i>
8.	Mr. T. Das	Growth, yield and profitability of cabbage on polyethylene film mulch with different planting dates, spacing and levels of nitrogen.	<i>Continuing</i>

<b>Scholar Name</b>	<b>Thesis Topic</b>	<b>Status &amp; Year</b>
9. Ms. K. Ghosh	Studies on growth, yield and shelf-life of okra ( <i>Abelmoschus esculentus</i> (L.) Moench) as influenced by date of sowing, spacing and storing packages.	<i>Continuing</i>

### 8. Any other relevant information:

#### 8.(a) Training / Winter School / Summer School attended:

<b>Type</b>	<b>Title</b>	<b>Organized by</b>	<b>Duration</b>
Winter School	Post Harvest Management of Fruits, Vegetables and Flowers	Division of Fruits & Horticultural Technology , IARI, Pusa, New Delhi-12	26 Dec.2001 -15Jan.2002
Training	Faculty Development Programme on Advances in Educational Technology	National Academy of Agricultural Research Management (NAARM), Hyderabad, India	11-31 May 2005
Advanced Training	Nutrient Management to Optimize Crop Production: A Physiological Approach	UNDP Centre of Advanced Studies in Plant Physiology, Narendra Deva University of Agriculture and Technology, Kumarganj-224229, Faizabad, U.P., India	14November – 4December, 2006
Training	Capacity Building on e-Waste Management	National Institute of Electronics and Information Technology (NIELIT)	08 May 2017

#### 8.(b) Scheme / Project handled: 04

<b>Sl. No</b>	<b>Project/ Scheme</b>	<b>Funded from</b>	<b>Associat- ed as</b>	<b>Crop</b>	<b>Programme</b>	<b>Period</b>
1.	AICRP on Spices	ICAR	Hortic- ulturist (Deputed)	Turmeric, Ginger- Black pepper	Crop Manage- ment trials	2000- 2013
2.	Integrated Programmes	Director-ate of	Associ- ated	Major Spices of	Seed Production and its	2002- 2005

Sl. No.	Project/ Scheme	Funded from	Associated as	Crop	Programme	Period
	for Development of Spices Scheme	Arecanut & Spices Development, GOI	Teacher & In-Charge	North Bengal	distribution, and Transfer of Technology Programme	
3.	National Horticulture Mission- Organising National Workshop	Directorate of Arecanut & Spices Development, GOI	Acted as Convener-cum Organising Secretary	-	National Workshop on Spices and Aromatic Plants	16-17 Jan., 2008
4.	National Horticulture Mission- Developmental Programmes on Spices	Directorate of Arecanut & Spices Development, GOL	Associated Teacher & In-Charge	Major Spices of North Bengal	Seed Production and its distribution	2005-2013

### 8.(c) Research Achievements in developing New Variety and Production Technology (from ICAR-AICRP on Spices):

- Ginger- '**Mohini**'-Notified as a National Level Variety by Central Variety Release Committee, Govt. of India in the year 2017.
- Turmeric- '**Suranjana**' and '**Uttar Rupanjana**' –State Level Varieties by State Variety Release Committee, Govt. of West Bengal in the years 2005 and 2018, respectively.
- In Ginger-02(two) technologies (Standardized organic and integrated nutrient management) and
- in Turmeric-02 two technologies (Standardized organic and integrated nutrient management). All of these were accepted and published by the ICAR-AICRP on Spices, IISR, Calicut.

### 8.(d) Seminar/Symposium/Workshop/Conference/Congress/Summit attended:23

Sr. No.	Type	Title	Organized by	Place	Date	Attended as
1	Workshop	Better Packaging Technology of Fruits and Vegetables	Deptt. of Agricultural Marketing, Govt. of West Bengal	Kanchanjung ha Stadium, Siliguri, Darjeeling	19-20 Jan. 2001	Participated as Resource Person
2	Workshop	AICRP on Spices	ICAR	KAU, Vellanikara, Kerala	1-3 Nov.	Participated as

Sr. No.	Type	Title	Organized by	Place	Date	Attended as
					2001	Horticulturist
3	National Seminar	Ramie ( <i>Boehmerianivea</i> ) an important cash crop	UBKV	Pundibari, Cooch Behar	12-13 Feb. 2002	Participated
4	Workshop	Better Packaging Technology of Fruits and Vegetables	Deptt. of Agricultural Marketing, Govt. of West Bengal	Regulated Market, Malda	19-20 Feb. 2002	Participated as Resource Person
5	Workshop	XVII Workshop of AICRP on Spices	ICAR	IISR, Calicut, Kerala	3-5 Feb. 2004	Participated as Horticulturist
6	National Conference	Organic Farming for Sustainable Production	The Horticulture Society of India, New Delhi	ICAR-NASC Complex, New Delhi	23-25 March, 2004	Participated
7	National Conference	Seed: A Global Perspective	Indian Society of Seed Technology	ICAR-NASC Complex, New Delhi	26-28 March, 2004	Participated
8	Workshop	Human Nutrition for Good Health	Deptt. of Health, Govt. of W.B.	Cooch Behar	22 April, 2004	Participated as Resource Person
9	Workshop	Export Promotion of Agril. Commodities	Deptt. of Agril. Marketing, Govt. of W.B.	Regulated Market, Siliguri	14-15 July, 2004	Participated as Resource Person
10	Regional Seminar	Commercial Hi-Tech cultivation of Vegetable Crops and hybrid seed production .	Urivi-Vikram Charitable Trust, NHRDF and Sri Chhotu Ram Educational & Cultural Society	IARI, New Delhi	29-30 September, 2004	Participated
11	Congress	First Indian Horticulture Science Congress-2004	The Horticulture Society of India, Delhi	NPL Auditorium, New Delhi	6-9 Nov. 2004	Participated & Presented Paper
12	Congress	Seventh Agricultural	National Agricultural	MPKV, Pune	16-18 Feb.	Participated & Presented

<b>Sr. No.</b>	<b>Type</b>	<b>Title</b>	<b>Organized by</b>	<b>Place</b>	<b>Date</b>	<b>Attended as</b>
		Science Congress	Science Academy , New Delhi		2005	Paper
13	National Conference	Alliums	Association of Allium Workers in India and Institute of Agricultural Sciences , Banaras Hindu University	Varanasi	24-25 Feb. 2005	Participated & Presented Paper
14	Summit	Agriculture Summit 2005	Ministry of Agriculture, Govt. of India & FICCI	VigyanBhavan, New Delhi	9-10 April 2005	Participated & Presented Paper
15	International Conference	First International Conference on Indigenous Vegetables and Legumes	AVRDC, Taiwan	ICRISAT, Hyderabad	12-15 December. 2006	Participated & Presented Paper
16	Symposium	Symposium on Conservation of Biodiversity	Acharya B.N. Seal College, Cooch Behar	Cooch Behar	18 <sup>th</sup> March, 2007	Invited Speaker
17	International Symposium	Underutilized Plant Species for food, nutrition, income and sustainable development	International Centre for Underutilised Crops (ICUC)	Arusha, Tanzania	3-7 March, 2008	Participated & Presented Paper
18	International Level	Performance of vermi-compost and farmyard manure in integrated nutrient management of palak.	ICAR	National Academy Agricultural Sciences, ICAR, New Delhi	4-7 Feb., 2009	Participated & Presented Paper
19	International Level	Productivity and curcumin content of turmeric as	2 <sup>nd</sup> International Symposium on Medicinal	AIIMS, New Delhi and ISHS, Belgium	25-27 Nov.,	Participated & Presented Paper

Sr. No.	Type	Title	Organized by	Place	Date	Attended as
		affected by inorganic nitrogenous fertilizer, organic manure and biofertilizer.	and Nutraceutical Plants by ISHS		2009.	
20	International Level	Protected vegetable cultivation technology to offset climate change.	International Seminal 2010 on Climate Change and Environment challenges in 21 <sup>st</sup> Century by Rajshahi University.	Rajshahi University, Bangladesh	7-9 Dec., 2010	Participated & Presented Paper
21	International Level	Effect of organic, inorganic source of nutrients and <i>Azospirillum</i> on yield and quality of turmeric ( <i>Curcuma longa</i> L.).	IV- International Conference on Landscape and Urban Horticulture- ISHS	ISHS and BCKV, Kolkata	25-26 November 2013	Participated & Presented Paper
22	International Level	Early bitter gourd crop by low polyethylene tunnels and mulches.	Bitter gourd conference by AVRDC	AVRDC- The World Vegetable Center, South Asia, Hyderabad	20-21 March, 2014	Participated & Presented Paper
23	International Level	Nitrate problem in vegetables.	Nutritional livelihood and environmental security in hills	RRS, Hill Zone, UBKV, Kalimpong, West Bengal	22-24 May, 2014	Participated & Presented Paper

**8.(e)Society /Journal Membership:**

<b>Sl. No.</b>	<b>Name of the Journal</b>	<b>Address of the Society</b>	<b>Category</b>
1.	Vegetable Science	Journal of the Indian Society of Vegetable Science ,Indian Institute of Vegetable Research,1,Gandhi Nagar (Naria), P.B.No. 5002,P.O.-BHU,Varanasi-221005, U.P. ,India	Life Member since 1999
2.	Journal of Spices and Aromatic Crops	Journal of the Indian Society for Spices, Indian Institute of Spices Research ,P.B.No. 1701, Marikunnu Post,Calicut-673012, Kerala, India	Life Member since 2001
3.	Seed Research	Journal of the Indian Society of Seed Technology, Indian Agricultural Research Institute, New Delhi -110012, India	Life Member since 2002
4.	Indian Journal of Horticulture	Journal of the Indian Society of Horticulture, Indian Agricultural Research Institute, New Delhi -110012, India	Life Member since 2002