Bio-Data

Dr. SOUMENDRA CHAKRABORTY
Father's name: Late S.N. Chakraborty
Date of birth: 2nd January, 1972

Official address:

Department of Genetics and Plant Breeding
Uttar Banga Krishi Viswavidyalaya
P.O. Pundibari, Dist. Cooch Behar, Pin-736165

Present Home Address:
A1/B2 University Staff Quarter, UBKV, P.O. Pundibari, Cooch Behar, Pin: 736165

Permanent Address:

90, Rajdanga School Road. P.O. East KolkataTownship Kolkata. Pin: 700107
E-mail: soumendra1@gmail.com **;** soumendrachakraborty@ymail.com

Mobile: 9474092958; 7687815486

Present Designation: Associate Professor

Significant achievements:-

1. **Developed Ginger** variety **as a breeder Mohini (UBKV AADA-1)** which is **notified for national release** throughout India in ginger growing states by Department of Agriculture and Farmers Welfare, Govt. of India on 16th January, 2018. Novel and distinguishing Characteristics of the variety**: (a) Bold size, (b) high yield, (c) high dry recovery content, (d) high range of essential oil and oleoresin content**.
   Web information: http://egazette.nic.in/WriteReadData/2018/182038.pdf
2. Co-operated in developing Turmeric Variety (**name included as breeder**) **ACC-48** from IISR (Indian Institute of Spices Research) which is recommended for national release throughout India in 27th Workshop on AICRP on Spices held in NRCSS, Ajmeer, Rajasthan. Novel and distinguishing characteristics of the variety are- **High curcumin content, bold size, high yield, highly resistant to root knot nematode and short duration**.
3. Registration of turmeric genotype TCP-129- (**IC0615165); registration number INGR-16033** from **NBPGR Genebank** for *highly leaf spot and leaf blotch disease tolerant*

character in 2016.

http://www.nbpgr.ernet.in/Downloadfile.aspx?EntryId=7367 Please see page number 99.

Details of the ongoing work and completed

5. Research Activities :

A. Completed Project/ Programme : AICRP on Medicinal and Aromatic Plants (2012-13 to 2013-14)

i. Title of the Project/ Programme : **Development of DUS descriptors in highly endangered medicinal plant *Swertia chirayita***

ii. PI & Co-PI : Dr. Satyabrata Maiti, Director and Project coordinator, DMAPR

iii. Budget and Funding agency : **ICAR**

iv. Objective : **To develop DUS descriptors in highly endangered medicinal plant *Swertia chirayita* (continued from 2008)**

v Salient outcomes

1. DUS descriptors outlined
2. Characterization submitted to DMAPR

   Published in **Annual report (ISSN 0975-394X) by** Indian Council of Agricultural Research- **DMAPR 2012-13. Page No: 4, 34**.
3. **24 lines** developed and submitted to UBKV
4. IC numbers received from **NBPGR** for the ***Swertia chirayita* lines** and documented in university website.

   IC-0613949 **(**Plant height ranges 48.3 to 157.4 cm and categorized as dwarf to extra tall)

   IC-0613950 **(**Plant height ranges 21 to 165.6 cm and categorized as extra dwarf to extra tall) .

A. Completed Project/ Programme : **AICRP on Medicinal and Aromatic Plants (2012-13 to 2013-14)**

i. Title of the Project/ Programme : **Development of DUS descriptors in highly endangered medicinal plant *Valeriana jatamansi* (continued from 2008)**

ii. PI & Co-PI : Dr. Satyabrata Maiti, Director and Project coordinator DMAPR (Directorate of medicinal and Aromatic Plants

Research)

iii. Budget and Funding agency	**:**	ICAR
iv. Objective	**:**	**To develop DUS descriptors in medicinal plant *Valeriana jatamansi***
Salient outcomes		1. DUS descriptors outlined 2. Developed **9 lines** of *Valeriana jatamansi* (A highly endangered IUCN listed high value medicinal Plant) and DUS characterization is going on in gene bank located in Regional research Station Kalimpong. 3. Characterization was published in **Indian Council of Agricultural Research DMAPR 2012-13 (ISSN 0975-394X).** page no: 39**.** 4.IC NUMBERS received for **each line from NBPGR IC-0613939 , IC-0613940, IC-0613941, IC-0613942, IC-0613943, IC-0613944, IC-0613945, IC-0613946, IC-0613947 .**

Completed Project/ Programme	**:**	**AICRP on Medicinal and Aromatic Plants (2012-13 to 2013-14)**
Title of the Project/ Programme	**:**	**Collection, characterization of *Centella asiatica***
PI & Co-PI	**:**	Dr. Satyabrata Maiti, Director and Project coordinator DMAPR (Directorate of medicinal and Aromatic Plants Research)
Budget and Funding agency	**:**	ICAR
Objective	**:**	**To characterize the collections/accessions of *Centella asiatica***

Salient outcomes **:** Characterization done. IC numbers were received for individual accessions after characterization from NBPGR.

They are: **IC-0613919, IC-0613920, IC-0613921, IC-0613922, IC-0613923, IC-0613924, IC-0613925, IC-0613926, IC-0613927, IC-0613928.**

Ongoing Project/ Programme : AICRP on SPICES (2014-15 to 2016-17)

Title of the Project/ Programme : Collection, characterization of ginger germplasm

PI & Co-PI : Dr. K. Nirmal Babu , Director and Project Co-ordinator
Indian Institute of Spices Research

Budget and Funding agency : ICAR

Objective : Collection of different ginger genotypes/accessions from different regions of West Bengal and India in order to make a broad genetic base in the field gene bank in UBKV.

Salient outcomes :

1. Collection of 71 genotypes/accessions were done

2. 63 genotypes/accessions were assigned IC numbers from NBPGR. GCP-01 (IC-0614507) to GCP -66 (IC- 0614569).

Ongoing Project/ Programme : AICRP on SPICES (2014-15 to 2016-17)

Title of the Project/ Programme : Collection, characterization of turmeric genotype/accession

PI & Co-PI : Dr. K. Nirmal Babu , Director and Project Co-ordinator
Indian Institute of Spices Research

Budget and Funding agency : ICAR

Objective : Collection of different turmeric genotypes/accessions from different regions of West Bengal and India in order to make a broad genetic base in the field gene bank in UBKV.

Salient outcomes :

1. Collection of 216 genotypes/accessions were done

2 212 genotypes/accessions were assigned IC numbers from NBPGR including wild relatives of turmeric like blue turmeric and mango ginger.

IC-0615085 to IC-0615296.

Ongoing Project/ Programme : AICRP on SPICES (2014-15 to 2016-17)

Title of the Project/ Programme	**:**	**CVT trial on ginger (2013-14 ended in 2016-17) (IET 2009 -10 to 2012-13)**
PI & Co-PI	**:**	Dr. K. Nirmal Babu , Director and Project Co-ordinator Indian Institute of Spices Research
Budget and Funding agency	**:**	ICAR
Objective	**:**	**To develop ginger variety having bold rhizomes, high dry recovery percentage, high oleoresin and high essential oil content**

Salient outcome : Ginger variety GCP-49 (IC-0614552)- (MOHINI) Developed and released for **national release** throughout the country in 27th Workshop held in NRCSS Rajasthan**. (http://egazette.nic.in/WriteReadData/2018/182038.pdf)**

It has

i) **High dry recovery percentage (21.7%)**

ii) High oleoresin content (4.1%)

iii) High essential oil content (1.3%)

iv) High yield (14t/ha).

Ongoing Project/ Programme : AICRP on SPICES (2014-15 to 2016-17)

Title of the Project/ Programme	**:**	**CVT trial on turmeric (2013-17) (IET 2008 -13)**
PI & Co-PI	**:**	Dr. K. Nirmal Babu , Director and Project Co-ordinator Indian Institute of Spices Research
Budget and Funding agency	**:**	ICAR
Objective	**:**	**To develop turmeric variety having bold rhizomes, high dry recovery percentage, high curcumin content**

Salient outcomes : Among CVT trials, TCP-64 was developed where it has high dry recovery percentage and higher yield than local check TCP-2 and national check Prativa.

Total Professional Experience (Post held with period) since joining – 11years

Professional Training: **- 21 days Training Programme** successfully completed on Advances and accomplishments of innovative resistance breeding techniques in crop

improvement" by Tamil Nadu Agricultural University, Coimbatore**.**

Experience as Research scientist- (3years) **Research Scientist:**

Establishment of Seed Research centre at Calcutta University College of agriculture. Principal Investigator: Dr. Aloke Kumar Mandal, Reader, Seed Science and Technology, institute of Agricultural Science, Calcutta University.

Scholarships and Awards

1. ***National Scholarship*** from Govt. of West Bengal (1990)
2. B.Sc.(Ag.) Graduate -***University Merit Scholarship*** (1991-94)
3. M.Sc. (Ag.) Genetics and plant Breeding- ***University Merit Scholarship*** (1995-97).
4. ***Bharat Jyoti Award*** 2011 given by Ex. Governor Bhismanarayan Singh by India International Friendship Society (Registered Society), New Delhi, India.
5. ***International Gold Star Award*** (2012) by India International Friendship Society (Registered Society), New Delhi, India.
6. ***Outstanding Scientist Award*** (2015) by Venus International Foundation (Registered Society), Chennai.

Manuscripts in National and International Journals

Sl No:	Name	Title of the paper	Journal name	Year	NAAS/other ranking
1.	**S Chakraborty, S.Datta, A. Debnath and M.K.Roy**	Evaluation of some important ginger genotypes in terai region of West Bengal	**International journal of Science, Environment and Technology** Vol 7, No. 2 pp. 715-722.	2018	**NAAS - 3.98**
1.	Bikash Chandra Deb and **Soumendra Chakraborty**	Evaluation of Genetic Variability and Characterization of Some Elite Turmeric Genotypes in Terai Region in India	***International Journal of Current Microbiology and Appiled Sciences.*** Vol 6(5) pp.2357- 2366.	2017	**NAAS-5.38**
2.	S. Datta, **S. Chakraborty**, J.C. Jana, A. Debnath, M.K. Roy and S. Haque.	Effect of Different Micronutrients on Turmeric Variety Suranjana in Terai Region of West Bengal, India.	***International Journal of Current Microbiology and Appiled Sciences.*** Vol. 6(5). pp. 1471-1482.	2017	**NAAS-5.38**

3.	**S. Chakraborty**, S. Dutta, A. Debnath, S. Bandopadhya, M.K. Roy and S. Haque	Evaluation of some turmeric genotypes in terai region of West Bengal.	***International Journal of Science, Environment and Technology.*** Volume 6, Issue 2 (Apr 2, 2017).	2017	**NAAS-3.98**
4.	**Chakraborty, S.,** Mukherjee, D. and Baskey, S.	Morphological diversity and nomenclature of *Swertia chirayita* (Gentianaceae) -recovery of endangered medicinal plant population in Eastern Himalaya.	***American Journal of Plant Science*****,April,2016,Vol. 7,No.6**.741-755.DOI: http://dx.doi.org/10.4236/ajps.2016.76068.	2016	**NAAS: 3.91**
5.	S. Baskey, S. Hembrom, S. Ali, B.R. Sharma, B. Tudu and **S. Chakraborty**	Survey on fungal diseases of *Swertia chirayita* in Darjeeling district of West Bengal, India.	***International Journal of Sciences & Applied Research*** . 3(3), 86-89.	2016	-
6.	Baskey, S. Hembrom, S. Ali, B.R. Sharma, B. Tudu and **S. Chakraborty**	First Report of leaf blight (*Cladosporium tenuissimum* Cooke) on *Swertia chirayita*- A critically endangered medicinal plant of sub-Himalayan zone.	***International Journal of Recent Scientific Research***, Vol. 7, Issue, 2, pp. 8923-8925.	2016	-
7.	S Baskey, S. Hembrom, S. Ali, B.R. Sharma, B. Tudu and **S. Chakraborty**	Stem rot, a new disease of *Valeriana jatamansi* in the sub-Himalayan zone of Darjeeling district of West Bengal, India	***International journal of Applied and Pure science and Agriculture***, Vol 2 (2). E-ISSN: 2394-5532, p- ISSN: 2394-823X.	2016	-
8.	I. sarkar and **S. Chakraborty**	Varietal performance and choice of exotic and indigenous gladiolus varieties in North Eastern Himalayan region.	***Eco. Env. & Cons.*** 22 (December Suppl.) : 2016; pp. (S181-S187)	2016	**NAAS : 4.89**
9.	**S. Chakraborty**, A. Debnath, S. Bandopadhya S. Datta, , S. Haque and M.K. Roy.	Evaluation of turmeric germplams for tolerance to foliar diseases in terai region of West Bengal**.**	***International Journal of Agricultural Science and Research*** ISSN(P): 2250-0057; ISSN(E): 2321-0087, 6 (4),61-68.	2016	**NAAS 4.13.**
10.	S.Bandopadhya, **S.Chakraborty**, S. Datta, A. Devnath, M. K. Roy and S.	Conservation and evaluation of turmeric germplasms in Terai	***Ecology, Environment and Conservation* 2016** (April Suppl.) (ISSN 0971–765 X): 2016; pp. (S299-	2016	**NAAS : 4.89**

	Haque	region of West Bengal.	S302).		
11.	**Chakraborty, S.,** Mukherjee, D. and Baskey, S.	Floral Homeostasis Breakdown in Endangered Plant *Valeriana jatamansi* Jones (Valerianaceae) in North Eastern Himalayan Region.	***American Journal of PlantSciences,* 6** ,3119-3138. http//doi.org/10.4236/ajps.2015.619304.	2015	**NAAS: 3.91**
12.	**Soumendra Chakraborty**, Dhiman Mukherjee and Sibdas Baskey	Selection of lines of *Valeriana jatamansi* Jones and in a high value introduced medicinal plant in North Eastern Himalayan region	***Indian Journal of Genetics and Plant Breeding* ISSN : 0019-5200; Online ISSN: 0975-6906. DOI :** 10.5958/0975-6906.2015.00066.8 pp. 404-407**.**	2015	**NAAS : 6.28**
13.	**Soumendra Chakraborty**, Sibdas Baskey and Dhiman Mukherjee	Indian valerian, a highly endangered medicinal plant in North Eastern Himalayan region.	***Advances in Plant and Agricultural Research*. (ISSN No. 373-6402)Vol2 (4).**DOI No**.** 10**.**15406/apar**.**2015**.**02**.**0 0058**.**	2015	-
14.	**Chakraborty Soumendra,** Dhiman Mukherjee and Sibdas Baskey	Paradigm of demographic stochasticity- Way to extinction of *Valeriana jatamansi* Jones, a high value medicinal plant in North Eastern Himalayan region	***Ecology, Environment and Conservation*** **(ISSN No. 0971-765X**) Vol. 21(1) , 521-528	2015	**NAAS : 4.89**
15.	Dhiman Mukherjee and **Soumendra Chakraborty**	Studies on ecology, habitats diversification and seed germination behavior of *Valeriana jatamansi* Jones: A critical endangered plant	***International Journal of Agricultural Sciences*. (ISSN No. 2167-0447).** Vol.4 (5), pp 203-209	2014	**International Impact factor 4.23**
16.	Dhiman Mukherjee**, Soumendra Chakraborty** and Sibdas Baskey	Threatened medicinal plant biodiversity of eastern Himalaya and its conservation	***Journal of Agriculture Technology***. (**ISSN No. 2348-4721)**. Vol 1(2), 85-90**.**	2014	-
17.	**Soumendra Chakraborty**, Dhiman Mukherjee	Role of demographic stochasticity on erosion of genetic variability of	***Journal of Agriculture Technology*. ISSN NO.**	2014	-

	and Sibdas Baskey	*Valeriana jatamansi* Jones, a high value introduced medicinal plant in North Eastern Himalayan region'	**2348-4721.** Vol. 1(2) 38-43.		
18.	Indrajit Sarkar and **Soumendra Chakraborty**	Varietal performance on important floral attributes of 15 indigenous and exotic varieties of Gladiolus in North Eastern Hill region.	***Journal of Agriculture and Technology,* (ISSN NO 2348-4721);** Vol.1 (1) pp.80-85	2014	-
19.	Dhiman Mukherjee, **Soumendra Chakraborty**, Sibdas Baskey and Sajeed Ali	Studies on Effect of Time of Sowing and Crop Geometry on Growth and Economic Yield of *Valeriana Jatamansi*	***Himalayan Research Journal***. (**ISSN No**. : **2278-280 X).** Vol**.**1**,** 80-86	2014	-
20.	Dhiman Mukherjee and **Soumendra Chakraborty**	Effect of hormonal treatment on seed germination of *Valeriana jatamansi*.	***Journal of Medicinal and Aromatic Plant Sciences***. (**ISSN No. 0253-7125).** 0974-1712.Vol 32 (2) pp. 145-147**.**	2010	**NAAS: 4.49**
21.	**Chakraborty Soumendra**, Mukherjee Dhiman and Dasgupta Tapas	Cytological study on chromosome behaviors and new report on nature of mode of pollination of *Swertia chirayita*, a high value endangered medicinal plant of North Eastern Himalayan region.	***Caryologia***, (**ISSN No**.**2165-5391)**, 62,(1), pp.43-52. **DOI: 10.1080/00087114.2004.10589665.**	2009	**NAAS : 6.52**
22.	Mukherjee Dhiman, **Chakraborty Soumendra**,Roy Amar and Moktan M.W.	Differential approach of germplasm conservation of high value medicinal plants in North Eastern Himalayan region.	***International Journal of Agriculture, Environment and Biotechnology* (ISSN No. 0974-1712)**, Vol.2 (4). pp. 332-340.	2009	**NAAS**: **4.69**
23.	Mukherjee, Dhiman and **Chakraborty Soumendra**.	Seed germination of *Swertia chirayita* L. as influenced by hormonal treatments and growing media.	***Indian Agriculturist*.**52(1&2):43-47**.ISSNNo:0019-4336.**	2008	**NAAS : 4.11**
24.	Mukherjee Dhiman and **Chakraborty**	Effect of of growth hormones on seed	***Environment and Ecology,*** 26 (4B): 21:	2008	**NAAS: 4.18**

	Soumendra	germination and growth pattern of *Swertia chirayita*. L.	16-18, **ISSN 0790-04**		
25.	**S. Chakraborty**; S Bhattacharya, N Mandal and P.K. Das	Analysis of Biochemical parameters in at boot leaf stage in rice (*Oryza sativa* L.).	***Cell and Chromosome Research***, Vol.24: 43-47	2004	-
26.	**Chakraborty S**. Bhattacharya S, Mondal N and P.K. Das.	Biochemical profiling of three line rice hybrids.	***Cell and Chromosome Research***, vol.23, Page 11-16.	2003	-
27.	**Chakraborty S.**, Bhattacharya S and N. Mondal	Analysis of peroxidase activities in CMS, Restorer and F1 hybrids of rice (*Oryza sativa* L.) during reproductive stages.	***Journal of Interacademecia***. Vol 5, Page 5-8**.**	2002	**NAAS 3.96**
28.	**S. Chakraborty**, Bhattacharya, S. and Mondal N.	Chlorophyll and soluble proteins as biochemical measures of heterosis in rice (*Oryza sativa* L.).	***Indian Biologist***. Vol. 33, pp. 78-81**.**	2001	**NAAS: 3.35**
29.	**Chakraborty S**., Bhattacharya S and N. Mondal	Analysis of Mitochondrial Adenosine triphosphatase and succinic dehydrogenase activity during reproductive stage in hybrid rice.	***Indian Biologist***, Vol 33, pp. 81-83	2001	**NAAS: 3.35**

National and International Conferences

1. **S. Chakraborty**, N. Ghosh, N.R.Das and M. Ghosh **(1999).** Accelerated ageing test for evaluating storability of Tossa Jute (*Corchorous olitorius* L.) seeds. Abstract presented at **World Seed Conference, Cambridge, London**, organized by International Seed testing Association (ISTA), Rome Italy.
2. **S. Chakraborty** and Nabinananda Ghosh **(1999).** Use of accelerated ageing test in laboratory

of Tossa jute. Oral presentation in **6th West Bengal State Science and Technology Congress** held at B.E. College, Shibpur.

3. **S. Chakraborty** and D Mukherjee **(2013). International Conference on Bio-Resource and Stress Management** on oral presentation on 'Indigenous knowledge and Practices of Endangered and High Value Medicinal Plants among Nepalese Community in Darjeeling Himalaya' held at Science City auditorium, Kolkata, 6-9 February, 2013.

4. Mukherjee, Dhiman, **Chakraborty, S** and Baskey, S. **(2013).** Effect of time of sowing and plant spacing on growth and yield of *Valeriana jatamansi* in Darjeeling Himalaya. *(In)* Abstract **National Conference** on "Integration of Medicinal and Aromatic Plants for Rural Development and Prosperity". January, 22-23. Medicinal and Aromatic Plants Association of India (MAPAI). Anand, Gujrat, India . p 23.

5. Certificate of **'**Appreciation on Festival on **Darjeeling Mandarin and Large Cardamom Cum Farmer's Training'** 11th October- 13th October, (2013) held at Town Hall, Kalimpong, Darjeeling.

6. Certificate on **'Fertilizer Orientation course'** conducted by the Fertilizer association of India- eastern region held on 26-27 August, (2011) at Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal.

7. Certificate on '**Training Programme on tree Borne Oilseed Species**: **Ecological and economic Benefits,** held at 27-28th March,(2009), at Darjeeling Krishi Vigyan Kendra, Kalimpong.

8. Certificate on **'Bioinformatics and its application' (2000)** held at Indian Institute of Technology on 29-20th September,.

9. Soumendra Chakraborty, Dhiman mukherjee and Sibdas Baskey **(2014).** Reproductive phenological plasticity of highly endangered medicinal plant Valeriana jatamansi Jones in north eastern Himalayan region' poster presentation in **National Symposium** on sustainable agriculture for food and nutritional security in east and north east India : Prospect & Future held on 1st March,2014 at Kennedy Hall, Institute of Jute Technology, Calcutta University, and organized by Association for Plant Breeding and Improvement, in collaboration with Institute of Agricultural Science, University of Calcutta.

10. Soumendra Chakraborty, Dhiman Mukherjee and Sibdas Baskey **(2014).** 'Role of demographic stochasticity on erosion of genetic variability of *Valeriana jatamansi* Jones, a high value introduced medicinal plant in North Eastern Himalayan region' poster presentation for the **National Conference on** "Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood" held from 5-7th March, 2014 at Uttar Banga Krishi Viswavidyalaya.

11. Indrajit Sarkar and **Soumendra Chakraborty (2014).** Varietal performances on important floral attributes of fifteen indigenous and exotic varieties of gladiolous in North Eastern Himalayan region: Oral presentation of the seminar **National Conference** on "Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood" held from 5-7th March, 2014 at Uttar Banga Krishi Viswavidyalaya**.**

12. Dhiman Mukherjee and **Soumendra Chakraborty (2014).** Threatened medicinal plant biodiversity of eastern Himalaya and its conservation: poster presentation of the seminar **National Conference** on "Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood**"** held from 5-7th March, 2014 at Uttar Banga Krishi Viswavidyalaya.

13. Soumendra Chakraborty, Dhiman Mukherjee and Sibdas Baskey **(2014).** Selection and evaluation of lines of *Swertia chirayita*, a highly endangered medicinal plant in North Eastern Himalayan region**.** Poster Presentation on **International Conference on horticulture** held in Kalimpong, 22-24 May, 2014.

14. S. Baskey, **S. Chakroborty**, D. Mukherjee, B. R. Sharma, Dipak Nayak **(2014).** First Report of Leaf Blight on *Swertia chirayita*- A Critically Endangered Medicinal Plant of Sub-Himalayan Zone**,** Poster presentation on **International Conference on horticulture** held in Kalimpong, 22-24 May, 2014.

15. Dhiman Mukherjee, A. Roy, B. R. Sharma, T.S. Ghimeray, S. Gurung, S. Pal, I. Sarkar, **S**.**Chakraborty** and S. Baskey **(2014).** Underutilized crops of Darjeeling Himalaya: A Reappraisal. Poster Presentation on **International Conference on horticulture** held in Kalimpong**,** 22-24 May, 2014**.**

16. Bikash Deb and **Soumendra Chakraborty** (2015). Characterization of fifty indigenous germplasms of turmeric in terai region of West Bengal. Poster presentation on **International Symposium** on Next Generation Approaches for Sustainable Development of Hill and Upland Horticulture organized by department of Horticulture, Sikkim University, Gangtok, Sikkim on 5-7th November, 2015.

17. **Soumendra Chakraborty (**2016**).** Attended as a resource person in invitation of a State level Seminar held in RRS Majhian entitled '**Horticultural entrepreneurship in spices cultivation in West Bengal**' held in 14-15 December, 2016 by Dr. Suchand Dutta, MIDH Spices and Organizing Secretary, Uttar Banga Krishi Viswavidyalaya, Pundibari, Coochbehar, West Bengal.

18. **Soumendra Chakraborty** (2017). Attended as a resource person in invitation of a **State level seminar/workshop on spices** at FACC (Lake Hall) BCKV during 21-22 February, 2017 entitled "**Technology transfer of Spices in West Bengal**" by Prof. Dipak Kumar Ghosh PI,

CSS- MIDH Spices & Organizing Secretary, Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal.

Workshops attended

1. **Twenty seventh workshop** on All India Co-ordinated Research Project on Spices. 23-26th Octber , **(2016)** held at National Research Centre on Seed Spices (NRCSS), Ajmer, Rajasthan.
2. **Twenty sixth workshop** on All India Co-ordinated Research Project on Spices. 4-7th Spetember , **(2015)** held at **Indian Institute of Spices Research, Calicut, Kerala.**
3. **Twenty fifth workshop** on All India Co-ordinated Research Project on Spices. 25-27th September, **(2014)** held at **Uttar Banga Krishi Viswavidyalaya**, **Pundibari**, **Coochbehar, West bengal**.
4. The **XXI Group meeting** of the All India Co-ordinated Research Project on Medicinal, Aromatic Plants and Betelvine. September 23-26, **(2013). Tamil Nadu Agricultural University, Coimbatore, Tamilnadu.**

5.The **XX Group meeting** of the All India Co-ordinated Research Project on Medicinal, Aromatic Plants and Betelvine. October 03-06, **(2012)**. **CCS Haryana Agricultural University, Hisar, Haryana.**

6. The **XIX workshop** of the All India Co-ordinated Research Project on Medicinal, Aromatic Plants and Betelvine. September 21-24, **(2011). Dr. Y.S. Parmar university of Horticulture & Forestry, Solan.**

7. The XVIII workshop on All India Co-ordinated Research Project on Medicinal, Aromatic Plants and Betelvine. November 7-11, **(2010). Mahatma Phule Krishi Vidyapeeth, Pune.**

8. The XVII workshop of All India Co-ordinated Research Project on Medicinal and Aromatic Plants. October 28 – November 1, **(2008). Kerala Agricultural University, Trichur, Kerala.**

No. of Students Guided:

1. **M.sc. – Completed -2, (1-Guide, 1-Member, advisory committee).**
   Continuing-2 (One-Guide, 1- member, advisory committee).
2. **Ph.D. – Completed 1 (Member, advisory committee).**
   Continuing 2 (Member, advisory committee).

Books Authored

Sl no.	Name of the books	Authors	ISBN No.	Publisher
1.	A Text Book of Practical Approaches in Seed Science and Technology	**Soumendra Chakraborty** and Dhiman Mukherjee	978-81-907421-4-6.	New Delhi Publishers, New Delhi
2.	Innovative Cultivation Practices of Critically Endangered Herb: *Swertia chirayita*	Dhiman Mukherjee, **Soumendra Chakraborty** and Amar Roy	978-93-5137-910-2	Directorate of Research, Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal
3.	Principles and Plant Breeding Methods of Field Crops in India	**Soumendra Chakraborty** and Tapash Dasgupta	978-81-907421-8-4	New Delhi Publishers, New Delhi
4.	A Manual on the Techniques of Plant Breeding	**Soumendra Chakraborty** and Bharat Chandra Saha	-	Uttar Banga Krishi Viswavidyalaya, Cooch Behar, West Bengal
5.	Genetics and Cytogenetics	**Soumendra Chakraborty**	978-93-85503-15-3	New Delhi Publishers, New Delhi

Members of Editorial Board of different National and International Journals

1. **Editorial Board member**- International Journal of Agriculture, Environment and Biotechnology – New Delhi.
2. **Editorial Board Member/Reviewer–** Greener Journal of Agricultural Sciences, Nigeria
3. **Editorial Board Member :** International Journal of Advanced Biological and Biomedical Research
4. **Editorial Board Member**- Journal of Maize Research and Development, Nepal.

Life member of Different Scientific Societies

1. Indian Association of Agricultural and Horticultural Sciences. Calcutta University, Ballygunge Science College Campus, Calcutta.
2. Medicinal and Aromatic Plant Society of India. Directorate of medicinal and

Aromatic Plants, Boriavi, Anand, Gujrat.

3. Indian Society of Genetics and Plant breeding, Indian Agricultural Research Institute, New Delhi.

4. Association for Plant breeding and Improvement. Institute of Agricultural Science, 35, Ballygunge Circular Road, Calcutta 700019.

5. Indian Science Congress Association. Biresh Guha Street. Kolkata.

Teaching Experience

Courses taken in department of Genetics and Plant Breeding, Uttar Banga Krishi Viswavidyalaya:

Graduate Level:

Course Number with credit hours	Course Name	Nature of teaching	Year of teaching
GPB 251 (2+1)	Breeding for horticultural crops	Collaborative	2016-17
GPB 405 (2+1)	Microbial and Environmental Technology	Collaborative	2015-16,2014-15
GPB 406 (2+1)	Molecular Diagnostics	Collaborative	2015 -16
GPB 101 (2+1)	Crop physiology	Collaborative	2011-12, 2012-13, 2013-14
GP 501(2+1)	Principles of Genetics	Collaborative	2012-13,2014-15, 2015-16
GP 502 (2+1)	Principles of Cytogenetics	Collaborative	201-13, 2014-15, 2015-16
GP 508 (2+1)	Cell Biology and Molecular Genetics	Collaborative	2011-12, 2014-15, 2016-17
GP 503 (2+1)	Principles of Plant breeding	Collaborative	2011-12
GP 516 (2+1)	Germplasm collection, exchange and evaluation	collaborative	2014-15

Ph.D.

GPB 601 (2+0)	Plant Genetic Resources and their Utilization	collaborative	2017-18
GPB 601 (2+0)	Plant Genetic Resources and their Utilization	collaborative	2014-15, 2015-16
GP 605 (2+0)	Advances in Plant Breeding	collaborative	2014-15
GP 603 (2+1)	Genomics in crop improvement	collaborative	2013-14
GP 607 (2+1)	Breeding designer crops	collaborative	2011-12
GP 604 (2+0)	Cellular and chromosomal manipulations in crop improvement	collaborative	2011-12

The above information provided is true to the best of my knowledge.

Soumendra Chakraborty