

## **BRIEF CURRICULAM VITAE OF DR. ABHIJIT BANDYOPADHYAY**

**Name:** Dr. Abhijit Bandyopadhyay

**Present designation:** Associate Professor

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**Academic qualification:** M.Sc. Ph.D.

**Numbers of projects handled:** Two

**Last project:**



<b>Title</b>	<b>Funding authority</b>	<b>Amount sanctioned</b>	<b>Year of completion</b>
Potentiality of Alternative Agriculture in Water Stressed Burdwan-A Case Study of Ausgram I and II Block	Department of Science and Technology, Government of West Bengal	5.6 lakh	2009-10

### **Details of publications (Major)/ Journals:**

1. D. Chakraborty, S. Maji, **A. Bandyopadhyay**, S. Basu – Biosorption of Cesium-137 and Strontium-90 by mucilaginous seeds of *Ocimum basilicum*. **Bioresource Technology** **98**: 2949-2952, 2007.
2. D. Chakraborty, S.M. Mondal, J.Chakraborty, P. K. Bhattacharyya, **A.Bandyopadhyay**, A.Mitra and K.Gupta -Antimicrobial activity of leaf extracts of *Basilicum polystachyon* (L.). Moench **Indian journal of Experimental Biology** **45**: 744-748, 2007
3. D. Chakraborty, **A. Bandopadhyay**, S. Bandyopadhyay, K. Gupta, A. Chatterjee- Use of response surface methodology for optimization of a shoot regeneration protocol in *Basilicum polystachyon* – **In Vitro Cell and Developmental Biology-Plant (Springer) DOI 10.1007/s11627-010-9309-4: 2010**
4. D. Chakraborty, **A. Badyopadhyay**, S. Badyopadhyay, K. Gupta and A. Chatterjee - Use of response surface methodology for optimization of a shoot regeneration protocol in *Basilicum polystachyon* - **In Vitro Cellular & Developmental Biology - Plant** **46(5)**: 451-459, 2010
5. T.Sinha, and **A. Bandyopadhyay** - Induction of callogenesis of *Ipomoea obscura* (L), Ker-Gawl, A little known medicinal plant- **African Journal of Biotechnology**, **10(82)**: 19161-19166, 2011
6. T. Sinha, and **A. Bandyopadhyay**- Ethno-Pharmacological importance and valuable phytochemicals of *Acalypha indica* (L.): A Review- **International Journal of Research in Pharmaceutical Sciences** **3(3)**: 1-9, 2012

7. A. Dey, S. Kundu, **A. Bandyopadhyay** and A. Bhattacharjee - Efficient micropropagation and chlorocholine chloride induced stevioside production of *Stevia rebaudiana* Bertoni - *Comptes Rendus Biologies* 1(336):17-28, 2013
8. A. Dey, S. Paul, S. Kundu, **A. Bandyopadhyay** and A. Bhattacharjee - Elevated antioxidant potential of chlorocholine chloride-treated *in vitro* grown *Stevia rebaudiana* Bertoni - *Acta Physiologiae Plantarum* 6(35): 1775-1783, 2013
9. A. Mukherjee, **A. Bandyopadhyay**, S. Dutta and S. Basu - Phytoaccumulation of iron by callus tissue of *Clerodendrum indicum* (L.) – *Chemistry and Ecology* 29(6): 564-571, 2013
10. S. Kundu, A. Dey and **A. Bandyopadhyay** - Stimulation of *in vitro* morphogenesis, antioxidant activity and over expression of kaurenoic acid 13-hydroxylase gene in *Stevia rebaudiana* Bertoni by chlorocholine chloride - *Acta Physiologiae Plantarum* 10(36): 2683-2693, 2014

#### **Details of publication (Book Chapter):**

1. A. Bandyopadhyay and J. Sharma- Assessment of biocontrol potential of few ferns of Darjeeling hills- In “Modern Trends in Environmental Pollution and Eco-planning” Ed by A. Kumar, ABD Publisher, Jaipur, India, p: 134 – 138, 1999

**Details of Ph.D. guidance (awarded / registered / thesis submitted):**

Name of the candidate	Title of the thesis	Supervisor(s)	Status
Dr. Dipjyoti Chakraborty	In vitro and I vivo studies in <i>Basilicum polystachyon</i> (L) Monnech with reference to growth, biomass and secondary metabolites.	Dr. Abhijit Bandyopadhyay and Prof. P. K. Bhattacharyya	Awarded 2007
Dr. Avishek Dey	Chlorocholine chloride induced modulation of growth, physiology and stevioside productivity of <i>Stevia rebaudiana</i> Bertoni under <i>in vitro</i> and field condition.	Dr. Abhijit Bandyopadhyay and Prof. Alope Bhattejee	Awarded 2013
Dr. Sayanti Kundu	Chlorocholine chloride (CCC) mediated resistance mechanism of <i>Steviarebau</i> Bertoni under induced pathogenic s by <i>Curvularia lunata</i> (Wakk.) Boedijn and <i>Alternaria alternata</i> (Fr.) Keissler	Dr. Abhijit Bandyopadhyay	Awarded 2014
Chandan Das	Allelopathy of <i>Shorea robusta</i> Gaerten.F – Its biochemical basis	Dr. Abhijit Bandyopadhyay	Registered
Tanmoy Sinha	In vitro studies and phytochemical analyses of <i>Ipomea obscura</i> (L) Ker-Gawl and <i>Acalypha indica</i> L.	Dr. Abhijit Bandyopadhyay	Registered

Anindita Mukherjee	Establishment of disease model sytem through in vitro techniques to isolate and characterize stress induced novel phytochemicals of <i>Clerodendrum indicum</i> L.	Dr. Abhijit Bandyopadhyay and Dr. Sikha Dutta	Registered
Santanu Gupta	Seed germination behavior, in vitro propagation and secondary metabolite profile of <i>Acalypha indica</i> L.	Dr. Abhijit Bandyopadhyay	Registered
Dhiman Saha	Investigation on stress induced changes in physiology and secondary metabolism of <i>Basilicum polystachyon</i> (L.) Moench	Dr. Abhijit Bandyopadhyay	Registered
Swastika Banerjee	Phytochemical profile, regeneration potential of <i>Buchanania lanzan</i> Spreng	Dr. Abhijit Bandyopadhyay	Registered
Moumita Das	Understanding the medicinal potential of <i>Elephantopus scaber</i> L.	Dr. Abhijit Bandyopadhyay and Prof. Ambarish Mukherjee	Registered

### **Present/Current Area of Research:**

- Growth retardant induced Stevioside production in *Stevia rebandiana* its metabolic manipulations
- Search for novel phytochemicals, phytochemical profiling & in vitro potential study of little explored medicinal plants like *Acalypha indica*, *Ipomea obscura*, *Clerodendrum indicum*
- Understanding the molecular dynamics of allelopathy of *Shorea robusta*
- Genomic and proteomic study of important metabolites of *Coleus forskohlii*, *Buchanania lanzan*, *Holoptalea integrifolia*

### **Extension activity:**

- Discharged duty of 'In-charge' of Crop Research and Seed Multiplication Farm.
- Involved in adaptation and field trial studies of selected germplasms of rice, pulse and oil seeds.
- Undertook hybrid rice and maize breeding programme in collaboration with Department of Agriculture, Govt. of West Bengal.
- Conducted awareness and Technical training programme for seed breeders and farmers in Crop Research and Seed Multiplication Farm, BU.