

# CURRICULUM VITAE

## Faculty Profile



**Dr. Anuradha Bandopadhyay**

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**Designation:** SACT1

**Department:** Post Graduate Department of Botany, Barasat Govt. College, Govt. of West Bengal,  
Barasat-700124

### **Educational qualifications:**

**Ph.D.:** In Botany from University of Calcutta

**M.Sc.:** In Botany from University of Calcutta

**B.Sc.:** In Botany from University of Calcutta

**GATE** qualified, 2003

**Specialization:** Mycology and plant pathology (M.Sc.)

Molecular plant pathology and microbial biotechnology (Ph.D.)

**Title of Ph.D. Thesis:** Studies on some aspects of disease of jute caused by *Macrophomina phaseolina* and its biological control

Ph.D. Supervisor: Prof. Nirmalendu Samajpati, Dept. of Botany, University of Calcutta

### **Teaching experience:**

1. Faculty, Post Graduate Department of Botany, Barasat Govt. College (2007- Till date)

2. Former Part Time Lecturer , Department of Botany, Dum Dum Motijheel College, 1, Motijheel Avenue, Kolkata-700 074
3. Guest Faculty, Post Graduate Department of Botany, Lady Brabourne College, P-1/2, Suhrawardy Avenue, Kolkata-700017
4. Trainer and examiner under Netaji Subhas Open University.

### **Professional Experience:**

1. Head-Project Research, Sudharma Krishi Consultants (P) Ltd, IIT-Kharagpur and ICAR-NIRJAFT Incubated Company.

### **Research Experience:**

1. Senior Research Fellow (SRF) in ICAR Cess Fund Ad hoc Scheme NS-51entitled ‘Studies on biological management of major diseases in jute with conservation and manipulation of natural agents’ in Division of crop protection, Central Research Institute for Jute and Allied Fibres (CRIJAF), Barrackpore, Kolkata – 700 120.
2. Research Scholar in Applied Mycology & Molecular Plant Pathology Laboratory, Dept of Botany, University of Calcutta, Kolkata 700 019.
3. Research Scholar in Mycology & Plant Pathology Laboratory, Dept of Botany, Former Presidency College, 86/1 College Street, Kolkata 700073.

### **Participation in Seminars/Conferences/Symposia/Workshop:**

#### **International level**

1. International Conferences on Biotechnology and Biological Sciences (BIOSPECTRUM 2020, virtual conference), organized by Department of Biotechnology, University of Engineering & Management, Kolkata in collaboration with SMART Society, USA, held from November 19-21, 2020. (Oral presentation)
2. International Conference on ‘Agriculture, Allied and Applied Sciences with special reference to Energy, Environment and Biotechnology Research’(ICAAS-2018), organized by Biologix Research and Innovation Centre Pvt. Ltd. (BRICPL) with Indian Society of Genetics, Biotechnology Research & Development (ISGBRD) and Biotechnology Society of Nepal held on April 28-29, 2018 at JNU Convention Centre, New Delhi. (Oral presentation)

3. 7<sup>th</sup> International Science Congress (ISC-2017) organized by International Science Community Association and College of Science and Technology, Royal University of Bhutan, held on 8<sup>th</sup> and 9<sup>th</sup> December, 2017 at College of Science and Technology, Rinchending, Phuentsholing, Bhutan. (Oral presentation)
4. International symposium on 'Role of Fungi and Microbes in the 21<sup>st</sup> Century-a Global Scenario', organized by Indian Mycological Society in collaboration with Department of Botany, University of Calcutta held on February 20-22, 2014, at Science City at Kolkata. (Oral presentation)
5. 1st Asian PGPR Congress for Sustainable Agriculture, organized by Acharya N.G. Ranga Agricultural University, Hyderabad, India and College of Agriculture, Auburn University, USA held on June 21-24, 2009 at Acharya N.G. Ranga Agricultural University, Rajendranagar, Hyderabad, India. (Oral presentation)
6. International symposium on 'Agriculturally Important Microorganisms: Conservation, Utilization, Bioremediation and Ecological Significance', organised by the Indian Mycological Society, Dept of Botany, University of Calcutta, held on February 23-25, 2006 at The Golden Park, 13, Ho Chi Minh Sarani, Kolkata. (Oral presentation)
7. International Conference on 'Emerging Technologies in Agricultural and Food Engineering (etae2004)', held on December 14-17, 2004, at Indian Institute of Technology, Kharagpur. (Oral presentation)
8. 6<sup>th</sup> International Workshop on 'Plant Growth Promoting Rhizobacteria', organized by Auburn University, USA and Indian Institute of Spices Research (ICAR), at Calicut, Kerala, India from October 5-10, 2003. (Poster presentation)

#### **National level**

1. National workshop on 'Genomics for Microbial Diversity and Taxonomy (GEMTAX-2019)', organized by Department of Life Science, National Institute of Technology, Rourkela, Odisha, held on January 21-25, 2019 at NIT, Rourkela, Odisha. (**Best Poster presentation**)

2. 3<sup>rd</sup> Regional Science and Technology Congress (Sothern Region), 2018 organized by Bidhannagar College, Government of West Bengal and Department of Science and Technology and Biotechnology, Government of West Bengal, held on December 18-19, 2018 at Bidhannagar College, Kolkata. (Poster presentation)
3. 20<sup>th</sup> West Bengal Science and Technology Congress, 2013 organised by Bengal Engineering and Science university, Shibpur and west Bengal Science and technology Council and Department, Government of West Bengal, held on February 28- March 2, 2013 at Bengal Engineering and Science University, Shibpur, West Bengal.
4. National Symposium on 'Frontlines of Microbiological Research: Concepts and Applications', organized by Indian Mycological Society Kolkata and Department of Botany, University of Calcutta, held on February 02 – 04, 2012, at Department of Botany, University of Calcutta.
5. UGC sponsored National Seminar on 'Emerging Trends in Plant Science', organised by PG Department of Botany, Barasat Government College and Biological Sciences Division, Indian Statistical Institute, held on July 14-15, 2011 at Barasat Government College, Barasat, North 24 Parganas.
6. National Symposium on 'Plant Disease Scenario in Organic Agriculture for Eco-friendly Sustainability'. organized by Indian Phytopathological Society, New Delhi and Mahatma Phule Krishi Vishwavidyalay (MPKV), Rahuri, held on January 10-12, 2008 at Regional Wheat Rust Research Station, Mahabaleshwar, Maharashtra. (Oral presaeنتation)
7. Social awareness activity 'Endeavour towards Developing Social Awareness' organised by DPI, Government of West Bengal held on March 17-20, 2008 at Barasat Government College, Barasat, Kolkata-700124.
8. National Symposium on 'Microbial Diversity and Plant Health. Theme VI Biopesticides', organized by Indian Mycological Society and Department of Plant Pathology, BCKV, Kalyani, held on November 29-30, 2007 at Farmers' Training Centre (Lake Hall), Kalyani, West Bengal. (Poster presentation)

9. 92<sup>nd</sup> Indian Science Congress, held on January 3-7, 2005 at Nirma University, Ahmedabad. (Poster presentation)
10. National Workshop cum Training on ‘Role of Bioinformatics in Agriculture’, organised by Central Research Institute for Jute and Allied Fibres (ICAR), held on March 19-24, 2005 at CRIJAF, Barrackpore, West Bengal.
11. Short term course on ‘Jute and Allied Fibre Crops: Agrobiodiversity and Sustainability in Crop Production’, organised by Crop Improvement Division, Central Research Institute for Jute and Allied Fibres (ICAR), held on September 30-October 1, 2005 at CRIJAF, Barrackpore, West Bengal.
12. 6<sup>th</sup> National Symposium on ‘Microorganisms in relation to Agriculture, Forestry and Industry’, organised by the Indian Mycological Society and Department of Botany, University of Calcutta, held on March 20, 2004, at Department of Botany, University of Calcutta. (Oral presentation)
13. 5<sup>th</sup> National Symposium on ‘Current Trends in Research on Microorganisms’, organised by the Indian Mycological Society and Department of Botany, University of Calcutta, held on February 15-16, 2003, Department of Botany, University of Calcutta. (Oral presentation)
14. Zonal Chapter (Eastern Zone) National Symposium organised by Indian Phytopathological Society, held on November 18-19, 2003 at Bidhan Chandra Krishi Viswavidyalaya, Mohanpur. West Bengal. (Poster presentation)

### **Training courses attended**

1. Short term training programme on ‘Genomics for Microbial Diversity and Taxonomy’ organised by Department of Life Science, National Institute of Technology, Rourkela, Odisha (2019).
2. Bioinformatics: Short training course on “Role of Bioinformatics in Agriculture”, organised by Central Research Institute for Jute and Allied Fibres, (ICAR), Barrackpore, Kolkata, sponsored by Department of Biotechnology, Government of India (2005).
3. Short term training programme on “Jute and Allied Fibre Crops-Agro biodiversity and Sustainability in Crop Production”, conducted by Crop Improvement Division, Central Research Institute for Jute and Allied Fibres (ICAR), Barrackpore, Kolkata (2005).

4. Training in Computer: Diploma course in Information Technology Application (DITA) under West Bengal State Council of Technical Education (2003).

### **Academic Honors /Awards**

1. Best Poster Presentation Award in National workshop on ‘Genomics for Microbial Diversity and Taxonomy’ (GEMTAX-2019) organised by Department of Life Science, National Institute of Technology, Rourkela, Odisha held on January 21-25, 2019.
2. Best Oral Presentation Award, 2006, in International Symposium on ‘Agriculturally Important Microorganisms: Conservation, Utilization, Bioremediation and Ecological Significance’ organised by the Indian Mycological Society, Dept of Botany, University of Calcutta held on February 23-25, 2006.
3. Indian Science Congress Association (ISCA) Best Poster Presentation Award in Plant Sciences In 92<sup>nd</sup> Indian Science Congress held at Ahmedabad during January 3-7, 2005.

### **Memberships of academic and professional societies**

1. Indian Mycological Society, Department of Botany, University of Calcutta , West Bengal, India: Life Member
2. Indian Phytopathological Society, Division of Plant Pathology, IARI, New Delhi , India: Life Member
3. Indian Science Congress Association, Kolkata, West Bengal, India: Life Member (L37115)
4. Asian PGPR Society, Groundnut Pathology Unit, ICRISAT, Patancheru, Telengana, India: Annual Member

### **Research Interest:**

Microbial biotechnology and molecular plant pathology including exploration and exploitation of Plant Growth Promoting Rhizobacteria (PGPR) and antagonistic plant growth promoting fungi (PGPF) for plant disease management together with growth promotion, molecular mechanism of disease suppression and growth promotion. Study on the effect of pesticide usage in agriculture on carbon emission in environment and carbon foot print. Environmental bioremediation by chemotoxic pesticide degradation and heavy metal detoxification in soil with PGPRs or PGPFs, their mechanism of detoxification, genetic identification and modification. Plant disease diagnosis

by molecular techniques and integrated disease management is my study target. Bio-formulation with beneficial microorganisms for cheaper, eco-friendly approach, beneficial and easy delivery to farmers at ground level for sustainable agriculture is also the objective of my research.

### Research Guidance:

1. Degree oriented: NA
2. Guidance at Master's level

Sl.	Project / Review title	Name of candidate enrolled	Level	Academic Session
1.	Evaluation of some rhizosphere fungi and bacteria For antagonistic potential against <i>Fusarium oxysporum</i> and <i>Curvularia lunata</i>	Anuradha Ghosh Roll No.: BGC/BOT 112010	M.Sc. Semester-IV	2011-2012
2.	Screening of <i>Usnea</i> sp., <i>Murraya koenigii</i> & <i>Aloe vera</i> extracts against pathogens and their interaction with bio control agents	Poulami Chatterjee Roll No.: BGC/BOT/112011	M.Sc. Semester-IV	2012-2013
3.	Evaluation of some rhizospheric fungi and bacteria for antagonistic potential against <i>Phytophthora</i> sp. and <i>Macrophomina phaseolina</i>	Swati Roy Roll No.: BGC/BOT/112014	M.Sc. Semester-IV	2012-2013
4.	Role of <i>Bacillus cereus</i> and <i>Bacillus safensis</i> in disease management and enhanced plant growth in <i>Lens esculentum</i>	Tina Roy Roll No.: BGC/BOT/14210	M.Sc. Semester-IV	2014-2015
5.	Plant growth promoting rhizobacteria mediated induced systemic resistance in lentil against <i>Alternaria</i> blight disease	Trina chakraborty Roll No.: BGC /BOT /15216	M.Sc. Semester-IV	2015-2016

6.	Impact of PGPR on disease management and growth promotion in <i>Vigna unguiculata</i>	Jesmine Pervin Roll No.: BGC/BOT/16209	M.Sc. Semester-IV	2016-2017
7.	Effect of PGPR on disease control, growth promotion and rhizosphere competence in cowpea	Bipasha Mondal Roll No.: BGC/BOT/17204	M.Sc. Semester-IV	2017-2018
8.	Microbial inoculation of seed for improved crop performance and their persistence in the rhizosphere	Tanaya Sarkar Roll No.: BGC/BOT /18201	M.Sc. Semester-IV	2018-2019
9.	Impact of Arsenic toxicity in agriculture and bioremediation with PGPRs – An overview	Swarnasree Bose Roll No.: BGC/BOT/19202	M.Sc. Semester-IV	2019-2020

### Lesson plan from updated CBCS syllabi:

<b>B.Sc. (Honours and Pass course)</b>		
<b>Generic Elective Courses</b>		
Semester-I	Biodiversity (Microbes, Algae, Fungi and Archegoniate) BOTGCOR01T and BOTHGEC01T Type:DSC1and GE1	Biodiversity (Microbes, Algae, Fungi and Archegoniate) Practical
<b>B.Sc. (Hons) Botany</b>		
Semester -II	Core Course III: Mycology and Phytopathology Course Code: BOTACOR03T	Mycology and Phytopathology Course Code: BOTACOR03P
Semester-V	Core Course XI: Reproductive biology of angiosperms Course Code: BOTACOR11T	Reproductive biology of angiosperms Course Code: BOTACOR11P
<b>M.Sc. in Botany</b>		
Semester-I	Departmental 2 Diversity of plant life- Bryophyte (Theory)	Diversity of plant life- Bryophyte (Practical)



	Departmental 3 Fungal & Oomycete biology (Theory)	Fungal & Oomycete biology (Practical)
Semester-II	Departmental 8 Plant pathology & crop protection (Theory)	Plant pathology & crop protection (Practical)
Semester-IV	Departmental 16 (DSE2) Plant Virology & molecular mycology	
	Departmental 17 (DSE3) Molecular plant pathology	
	Departmental 18 (P) Laboratory course of DSE 2 & 3	
	Departmental 19 (P) Laboratory course work (Seminar presentation)	
	Departmental 20 (P) Dissertation project work	

### **Educational Excursion tour undertaken (last five years):**

1. Conducted educational excursion tour of B.Sc. Botany Honours SEM II in April 2019 at Darjeeling for study of fungi, lichens and archegoniate
2. Conducted local excursion tour of M.Sc. SEM-I in August 2019 for study of *in situ* fungal biodiversity.
3. Conducted educational excursion tour of M.Sc. SEM-II in February 2020 at adjoining areas of Madhabpur, Santoshpur, North 24 Parganas for practical study of crop diseases in farmer's field *in situ*.

### **Publications:**

#### **Papers in recognized research journals/ Book chapter**

1. **Bandopadhyay, A.,** Roy, T., and Das, N. (2021). Impact of pesticide tolerant soil bacteria on disease control, plant growth promotion and systemic resistance in cowpea. *Journal of Environmental Engineering and Landscape Management*. ISSN: 1822-4199. eISSN: 1648-6897 (International) (In press)

2. **Bandopadhyay, A.**, Bhattacharya, S.K. and Das, N. (2019). Biocontrol and growth promoting potential of eight PGPFs on jute and sunnhemp. *Journal of Soils and Crops*. Vol. 29(2) Vol. 29(2) 243-250. ISSN: 0971-2836 (**Naas rating 4.46**) (National) eISSN: 2582-2756
  
3. Roy, T., **Bandopadhyay, A.**, Sonawane, P., Majumdar, S., Mahapatra, N., Alam, S., and Das, N. (2018). Bio-effective disease control and plant growth promotion in lentil by two pesticide degrading strains of *Bacillus* sp. *Biological Control*. 127: 55–63.  
<https://doi.org/10.1016/j.biocontrol.2018.08.018> ISSN: 1049-9644 (**Impact Factor 2.311**) (International)
  
4. **Bandopadhyay, A.**, Roy, T., and Das, N. (2018). Isolation of some soil bacteria showing potentiality for disease control, growth enhancement and pesticide degradation in *Vigna unguiculata* L. *Plant Archives*. Vol. 18, Special Issue (ICAAAS-2018), pp. 79-88. ISSN: 0972-5210 (**Naas rating 4.41**) (International)
  
5. Bhattacharyya, S.K., Sen, K. De, R.K., **Bandopadhyay, A.**, Sengupta, C. and Adhikary, N.K. (2017). Integration of biocontrol agents with fungicide, weedicide and plant growth regulator or management of stem and root rot of jute. *Journal of Applied and Natural Science*. Vol. 9 (2): 899 – 904. ISSN: 0974-9411 (Print), 2231-5209 (online) (**Naas rating 4.84**) (International), DOI <https://doi.org/10.31018/jans.v9i2.1295>
  
6. **Bandopadhyay, A.** and Das, N. (2017). Plant Growth Promoting Microbial Consortial Formulations Mediated Biological Control of Stem and Root Rot Disease of Jute Caused by *Macrophomina phaseolina* ((Tassi.) Goid. *International Journal of Current Science*. Vol. 20(1):E1-15. ISSN: 2250-1770 **Index Copernicus value (ICV) 5.08 points (2012)** (International)
  
7. **Bandopadhyay, A.**, Bandopadhyay, A.K. and Samajpati, N. (2008). *In vitro* antifungal activity of volatile and non-volatile components from some biocontrol fungi against jute pathogen *Macrophomina phaseolina*. *Indian Phytopathology*. Vol. 61 (2): 204-211. ISSN: 0367-973X (**Impact Factor 0.230**) (International)
  
8. **Bandopadhyay, A.**, Bandopadhyay, A.K., Majumdar, M. and Samajpati, N. (2006).

- Evaluation of antagonistic potential of some rhizosphere fungi and PGPR against *Macrophomina phaseolina* inciting disease complex in jute. *Journal of Basic and Applied Mycology*. Vol. 5. (1& II): 82-86. ISSN: 0972-7167 (**Impact Factor 1.887**) (International)
9. Bandopadhyay, A.K. and **Bandopadhyay, A.** and Majumdar, A. (2006) Screening and characterization of antagonistic potential of some rhizosphere fungi and PGPR against *Macrophomina phaseolina* in jute. *Journal of Mycopathological Research*. 44 (2): 323-330. ISSN 0971-3719 (**Naas rating 4.46**) (National)
  10. Bandopadhyay, A.K., **Bandopadhyay, A.**, Majumdar, A. and Bhattacharya, S.K. (2006). In vitro isolation and screening of some rhizosphere fungi and PGPRs for the management of *Macrophomina phaseolina*. *Jaf News*. Vol 4, No. 1, (January-June 2006), pp. 8-9. ISSN 0973-0036. (National)
  11. Bandopadhyay, A. K., Majumder, A. and **Bandopadhyay, A.**, (2004). Biological control of *Macrophomina* root rot in jute with biopesticide formulates with fungal antagonist and PGPR-A success story. Pub Book In: Natural Resources Engineering and Management and Agro-Environmental Engineering. Eds. IIT Kharagpur, India. Pub. Manish Sejwal; Anamaya Publishers, New Delhi; pp. 385-390. ISBN 81-88342-52-1 (International)
  12. **Bandopadhyay, A.**, Ghosh, S.N. and Das, A.K. (2003). *In vitro* evaluation of some plant extracts for antimicrobial activity. *Journal Mycopathological Research*. 41 (2): 205-209. ISSN 0971-3719. (**Naas rating 4.46**) (National)

#### Abstracts published in Journals

1. **Bandopadhyay, A.** (2014). Evaluation of some bioagent formulations on disease control, plant growth promotion and rhizosphere competence in bast fibre crop. *J. Mycopathol Res*. Vol. 52 (1): 181-182. ISSN 0971-3719.
2. **Bandopadhyay, A.**, Bandopadhyay, A.K., Samajpati, N. and Reddy, M.S. (2008). Isolation and characterization of siderophore from some rhizosphere fungi antagonistic to *Macrophomina phaseolina* and *Fusarium udum* pathogenic on jute and sunnhemp. *Indian Phytopathology*. Vol. 61 (3) : 377. ISSN 0367-973X (National)

3. **Bandopadhyay, A.**, Bandopadhyay, A.K. and Samajpati, N. (2008). Biochemical characterization of some plant growth promoting rhizobacteria for antagonistic property against *Macrophomina phaseolina* inciting stem and root rot in jute. *J. Mycopathol. Res.* Vol. 46 (1) : 147. ISSN 0971-3719. (National)
4. **Bandopadhyay, A.**, Bandopadhyay, A.K., Majumdar, M. and Samajpati, N. (2006). Screening and Characterization of antagonistic potential of some rhizosphere fungi and PGPR against *Macrophomina phaseolina*. *J. Mycopathol. Res.* Vol. 44 (1): 188. ISSN 0971-3719. (National)
5. Bandopadhyay, A.K., **Bandopadhyay, A.**, Majumdar, A., Samajpati, N. and Bhattacharya, S.K. (2006). Investigations on some fungal antagonist and plant growth promoting rhizobacteria for siderophore production and biocontrol of diseases in jute. *J. Mycopathol Res.* Vol. 44 (1): 165-166. ISSN 0971-3719. (National)
6. Bandopadhyay, A. K. and **Bandopadhyay, A.** (2004). Biological disease management in jute with plant growth promoting rhizobacteria. *Indian Phytopathology*. Vol. 57 (3): pp 357. ISSN 0367-973X (National)
7. Bandopadhyay, A.K. and **Bandopadhyay, A.** (2004). Beneficial traits of plant growth promoting rhizobacteria and fungal antagonists consortium for biological disease management in bast fibre crops. *Indian Phytopathology*. Vol. 57 (3): pp 356-357. ISSN 0367-973X (National)

#### **Abstracts/Full paper in Proceedings of Conference/ Seminar / symposia**

1. Roy, T., **Bandopadhyay, A.**, Majumder, S., and Das, N. (2020). Comparative analysis of pesticide degradation and heavy metal tolerance in two *Bacillus* species isolated from agricultural field of West Bengal, India. In: International Conference, Contaminated Sites 2020, Slovak Republic, Conference papers. Pg 140-144. ISBN: 978-80-8213-030-3. <http://contaminated-sites2020.sazp.sk/>
2. **Bandopadhyay, A.**, Roy, T., and Das, N. (2018). Bio-effective management of *Macrophomina* disease complex and growth enhancement of *Vigna unguiculata* (L.) walp. with pesticide tolerant Plant Growth Promoting Rhizobacteria. Abstract Volume: 3<sup>rd</sup> Regional

Science and Technology Congress, 2018, Southern Region. December 18-19, 2018, Bidhannagar College. Pp. 62.

3. **Bandopadhyay, A.**, Roy, T., and Das, N. (2018). Isolation of some soil bacteria showing potentiality for disease control, growth enhancement and pesticide degradation in *Vigna unguiculata*. Conference Book (ICAAAS-2018): International Conference on Agriculture, Allied and Applied Sciences with special reference to Energy, Environment and Biotechnology Research. April 28-29, 2018 in JNU Convention Centre, New Delhi. Pp: 32
4. **Bandopadhyay, A.**, Roy, T., and Das, N. (2017). Impact of pesticide tolerant rhizobacteria on *Macrophomina* disease management and growth promotion in cowpea. Souvenir: 7<sup>th</sup> International Science Congress (ISC-2017). December 8-9, 2017, College of Science and Technology, Rinchending, Phuentsholing, Bhutan. Pp: 43
5. Roy, T., **Bandopadhyay, A.**, and Das, N. (2016). Role of two methomyl resistant Rhizobacteria in disease management and enhanced plant growth in lentil (*Lens culinaris*). Abstract: National Seminar on Plant and Microbe : Diversity and Utilization. March 19-20, 2016, Department of Botany, Visva Bharati. Pp. 20.
6. **Bandopadhyay, A.** (2014). Evaluation of some bioagent formulations on disease control, plant growth promotion and rhizosphere competence in bast fibre crop. Abstract: Session VI- Microbial Biotechnology, 2<sup>nd</sup> International symposium of Indian Mycological Society, February 20-22, 2014, Science City Auditorium. Pp. 63.
7. **Bandopadhyay, A.** (2013). Bio-effective disease management and growth promotion in bast fibre crops- A success story. Proc. Section – Plant Sciences, 100<sup>th</sup> Indian Science Congress, January 3-7, 2013, University of Calcutta, Kolkata. Pp. 89.
8. Bhattacharya, S. K., De, R. K., **Bandopadhyay, A.**, Sen, Konineeka and Sengupta, C. (2012). Integration and interaction of some bio-agents with fungicide, weedicide and plant growth regulator in jute disease management. Proc. National Symposium on Frontlines of Microbiological Research Concepts and Applications. Session III. Host-Microbe Interactions; Indian Mycological Society, February 02 – 04, 2012, Pp. 40.

9. **Bandopadhyay, A.**, Bandopadhyay , A. K., Bhattacharya, S. K. and Reddy, M.S. (2009). Plant growth promoting rhizobacteria in disease management and growth of bast fibre crops - the current concepts. Proc. 8<sup>th</sup> International PGPR Workshop. Organized by Washington State Univ. & Oregon State Univ. USA. May 17-22, 2009. Poster Presentations – Session I No. P03 Pp. 56.
10. **Bandopadhyay, A.**, Bhattacharya, S.K., Bandopadhyay, A.K. and Reddy, M.S. (2009). Integrated disease management in jute and allied fibre crops with pgpr based bioinoculants and bioregulators consortium. (Invited lecture). Proc. First Asian PGPR Congress for sustainable agriculture. Organized by Acharya N G Ranga Agricultural University, Hyderabad, India and Auburn University, USA. 21-24 June, 2009. Pp.6.
11. **Bandopadhyay, A.**, Bhattacharya, S.K., Majumdar, P. and Bandopadhyay, A.K. (2009). Characterization of some plant growth promoting rhizobacteria in relation to biotic stress management with enhanced growth and production of jute and allied fibre crops. Proc. First Asian PGPR Congress for sustainable agriculture. Organized by Acharya N G Ranga Agricultural University, Hyderabad, India and Auburn University, USA. June 21-24, 2009. Pp.96-97.
12. **Bandopadhyay, A.**, Bhattacharya, S.K., Bandopadhyay, A.K. and Reddy, M.S. (2009). Beneficial traits of PGPR mediated disease management and growth promotion in jute and sunnhemp with bioformulation of activated and wild biocontrol agents. Proc. First Asian PGPR Congress for sustainable agriculture. Organized by Acharya N G Ranga Agricultural University, Hyderabad, India and Auburn University, USA. June 21-24, 2009. Pp.97.
13. **Bandopadhyay, A.**, Bhattacharya, S.K., Biswas, B. Das, Suparna and Bandopadhyay, A.K. (2009). Synergistic effect of beneficial rhizosphere microflora in integrated disease management and plant growth promotion in jute and allied fibre crops. (Oral Paper) Proc. 5<sup>th</sup> International Conference on Plant Pathology in the Globalized Era. Nov. 10-13, 2009, IARI, New Delhi. Pp. 368.
14. De, R.K., **Bandopadhyay, A.**, Bhattacharya, S.K., Biswas, B., Mitra Roy, Ponty and Bandopadhyay, A.K. (2009). Investigation on some botanicals and safer chemicals for the management of jute and mesta pathogens. Proc. 5<sup>th</sup> International Conference on Plant

15. **Bandopadhyay, A.**, Bandopadhyay, A.K., Samajpati, N. and Reddy, M.S. (2008). Isolation and characterization of siderophore from some rhizosphere fungi antagonistic to *Macrophomina phaseolina* and *Fusarium udum* pathogenic on jute and sunnhemp. National Symposium on Plant disease scenario in organic agriculture for ecofriendly sustainability. Organized by *Indian Phytopathological Society* New Delhi and Mahatma Phule Krishi Vidyapeeth, Regional Wheat Research Station, Mahabaleshwar, MS, January 10-12, 2008. Session IV, Oral Paper Index P.01.Pp. 99
16. **Bandopadhyay, A.**, Bandopadhyay, A.K. and Samajpati, N. (2007). Biochemical characterization of some plant growth promoting rhizobacteria for antagonistic property against *Macrophomina phaseolina* inciting stem and root rot in jute. Proc. National Symposium on Microbial Diversity and Plant Health. Theme VI: Biopesticides, Organized by Indian Mycological Society and BCKV, Kalyani, November 29-30, 2007. Pp. 80-81.
17. Bandopadhyay, A. K., **Bandopadhyay, A.**, Majumder, A. Samajpati, N and Bhattacharya, S.K. (2006). Investigations on some Fungal Antagonist and Plant Growth Promoting Rhizobacteria for Siderophore Production and Biocontrol of Diseases in Jute. Proc. International Symposium on Agriculturally Important Microorganisms: Conservation, Utilization, Bioremediation and Ecological Significance, Session VIII. Microbes in Production of Bio-pesticides and Biofertilizers; Organized by Indian Mycological Society, February 23 – 25 2006, pp. 55-57. (**Best Paper Award in Oral Presentation**).
18. **Bandopadhyay, A.**, Bandopadhyay, A. K., Majumder, A. and Samajpati, N. (2006). Screening and characterisation of Antagonistic Potential of Some Rhizosphere Fungi and PGPR against *Macrophomina*. Proceedings International Symposium on Agriculturally Important Microorganisms: Conservation, Utilization, Bioremediation and Ecological Significance, Session VIII. Microbes in Production of Bio-pesticides and Biofertilizers; Organized by Indian Mycological Society, February 23 – 25, 2006, Pp. 156-157.
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I declare that the particulars given above are correct to the best of my knowledge and belief.

Sd/-

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