

Faculty Profile

Title : Sarkar
Name : Arup
Father's Name: Late Ajayendra Nath Sarkar
Present Designation: Associate Professor
Present Address : Department of Genetics and plant Breeding, UBKV, P.O. Pundibari,
 Dt. Coochbehar, West Bengal - 736165



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Permanent Address: R.K.P. Deb Road, Ushumpur Pally, P.O. Agarpara, Dt. 24 Parganas(N)
 Kolkata - 700109

Date of Birth : 08.01.1971

Caste : General

Marital Status : Married

Academic Qualification:

Degree	Year	Institution/ Board	Area of Specialization	Percentage of Marks
Ph. D in Agriculture	2010	University of Kalyani	Botany	Traditional System
M.Sc.(Ag) in Genetics and Plant Breeding	1997	BCKV	Genetics and Plant Breeding	89.0
B.Sc. (Ag) Hons	1992	BCKV	GPB+ Biochem. + Agronomy etc.	82.7
Higher Secondary	1988	RKMVCC	Science	70.0
Madhyamik	1986	UAU Vidyalyaya	Science and others	77.5
Qualified NET	1998 and 1999	CSIR-UGC	Life Sciences	
Any other	ICAR NET – 1997 &2001	ICAR	Genetics and Plant Breeding	

Teaching experience and associated courses:

UG and PG Courses : Unrevised and Revised (on the basis of the 4th Dean's committee recommendation)

Item	Details	Years(s)	Individual/Collaborative
UG Level	Courses:		
	General Botany (GPB 101) – 2+1	2003 to 2007	Course Leader Course Coordinator
	Introductory Plant physiology(PPH101)- 2+1	2003-2006	Do
	Crop Physiology(GPB101) – 2+1	2006 to 2011	Course Coordinator
	Principles of Genetics and Cytogenetics(GPB 251/ GPB 151)- 2+1	2002-2015	Course Coordinator
Commercial		2003-2009	Course Instructor

	<p>Micropropagation(GPB 354) - 1+3</p> <p>Molecular Genetics and Genetic Engineering (GPB 402)- 2+1</p> <p>Principles of Plant Breeding(GPB 201)- 2+1</p> <p>Principles of Plant Biotechnology (GPB 301) - 1+1</p> <p>Principles of Seed Technology (GPB 351) – 2+1</p> <p>Plant Tissue Culture(GPB 402) – 1+3</p> <p>Recombinant DNA Technology(GPB 403) – 1+3</p> <p>Bioinformatics (GPB 404)-1+3</p> <p>Molecular Diagnostics (GPB 406) – 1+3</p>	<p>2005-2009</p> <p>2010-2015</p> <p>2008-2013</p> <p>2008-2013</p> <p>2015</p> <p>2010-2014</p> <p>2010-2014</p> <p>2010-2014</p> <p>2010-2014</p>	<p>Course Instructor</p> <p>Course Leader + Instructor</p> <p>Course Instructor</p> <p>Course Instructor</p> <p>Course Leader + Instructor</p> <p>Course Instructor</p> <p>Course Leader</p>
M.Sc. Level	<p>Courses:</p> <p>Conservation and Utilization of Crop Genetic Resources (GPB 511) – 2+0</p> <p>Genetic Engineering (GPB 613) – 2+1</p> <p>Principles of Genetics (GP 501) – 2+1</p> <p>Principles of Cytogenetics (GP 502) – 2+1</p> <p>Principles of Plant Breeding</p>	<p>2004-2009</p> <p>2005-2009</p> <p>2010-2013</p> <p>2010-2013</p> <p>2011-2012</p> <p>2010-2013</p> <p>2010-2013</p>	<p>Course Coordinator</p> <p>Course Coordinator</p> <p>Course Coordinator</p> <p>Course Coordinator</p> <p>Course Instructor</p> <p>Course Coordinator</p> <p>Course Instructor</p>

	(GP 503) – 2+1 Cell Biology and Molecular Genetics (GP 508) – 2+1 Biotechnology for Crop Improvement (GP 509) – 2+1 Breeding for Biotic and Abiotic Stress Resistance – (GP 510) – 2+1 Gene Regulation and Expression (GP 514) – 2+0	2010-2015 2010-2013	Course Instructor Course Coordinator
Ph.D Level	Courses: Plant Genetic Resources and Their Utilization (GP 601) – 2+1 Genomics in Crop Improvement (GP 603) – 2+1 Cellular and Chromosomal Manipulations in Crop Improvement (GP 604) – 2+0 Breeding Designer Crops (GP 607) – 2+1 Hybrid Seed Production (SST 601) – 1+1 Testing for Genuineness and Purity of Cultivars (SST 603) – 1+1 Seed Quality Testing (SST 508) – 2+1 Seed Physiology (SST 509) – 1+1	2011 & 2013 2010-2013 2010-2015 2012 2011-2013 2011-2013 2010-2013 2010-2013	Course Instructor Course Coordinator Course Coordinator Course Coordinator Course Instructor Course Instructor Course Coordinator Course Instructor

- Other academic activity :** i) Member of Faculty Council
 ii) Member of Academic Council
 iii) Member of Sub-Committee for Syllabus formation
 iv) As External Member of BOS, Deptt. of Genetics and Plant Breeding, BCKV

Previous working Experience: As Tax Assistant in the Deptt. of Income Tax (13.07.1998 to 07.01.2002)

Academic Supervising Experience: Guided Four (04) Masters' Degree students
 Guided One (01) Ph. D. student

Project Exposure and Consultancy:

- i) As Co-Principal Investigator (Co-PI) in the **NAIP** project on “Arsenic in food chain - cause, effect and mitigation” under component 4 of NAIP (ICAR).- **2007-12.**
- ii) As Co-Principal Investigator in **DBT** funded project titled “In-vitro propagation and biofarming of Anthurium (*Anthurium andreanum*) and Gerbera (*Gerbera jamesonii*) and transfer of technology in Terai-Dooars region of West Bengal” - September, 2012 onwards.
- iii) As Nodal Officer for the project titled “Creation of Seed Hubs for increasing indigenous production of Pulses in India” under NFSM to be implemented by ICAR-IIPR, Kanpur.
- iv) As principal Investigator of the institutional project titled “A study on exploration, characterization and conservation of brinjal (*Solanum melongena* L.) germplasm in Eastern India”.

Academic Society Association:

- i) As Life Member of COBACAS, Coochbehar
- ii) As Life member of Crop and Weed Science Society, BCKV, Kalyani
- iii) As Life Member of Indian Science Congress, Kolkata

Training Course coordination: Nil

Administrative experience:

Name of the Post	Nature of Work	Duration	Status of the Organisation(Govt./Govt. aided/ Govt. undertaken/private/corporate/other s)	Remarks
Head of the Department of Genetics and Plant Breeding, UBKV	Administration and management of the Departmental activities.	i) 02.08.2002 to 02.05.2003 ii) 20.08.2009 to 24.05.2011 and iii) 15.01.2014 till date	Uttar Banga Krishi Viswavidyalaya (Autonomous and Govt. Aided)	Concurrent to the Primary Assignment
In-Charge, Central Instrumentation	Administration and Scientific management of	25.09.2008 to till date	Uttar Banga Krishi Viswavidyalaya (Autonomous and Govt. Aided)	Additional Charge

Centre, UBKV	the Instrumentation Centre			
Incharge, Seed Testing Laboratory under Mega Seed Project (ICAR)	Administration and management of the Seed Testing Laboratory and sending of Seed Tests' report	30.04.2010 to 26.09.2014	Uttar Banga Krishi Viswavidyalaya (Autonomous and Govt. Aided)	Additional Charge
Advisor of Bahrat Nursery Private Limited, Kolkata.	Advisory Services on Seed Production and other crop production practices	December 21,2011 onwards	Private Industry	Additional Assignment approved by the University Authority

Extra curricular Activity:

1. **Fellow** of the International Science Community Association (ISCA)
2. Acted as **Chairperson in one technical session** in International Conference on Agriculture, Veterinary and Life Sciences (ICAVLS), 2014 held at Vijayawada
3. Acted as **Sectional Secretary for Agriculture and Forestry Sciences Section** in the 4th International Science Congress held at Pacific University, Udaipur, Rajasthan organized by International Science Congress Association
4. Recognized as one of the **Outstanding Participants in the Winter School (ICAR)** on "Molecular marker-assisted crop breeding: principles, methods and applications" during January 05-25, 2010 at the Division of Genetics, IARI, New Delhi.
5. As member of the University Advisory Committee of NSS, UBKV.

University literature publication:

1. Member of the Editorial Board for UBKV Newsletter (English)
2. Editor of seasonal Newsletter "*Uttarer Krishikatha*" of UBKV published in Bengali.

Rural Agricultural Work Experience involvement: As faculty from the department

Resource person:

1. Acted as **Resource person** in the Short Course titled “Conservation of Plant Genetic Resources in North Eastern Himalayas” sponsored by ICAR (New Delhi) and organized by Uttar Banga Krishi Viswavidyalaya (December 5-14, 2007)
2. Acted as an **expert** in the Career Awareness Programme held on 03.06.2011 at A.B.N.Seal College, Coochbehar
3. Acted as a **Resource person** in the Model training titled “Conservation Agriculture-the way Forward” sponsored by ICAR (New Delhi) and organized by Uttar Banga Krishi Viswavidyalaya (February 3-10, 2012)
4. Acted as a **Resource person** in the State Level Training on Jute and Allied Fibres at UBKV, Pundibari during March 3-5, 2008.
5. Acted as **Resource Person** in different farmers’ training programme under TSP- Mega Seed Project.

Reviewer: Nil

Training Programme Participation:

1. Short term Training Course on HRD in Plant Genetic Resources Management in Team of Excellence mode under NATP Project NBPGR, ICAR, New Delhi). -"**Ex-situ Conservation of Plant Genetic Resources**". (13th August,2003 to 6th September,2003).
2. Training course on “ **Recent Techniques in Plant Genetic Engineering and Molecular Breeding**” under Team of Excellence Project on HRD sponsored by NATP at the National Research Centre on Plant Biotechnology, IARI, New Delhi.(28th November -18th December,2003)
3. UGC sponsored Refresher Course in Environmental Science entitled “ **Trends of Environmental Science in the 21st Century**” at the Department of Environmental Science ,University of Kalyani,West Bengal (Grade –A) (8th March,2004 to 29th March,2004)
4. National Training on “ **Varietal Purity Testing- Testing of Specified Traits**” at Central Institute for Cotton Research (ICAR), Nagpur. (23rd February,2009 to 27th February, 2009)
5. Winter School on “**Molecular Marker-Assisted Crop Breeding: Principles, methods and applications**” at Division of Genetics, Indian Agricultural Research Institute (IARI), New Delhi. (5th January, 2010 to 25th January, 2010)
6. National Training on “**Seed Testing**” at National Seed Research and Training Centre (ICAR), Varanasi. (26th July, 2010 to 30th July, 2010)
7. ICAR sponsored short course on “**New Dimensions in Quality Seed Production Technology with Special Reference to Hybrid Seed Production of Field and Vegetable Crops, IPR and PPV & FR Act**” at Department of Genetics and Plant Breeding, GBPUAT, Pantnagar, Uttarakhand. (18th February, 2013 to 27th February, 2013)

Scholarships/Fellowships: Nil

Award:

1. Senior Merit Certificate (Post – graduate Level)-1999
2. Awarded by Jawaharlal Nehru Memorial Fund, New Delhi (1997)
3. Sub-Divisional Special Merit Award (Secondary Level) -1986

4. Awarded the 3rd **Best Poster Award** in the International Seminar on “Integrating Agriculture & Allied Research: Prioritizing Future Potentials for Secure Livelihoods (ISIAAR)” held at BCKV, Kalyani and organized by Crop and Weed Science Society (CWSS).

External expert:

- i) As External Examiner for UG examination at BAU, Sabour ; OUAT, Bhubaneswar ; BCKV, Kalyani
- ii) As External Thesis Examiner for M.Sc. Thesis at University of Calcutta and BCKV, Mohanpur, Nadia
- iii) As External Thesis Examiner for Ph.D. thesis at the University of Kalyani, Kalyani, Nadia

Publication:

Full Papers in International Journal: Nil

Full Papers in National Journal: 10(ten)

Review paper: 02(two)

Research note/ short communication in National Journal: Nil

Extension Literature/Article: 03(three)

Proceedings paper: 02(two)

Book Chapters: 05 (Five)

Books: Nil

Abstract published: 18

List of Publications (Citation style)

A. Research Papers in International Journal: Nil

B. Research Papers in National Journal: 10(Ten)

C. Review paper: 02 (Two)

Sarkar, A. 2006."Genetic variability and genetic divergence in rice bean: A review". *Environment and Ecology*. 24(1): 76-80.

Sarkar, A. 2006. "Current Status and Future Strategies for Improvement of Nutritional Qualities of Rice Bean (*Vigna umbellata* (Thunb.) Ohwi and Ohashi)". *J. Interacad*.10 (2): 287-292.

D. Research Notes/Short Communication in National Journal: Nil

E. Conference Proceedings: 02(Two)

Sarkar, A. and Subhra Mukherjee. 2009. Studies on genetic variability in rice bean(*Vigna umbellata* (Thunb.) Ohwi and Ohashi) germplasms under terai region of West Bengal. *In the Proceedings of National Symposium on “A new Vista to Forage Crop Research”* (September 10-11, 2007). p 53-55.

Pati, R., **Sarkar, A.**, Mukhopadhyay, D. and Bhattacharya, K. 2012. Transport of Arsenic in soil-water-plant systems. *In the Proceedings of International Workshop on “Arsenic in Food Chain: Cause, Effect and Mitigation”* 20th February, 2012, Kolkata, India

F. Extension literature/Article: 03(Three)- Popular Article – 01 and Technical Report – 02

G. Book Chapters: Five

Sarkar, A. "Conservation of Biodiversity for Sustainable Farm Development". *In :Health, Environment, Development and Other Essays : Antropological Perspectives*. (Eds. Buddhadeb Chaudhuri and Sumitra Chaudhuri). Inter- India Publications, New Delhi.

Sarkar, A. 2009. “Indigenous knowledge based conservation of medicinal plants in the genomic era – A conflict” *In : Indigenous Knowledge Systems and Common People’s rights*. (Ed. Debabrata Das Gupta). AGROBIOS (India), Jodhpur.

Sarkar, A. 2011.“Community Based Entrepreneurship Development in Agriculture : Challenges and Opportunities” *In : Farm Sector Development- Emerging Issues* (Ed. Debabrata Das Gupta). AGROBIOS (India), Jodhpur.

Pati, R., Mukhopadhyay, D., **Sarkar, A.** and Bhattacharya, K. 2012.“ Transport of Arsenic in soil-water-plant systems.”*In: Arsenic Contamination in Water and Food Chain*. (Eds. D. N. Guha Mazumder and Supradip Sarkar). DNGM Research Foundation, Kolkata, India.

Sarkar, A. 2013. “ Indigenous Knowledge System- An Instrument in Sustained Food and Environmental Security.” *In : Food and Environmental Security- Imperatives of Indigenous Knowledge Systems*. (Ed. Debabrata Das Gupta). AGROBIOS (India), Jodhpur.

H. Books: Nil

**Participation in International/ National/State level Conferences:
Details**

<i>Serial No.</i>	<i>Name of the Seminar/ Symposium/ Conference/ workshop</i>	<i>Place</i>	<i>Date (s)</i>	<i>Year</i>	<i>Duration (Days)</i>
1.	National Conference on “Application of Identified Chemical and Biological Technologies in Agriculture”	Jadavpur University	March 14-15,	2003	02
2.	Workshop on “ Intellectual Property Rights”	A.B.N.Seal College, Coochbehar	5 th September,	2006	01
3.	National Symposium on “Challenges and opportunities to harness the modern biology for Socio-economic development in Genomic era”	GBPUAT, Pantnagar, Uttarannchal	November 21-24,	2004	04
4.	IUAES Inter Congress on Mega Urbanization, Multiethnic Society, Human Rights and Development	University of Calcutta	December 12-15,.	2004	04
5.	National Conference on Medicinal Plants : Resources, Applications and Conservation in India’	Jadavpur University,	February 11-12,	2005	02
6.	7 th Agricultural Science Congress of National Academy of Agricultural Sciences	MPKV, Pune	February 16-18,	2005.-	03
7.	National Symposium on Advances in Forage Research and Sustainable Animal production”	CCS Haryana Agricultural	August 29-30,	2005	02

		University, Hisar			
8.	National Symposium on A New Vista to Forage Crop Research	BCKV, Kalyani	September 10-11,	2007	02
9.	National Conference on Application of Identified Chemical and Biological Technologies in Agriculture-08	Jadavpur University	August 22-23,	2008	02
10.	National Symposium on Approaches to Maximizing Crop Productivity	University of Calcutta,	January 12-14,	2012	03
11.	Golden Jubilee National Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance”	PSB ,Institute of Agriculture,Visva-Bharati, Sriniketan	September 01-03,	2012	03
12.	100 th Indian Science Congress (Section of Agricultural & Forestry Sciences)	University of Calcutta	January 03-07,.	2013	05
13.	4 th World Congress on Conservation Agriculture : Innovations for Improving Efficiency, Equity and Environment	NAAS) at New Delhi	February 4-7,	2009	04
14.	16 th World Congress of IUAES on Humanity, Development and Cultural Diversity	Kunming city, China	July 27-31,	2009	05
15.	International Conference on Traditional Practices in Conservation Agriculture	Udaipur, Rajasthan	September 18-20	2010	03
16.	International Symposium on System Intensification Towards Food & Environmental Security	BCKV Kalyani, West Bengal ,	February 24-27,	2011	04
17.	Plant Biotechnology for Food Security: New Frontiers”	New Delhi	February 21-24	2012	04
18.	International Conference on Agriculture, Veterinary and Life Sciences	Vijayawada	January 24-25,	2014	02
19.	International Seminar on Integrating Agriculture & Allied Research: Prioritizing Future Potentials for Secure Livelihoods(ISIAAR)	BCKV Kalyani, West Bengal ,	November 06-09	2014	04
20.	4 th International Science Congress(ISC-2014)	Pacific University, Udaipur, Rajasthan	December 08-09	2014	02

Declaration

I hereby declare that all the information furnished by me is true to the best of my knowledge and belief.

Place : Coochbehar

Sd/-
Arup Sarkar

(Signature)