

CURRICULUM VITAE

Name : Dr. Anup Kumar Sarkar
Designation : Associate Professor
Address : Dept. of Botany, West Bengal State University,
Berunanpukuria, Mallikapur, Barasat,
24th parganas (N), Kolkata-700126, INDIA.

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Date of Birth : The 14th May, 1964
Nationality : Indian,
Marital State : Married

Academic Qualification:

- ❖ B.Sc. with Botany, Chemistry and Zoology from the University of Calcutta in 1983.
- ❖ Bridge Course in Life Sciences from University of Manipur in 1987
- ❖ M.Sc. in Life Sciences with Genetics specialization from University of Manipur in 1989
- ❖ Ph. D. in Bioscience on “Studies on *in vitro* regeneration and related biochemical investigations in *Albizia procera* Benth” from Rani Durgavati Viswavidyalaya, Jabalpur, MP in 2007.

Research Interest: Plant tissue culture, Cytological studies, Plant breeding and Biodiversity conservation,

Teaching : Molecular & Cellular Genetics, Plant Breeding and Plant Tissue culture

Guidance of Thesis: Ph.D.: 3

Awarded Ph. D.: 01

Review work: Indian Journal of Biotechnology

Additional qualification achieved by training:

- ❖ “USE OF LINUX IN BIOINFORMATICS” training at Bioinformatics sub centre, Dept. of Agricultural Biotechnology, Assam Agricultural University, Jorhat, Assam.(2004)

- ❖ Application of Statistical tools using Statistical Package for Social Sciences (SPSS) in Forestry Research at Rain Forest Research Institute, Jorhat, Assam (2003)
- ❖ Research Communication training at TFRI, Jabalpur (2000)
- ❖ Seed collection, Seed handling and Vegetative propagation training at TFRI (1995)
- ❖ Vegetative propagation training at TFRI, Jabalpur, Assam
- ❖ Forestry Orientation Course training at Institute of Deciduous Forests, Jabalpur, M.P. (1991).

Publication in Peer-reviewed Journal:

1. P. B. Meshram, K. C. Joshi, **A. K. Sarkar** and S. C. Pathak (1992). Efficacy of some insecticides against *Leucaena* Psyllid, *Heteropsylla cubana* Crawf. in Forest Nursery. J. Appl. Zool. Res. 3 (1): 46-48.
2. P. B. Meshram, K. C. Joshi, **A. K. Sarkar** (1993). Efficacy of some insecticides against the White grub, *Holotrichia insularis* Brenske in Teak Nursery. Ann. For. 1 (2): 196-198.
3. P. B. Meshram, K. C. Joshi, **A. K. Sarkar** (1994). Relative resistance of certain clones of *Tectona grandis* to teak leaf skeletonizer, *Eutectona machaeralis* Walk, (Lepidoptera: Pyralidae). The Indian Forester 120 (1): 58-61.
4. S. Kumar, **A. K. Sarkar** and A. K. Mandal (1996). *In Vitro* Clonal propagation of *Populus deltoides*. Myforest. 32: 128-131.
5. S. Kumar, **A. K. Sarkar** and C. Kunhikannan (1998). Regeneration of plants from leaflet explants of tissue culture raised Safed siris (*Albizia procera*). Plant Cell, Tissue and Organ culture 54: 137-143.
6. Fatima Shirin, **A. K. Sarkar**, S. A. Ansari and A. K. Mandal (2002). Standardization of sterilizing treatment for *in vitro* propagation of half-sib families of teak. Teaknet. Issue No.26:1-3
7. S. A. Ansari, S. Kumar, A. K. Mandal and **A. K. Sarkar** (2003). The *In vitro* System for Production of Quality Plantlets of *Eucalyptus tereticornis*. J. Plant Biol. 30 (1): 81-84.
8. Fatima Shirin and **A. K. Sarkar** (2003). Removal of Phenolic exudates from explants of *Tectona grandis*. Teaknet. Issue No.30: 4-6

9. **A. K. Sarkar**, E. Rai, S. N. Shah, S. Boudha, Y. K. Bansal & S. A. Ansari (2010). Changes in enzyme activities, soluble sugars, phenols during *in vitro* adventitious shoot regeneration from leaflets explants of *Albizia procera* (Roxb.) Benth. New Forests, 40 (3): 323-334.
10. A. Sarkar, **A. K. Sarkar** & P. K. Sen.(2014). Study of Genetic variation and phenetic relationship in some vulnerable taxa from Indian sundarbans following RAPD marker analysis. Scientific Journal of Biological Sciences (SJBS), 3 (11):108-116.

Important Committee Assignments:

- ❖ Chairman, Board of Studies in Botany, UG (2009-2012).
- ❖ Member, Board of Studies in Botany, UG (2012-continue).
- ❖ Chairman, Board of Studies in Botany, PG (2009- 2015).
- ❖ Member, Board of Studies in Botany, PG (2016-continue).
- ❖ Convener, Board of Research Studies in Botany (2010-2015).
- ❖ Life member of Indian Science Congress Association, Kolkata-17.
- ❖ Governing Body member of the Sree Chaitanya Mahavidyalaya, Habra. (2012-2013).
- ❖ Executive Council's (EC) member of West Bengal State University, Barasat, Kolkata-126, (2014-2015).
- ❖ Member, Examination Committee (UG).
- ❖ Departmental Expert of WBSU for CAS of various colleges in WB.
- ❖ Member of "Stakeholders meeting to discuss the development of *Cannabis* monograph in India Pharmacopoeia" Indian Pharmacopoeia Commission, Govt. of India, Ghaziabad on 23rd July, 2019

Abstract presented in-International Symposium/ Conference:

1. S. Kumar and **A. K. Sarkar** (1997). Regeneration of plants from leaf explants of *in vitro* cultured tree legume *Albizia procera*. Paper presented in XI World Forestry Congress held at Antalya, Turkey 13-22 October.
2. A. Sarkar, **A. K. Sarkar** and P. K. Sen (2011). Genetic diversity assessment of a few threatened mangrove species of Sundarbans, India. Paper presented in 5th International Botanical Conference held at Dhaka, Bangladesh, 9-11 December.

Popular article:

1. S. Kumar, **A. K. Sarkar**, R. Sharma and A. K. Mandal (1995). Molecular Markers in Forestry research. *Tropical Sylvics* 3 (2): 17-19.

Book Chapter:

1. **A. K. Sarkar** (2008). Tissue culture protocol for bamboos. In: *A Hand Book of Propagation Cultivation & Management of Bamboo*. Ed. Paney, B. K.; Tripathi, Y.C. and Hazarika, P.; Van Vigyan Kendra, RFRI, Jorhat, Assam. Pp 33-38.

Technical Bulletins:

1. S. Kumar and **A. K. Sarkar** (1997). *Plant Tissue Culture*. T.F.R.I. Publication No. 10.
2. S. A. Ansari and **A. K. Sarkar** (1997). *Vegetative Propagation of Trees*. T.F.R.I. Publication No. 11.

Papers presented in Conferences/ Workshop/ Symposia/ Seminars:

1. P. B. Meshram, **A. K. Sarkar** and Usha Kiran (1991). Some aspects of pest problem and their management in forest nurseries. Regional meeting of Silviculturists and Research workers of Central Region, State Forest Department of Orissa. Bhubaneshwar, 19-20 November
2. P. B. Meshram and **A. K. Sarkar** (1992). Some observations on the Bionomics and management of white grubs (*Holotrichia* spp.) in Teak nurseries. Regional meeting of Silviculturists and Research workers of Central Region, State Forest Department of Maharashtra. Chandrapur 19-20 November.
3. S. Arya, S. Sharma, F. Shirin, **A. K. Sarkar** and I. D. Arya (1994). *In vitro* shoot multiplication in some important Bamboos. Eighty-first session of the Indian Science Congress, Jaipur.
4. S. Kumar, **A. K. Sarkar** and A. K. Mandal (1996) *In vitro* high frequency shoot regeneration in *Albizia procera*. Seventh Regional meeting of Silviculturists and Research workers of Central Region, State Forest Department of Orissa. Bhubaneshwar 6-8 February.
5. S. Kumar, **A. K. Sarkar**, P. K. Rana and Y. Mishra (1997). Shoot regeneration from Tissue cultured leaves of Safed sirris (*Albizia procera*). Paper presented in UNDP sponsored International Forestry Workshop held at Dehradun 25-26 April.
6. **A. K. Sarkar** and S. A. Ansari (2000). Post tissue culture hardening of *Albizia procera* plantlets. Paper presented in Workshop-cum Peer Review in *Albizia* spp. Held at CSFER, Allahabad 28th September.

7. **A. K. Sarkar** and A. Thakur (2006). Extension potential of tissue culture raised plants of timber trees to enhance forest productivity. Abstract presented in Regional workshop on Forestry Extension held at Rain Forest Research Institute, Jorhat, 14th July,
8. N. Chattopadhyay, P. Das and **A.K.Sarkar** (2011). Allelopathic effect of *Parthenium* leaf leachates on two medicinally important species of *Cassia* (*Cassia sophera* L. and *Cassia obtusifolia* L.). Paper presented in National Seminar on “Recent advances in plant sciences diversity, conservation & its applications” held at dept. of Botany, Rishi Bankim Chandra College, Kanthalpara, Naihati, 18th -19th November, 2011.
9. N. Chattopadhyay and **A.K.Sarkar** (2011). Diversity and conservation of plants in sacred patches in some places of north 24 Parganas. Paper presented in UGC sponsored National Seminar on “Biodiversity –crisis, conservation & Management” held at dept. of Botany, East Calcutta Girls’ College, Lake Town, Kolkata-700089, 8th -9th December.
10. S. Mandal, A. Mukherjee and **A.K.Sarkar** (2012). Physio-chemical features of few promising mango-genotypes (*Mangifera indica* L.) in Murshidabad and Malda districts of West Bengal. Paper presented in UGC sponsored National Seminar on “Plant Science Research In Human Welfare,” held at dept. of Botany, Bidhannagar College’EB-2, Salt Lake, Sector-I, Kolkata-700064, 11th and 12th January,
11. S. K. Mandal, **A. K. Sarkar** and G. Haith (2015). A new report on fruticose lichen *Ramalina* sp. from two virgin Islands Lothian and Dhonchi of Sundarbans in West Bengal. Paper presented in National Conference on Cryptogam Research in India: Progress and Prospects held at CSIR-National Botanical Research Institute, Lucknow, UP. September 28-29.
12. **A. K. Sarkar**, P. S. Roy, A. Manna, A. Paul, D. Mondal, M. Khatoon and D. Das (2017). Regeneration and histological of plants derived from cotyledon explants *in vitro* culture of bitter gourd (*Momordica charantia* L.). Paper presented in 38th Annual Meeting of Plant Tissue Culture Association (India) & National Symposium on Plant Biotechnology: Current Perspectives on Medicinal and Crop Plants held at CSIR-Indian Institute of Chemical Biology, Jadavpur, Kolkata-700032, 3rd -5th March.

13. **A. K. Sarkar** and R. Halder (1018). Studies on physio-chemical parameters and genotoxicity effect of sewage water of three locations on *Allium cepa* L. and *Zea mays* L. roots. Paper presented in International Symposium on Biodiversity and Biobanking BIODIVERSE 2018 held at IIT Guwahati, Assam. 27th-29th January.

Poster presentation:

1. **A. K.Sarkar** and S. A. Ansari (2010). Post tissue culture hardening of *Albizia procera* plantlets. Abstract presented in National Symposium on Plant Cell Tissue Culture: The present Scenario & XXXI Annual Meeting of Plant Tissue Culture Association (INDIA) held at Centre of Advanced Study, Department of Botany, University of Calcutta in collaboration with the Ramakrishna Mission Institute of Culture, Kolkata, 3rd -5th March.

Research Projects:

The following project was handled by me as PI/Co-PI

- 1 Survey and Selection of Desirable Genotype of *Aquilaria malaccensis* Roxb. and Establishment of their Field Gene Bank. Funded by ICFRE, Dehradun. No,72(VIII)/2007/ICFRE R/P&P/59, Dt.21.03.2007.
- 2 Study of Reproductive Biology and Seed Production in Clonal Seed Orchard of *Gmelina arborea*. Funded by ICFRE, Dehradun. No,72(VIII)/2007/ICFRE R/P&P/59, Dt.21.03.2007.
- 3 Genetic Improvement of *Acacia mangium* for Growth Characteristics, Pulp and Timber Quality. Funded by ICFRE, Dehradun. No,72(VIII)/2007/ICFRE R/P&P/59, Dt.21.03.2007
- 4 Establishment of a Network to Facilitate Collection, Processing and Dissemination of Statistics Pertaining to Tropical Timber and other Forestry parameters in India. ITTO, Japan & ICFRE, Dehradun. No.1107/7-30/Vol;IV/ADG(S)/ICFRE, Dt.13.12.2006
- 5 Study of the current market prices of timber in Nagaland. Funded by MoEF, New Delhi. No. 3-20/92-SU MoEF, Dt.12.12.2006

Employment in Chronological order:

Sl	Employer	Post held	From	to
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No

1. Director, Tropical Forest Research Institute, P.O. RFRC, Mandla Road, Jabalpur-482021, MP. ICFRE, Under the Ministry of Environment and Forest, Govt. of India, New Delhi Research Assistant- Grade-1, Genetics and Plant Propagation Division, 23.10.1990 21.02.2003
2. Director, Rain Forest Research Institute, Post Box No. 136, Deovan, Sotai, Jorhat-785001, Assam, ICFRE, Under the Ministry of Environment and Forest, Govt. of India, New Delhi. Research Officer Biotechnology and Genetic Division, 24.02.2003 24.04.2009
3. Registrar, WBSU, Berunanpukuria, Barasat, Kolkata-126 Reader 25.04.2009 24.04.2012
4. Registrar, WBSU, Berunanpukuria, Barasat, Kolkata-126. Associate Professor 25.04.2012 Continue
