

CURRICULUM VITAE

1. **NAME:** DR. DIPU SAMANTA
2. **DESIGNATION:** STATE AIDED COLLEGE TEACHER- 1
3. **DEPARTMENT:** BOTANY
4. **EMAIL ID:** dipusamanta2010@gmail.com
botany2020kbc@gmail.com
5. **DATE OF JOINING IN SERVICE:** 01.08.2016
6. **DATE OF JOINING IN THIS COLLEGE:** 06.12.2017 (As Guest Lecturer)
Redesignated as SACT on and from 01.01.2020

7. ACADEMIC QUALIFICATION:

COURSE	SUBJECT	UNIVERSITY
B.Sc.	Botany	University of Calcutta
M.Sc.	Botany (Special Paper: Plant Cell and Tissue Culture)	University of Calcutta
Ph.D.	Botany	University of Calcutta

8. TEACHING EXPERIENCE:

INSTITUTION	COURSE	DURATION
Dr. Kanailal Bhattacharyya College	UG	06.12.2017 to till date
Lady Brabourne College	PG	16.02.2018 to till date
Jogesh Chandra Chaudhuri College	UG	01.08.2016 - 13.12.2019

9. RESEARCH EXPERIENCE: From August, 2010 to till date.

INSTITUTION	DURATION
University of Calcutta (As Research Scholar)	August, 2010 – November, 2017
Lady Brabourne College (As Honorary)	February, 2018 – till date

A) Research area:

- Micropropagation, *in vitro* callus culture, somatic embryogenesis and organogenesis of medicinally important plants, determination of clonal fidelity
- Cytomorphological analysis
- Estimation of 4C Nuclear DNA content using Cytophotometer
- Molecular analysis- using RAPD, ISSR, ITS primers, Spectrophotometric analysis
- Biochemical analysis- Protein, Isozyme assay, HPLC analysis, secondary metabolites assay
- Transcriptome analysis
- Statistical analysis and Phylogenetic study

B) Title of the Thesis:

“Analysis of Different Species and Varieties of *Tabernaemontana* using Chromosomal, Biochemical and Molecular Parameters”.

10. PAPER PUBLISHED IN JOURNAL

Sl no.	Title of Paper	Name of the Author/s	Name of Journal, volume, page number	Year of Publication	ISSN Number	Journal Link
1.	Effects of cytokinin <i>in vitro</i> shoot bud multiplication and subsequent plant regeneration of <i>Solanum melongena</i> L.	A. Mukherjee A, Lahiri K, Samanta D and Mukhopadhyay S	Journal of the Botanical Society of Bengal 65 (2): 173-177	2011	0971-2976 (Print)	https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002651&flag=Search (Published in print version only)
2.	Karyomorphological analysis of different varieties of <i>Tabernaemontana coronaria</i> .	Samanta D , Lahiri K, Mukhopadhyay MJ and	Cytologia 80: 67–73	2015	0011-4545	http://square.umin.ac.jp/mendel/cytologia-e.html

		Mukhopadhyay S.				
3.	A review on <i>in vitro</i> propagation of <i>Centella asiatica</i> L.: an important medicinal herb	Mukhopadhyay S and Samanta D	Journal of the Botanical Society of Bengal 69 (2): 77-89	2015	0971-2976 (Print)	https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002651&flag=Search (Published in print version only)
4.	Cytomorphological analysis and <i>in situ</i> 4C nuclear DNA estimation in species and varieties of <i>Tabernaemontana</i> (fam. Apocynaceae)	Samanta D, Lahiri K, Mukhopadhyay MJ and Mukhopadhyay S	Nucleus 59: 99–105	2016	(ONLINE ISSN 0976-7975, PRINT ISSN 0029-568X)	https://www.springer.com/journal/13237
5.	Genome analysis of <i>Tabernaemontana</i> utilizing cyto-morphological and nuclear DNA parameters	Samanta D and Mukhopadhyay S	Journal of the Botanical Society of	2016	0971-2976 (Print)	https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002651&flag=Search

			Bengal. 70 (2): 99-104			naId=101002651&flag=Search (Published in print version only)
6.	Morphological characterization and somatic chromosome number determination in five populations of <i>Sphagneticola calendulacea</i> (L.) Pruski.	Lahiri S, Lahiri K, Samanta D and Mukhopadhyay S	Journal of the Botanical Society of Bengal 71 (17-22)	2017	0971-2976 (Print)	https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002651&flag=Search (Published in print version only)
7.	Protein and isozyme analysis in different species, varieties and populations of <i>Tabernaemontana</i>	Samanta D and Mukhopadhyay S	International Journal of Botany Studies 3 (84-91)	2018	2455-541X	http://www.botanyjournals.com

8.	<i>In vitro</i> stable plantlet regeneration from callus culture of <i>Cicer arietinum</i> L.	Samanta D, Bhowal P, Chakraborty N, Ghosh J and Roy D	International Journal of Pharmacy and Biological Sciences 8 (648-655)	2018	2230-7605 (Online) 2321-3272 (Print)	https://www.ijpbs.com/index.php
9.	Analysis of different varieties of <i>Tabernaemontana coronaria</i> using ISSR and ITS markers.	Samanta D and Mukhopadhyay S	Journal of the Botanical Society of Bengal 72 (71-77)	2018	0971-2976 (Print)	https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002651&flag=Search (Published in print version only)
10.	<i>In vitro</i> clonal propagation, organogenesis and somatic embryogenesis in <i>Bacopa monnieri</i> (L.) Wettst	Samanta D, Mallick B and Roy D	Plant Science Today 6 (442-449)	2019	2348-1900	https://horizonepublishing.com/journals/index.php/PST

11.	Augmentation of antioxidative potential of <i>in vitro</i> propagated <i>Mentha piperita</i> L.	Roy D, Mallick B and Samanta D	Indian Journal of Experimental Biology 58 (131-137)	2020	0975-1009 (Online), 0019-5189 (Print)	http://op.niscair.res.in/index.php/IJEB
12.	Insights into the phytochemical potential of <i>Lawsonia inermis</i> L. for future small molecule based therapeutic applications	Das D, Samanta D , Banerjee R, Sinha S, Mallick B, Ganguli S, and Roy D	International Research Journal of Plant Science 11 (1-7)	2020	2141-5447	https://www.interestjournals.org/plant-science.html
13.	Influence of the home cooking practices on the bioactive components of two important edible herbs- <i>Amaranthus viridis</i> and <i>Amaranthus tricolor</i>	Roy D, Mullick R, Chakraborti N, Ghosh J, Das D, Mallick B and Samanta D	International Journal of Pharmaceutical Investigation 11 (27-31)	2021	2230-9713 (Online), 2230-973X (Print)	https://www.jpionline.org/index.php/ijpi
14.	A review on the potential of Bacoside as therapeutic lead molecules	Ganguli S, Mullick R, Das	International Research	2021	2141-5447	https://www.interestjournals.org/plant-science.html

		D, Samanta D and Roy D	Journal of Plant Science 12 (1-10)			
15.	<i>In vitro</i> stable regeneration of an important medicinal herb <i>Bacopa monnieri</i> (L.) Pennell- a way of conservation	Samanta D and Roy D	International journal of integrated research and development 1 (178-191)	2021	2278-8670	https://www.ijird.org/ (Published in print version only)
16.	Role of plants in mitigating pollution: A case study	Samanta D and Deb S	Indian Journal of Applied & Pure Biology (Special Volume) (29-34)	2021	0970-2091	http://biology-journal.org/
17.	Mangrove and molluscs association in Indian Sundarbans	Ganguly A, Samanta D, Sarkar A, Chakraborty SK	Journal of the Botanical Society of Bengal 75 (2)	2021	0971-2976 (Print)	https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002651&flag=Search

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11. BOOK CHAPTER PUBLISHED:

Sl no.	Title of the Paper	Title of the book	Name of the Author/s	Name of the Publisher (National/ International)	ISBN number	Year of publication	Link
1	<i>IN VITRO</i> CLONAL PROPAGATI ON IN <i>CENTELLA</i> <i>ASIATICA</i>	FRONTIERS IN LIFE SCIENCE	DIPU SAMANTA	BHUMI PUBLISHING (NATIONAL)	978-81- 953600- 5-5	2021	https://www.bhumipublishing.com/wp-content/uploads/2021/07/Frontiers-in-Life-Science-Volume-IV.pdf
2	A REVIEW ON ORGANIC FARMING	FUNDAMENTALS ON PLANT AND SOIL MICROBIAL INTERACTIONS:	DIPU SAMANTA AND	BHARTI PUBLICATIONS (NATIONAL)	987-93- 91681- 08-1	2021	https://bhartipublications.com/ (Print version)

		(THEORY AND PRACTICE)	SAMADRI TA DEB				
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12. PAPER PUBLISHED IN PROCEEDINGS

SL NO.	NAME OF THE PROCEEDINGS	ORGANIZED BY	TITLE OF PAPER	YEAR
1.	Proceedings of Botanicals in Integrated Health Care	Agri Horticultural Society of India.	Stable Plant Regeneration through Somatic Embryogenesis in two species of <i>Allium</i> .	2010 (Print version only)

13. PAPER/ POSTER PRESENTED IN SEMINAR/ CONFERENCE/ SYMPOSIUM:

SL NO.	INTERNATIONAL/ NATIONAL/ STATE/ LOCAL	ORGANIZED BY	TITLE OF PRESENTATION	DATE
1.	International	Agri Horticultural Society of India.	Stable Plant Regeneration through Somatic Embryogenesis in two species of <i>Allium</i> . (Poster presentation)	26 th - 28 th December, 2010

2.	National	Indian Science Congress Association	Cyto-morphological study of species and varieties of <i>Calathea</i> . (Poster presentation)	3 rd – 7 th January, 2013
3.	International	University of Calcutta	Genome analysis of varieties of <i>Tabernaemontana divaricata</i> using chromosomal and molecular markers. (Poster presentation)	15 th -16 th February, 2014
4.	National	West Bengal Academy of Science & Technology	Cytological study of <i>Tabernaemontana coronaria</i> . (Poster presentation)	27 th - 29 th November, 2014,
5.	National	All India Congress of Cytology and Genomics	Chromosome analysis and <i>in situ</i> 4C nuclear DNA estimation in <i>Tabernaemontana</i> . (Poster presentation)	22 nd - 24 th December, 2015,
6.	International	University of Calcutta	Karyological, biochemical and molecular investigations on <i>Tabernaemontana</i> . (Poster presentation)	21 st - 23 rd December, 2016
7.	National	University of Calcutta	Genome characterization of different species, varieties and populations of <i>Tabernaemontana</i> using protein and molecular markers. (Poster presentation)	29 th and 30 th March, 2018
8.	International	St. Xavier's College in collaboration with The	A study on biochemical characterization and micropropagation of <i>Lawsonia inermis</i> .	20 th December, 2019

		Blue Patch and The Biome	(Poster presentation)	
9.	National	Bidhannagar College	Micropropagation as a tool for meeting the challenge of manipulation and conservation of two species of <i>Mentha</i> . (Poster presentation)	22 nd and 23 rd February, 2020
10	National	Seva Bharti Mahavidyalaya, Lalgarh College in collaboration with Dristicon organization	<i>In vitro</i> stable regeneration of an important medicinal herb <i>Bacopa monnieri</i> (L.) Pennell- a way of conservation. (Oral presentation)	28 th to 30 th July, 2021
11	International	St. Aloysius College	A review on the role of natural immunomodulators in respect to the COVID- 19 outbreak (Oral presentation)	27 th and 28 th August, 2021
12	International	Seva Bharti Mahavidyalaya, Lalgarh College in collaboration with Avinashilingam Institute for Home Science and Higher Education for Women	<i>In vitro</i> regeneration of <i>Glycyrrhiza glabra</i> L. (Oral presentation)	25 th - 27 th November, 2021

13	International	Seva Bharti Mahavidyalaya, Lalgarh College in collaboration with Avinashilingam Institute for Home Science and Higher Education for Women	Role of plants in mitigating pollution: A case study (Oral presentation)	25 th - 27 th November, 2021
14	National	Seva Bharti Mahavidyalaya, Lalgarh College in collaboration with Avinashilingam Institute for Home Science and Higher Education for Women	Plants for soil pollution control: A review (Oral presentation)	22 nd – 23 rd December, 2021

14. PRESENTED PAPER AS SPEAKER/ RESOURCE PERSON:

SL NO.	INTERNATIONAL/ NATIONAL/ STATE/ LOCAL	ORGANIZED BY	TITLE OF PRESENTATION	DATE
1.	International	Reignite Innovative Conferences- 2 nd edition of Global Biotechnology Conference	<i>In vitro</i> studies of an important medicinal herb <i>Bacopa monnieri</i> with reference to chromosome and biochemical analysis.	18 th and 19 th March, 2021
2.	Local	Lalgarh College, Seva Bharti Mahavidyalaya in collaboration with Dristicon organization	Plant cell and tissue culture: a way of plant propagation.	25 th September, 2021

15. PROFESSIONAL ENRICHMENT COURSES:

Academic Session	Sl no.	Course	Topic	Organized by	Date
2018-19	1	Workshop	B.Sc. Practical syllabus (Algae and Fungi)	Prabir Chatterjee Research Foundation in collaboration with CAS, Dept. of Botany, University of Calcutta	1 st August, 2018

	2	National Workshop	Vascular Plant Taxonomy: Field skills, Plant identification & Plant nomenclature	Taxonomy Research & Training Centre (AICOPTAX, MoEF & CC, Govt. of India) & CAS, Dept. of Botany, University of Calcutta	5 th to 12 th December, 2018
	3	National Workshop	Cryptogam Taxonomy: Field to Laboratory	Taxonomy Research & Training Centre (AICOPTAX, MoEF & CC, Govt. of India) & CAS, Dept. of Botany, University of Calcutta	29 th January to 5 th February, 2019
2019-20	1	Local Workshop (Summer School)	Computational biology and <i>in silico</i> data analysis	The Biome Research Facility	10 th – 16 th August, 2019
	2	National Workshop	Translational approach of the Botanical Code	Taxonomy Research & Training Centre (AICOPTAX, MoEF & CC, Govt. of India) & CAS, Dept. of Botany, University of Calcutta	10 th to 12 th February, 2020
	3	Workshop	B.Sc. Practical Syllabus (Plant Geography, Ecology and Evolution, Economic Botany, Genetics)	Prabir Chatterjee Research Foundation in collaboration with CAS, Dept. of Botany, University of Calcutta	4 th to 6 th March, 2020.
	4	5-days Online International Faculty Development Programme	Teaching, learning & evaluation in HEIs in pandemic & post pandemic India- Issues & Challenges	Indian Academic Researchers Association in association with Barrackpore Rastraguru Surendranath College & Panihati Mahavidyalaya	25 th to 29 th June, 2020

2020-21	1	2-days e-Workshop	Online Teaching, Learning and Evaluation	New Alipore College and K. K. Das College	18 th and 19 th July, 2020
	2	Faculty Development Programme	Outcome Based Education	Rai University, Pune	22 nd to 24 th July, 2020
	3	2- days Professional Development Programme	Application of ICT in the 'New Normal' Teaching & Learning	Barrackpore Rastraguru Surendranath College	29 th and 30 th July, 2020
	4	One week Faculty Development Programme	Art of effective teaching	Vidya Jyothi Institute of Technology	3 rd to 8 th August, 2020
	5	7-days International Workshop/ STC	Challenges and opportunities of e-learning in special context to educational philosophy	KGK College, Moradabad	7 th to 13 th August, 2020

	6	Workshop	Aquaculture and Fisheries: Development and Sustainability	Guru Nanak College (Autonomous)	13 th to 19 th August, 2020
	7	2-days e- Workshop: e- Adhyayan	Online Teaching, learning and evaluation	Uluberia College and K. K. Das College	16 th and 17 th August, 2020
	8	5-days Online Faculty Development Programme	An Insight into Research Methodology in Social Science	Barasat College	24 th to 28 th August, 2020
	9	2-days National Workshop	Online Teaching-Learning in Present Scenario	Department of Education, Kidderpore College in collaboration with IQAC, Kidderpore College	26 th and 27 th August, 2020
	10	National Online Professional Development Programme	The open way of virtual learning and issues of plasiarism	Karimpur Pannadevi College	30 th August, 2020

	11	National online Faculty Development Programme	Online Teaching and Learning Tools	St. Mary's College (Autonomous)	6 th to 8 th November, 2020
	12	FDP	Emerging Trends in Plant Sciences Topic III – Intellectual Property Rights: Powerhouse for Innovation	Department of Botany, Vivekananda College, Tiruvedakam West, Madurai	1 st March, 2021
	13	FDP	Emerging Trends in Plant Sciences Topic VI – An Insight into the Biology of Arbuscular Mycorrhizal Symbiosis	Department of Botany, Vivekananda College, Tiruvedakam West, Madurai	26 th March, 2021
	14	National e-Workshop	Modern angiospermic taxonomy: Concept, Tools and Techniques	Dev Samaj College for Women, Ferozepur	4 th May, 2021
	15	One week FDP Webinar	Digital skills for smart teaching	Don Bosco College (Autonomous), Manipur	14 th to 19 th June, 2021

	16	Online Faculty Development Workshop	How to Use ICT in Teaching, Learning & Administrative Practices in Higher Education Institutions	IQAC, Surendranath College	18 th to 20 th June, 2021
2021-22	1	Online Faculty Development Programme	Biopharmaceutical Technology & Probiotics	St. Aloysius College (Autonomous), Jabalpur, (M. P.), INDIA	8 th - 14 th November 2021
	2	Online Faculty Development Programme	Data Analytics for Business & Research	St. Xavier's College (Autonomous), Kolkata	4 th December, 2021

16. LIFE MEMBERSHIP: - Botanical Society of Bengal

Prabir Chatterjee Research Foundation

17. ANY OTHER INFORMATION: - Reviewer of a Journal (UGC care listed) (April, 2020 to till date)