

Name and full correspondence address:

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Siksha- Bhavana  
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Institution:

Visva-Bharati (A Central University)

Date of Birth:

03.11.1975

Gender: Female

Category Gen/SC/ST/OBC: Sc

Nationality: Indian

Educational and Professional Qualifications:

Examinations	Name of the Board/University	Year of Passing	Percentage of marks	Division	Subject(s)
Secondary Education	WBBSE	1991	70.1	I	FL- BNG, SL-ENG, ADL- BIO
Plus 2	WBCHSE	1993	59	II	BNGA, ENGB, PHYS, CHEM, MATH, BIOS
B.Sc.(H)	THE UNIVERSITY OF BURDWAN	1996	50.25	II	BOTH, ZOOP, CHEP
M.Sc.	THE UNIVERSITY OF BURDWAN	1998	63.91	I	BOTANY
B. Ed (Life Science)	THE UNIVERSITY OF BURDWAN	2000	66.1	I	LIFE SCIENCE
UGC- Lectureship- Net	JOINT CSIR-UGC	2000			

PhD thesis:

PhD Thesis title	Guide's Name	University	Year of award
STUDIES IN THE MORPHO-TAXONOMY OF SOME INDIAN LNSAEOID FERNS	Prof. Radha Nath Mukhopadhyay	The Burdwan University	2007

Employment:

Designation	Name of Employer	Address	Date of Joining		Salary with Grade
			Joining	Leaving	
Lecturer	Govt. Of West Bengal Higher Education	Jhargram Raj College, Raghunath Pur, Jhargram, West	19.03.2002	05.03.2003	8,000 13,500
Lecturer	Visva-Bharati	Department of Botany, Siksha-Bhavana, Santiniketan-731235	06.11.2003	06.08.2007	GP- 6000
Assistant professor II	Visva-Bharati	Department of Botany, Siksha-Bhavana, Santiniketan-731235	07.08.2007	06.08.2012	GP- 7000
Assistant professor III	Visva-Bharati	Department of Botany, Siksha-Bhavana, Santiniketan-731235	07.08.2012	06.08.2015	GP- 8000
Associate Professor	Visva-Bharati	Department of Botany, Siksha-Bhavana, Santiniketan-731235	07.08.2015		GP-9000

Research areas/Interest:

- Effects of ultra high dilution substances on plant model
- Ecological diversity of pteridophytic flora.
- Ethnobotanical study of pteridophytes.
- Phytochemicals, antimicrobial properties and heavy metal accumulation of pteridophytes towards an approach to bioremediation.

### PhD Student Awarded

Name of the Student	Thesis title	Year, PhD awarded
Sandhimita Mondal	A study of drugs at high dilutions on some selected economically important plants	2014
Subhajit Mondal	Diversity, ethnobotany and phytochemistry of pteridophytes from Birbhum District, West Bengal	2016
Mrinmoy Ghosh	Study of pteridophytic flora of Hooghly District, West Bengal with reference to ecological and ethnobotanical aspects	2017

### PhD Student working

Name of the Student	Thesis title	Date of Registration
Nandita Pal	Advances in phytoremediation of contaminated soil by some pteridophytes	23.08.2014
Amit Rakshit	Studies on the endophytic bacterial diversity in some pteridophytes	29.08. 2015
Avijit Karmakar	Studies on diversity and ethnobotany of pteridophytes from Bankura District, West Bengal	29.07.2017
Debjyoti Mukerjee	Morphological and physiological characterization of some cyanobacterial species under natural condition and stressed condition	29.07.2017
Mosarof Hossain	Diversity and uses of pteridophytes of Murshidabad District, West Bengal	20.08. 2018
Sk Salek Sohel	Studies on phytoremediation and biosorption of some ferns from West Bengal	11.01.2021

## Dissertation Papers Guided

Sl. No.	Title	Year
1.	Phytochemical assaying and screening of pteridophytes from Santiniketan	2013
2.	Seasonal diversity study of pteridophytes in two different regions	2013
3.	Effect of copper and lead on spore germination and gametophyte development in <i>Pteris vittata</i> L. and <i>Thelypteris thelypteroides</i> (michx.) Holub.	2014
4.	Cytological study of <i>Adiantum incisum</i> Forsk. and <i>Lygodium japonicum</i> Thunb.	2014
5.	Phenological study of <i>Marsilea minuta</i> L	2014
6.	Phenological study of <i>Salvinia Molesta</i> Mitch.	2014
7.	Quantitative and qualitative analysis of two medicinally important pteridophytes	2014
8.	Study the pteridophytic diversity at Burdwan University campus and Jirat	2015
9.	Phytochemical and morphological study of two aquatic ferns <i>Azolla pinnata</i> br. And <i>Marsilea minuta</i> L	2015
10.	Cytological study on the three genera of the family Thelypteridaceae	2015
11.	Phytochemical analysis and screening of active compounds in <i>Adiantum lunulatum</i> Burm. and <i>Christella dentata</i> Br.	2015
12.	Study on cytology and cytotoxic effect induced by copper sulphate in <i>Thelypteris interrupta</i> (wild.) K. Iwats	2016
13.	Study on morpho- anatomy of some pteridophytes from Burdwan city	2016
14.	Study on morpho anatomy of some pteridophytes from Shilong, Meghalaya	2016
15.	Study on the phytochemical analysis of some pteridophytes from Susunia hill, Bankura	2016
16.	Study on phytochemical analysis of some pteridophytes from Burdwan city, west bengal	2016
17.	Seasonal study on phytochemical analysis and antimicrobial activity of	2017

	<i>Thelypteris interrupta</i> (wild.) K. Iwats. from Santiniketan, West Bengal	
18.	Phenological study on some pteridophytes in medicinal and herbal garden of botany department, Santiniketan	2018
19.	Studies on diversity and ethnomedicinal uses of some pteridophytes from Jhalda subdivision of Purulia District, West Bengal	2018
20.	Phenological study on some ferns in medicinal and herbal garden of botany department, Santiniketan	2018
21.	Morpho-Anatomical studies of ferns present in the Departmental Medicinal Garden, Visva-Bharati	2019
22.	Morpho-Anatomy Study and Phytochemical Assessment of <i>Lugodium japonicum</i> and <i>Thelypteris dentata</i>	2019

#### Sanctioned Project:

- I. The Asiatic Society funded project “Homeopathic potencies, their Spectroscopic characteristics and their effect on proteins” from May, 2009 –Jan. 2013.
- II. UGC funded major project “Study of Pteridophytic flora and its Ethanobotany in Rarh region, West Bengal” from Feb, 2010-Jan, 2013.

#### Publications:

- I. Sukul NC, Singh RK, Sukul (Chunari) S, Sen P, Bhattacharya A, Sukul A, Chakraborty R. 2008. Potentized drugs enhance growth of Pigeon Pea. *Environmental Ecology*; 26 (3): 1115-1118.
- II. Sukul NC, Singh RK, Sukul (Chunari) S, Sukul A. 2009. Potentized *Cina* reduces root-knot nematode infestation and altered root protein profile of Cowpea. *Science & culture*; 75 (7-8) 291-293.
- III. Sukul NC, Singh RK, Sukul (Chunari) S, Sen P, Bhattacharya A, Sukul A, Chakraborty R. 2009. Homeopathic potencies promote growth of Lady’s finger, *Abelmoschus esculentus*. *Journal of Natural History*; 90-97.

- IV. S Sukul, S Mondal, N C Sukul, 2010, Homeopathic Potencies and their mixture with sucrose show differences in their Fourier Transform Infrared Spectra, *Journal of Asiatic Society*, LII: 25-32.
- V. Sukul N C, Mondal S, Sukul S (nee Chunari), 2010, *Cantharis* 200c may induce expression of small heat shock like proteins in *Adhatoda vasica* leaves, *Science & Culture*; 76: 540-543.
- VI. Nirmal C Sukul, Soma Sukul, and Sandhimita Mondal, 2011, Plant growth inhibitors at ultra high dilution enhance chlorophyll content and alter leaf protein profile, *Journal of Alternative Medicine Research*; 3(2): 189-194. .
- VII. Sandhimita Mondal, S. Sukul and N. C. Sukul, 2012. Transfer of effect of heat shock and drug treatment from one plant to another through water. *Journal of Alternative Medicine Research*; 4 (2):179-185 .
- VIII. Sukul, S., Mondal, S. and Ghosh M. 2012. Phytochemical analysis and screening for active compounds in *Lycopodium cernuum*, *Indian Fern Journal*; 29: 39-43.
- IX. Sukul, S. and Mondal, S. 2012. Phytochemical Properties and Ethnobotany of *Selaginella bryopteris* (L). Baker. – “The Sanjeevani”, *Phytomorphology*; 62 (3&4): 171-175.
- X. Banerjee Poushali, Sukul Soma. 2013. ‘Cuprum Sulphuricum – a homeopathic drug can combat toxic effect of Cu, promote seed germination and peroxidase activity in *Vigna unguiculata* L.’, Proceedings of the XXVII GIRI Symposium; 2013Sep03-04; Bern (Switzerland); *International Journal of High Dilution Research*; 12(44):129-130.
- XI. Sukul Soma, Sukul Nirmal Chandra, Mondal Sandhimita, Sukul Anirban. 2013. ‘New homeopathic potencies promote plant growth and development’, Proceedings of the XXVII GIRI Symposium; 2013Sep03-04; Bern (Switzerland); *International Journal of High Dilution Research*; 12(44):98-99.
- XII. Sukul Soma, Mondal Sandhimita and Sukul Nirmal C. 2014. Sodium chloride at ultra high dilution counters salt effect on germination and early seedling growth in cowpea *Vigna unguiculata* (L) Walp., *Journal of Alternative Medicine Research*; 6(1): 45-53.
- XIII. Sukul Soma, Sukul Nirmal Chandra and Sukul Anirban. 2015. Copper sulphate at ultra high dilution counters antioxidative reactions of copper in *Vigna unguiculata* L. *Journal of Alternative Medicine Research*; 7(4): 345-351.
- XIV. Pal Nandita and Sukul Soma. 2015. Effect of Copper on Spore germination of *Pteris vittata* Linn. *International Journal of Applied and Pure Science and Agriculture*; 1(8): 114-118.

- XV. Ghosh Mrinmoy and Sukul Soma. 2015. An ecological survey & ethnobotanical study of four epiphytic Pteridophytes of Hooghly district in West Bengal. *International Journal of Applied and Pure Science and Agriculture*; 1(12): 115-122.
- XVI. Mondal Subhajit and Sukul Soma. 2016. Diversity of pteridophytes in Birbhum District, West Bengal. *The Indian Fern Journal*; 33: 91-106.
- XVII. Rakshit Amit and Sukul Soma. 2017. Impact of endophytic bacteria in plants. *Clinical and Experimental Homeopathy*; ISSN 09749.
- XVIII. Rakshit Amit and Sukul Soma. 2020. A preliminary study on isolation, characterization of endophytic bacteria and their abilities for the production of Indole-3 acetic acid (IAA) from *Thelypteris interrupta* (Wild.) K. Iwats.. *Wesleyan Journal of Research*. Vol: June, 2020 (**accepted**).
- XIX. Mukherjee Debjyoti, Ojha, Sri Narayan, Sukul Soma, Roy Samit. 2020. Diversity of cyanobacterial population during monsoon season in rice field located in district of Hooghly, West Bengal, India. *Indian Journal of Ecology*. (**under review**)
- XX. Dutta Avijit Kumar, Mondal Subhajit and Soma Sukul. 2020. Quantitative ethnobotanical study and phytochemical analysis of pteridophytes from Purulia District, West Bengal. *Wesleyan Journal of Research* (**communicated**).
- XXI. Pal Nandita and Sukul Soma. 2021. Consequences of Copper and Lead stress on biochemical properties and mitotic chromosomal behavior of two thelypteroid ferns and their potential in tolerance of those metals. *South African Journal of Botany*. (**communicated**).

#### National and International Standard Conference/Seminar Attended:

- I. September 03-04, 2013: Made presentation in the International XXVII GIRI Symposium; Bern (Switzerland).
- II. December 6-9, 2013: Made presentation in the 5<sup>th</sup> Indian Youth Science Conference, , Visva-Bharati, Santiniketan, West Bengal.

- III. May 29-31, 2014: Made presentation in the "8<sup>th</sup> International Conference on Chronic-Deadly Diseases Management", organized by Homeopathic Health and Medical Society (HHMS) and Natural Health & Welfare Society (NHWS), held at Khulna, Bangladesh.
- IV. 12-13, 2014: Made presentation in the National Symposium on "Advances in plant and microbial research", organized by Department of Botany, University of North Bengal.
- V. December 18-19, 2014: Made presentation in the National Seminar on 'Cryptogamic Botany Amazing Cryptogams : Learning to Know', Organized by Department of Botany, University of Kalyani in collaboration with Probir Chatterjee Research Foundation, Kolkata, held at University of Kalyani, Kalyani.
- VI. March 20-21, 2015: Made presentation in the National Seminar on 'Contemporary Progress in Plant Sciences' organized by UGC Centre of Advanced Study Department of Botany, The University of Burdwan.
- VII. September 29, 2015: Made a presentation in National Conference on Cryptogam research in India: Progress and Prospects from 28 - 29 September 2015 organized by NBRI, Lucknow, India.
- VIII. November 15, 2015: Made a presentation in National Seminar on Soil Health: Key to Sustainable Agriculture (SHKSA) from 14 -15-November, 2015 organized by Institute of Agriculture, Visva-Bharati, India.
- IX. November 17, 2015: Made a presentation in International conference on INDIA BIODIVERSITY MEET-2015; 16 – 18 November, 2015 organized by Indian Statistical Institute, Kolkata, India.
- X. March 19, 2016: Made poster presentation in National Seminar on Plant and Microbe: Diversity and Utilization; March 19 – 20, 2016, organized by UGC-DRS & DST-FIST Sponsored Department of Botany, Visva-Bharati, Santiniketan.
- XI. October 2, 2016: Presented paper in 2nd Global Summit on Herbals & Natural Remedies" held during October 17-19, 2016 at Kuala Lumpur, Malaysia; organized by OMICS International.
- XII. September 13-14, 2017: Participated in the ISMPP Zonal Meet (East Zone) And National Seminar On Impact Of Changing Environment on Plants, Microbes And Their Interactions. 13-14 September, 2017organized by ISMPP and Department of Botany, Visva-Bharati.

- XIII. January 30, 2018: Presented paper and chaired a session in W.B Biodiversity Board Sponsored National Seminar on 'Local Biodiversity' organized by Department of Botany, Raja Rammohun Roy Mahavidyalaya, Hooghly in association with Radhanagar Pally Samity on January 30, 2018.
- XIV. February 3, 2018: Participated, delivered an invited lecture and conducted practical class in Work Shop On Advanced Technologies In Botany Teaching And Research; 3-9 February, 2018, organized by Probir Chatterjee Foundation and CAS, Department of Botany; University Of Calcutta.
- XV. March 29, 2018: Chaired a session and presented a paper in National Seminar on Trends in Contemporary Research in Plant Science; 29-30 March, 2018, organized by Department of Botany and Forestry, Vidyasagar University.
- XVI. March 28, 2019. Act as Organizing Secretary in National Seminar on Sustainable Utilization of Plants and Microbes; 28<sup>th</sup> March, 2019, organized by Department of Botany, Visva-Bharati.
- XVII. February 25, 2020. Chaired a session and presented a paper in the National Conference on Pteridology today and tomorrow: Relevance to impact on diversity and climate change; February 24-25, 2020, organized by Department of Botany, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat.

#### Honors:

1. Life member :The Indian Fern Society since 2015
2. Life Member: International society of Plant Morphologists since 2005
3. Life Member: Probir Chatterjee Research Foundation, University of Calcutta since 2015
4. Editorial Board: Clinical And Experimental Homeopathy, Sukul Institute Of Homeopathic Research, since 2008

Place: Santiniketan

Signature