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| <b>Name: Dr Soma Sukul nee Chunari</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| <b>Designation: Assistant Professor (Stage III)</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                    |
| <b>Qualification: MSc, PhD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                    |
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| <b>Teaching Experience:</b><br>12 years                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    |
| <b>Research Experience:</b><br>14 years                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    |
| <b>Research areas/Interest:</b><br><br>Study the effects of ultra high dilution substances on seed germination and plant growth including rice (peroxide activity, salt tolerance and toxic tolerance of economically important cereals, pulses).<br><br>Agrohhomeopathy<br><br>Ecological survey of pteridophytic flora.<br><br>Ethnobotanical study of pteridophytes.<br><br>Phytochemicals, antimicrobial properties and heavy metal accumulation of pteridophytes towards an |                                                                                    |

approach to bioremediation.

Phytoremediation.

#### **Awards and Honours:**

- I. Gold Medal Award from Homeopathic Health & Medical Society, Bangladesh on May 30, 2014.
- II. Best Oral Presentation in Technical Session – IV in the National Seminar held At the Kalyani University in the Department of Botany on December 18- 19, 2014.

#### **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 area, West Bengal” from Feb, 2010-Jan, 2013.

#### **Significant 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. *Env. Ecol.* 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. *Sci. & cult.* 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*. *J. Nat. Hist.* 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, *J Asiatic Soc*, 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, *Sci & Cult* 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, *J Alt*

*Med Res*, 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. *J Alt Med Res*; 4 (2).
- 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), *Int J High Dilution Res*; 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), *Int J High Dilution Res*; 12(44):98-99.
- XII. Sukul Soma, Sukul Nirmal Chandra and Sukul Anirban. 2015. Copper sulphate at ultra high dilution counters antioxidative reactions of copper in *Vigna unguiculata* L. **Accepted in *J Alternative Med Res* 2015; 7(4):00-00.**

**Patents /Any other achievements:**

**Lab members:**

- 1. Subhajit Mondal
- 2. Mrinmoy Ghosh
- 3. Nandita Pal