UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE

Saurav Moktan PhD
Assistant Professor
Centre of Advanced Study, Department of Botany
University of Calcutta
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ACADEMIC QUALIFICATIONS

Degree	College/University
B.Sc (Hons.)	Darjeeling Government College
M.Sc.	University of North Bengal
Ph.D	University of North Bengal

PROFESSIONAL EXPERIENCES

- Worked as an Assistant Professor (WBES), Department of Botany, Gorubathan Government College, Gorubathan, Kalimpong.
- Worked as an Assistant Professor (WBES), Post-Graduate Department of Botany, Darjeeling Government College, Darjeeling.
- Worked in FRLHT Project for the exploration of three MPCAs (Medicinal Plant Conservation Area) in North Bengal located at North Sevoke, Sushruti and Raja Bhatkhawa Forests.
- Worked at National Research Centre for Orchids (ICAR), Pakyong, Sikkim under "DUS Testing Project" under central sector scheme for implementation of Plant Variety Protection (PVP) Legislation.

RESEARCH AREAS

- Plant Taxonomy & Biosystematics
- Biodiversity & Conservation
- Plant Ecology
- Ethnobotany & Medicinal Plants

RESEARCH GUIDANCE

- Number of researchers pursuing M.Phil/ Ph.D : 04

SCIENTIFIC PUBLICATIONS (Journals)

- Rai, P. & **Moktan, S.** Variation in vascular epiphytic assemblage along altitudinal zone in Temperate forest ecosystem. *Asian Jour. Conserv. Biol.,* 11(2): 247 – 257, **2022.**

- Boral, D. & **Moktan, S.** Species distribution modeling of a Cucurbit *Herpetospermum darjeelingense* in Darjeeling Himalaya, India. *Jour. Threat. Taxa*, 14(12): 22221 – 22231, **2022**.

- Mondal, S., & **Moktan, S.** Micro-morphological characters in Polypodiaceae and its taxonomic significance. *Webbia,* 77(2): 285 – 305, **2022.**

- Rai, P. & **Moktan, S.** Diversity of Epiphytic Fern and Fern Allies in Darjeeling Region of Eastern Himalaya, India. *Ind. Jour. Ecol.,* 49(6): 2282 – 2290, **2022**.

- Mondal, S., Nath, A. & **Moktan, S.** Taxonomic study on the subfamily Crypsinoideae of Polypodiaceae from Darjeeling Himalaya, India. *Pleione*, 16(3): 318 – 329, **2022**.

- Rai, P. & **Moktan, S.** An updated checklist of vascular epiphytes in the Darjeeling Himalaya, India. *Check List*, 18 (6): 1279 – 1319, **2022**.

- Tolangay, D. & **Moktan, S.** Assessment of carbon stock and sequestration potential in sub- tropical forests of Darjeeling, eastern Himalaya. *Proc. Int. Acad. Ecol. Environ. Sci.,* 12(4): 352 – 366, **2022**.

- Boral, D. & **Moktan, S.** Mapping the spatial distribution of the invasive Mexican Sunflower *Tithonia diversifolia* (Asteraceae) in South East Asia. *Jour. Asia-Pac. Biodiv*., 15(2022): 425 – 434, **2022**.

- **Moktan, S**., Mondal, S., Boral, D. & Rai, P. The fate of *Diplomeris hirsuta* (Lindl.) Lindl.: A vulnerable Orchid in Darjeeling region of eastern Himalaya, India. *Eco. Env. Conserv.,* 27(3): 1174 –1179, **2021.**

- Mukherjee, S. & **Moktan, S.** Quantitative Ethnobotanical study on traditional use of medicinal plants in Malda district of West Bengal, India. *Int. Jour. Sci. Res. Rev.,* 10(2): 47 – 65, **2021.**

- Boral, D. & **Moktan, S.** Predictive distribution modeling of *Swertia bimaculata* in Darjeeling-Sikkim Eastern Himalaya using MaxEnt: current and future scenarios. *Ecological Processes*, 10(26): 1 – 16, **2021.**

- Sikder, A. & **Moktan, S.** Cypsela diversity in some members of Compositae through LM study and its taxonomic significance. *Micros. Res. Techniq.,* 1 – 12, **2021.**

- Rai, P. & **Moktan, S.** Diversity and Distribution of Vascular Epiphytic Flora in Sub- temperate Forests of Darjeeling Himalaya, India. *Ann. Res. Rev. Bio.,* 35(5): 63 –81, **2020.**

- Nirola, S., **Moktan, S.** & Das, A.P. Occurrence of *Ariopsis protanthera* N.E. Br. (Araceae) in Darjeeling Hills: A new record for the flora of West Bengal, India. *Pleione,* 14(2): 355 – 359, **2020.**

- **Moktan,** S. & Rai, P. Ethnobotanical approach against respiratory related diseases and disorders in Darjeeling region of eastern Himalaya, *NeBIO,* 10(2): 99 –105, **2020.**

- Tolangay, D. & **Moktan. S.** Trend of studies on carbon sequestration dynamics in the Himalaya hotspot region: A review. *Jour. App. Nat. Sci.,* 12(4): 647 – 660, **2020.**

- Mondal, S. & **Moktan, S.** A Paradoxically Significant Medicinal Plant *Carapichea ipecacuanha*: A Review. 54(2s): s56 –s66, **2020.**

- Lungphi, P., Mondal, S., **Moktan, S.** & Das, A.P. Leaf architectural studies in *Phyllanthus* L. (Phyllanthaceae) from Arunachal part of Eastern Himalaya in India. *Int. Res. Jour. Bio. Sci.,* 8(10): 38 –47, **2019.**

- Maity, D. & **Moktan, S.** Japanese cedar (*Cryptomeria japonica* D. Don, Taxodiaceae) flowers in Arun Kumar Sharma Botanic Garden (AKSBG) at Kolkata, West Bengal, India. *Pleione,*13 (2): 385 –388, **2019.**

- Karmakar, D., **Moktan, S.** & Das, A.P. Foliar micro-morphological traits in some members of Ericaceae from Darjeeling Himalaya. *Pleione,*11(2): 341 – 348, **2017.**

- Tiwary, B.K., Ghosh, R., **Moktan, S.,** Ranjan, V.K., Dey, P., Choudhury, D., Dutta, S., Deb, D., Das, A.P. & Chakraborty, R. Prospective bacterial quorum sensing inhibitors from Indian medicinal plant extracts. *Lett. App. Microb.* (65): 2 – 10, **2017.**

- Lama, D., **Moktan, S.** & Das, A.P. Diversity and distribution of *Acer* Linnaeus (Sapindaceae) in Darjiling and Sikkim Himalayas. *Pleione,* 9(1): 61 – 73, **2015.**

- Gupta, S.K., Sharma, A. & **Moktan, S.** A review on some species of *Marchantia* with reference to distribution, characterization & importance. *Wor. Jour. Phar. Pharmaceu. Sci.,* 4(4): 1576 – 1588, **2015.**

- Chhetri, P., Gudade, B.A., **Moktan, S.**, Bhattarai N.K. & Gupta, U. Study of diversity and species richness of weed flora in large cardamom (*Amomum subulatum* Roxb.) plantations at Sikkim. *Eco. Env. Conserv.* 20(1): 191 – 194, **2014.**

- Chettri, D., **Moktan, S.** & Das, A.P. Ethnobotanical studies on the Tea Garden workers of Darjiling Hills. *Pleione,* 8(1): 124 – 132, **2014.**

- **Moktan, S.** & Das, A.P. Plant species Richness and Phytosociological attributes of the Vegetation in the cold temperate zone of Darjiling Himalaya, India. *Int. Res. Jour. Env. Sci.,* 3(10): 47 – 57, **2014.**

- **Moktan, S.** & Das, A.P. Diversity and composition of Tree stands in Tropical forests of the Darjiling part of Eastern Himalaya. *Int. Jour. Curr. Res.,* 6(12): 10446 – 10451, **2014.**

- **Moktan, S**., Lama, P.C. & Pradhan, B. Role of Effective Microorganism (EM) in improving seed longevity and viability under adverse storage conditions. *Int. Jour. Adv. Life Sci.,* 7(1):119 – 127, **2014.**

- **Moktan, S.** & Das, A.P. Diversity and distribution of invasive alien plants along the altitudinal gradient in Darjiling Himalaya, India. *Pleione,* 7(2): 305 – 313, **2013.**

- **Moktan, S.** & Das, A.P. Phytosociological characterization of forested vegetation in the sub-tropical region of Darjiling Himalaya, India. *Pleione,* 6(2): 373 – 380, **2013.**

- **Moktan, S**. & Das, A.P. Ethnomedicinal approach for Diarrhoeal treatment in Darjiling district (WB), India. *Ethnobotany,* 25: 160 – 163, **2013.**

- **Moktan, S.**, Nirola, S. & Das, A.P. *Oplismenus undulatifolius* (Arduino) P. Beauvois [Poaceae]: a new record for West Bengal, India. *Pleione,* 6(1): 247 – 249, **2012.**

- Das, A.P., Ghosh, C., Sarker, A., Biswas, R., Biswas, K., Choudhury, D., Lama, A., **Moktan, S.** & Choudhury, A. Preliminary report on the Medicinal Plants fromthree MPCAs in Terai and Duars of West Bengal, India. *Pleione,* 4(1): 90 – 101, **2010.**

- Devadas, R., Medhi, R.P., **Moktan, S.** & Khatiwara, P. Salient features of DUS Testing on Orchids. *NRCO/DUS Bulletin,* National Research Centre for Orchids (ICAR), Pakyong, Sikkim. **2007.**

Book chapters:

- Mondal, S., Rai., P., Das, P. & **Moktan. S.** Spore morphology and ornamentation of fern and fern-allies from West Bengal, India. In S.K. Srivastava and G.P. Srivastava (Eds.) *Ferns: Growth, Diversity and Ecological Importance,* Nova Science Publishers, Hauppauge, New York [In Press].

- Lama, D., **Moktan. S.** & Das A.P. The genus *Acer* L. (Sapindaceae) in Darjiling-Sikkim Himalayas. In A.P. Das and S. Bera (Eds.) *Plant diversity in Himalayan Hotspot region*, Bishen Singh Mahendra Pal Singh, Dehra Dun, India. Pp- 345 – 366. **2018.**

- Shankar, Y., **Moktan, S.** & Das, A.P. Ethnomedicinal approach by the Lepcha tribe of Kalimpong area in Darjiling Hills. In Mondal, N. & Sen, J. (Eds.), *Nutrition and Health among Tribal Populations of India: A bio-cultural Approach,* B.R. Publishing Corporation, Delhi. Pp. 121 – 134. **2015.**

- Lama, D., **Moktan, S.** & Das, A.P. Diversity of pollen morphological characters in *Acer* Linnaeus (Sapindaceae) from Darjiling and Sikkim Himalayas. In Tripathi, S.K. (Ed.), *Biodiversity in Indian Tropical Ecosystem,* Today & Tomorrow Printers & Publishers, New Delhi. Pp. 153 – 165. **2015.**

- Das, A.P. & **Moktan S.** Diversity and species richness of ground cover vegetation in temperate belt of Darjiling Hills. In Debnath, S., Bagchi, B. & Misra, S. (Eds.), *Modern Trends in Social and Basic Sciences,* Readers Service, Kolkata. Pp. 174 – 182. **2015.**

- **Moktan, S.** & Das, A.P. Dominance-diversity and Species richness of herb species in the foothill forests of Kurseong. In Ghosh, C. & Das, A.P. (Eds.), *Recent Studies in Biodiversity and Traditional Knowledge in India,* Gour Mahavidyalaya, Malda. Pp. 145 – 151. **2011.**

WORKSHOPS AND TRAININGS

- Attended 14 days online Refresher Course organized by UGC-HRDC University of North Bengal, September, 9 – 22, **2022.**

- Attended one week online Faculty Development Program (FDP) on Advanced Research Methodology Applicable in New Education Policy, Jointly Organized by Digvijay Nath Post Graduate College, Gorakhpur, UP, Lucknow & Science Tech Institute(Run by MKS Educational Society), Lucknow, during June, 22 – 28, **2022,**
- Attended 14 days Refresher Course organized by UGC-HRDC University of North Bengal, August 20th to September 2nd
- **2019.**
- National workshop on "Taxonomy of vascular plants: principles and practices", Department of Botany, University of Calcutta, March, 5 – 12, **2018.**
- Attended the 31st Orientation program organized by UGC-HRDC University of North Bengal, August, 2 – 29, **2017.**
- National workshop on Plant Systematics Challenges & Perspectives, Department of Botany, University of Calcutta, February, 13 – 23, **2017.**

SEMINAR / SYMPOSIA / CONFERENCE

- Attended the inaugural National webinar (3rd RGUBOT Webinar) of Sir J. C. Bose Memorial Lecture Series, September 18, 2021, organized by Department of Botany, Raiganj University, Raiganj.
- Participated in one day National webinar on 'Biodiversity Day', May, 22, 2021, organized by shakti Manipur in collaboration with Society for Environmental Education and Development (SEED), Manipur.
- Convener of National webinar on "Plantae: Essentials of Botany", Feb 20 – 21, 2021, Department of Botany, University of Calcutta, Kolkata.
- Participated in National webinar on "Structured Lipids- Healthy Fats produced by Biocatalysis", September 8, 2020, organized by the Department of Botany, University of Kerala.
- Participated in National webinar on "Molecular Diagnostic Platforms Through Chemistry, Biology and Nanotechnology" August 21, 2020, organized by the Department of Botany, University of Kerala.
- Attended National webinar on 'Covid-19: Past, Present and Future', August 7, 2020, organized by Department of Chemical Technology, University of Calcutta, Kolkata.
- Participated in the National webinar on "Remote Sensing: Its Applications in Biological Sciences", July 24, 2020, organized by the Department of Botany, B.N. College, Dhubri.
- Attended one day National webinar on "Recent Trends in Science and Technology" July 17, 2020, organized jointly by Department of Botany, Chemistry, Physiology and Zoology & Internal Quality Assurance Cell, Netaji Nagar Day College, Kolkata.
- Participated in International Conference on "Algae, Fungi and Plants: Systematics to Applications" Jan 24 – 25, 2020, Department of Botany, University of Calcutta, Kolkata.
- Convener of National Seminar on Ecology: Today & Tomorrow, 16 Feb, 2019, Department of Botany, University of Calcutta, Kolkata.
- Delivered invite lecture at National seminar on "Tribal Society and Culture" Feb 28, 2018, Gorubathan Government College, Gorubathan, Kalimpong.
- Participated in National seminar on "Understanding Himalayan Phytodiversity in a Changing Climate" Mar, 9 – 10, 2017, Gangtok, Sikkim.
- Participated in International Conference on "Green Planet: Past present and future" Dec 21 – 23, 2016, Department of Botany, University of Calcutta, Kolkata.

MEMBERSHIP OF LEARNED SOCIETIES

- Member of IUCN-SSC Medicinal Plant Specialist Group.
- Member of the Indian Ecological Society (IES)
- Member of the Indian Botanical Society
- Life member of East Himalayan Society for Spermatophyte Taxonomy (EHSST)
- Life member of Botanical Society of Bengal
- Life member of Probir Chatterjee Research Foundation (PCRF)