



# MOYNA COLLEGE

FACULTY ACADEMIC PROFILE/ CURRICULLAM VITAE

(Up to 30.06.2021)



1. Name: **Dr. Sumit Manna**
2. Department: Department of Botany
3. Designation: Assistant Professor (Stage I)
4. Educational Qualification: (BA, MA, M.Phil. Phd, NET Etc.)

| Degree               | Year | From Which the Degree was Obtained |
|----------------------|------|------------------------------------|
| B. Sc (Hons.)        | 2006 | University of Calcutta             |
| M. Sc. (Botany)      | 2008 | University of Calcutta             |
| GATE (Life Sciences) | 2009 | IIT Roorkee                        |
| NET (Life Sciences)  | 2011 | CSIR-UGC                           |
| Ph. D                | 2015 | University of Calcutta             |

5. Award:

Best Researcher Award by The Agri-Horticulture Society of India, Kolkata.

6. Permanent Address: Vill- Basudevpur, P.O.- Banipur, P.S. Sankrail, Dist. – Howrah, Pin.-711304, West Bengal.

7. Contact Number: +91 9432561835

8. Email ID: [sumitmanna85@gmail.com](mailto:sumitmanna85@gmail.com)

9. Date of Joining: 14.12.2016

#### 10. Past Employments/ Academic Experience:

- Acquired adequate knowledge in using different statistical tools and packages for ecological studies (ANOVA, Regression, Multivariate analysis, plant association analysis by using different models) during collection and analysis of field data from 1.4.2008 to 31.7.2008 in Statistical Laboratory of Bidhannagar Govt. college, Kolkata as a **Field Assistant**.
- Involved in economic valuation of wild floristic resources of West Bengal since August 2008, as a **Research Fellow** of a successfully completed project entitled “*Dependence on Wild Floristic Diversity of Backward Communities of Birbhum District, West Bengal*” (Project Code: 5K (Bio)-2/2008, Duration:3 Years) In West Bengal Biodiversity Board, funded by Department of Environment, Government of West Bengal.
- Working as a **Senior Research Fellow** from November 2011 on the project entitled “*Sacred Grove in Birbhum District: Plant Diversity, Architecture and Tribal Management*” (Project Code: 5K (Bio)-3/2011, Duration: 2 years) under the roof of the same organization, funded by Department of Environment, Government of West Bengal.
- Worked as **Research Associate** on the project “*Economic Valuation of Ecosystem Goods of the Gonpur Forest, West Bengal*” in West Bengal Biodiversity Board. Funded by Department of Environment, Government of West Bengal. (Project Code: 5K (Bio)-4/2014, Duration: 2 Years)
- Served as **Guest Lecturer** in Post Graduate Department of Botany in Scottish Church College (affiliated to the University of Calcutta) from 1<sup>st</sup> July, 2012 to 31<sup>st</sup> July, 2015.
- Served as **Assistant Professor** (full-time) in Dept. of Botany, Scottish Church College (affiliated to the University of Calcutta) in contract basis from 1<sup>st</sup> August 2015 to 5<sup>th</sup> November, 2016.

#### 11. Specialization:

Ecology, Taxonomy, Biodiversity Economics, Conservation and Ecological modelling

#### 12. Area of Teaching:

Ecology, Biodiversity, Biochemistry, Genetics

#### 13. Orientation/ Refresher/Short-Term Course etc.

| Course                | Date                        | Duration in Weeks | University/<br>Organization |
|-----------------------|-----------------------------|-------------------|-----------------------------|
| Orientation Programme | 17.01.2020 to<br>06.02.2020 | 3 Weeks           | Burdwan University          |
| Refresher Course      | 01.09.2020 to<br>14.09.2020 | 2 Weeks           | Ranchi University           |
|                       |                             |                   |                             |

#### 14. Publication:

##### a. Research Journal:

- **Manna, S.** and A. Roy, 2010. *Euphorbia fusiformis* Buch-Ham. Ex D. Don (Euphorbiaceae) - A New Record for West Bengal. *J. Econ. Taxon. Bot.* 34(4): 814-817.
- **Manna, S., A. Roy** and T.K. Ghara, 2011. Mangrove Community in an Abandoned Brick Kiln: A Structural and Association Analysis. *Eurasian Journal of Bio-Sciences.* 6: 24-31.
- **Manna, S.** and A. Roy, 2012. Economic Valuation of Some Forest Floristic Resources Related to Tribal Utilization – A Review. *Journal of Biological and Chemical Research.* 29 (2):106-120.
- **Manna, S., T. K. Ghara, D. Ray** and A. Roy. 2013 Phytosociological analysis of a traditionally managed sacred grove in transitional ecosystem of eastern lateritic part of India. *Eurasian Journal of Bio- Sciences.* 7: 10-20.
- **Manna, S., P. Kamilya, T. K. Ghara** and A. Roy. *Helminthostachys zeylanica* (L.) Hook. in *Barringtonia* swamp: a phytoassociation analysis. *Global Journal of Science Frontire Research Biological Science.* 13(5): 7-13.
- **Manna. S., T.K. Sur, T. Seal** and A. Roy. 2012. Evaluation of Galactagogue and Antioxidant Activities of the Root Extract of *Euphorbia fusiformis*. *Asian Journal of Traditional Medicine.* 8(5): 20-29.
- **Manna. S.** and A. Roy. 2014. Economic Contribution of Wild Edible Mushroom to a forest Fringe Ethnic Community in some Eastern Lateritic Parts of India. *Journal of Forest Research.* 19(1): 52-61.
- **Manna. S., D. Ray** and A. Roy. 2014. Tribal Relation to Spatio-Temporal Variation of Wild Mushroom in Eastern Lateritic Part of India. *Ethnobotany Research and Application.* 12: 015-024.
- **Manna. S.** and A. Roy. 2014. Recognition of Plant Associations Useful for Conservation: *Ophioglossum nudicaule*, L.f., *Ophioglossum vulgatum* L. In Eastern Lateritic Part of India. *International Journal of Pure and Applied Bioscience.* 2(2) 163-173.
- **Manna. S.** and A. Roy. 2015. *Euphorbia fusiformis* and Co-Existed Plants: An Interspecific Covariance Analysis for Experimental Designing of its Conservation. *International Journal of Pure and Applied Bioscience.* 3(2): 498-505.
- **Manna, S., S. Mukherjee** and A. Roy. 2016. Contribution of Three Sedges of *Cyperus* in the Rural Economy of Sundarbans, India. *Global Journal of Science Frontire Research Biological Science.* 16(1): 33-41.

- Manna, S., **S. Manna** and A. Roy. 2017. Sacred Grove as Remnant Forest: A Vegetational Analysis. *Biodiversitas*. 18(3): 899-908.
- **Manna, S.**, R. Ghosh, N. Sen Sarkar and A. Roy. 2017. Diversity and Association Analysis of Algal Periphyton Community on *Hydrilla verticillata*, *Vallisneria spiralis* and *Ceratophyllum demersum*. *Research Journal of Pharmaceutical Biological and Chemical Sciences*. 8(2): 1232-1240.
- Roy., R., M. Maity and **S. Manna**. 2017. Study of Soil and Vegetation Characteristics in the Lower Gangetic Plains of West Bengal. *Research Journal of Pharmaceutical Biological and Chemical Sciences*. 8(3) 1558-1568.
- **Manna, S.**, C. Mondal and A. Roy. 2019. Economic contribution of Cattail (*Typha domingensis*): A source of alternative Livelihood option in flood prone Bengal Plains, India. *Research Journal of Pharmaceutical Biological and Chemical Sciences*. 10(1): 1199-1207.
- Manna., S. **S. Manna** and A. Roy. 2021. Diversity Pattern of Climbing Plants in Relation to Aquatic Sources in Fragmented Wild Patches. *Indian Forester*. 147(3): 250-260.
- **Manna, S.** And a. Roy. 2021. Economic Contribution of Wild Edible Minor Fruits to the Forest Fringe Tribals – A Sustainable Alternative Livelihood Approach. *Indian Forester*. (Acceded, in press).

b. Books (Author/Editor):

- Sanyal, A.K., S.K. Gupta and **S. Manna**. [eds.]. 2015. Biodiversity and livelihoods. Proceedings of National Conference on Biodiversity – Issues, Concern & Future Strategies, Kolkata, 16-18 January. 2014.

c. Chapter or Article in Edited Book:

d. Conference/Seminar Volumes:

- **Manna, S.**, A. Roy and D. Ray, 2010. Liana and Tribal Community: An Ethnic Relation in the Forests of Birbhum, West Bengal. In Proceedings of International Convention of Botanicals in Integrated Health Care. The Agri-Horticulture Society of India, 26-28 Dec. Kolkata. Pp-84-89.

e. Notable Journalism:

- **Manna, S.** 2012. “Ulpaharir Tolipadda” (Drosera of Ulpahari Forest). Bannya Pran. Vol. 2. Pp 57-59. (popular Writing in Science Magazine)

15. Editor(s)/Co-Editor(s):

- **Manna, S.** 2015. Biodiversity of Rajbhavan, Kolkata. [Ed. assistant]: Prepared by West Bengal Biodiversity Board, Dept. of Environment, Govt. of West Bengal. Published by Raj Bhavan, Kolkata, West Bengal.

16. Research Projects:

- Performed as **Principal Investigator** of the Project “Inventorization of Sacred Grove of Purba Medinipur District West Bengal”. Sponsored by West Bengal Biodiversity Board, Dept. of Environment, Govt. of West Bengal. Period 2 Years, Grant 2 Lakhs. **(Completed)**

17. Invited Lecture Delivered:

- **Manna, S. 2018** Sacred Grove: The Natural Heritage. Two-Day National Seminar & Environmental Study. Bio-diversity Conservation and Environmental Management: Regional Planning for Sustainable Development. Dept. of Geography, Seva Bharati Mahavidyalaya 25<sup>th</sup> -26<sup>th</sup> March, Jhargram. **(National Level)**
- **Manna, S.** 2019. Ecotourism: an effective tool of Biodiversity Conservation. International Seminar on Ecotourism and Regional Planning for Sustainable Development. Dept. of Geography, Seva Bharati Mahavidyalaya. 27<sup>th</sup> September, Jhargram **(International Level)**
- **Manna, S.** 2017. How to prepare a PBR . Workshop on Preparation of Peoples Biodiversity Register. West Bengal Biodiversity Board and Amta II Biodiversity Management Committee. 30<sup>th</sup> Jun, Howrah. **(State Level)**
- **Manna, S.** 2018. Importance of PBR. Workshop on Preparation of Peoples Biodiversity Register. West Bengal Biodiversity Board and Panskura Municipality Biodiversity Management Committee. 14<sup>th</sup> December, Purba Medinipur. **(State Level)**
- **Manna, S.** 2019. Economic valuation of Ecosystem goods. Environment Fair organized by Dept. of Environment, Govt. of West Bengal And D. M Jhargram. 5<sup>th</sup> February, Jhargram. **(District Level)**
- **Manna, S.** 2019. Sacred Grove: a Traditional Way of Nature Conservation. Lecture Programme organised by Dept. of Zoology, Pingla Thana Mahavidyalaya 30<sup>th</sup> April. Paschim Medinipur. **(Regional)**

18. Paper Presented in Conferences, Seminars, Workshop and Symposia:

- **Manna, S.** and S. Karmakar, 2009. Effect of Chemical Pesticides and Fungicides on Structural Variation of Chromosomes of *Allium cepa* L. Oral Presentation on the Seminar of 16<sup>th</sup> West Bengal State Science and Technology Congress, Burdwan University. Burdwan.

- **Manna, S.** 2010. Mushroom Diversity and Traditional Tribal Knowledge: An Inventorization in Forests of Birbhum District West Bengal. Oral Presentation on *International Conference on Mountain Biodiversity Conservation and Sustainable Utilization*. Doon University, Dehradun.

19. Seminar/Conferences/Webinars/Workshops Organized:

- **Convener** of a National Seminar on Biodiversity Conservation: A Philosophical and Attitudinal Perspective. Funded by West Bengal Biodiversity Board. Organised by Department of Botany and Department of Philosophy, Moyna College. 1<sup>st</sup> and 2<sup>nd</sup> November 2019.

20. Visiting Professor:

21. Membership of Learned Societies:

22. Administrative Experience:

23. Other Notable Activities:

- Served as **Resource Person** of Bio Tour Organized by West Bengal Biodiversity Board, Dept. of Environment, Govt. of West Bengal and BMC Haldia Municipality 14<sup>th</sup> Jun 2017.
- Served as **Resource Person** for Preparation of PBR in different BMCs of West Bengal With West Bengal Biodiversity Board.
- Served as **Reviewer** in International Journals.
- Member of visiting Team in Study of Ecology and Biodiversity of the green belt areas of MCCPTA Corporation Private Limited, Haldia, West Bengal.
- Visited Different School and Institution for Bio-audit with Tropical Institute of Earth and Environment Research (TIEER), Midnapur.