DR. MANABENDRA NATH MOITRA

PROFILE

MAIL ID
manab.moitra@gmail.com

DATE OF JOINING
29.07.2008

DESIGNATION

ASSOCIATE PROFESSOR, DEPARTMENT OF ZOOLOGY

QUALIFICATION

2010– Ph. D. (Zoological Survey of India, registered in Kalyani University)
2001-NET (CSIR-UGC)
2001– M. Sc. in Zoology, North Bengal University

WORK EXPERINCE

2008-Continued- Assistant Professor, Associate Professor, P. D. Women's College, Club Road, Jalpaiguri, West Bengal.

2003-2008- Junior Research Fellow, Senior Research Fellow, (Zoological Survey of India)

RESEARCH INTEREST

Biostatistics, Pedo-ecology, Biodiversity, Edaphic microarthropods Immunology and Cell Biology

RESEARCH GUIDANCE:

Guided three Ph. D. scholars as joint-supervisor (degreeawarded)

AWARD/ HONOUR RECEIVED:

2010: 'Best Paper' award in the International Symposium on Acarology organized by BCKV, Kalyani,International Journal of Acarology, UK and Acarology Development Foundation, USA;
2006: Received R. K. Sur Memorial medal from Zoological Society, Kolkata

DETAILS OF RESEARCH PROJECT BEING COMPLETED/ ONGOING/SANCTIONED:

Project title: 'Measuring diversity of soil microarthropods and indicator species analysis …. Bengal'
(UGC funded Minor Research Project;Status:Completed)

LIST OF PUBLICATION (IN DESCENDING ORDER)

Book:
Diversity of soil oribatids in relation to altitude and edaphic factor. 2015. (ISBN: 978-3-659-71543-3)
Manabendra Moitra, Asok Kanti Sanyal, Samiran Chakrabarti. Lap Lambert Academic publishing, OmniScriptum GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany.

Research Article and Book Chapters: -

1. **Moitra MN.** 2023. An Account of Avifauna of a Transitional Zone Between a Township and a Large River Basin in North Bengal. Int. J. Adv. Res. 11(01), 1548-1559. (ISSN: 2320-5407)
2. **Moitra MN.** 2023. Oribatid Species (Acari, Oribatei) as Bioindicator at a Subtropical Forest Floor. Int. J. Sci. Res. 12 (4): 1245-1247. (ISSN: 2319-7064)
3. **Moitra MN.** 2023. Occurrence of Major Pests on the Trimmed Surface of Tea Plants in Relation to Temperature and Relative Humidity -An Approach Towards Minimal Use of Pesticides. *Environment and Ecology* 38 (3A): 1523—1529. (ISSN: 0970-0420)
4. **Moitra MN.** Banerjee S, Sanyal AK. 2022. Observations on Distribution and Group Diversities of Soil Acarines at Different Pedo-Ecosystems in Urban Soils. *Environment and Ecology*, 40(3): 1061-1068. (ISSN: 0970-0420)
5. **Moitra MN.** Dasgupta N, Chourasiya M, Banerjee S. 2022. Assessing response of microarthropod populations to four edaphic factors in a humid subtropical forest in the sub-Himalayan alluvial plains. *Tropical Ecology*. *https://link.springer.com/article/10.1007/s42965-022-00242-0* (DOI: https://doi.org/10.1007/s42965-022-00242-0)
6. **Moitra MN.** 2022. 'Jib BoichitrerPrekshapote Jalpaiguri: Bishesh KichhuAngik. In: ShuniteMounerMahabani (Editor. D. Chakraborty), Ashokgatha, pp. 139-144. (ISBN: 978-93-9359-01-2)
7. **Moitra MN.** Banerjee S, Sanyal AK. 2020.Impact of Heavy Metals and other Edaphic Factors on Oribatid Population at a Forest Floor in an Urban Area. Environment and Ecology 38 (1) : 46—55 (ISSN: 0970-0420)

8. **Moitra MN.** 2020. Variation in Damage by Tea-Pests in Relation to Climatic Factors at a Terine Garden in North Bengal, India.*Environment and Ecology* 38 (3A) : 588—593. (ISSN: 0970-0420)
9. **Moitra MN.** Sarkar SK, Chakraborty K.2018. Impact of edaphic factors on soil microarthropods at an agricultural land of alluvial plains in North Dinajpur, West Bengal, India, *Environment and Ecology*, 36(2A): 675-679. (ISSN: 0970-0420)
10. **Moitra MN.** Dasgupta N, Routh R., Banerjee S. 2018. On variation of abundance and fluctuation in soil microarthropod communities at a terine natural forest floor in North Bengal, India. Research Analysis and Evaluation, 105: 101-103. (ISSN: 0975-3486)
11. **Moitra MN.** 2017. A study on microarthropod populations under stressed environments in different edaphic habitats. *International Journal of Applied Environmental Sciences*. 12 (5): 745-753. (ISSN: 0973-6077)
12. **Moitra MN.** 2017. A study on variation of soil acarine populations at three ecologically modified habitats. *International Journal of Advanced Research*. 5(6): 259-267. (ISSN: 2320-5407)
13. **Moitra MN.** 2017. Impact of heavy metals and other factors on soil acarines in four different edaphic habitats in and around a metropolitan township. *International Journal of Current Research and Review*. 9(12): 1-10. (ISSN: 2231-2196)
14. **Moitra MN.** Routh R, Sarkar N, Banerjee S. 2017. Diversity of Soil Microarthropods in the Terine Forest Floors of North Bengal-An RTU Method Assessment. *International Journal of Science and Research Methodology*, 7(2): 49-60. (ISSN: 2454-2008)
15. Sarkar SK, **Moitra MN.** Chakraborty K, 2016. On Abundance of Microarthropods at Two Different Habitats at Alluvial Soil in North Bengal, West Bengal, India. *International Journal of Science and Research*. 5(9): 1297-1300. (ISSN: 2319-7064)
16. Sarkar SK, Chakraborty K, **Moitra MN.** 2016. A study on abundance and group diversity of soil microarthropods at four different soil habitats in North Dinajpur, West Bengal, India. *International Journal of Experimental Research.* 7: 32-37. (ISSN: 2455-4855)
17. Routh R, **Moitra MN.** 2016. On abundance of soil acarines at forest floor in Sukna range of Mahananda wildlife sanctuary, West Bengal, India. *International Journal of Plant, Animal and Environmental Sciences*, 6(4):15-22. (ISSN: 2231-4490)
18. Sarkar SK, **Moitra MN.** Chakraborty K, 2015. A comparative study on population of soil microarthropods at two different habitats at Uttar Dinajpur, West Bengal, India. In: *Modern Trend in Social and Basic Sciences*, Eds. S. Debnath, B. Bagchi, S. Mishra (ISBN: 978-93-82623-51-9), pp. 158-163.
19. Sarkar SK, **Moitra MN**. Chakraborty K, 2015. A Study on Variation of Relative Abundances and Group Diversities of Major Soil Microarthropod Taxa at Four Different Sites in Uttar Dinajpur, West Bengal, India. *World Journal of Environmental Biosciences*, 4(1): 7-15.

20. Rath PC, Chakraborty K, Nandi P, **Moitra MN.** 2015. Field efficacy of some new insecticides against rice stem borer and gundhi bug in irrigated rice ecology. *International Journal of Plant, Animal and Environmental Sciences*, 5 (2): 94-96.

21. Roy GC, Chakraborty K, Nandi P, **Moitra MN.** 2015. Pros and Cons of Curcumin as Bioactive Phyto-Compound for Effective Management of Insect Pests. *American Scientific Research Journal for Engineering, Technology, and Sciences*, 7(1): 31-43.

22. Sarkar SK, Chakraborty K, **Moitra MN.** 2015. On regional variability of major soil microarthropod groups at four different edaphic systems in the northern alluvial plains of Bengal, India. *Asian Journal of Biological and Life Sciences*, 4(1): 65-70.

23. K. Chakraborty, **Moitra MN**, A. K. Sanyal, P. C. Rath. 2015. Important enemies of paddy insect pests in the upper Gangetic plains of West Bengal, India. *International Journal of Plant, Animal and Environmental Sciences*, 5 (2): 94-96.

24. Sarkar SK, Chakraborty K, **Moitra MN.** 2014. Observation on abundance and group diversity of soil microarthropods with special reference to acarines at four differently used soil habitats. *International Journal of Scientific and Research Publications.* 4(11): 1-8.

25. **Moitra MN,** S. Banerjee and A. K. Sanyal, 2013. Observations on indicator species analysis of oribatid mites in three differently polluted sites and a forest floor in and around Kolkata, West Bengal, India. *Indian Journal of Social and Natural Sciences*, 2 (1): 44-50.

26. **Moitra MN.** 2013. On variation of diversity of soil oribatids (Acari: Oribatida) in three differently used soil habitats, a wasteland, a natural forest and a tea garden at northern plains of Bengal, India. *International Journal of Scientific and Research Publications.* 3(11): 1-12. (Impact factor: 1.3 -2013)

27. **Moitra MN.** 2013. Biomedical ethics in human cloning – an overview in Indian context. *Indian Journal of Social and Natural Sciences*, 2(1): 44-50.

28. **Moitra MN.** Banerjee S, Sanyal AK. 2013. A study on group diversity as an assessment of biodiversity in soil microarthropod communities at four different habitats in and around Kolkata, West Bengal, India. *In: Biotechnology for people*, Ed. S. Mukherjee. pp. 30-38.

29. Routh R, Chowdhury A, **Moitra MN.** 2013. A glimpse of diversity of butterfly fauna (Lepidoptera) in Jayanti forests and adjoining areas located at middle Duarsregion, West Bengal, India. *In: Biotechnology for people*, Ed. S. Mukherjee. pp. 39-43.

30. **Moitra MN**, S. Banerjee. 2012. Diversity of soil oribatid mites (Acari, Oribatida) at two different habitats in the foothills of Darjeeling Himalayas, West Bengal, India. In: *Resource Utilization, Land Use in Relation to Environment Impact in India*. Editors. S. Sarkar, R. Sanyal. pp. 36-44.

31. **Moitra MN,** Sanyal A. K. and Chakrabarti S., Banerjee S. 2012. A study on application of group diversity to investigate and compare diversity of soil oribatid (Acari, Oribatida) communities at different sites. In: Biodiversity Conservation: Fundamentals and Application. Editors. H.

Saha, M. L. Ghosh, G. Gangopadhyay, D. Saha, P. K. Singh, S. Sarkar, S. C. Das. Pp. 148-152.

32. **Moitra MN,** A. K. Sanyal and S. Chakrabarti, 2012. On diversity and abundance of soil acarines with special reference to oribatid mites (Acari, Oribatida) at different altitudes in the Eastern Himalaya, India. In: *Biodiversitat und Naturausstattungim Himalaya IV*. Editors. M. Hartmann and J. Weipert. pp. 107-119.
33. S. Banerjee (Moitra), **Moitra MN,** A. K. Sanyal. 2010. A study on the ecology of soil mites in a solid waste disposal site at Kolkata, India. *Environment and Ecology*, 28 (1A): 347-351.
34. S. Banerjee (Moitra), A. K. Sanyal, **Moitra MN.** 2009. Abundance and group diversity of soil mite population in relation to four edaphic factors at Chintamani Abhayaranya, Narendrapur, South 24-Parganas, West Bengal. *Proc. zool. Soc.,* 62 (1): 57–65.
35. **Moitra MN**, A. K. Sanyal and S. Chakrabarti. 2008. Some aspects of ecology of oribatid mite population at high hill and foot hill regions of the Himalayas. In: *Zoological Research in Human Welfare*, Zoological Survey of India, Kolkata, Paper-36: 357-362.
36. **Moitra MN**, A. K. Sanyal and S. Chakrabarti, 2007. Variation of group diversity in soil microarthropod community at different altitudes in the Darjeeling Himalayas, West Bengal, India. *Journal of Environment and Sociobiology*, 4 (2): 163 – 168.
37. **Moitra MN,** A. K. Sanyal and S. Chakrabarti. 2007. Population of soil Acari at two altitudes in Darjeeling Himalaya. *Journal of Acarology*, 16 (1&2): 86 – 87.
38. A. K. Sanyal, B. J. Sarkar, **Moitra MN.** 2006. Oribatid mites (Acari: Oribatei). *Fauna of Arunachal Pradesh, State fauna Series*, Zool. Surv. India. 13 (2): 467 – 478.
39. **Moitra MN,** A. K. Sanyal and S. Chakrabarti, 2006. Impact of four edaphic factors on the abundance of soil Acari in relation to altitudes in the Darjeeling Himalayas, West Bengal, India. *Environment and Ecology*, 24 (2): 366 – 372.
40. **Moitra MN,** A. K. Sanyal and S. Chakrabarti, 2006. On a collection of soil oribatid mites from Sandakphu, Darjeeling, West Bengal, India. *Records of Zoololgical Survey of India*, 106 (4): 55 – 60.
41. D. Pahari, A. K. Hazra, **Moitra MN**, A. K. Roy Mahato, 2006. Effects of industrial effluent on the population structure of soil microarthropods at Bokaro steel plant area, Jharkhand – a preliminary study. *Journal of Environment and Sociobiology*, 3 (1): 33 – 40.

SEMINARS AND CONFERENCE ATTENDED

1. **Presented paper** in Scientific Seminar, organized by Zoological Society, Kolkata, July 21, 2006.
2. **Presented paper** in the 94th Indian Science Congress held at Annamalai University, Tamilnadu. January 3-7, 2007.
3. **Presented paper** in National Seminar on 'Dimensions in Zoological Research in human Welfare' organized by Sept. of Zoology, University of Calcutta and Zoological Society, Kolkata. March 23-25, 2007.

4. **Presented paper** in National Symposium on 'Acari-Globalization and Climate Change' organized by Dept. of Entomology, UAS, GKVK, Bangalore. November 24-26, 2007.
5. **Presented paper** in the International Conference on 'Recent trends in life science researches vis-à-vis ……human Welfare' at Vinobha Bhave University, Hazaribagh (June 27-29, 2009).
6. **Presented paper** in the 97th Indian Science Congress held at University of Kerala, Trivandrum. January 3-7, 2010.
7. **Presented paper** in 'International Symposium-cum Workshop in Acarology' held at Bidhan Chandra Agriculture University, Kalyani (April 8–10, 2010).
8. **Presented paper** in the UGC sponsored National seminar on 'Trends in Biodiversity and Bioresource Management' held at A. B. N. Seal College, Cooch Behar (November 15-16, 2010).
9. **Presented paper** in the National seminar on 'Evaluation of Biodiversity of Eastern Himalaya and Adjoining Plains' held at University of North Bengal, Darjeeling (December 1-4, 2010).
10. **Presented paper** in the 4th International Symposium on 'Biodiversity and Natural Heritage of the Himalaya' held at Erfurt, Germany (April 15-17, 2011).
11. **Presented paper** in the UGC sponsored National seminar on 'Resource Utilization, Land Use vis-svis Environmental Impact in India with special reference to Himalayan Foothills' held at P. D. Women's College, Jalpaiguri (November 26-27, 2011).
12. **Presented paper** in the UGC sponsored National seminar on 'Ethics in Practice' held at P. D. Women's College, Jalpaiguri (December 22-23, 2011).
13. **Presented paper** in the National seminar on 'Addressing Climate Change' held at North Bengal St. Xavier's College, Jalpaiguri (January 30, 2012).
14. **Presented paper** in the UGC sponsored National seminar on 'Biodiversity: Threats and Conservation through Traditional and Biotechnological Approaches' held at Dum Dum Motijhil College, Kolkata (February 4- 6, 2012).
15. **Presented paper** in the UGC sponsored National seminar on 'Anthropogenic Toxicants, Green Chemistry and Sustainable Development: An Interdisciplinary Approach' held at P. D. Women's College, Jalpaiguri (March 13-14, 2012).
16. **Presented paper** in the UGC sponsored National seminar on 'Biotechnology for People: Applications and Awareness' held at P. D. Women's College, Jalpaiguri (December 4-5, 2012).
17. **Presented paper** in the International Conference on 'Modern Trends in Social and Basic Sciences' held at Alipurduar College, Alipurduar (March 27-28, 2015).
18. **Presented paper** in the National seminar 'ZooCon-2017: Animal Science in 21st Century' held at North Bengal University (February 11-12, 2017).
19. **Presented paper** in the National seminar on 'Population Health and Regional Development: Issues and Challenges, jointly organized by the Indian Council of Social Science Research and P. D. Women's College, Jalpaiguri (February 23, 2019).

EXTERNAL RESPONSIBILITY (ADMINISTRATIVE RESPONSIBILITIES)

Member of:

1. British Ecological Society, London
2. Indian Science Congress Association, Kolkata
3. Zoological Society of Calcutta, Kolkata
4. Social Environment and Biological Association, Kolkata
5. Gaur Banga Research Forum, Raiganj
6. Jalpaiguri Science and Nature Club, Jalpaiguri