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PERSONAL INFORMATION

Date of Birth: 01.05.1969

Gender: Male

Category: General

ACADEMIC QUALIFICATION

| | Degree | Year | Subject | University/Institution | % of marks |
|----|-------------------------|------|----------------------|------------------------|---|
| 1. | Ph.D. in Zoology | 2011 | Nematology (Zoology) | University of Calcutta | -- |
| 2. | M. Sc. | 1992 | Zoology | University of Calcutta | 62.4% (1st Class) |
| 3. | B. Sc. | 1990 | Zoology (Hons.) | University of Calcutta | 62.8% (1st Class) |

Title of the Thesis: “Taxonomic and Ecological Studies on Soil and Phytophagous Nematodes Associated With Some Fruit Plants in South 24-Parganas, West Bengal, India.”

University: University of Calcutta

Year of Award: 2011

RESEARCH INTEREST

Taxonomy of soil-inhabiting Nematoda.

WORK/ RESEARCH EXPERIENCE

| S.No | Positions held | Name of the Institute | From | To | Pay Scale |
|------|-----------------------------|----------------------------|------------|------------|--|
| 1 | Junior Zoological Assistant | Zoological Survey of India | 23/12/1992 | 19/05/2002 | Rs. 4500-125-7000 |
| 2 | Zoological Assistant | Zoological Survey of India | 20/05/2002 | 31/10/2010 | Rs. 5000-150-8000 |
| 3 | Senior Zoological Assistant | Zoological Survey of India | 01/11/2010 | 07/11/2013 | Rs. 9300 - 34800/- Grade Pay Rs. 4600/- (M.A.C.P.) |
| 4 | Assistant Zoologist | Zoological Survey of India | 08/11/2013 | Continuing | Rs. 9300 - 34800/- Grade Pay Rs. 4600/- |

AWARD/ MEMBERSHIP OF SCIENTIFIC SOCIETIES

| S.No | Name of Award | Awarding Agency | Year |
|------|-------------------------------|---|------------|
| 1 | High Performance Award | Zoological Survey of India | 2012 |
| 2 | Member | Nematological Society of India, I. A. R. I., New Delhi | Since 2004 |
| 3 | Life Member | The Zoological Society, Kolkata, West Bengal | Since 2014 |
| 4 | Life Member | National Academy of Biological Sciences, Chennai, Tamil Nadu | Since 2016 |
| 5 | Life Member | Social Environmental and Biological Association, Kolkata | 2018 |

PROFESSIONAL SERVICES

Reviewed scientific communication for:

1. *Zootaxa*
2. *Proceedings of the National Academy of Sciences, India (Sec. B – Biological Sci.)*
3. *Records of the Zoological Survey of India*
4. *Journal of Agricultural Science and Technology*
5. *International Journal of Biodiversity and Conservation*
6. *International Journal of Agricultural Sciences*

SCIENTIFIC PUBLICATIONS

1. Chatterjee A., **Sen D.** and Chakrabarty S. 1998. Avian Behaviour during Solar Eclipse in Narendrapur Bird Sanctuary: An Observation. *Journal of Interacademia*, **2** (3): 172 –175.
2. Chatterjee, A., **Sen D.** & Gantait V. V. 2001. Innovation of high-efficient light trap useful for controlling agricultural pests. *Entomon*, **26**(Spl. Issue, 2001): 110 –112.
3. DeySarkar, S. R., Chatterjee, A. & **Sen, Debabrata** 2007. Nematode Parasites of Vertebrates. Fauna of Mizoram, *State Fauna Series 14*: 43 – 82, Zoological Survey of India, Kolkata.
4. **Sen, Debabrata** & Chatterjee, A. 2007. Phytophagous Nematodes (Order Tylenchida, Suborder Tylenchina.). *Fauna of Mizoram, State Fauna Series 14*: 31 – 42, Zoological Survey of India, Kolkata.
5. **Sen, Debabrata**, Chatterjee, A. & Manna, B. 2007. A report on the relative abundance of Dorylaimida, Tylenchida and Mononchida population of guava orchard in South 24 Parganas, West Bengal, India. *Indian Journal of Nematology*, **37**(1): 72 – 77.
6. **Sen, Debabrata** & Chatterjee, A. 2007. Phytophagous Nematodes (Order Tylenchida, Suborder Tylenchina). *Fauna of Andhra Pradesh, State Fauna Series, 5* (Part – 4): 125 – 165. Zoological Survey of India, Kolkata.
7. **Sen, Debabrata**, Chatterjee, A. & Manna, B. 2008. Population Fluctuation of *Helicotylenchus* Steiner, 1945 in Relation to Soil Temperature, Moisture and pH in Guava Orchard at South 24 Parganas, West Bengal, India. *Records of the Zoological Survey of India*, **108** (Part 2): 75 – 81.

8. Dey Sarkar, S. R. and **Sen, Debabrata** 2008. On four new nematode species of the Genus *Diplotriana* Railliet and Henry, 1909, from Uttarakhand, India. *Records of the Zoological Survey of India*, **108** (Part 4): 105 – 112.
9. **Sen D.**, Chatterjee, A. and Manna, B. 2010. A new and a known species of the genus *Xiphinema* Cobb, 1913 (Dorylaimida: Xiphionematidae) from West Bengal, India with a key to the monopisthodelphic species of the genus. *Nematologia Mediterranea*, **38**:187 – 193.
10. **Sen, Debabrata** and Sanyal, A. K. 2011. Tylenchid nematodes of Tamil Nadu. *Fauna of Tamil Nadu, State Fauna Series*, **17** (Part-2): 65 – 72. Zoological Survey of India, Kolkata.
11. **Sen D.**, Chatterjee, A. & Manna, B. 2011. A new species of *Dorylaimus* Dujardin, 1845 (Nematoda: Dorylaimidae) from West Bengal, India. *Nematologia Mediterranea*, **39**(1): 3 – 8.
12. **Sen D.**, Chatterjee, A. & Manna, B. 2011. A new and a known species of Dorylaimoidea (Nematoda: Dorylaimida) from West Bengal, India with a Key to the species of the subgenus *Axonchium* Cobb, 1920. *Nematologia Mediterranea*, **39**(2): 111 – 119.
13. **Sen, Debabrata**, Chatterjee A. and Manna B. 2012. One new and two known species of Dorylaimoidea (Nematoda) from West Bengal, India. *Zootaxa*, **3258**: 46 – 57.
14. Gantait, V. V. and **Sen, Debabrata** 2012. Occurrence and distribution of dorylaimid and tylenchid nematodes of Andaman and Nicobar Islands. *Advances in Life Sciences*, **1**(1): 85 – 87.
15. **Sen, Debabrata** 2012. A report on the association of dorylaimid and tylenchid nematodes with guava and litchi plantations in South 24-Parganas, West Bengal, India, *Advances in Life Sciences*, **1**(1): 53 – 57.
16. **Sen, Debabrata**, Chatterjee, A. and Manna, B. 2012. *Coomansinemoides wasimi* n. gen., n. sp. (Nematoda: Dorylaimida) from West Bengal, India. *Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences*, **82** (4): 511 – 516.

DOI 10.1007/s4001-012-0052-y

17. **Sen, Debabrata**, Chatterjee, A. and Manna, B. 2012. A new and a known species of Aporcelaimidae (Nematoda: Dorylaimida) from West Bengal, India. *International Journal of Environmental Science*, **1**(3): 273 – 277.
18. **Sen, Debabrata**, Chatterjee, A. and Manna, B. 2012. Two new and two known species of Dorylaimoidea (Nematoda) from West Bengal, India with a key to the species of the genus *Indodorylaimus* Ali and Prabha, 1974. *Records of the Zoological Survey of India*, **112** (1): 11 – 20.
19. **Sen, Debabrata**, Gantait, V. V., Sanyal, A. K. and Chatterjee, A. 2012. Free living Nematodes (Order Dorylaimida and Triplonchida) of West Bengal, India. *Records of the Zoological Survey of India*, **112**(1): 21 – 31.
20. **Sen, Debabrata**, Chatterjee, A. and Manna, B. 2012. A new and a known species of Telotylenchinae (Tylenchida: Belonolaimidae) from West Bengal, India. *Records of the Zoological Survey of India*, **112**(2): 27 – 34.
21. **Sen, Debabrata**, Chatterjee, A. and Manna, B. 2012. *Mixotelotylenchoides rafiqi* gen. n., sp. n. (Nematoda: Tylenchida) from West Bengal, India. *International Journal of Environmental Sciences*, **1**(4): 344 – 348.
22. **Sen, Debabrata**, Chatterjee, A. and Manna, B. 2014. One new and two known species of *Dorylaimoides* Thorne and Swanger, 1936 (Nematoda: Mydonomidae) from West Bengal, India. *Journal of Parasitic Diseases*, **38**(2): 208 – 217. Published online in December, 2012, DOI 10.1007/s12639-012-0223-z
23. **Sen, Debabrata**, Gantait, V. V. and Banerjee, S. 2014. Freelifving and plant parasitic nematodes (orders Dorylaimida and Tylenchida) of Himachal Pradesh, India. *Records of the Zoological Survey of India*, **114**(3): 379 – 390.
24. **Sen, Debabrata**, Chatterjee, A., Gantait, V. V. and Sanyal, A. K. 2015. Phytophagous Nematodes (Order Tylenchida). *Fauna of Uttar Pradesh, State fauna Series*, **22** (Part-2): 13 – 55. Edited by the Director, Zoological Survey of India, Kolkata.
25. **Sen, Debabrata** 2015. Some Species of Dorylaimoidea (Nematoda) Associated with Guava and Litchi, with New Records from West Bengal, India. *Rec. zool. Surv. India*, **115**(1): 7-19.

26. **Sen, Debabrata** 2015. New species of Nygolaimoidea, *Nyggellus hamimi* sp. nov. (Nematoda: Dorylaimida) with a first record of *Aetholaimus indicus* from West Bengal, India. *Records of the Zoological Survey of India*, **115**(3): 223 – 229.
27. **Sen, Debabrata** 2015. A Report on the Plant Parasitic Nematodes (Nematoda: Tylenchida) of Uttar Pradesh, India. *International Journal of Environmental Sciences*, **3**(4): 1 – 10.
28. **Sen, D.** 2017. One new and two known species of Nygolaimidae (Nematoda: Dorylaimida) from West Bengal, India. *Trends in Biosciences*, **10**(27): 5673-5676.
29. Gantait, V. V. and **Sen D.** 2017. A Report on Soil and Plant Parasitic Nematodes (Orders: Dorylaimida and Tylenchida) of Maharashtra, India. *Journal of Environment and Sociobiology*, **14**(2): 241 – 254.

BOOK CHAPTERS

30. Chatterjee, A. & **Sen, Debabrata**, 2000. Polyphagy in Plant-Parasitic Nematodes: A favourable force for Speciation and Biodiversity. In: *Proceedings of the National Seminar on Environmental Biology* (Edited by A. K. Aditya & P. Halder), Daya Publishing House, Delhi. Pp. 218 – 221.
31. **Sen, Debabrata** 2014. One new and some known species of Dorylaimoidea (Nematoda) associated with guava from West Bengal, India. In: *Perspectives on Biodiversity of India Volume I* (eds. Biju Kumar, A., Rajendran, P. G. and Peethambaran, C. K.), Centre for Innovation in Science and Social Action, Thiruvananthapuram, Kerala. Pp. 378 – 384.
32. **Sen, D.** 2017. Soil-Inhabiting Nematodes of Indian Sundarban. In: *Fauna of Sundarban Biosphere Reserve* (Eds. K. Chandra, J.R.B. Alfred, B. Mitra and B. Roychowdhury). Publ. ZSI, Kolkata. Pp 1-240. (Chapter pagination 206-208).

BOOK CHAPTERS ACCEPTED FOR PUBLICATION

33. Rizvi, A. N., **Sen, D.**, Maity, P. and Kumar, H 2017. Diversity of Soil Inhabiting Nematodes in Indian Himalayan Landscape – Book Chapter.
34. Rizvi, A. N., **Sen, D.** 2017. Current Status on Nematode Diversity of Mangrove Ecosystems in India – Book Chapter.

BOOKS PUBLISHED

35. **Sen, Debabrata**, Chatterjee, Amalendu and Manna, Buddhadeb 2012. *Nematodes Associated with Guava and Litchi Plantations, Studies on Taxonomy and Ecology of Soil and Phytophagous Nematodes*. Lambert Academic Publishing GmbH & Co. KG, Heinrich-Böckingstr. 6-8, 66121 Saarbrücken, Deutschland, Germany. Pp. xx + 1 – 321.
36. **Sen, Debabrata**, Das, S. K., Joy, S. R. and Mitra, B. 2016. *Zoological Survey of India Contribution to the fauna of India- A Bibliography 1916 - 2015*: 1-514. (Publ. Director, Zoological Survey of India, Kolkata).
37. **Sen, Debabrata**, Das, S. K., Gokul, A. and Mitra, B. 2016. *Animal Discoveries in 100 years, Zoological Survey of India (1916 – 2015)*: 1 – 470. (Publ. Director, Zoological Survey of India, Kolkata).

SCIENTIFIC PAPERS ACCEPTED FOR PUBLICATION

38. Gantait, V. V., **Sen, Debabrata** and Jasmine, P. 2016. Soil and plant parasitic Nematodes (Order Dorylaimida and Tylenchida). *Fauna of Maharashtra, State fauna Series*, Edited by the Director, Zoological Survey of India, Kolkata.
39. **Sen, Debabrata** 2018. Population Fluctuation of Soil Inhabiting Nematodes in Relation to soil Temperature and moisture at Guava orchard in West Bengal, India. Accepted for publication in *Records of the Zoological Survey of India*.

CONFERENCES/ SYMPOSIUM/SEMINAR/WORKSHOP

1. Attended and Presented Paper in the “*National Seminar on Environmental Biology*” from 3rd. to 5th. April, 1998 at Visva Bharati University, Santiniketan.
2. Attended and Presented Paper in an *International Conference, “Entomocongress 2000: Perspective for the New Millennium”* organized by Department of Zoology, Univ. of Kerala at Trivandrum, Kerala from 5th. to 8th. November, 2000.
3. Attended and Presented a Paper in “*National Congress on Centenary of Nematology in India: Appraisal and Future Plans*” at Indian Agricultural Research Institute, New Delhi from 5 - 7 December, 2001.

4. Attended the *Workshop on Bio-informatics and Statistics in Aquaculture Research at central Institute of Freshwater Aquaculture* (I. C. A. R.), Bhubaneswar from 8 – 11 January, 2002.
5. Attended the *Workshop on Scanning Electron Microscopy* at University Science Instrumentation Center, University of Burdwan from 12 – 15 November, 2002.
6. Attended and presented a poster in the *90th. Session of Indian Science Congress* at Bangalore from 3 – 7 January, 2003 organised by The Indian Science Congress Association.
7. Attended a Summer School on “*New Concepts in Plant and Insect Parasitic Nematodes*” at Allahabad Agricultural Institute- Deemed University, Allahabad, Sponsored by Indian Council of Agricultural Research, New Delhi from 14th. July to 03rd. August, 2003.
8. Attended and presented a paper in the *National Symposium on “Paradigms in Nematological Research For Biodynamic Farming”* at Bangalore from 17th. to 19th. November, 2004.
9. Attended the Workshop on *Environmental Scenario of Sundarban*, sponsored by Ministry of Environment and Forests, Govt. of India from 22 – 23 September, 2005.
10. Attended and presented a poster in the *National Symposium on “Recent Advances and Research Priorities in Indian Nematology”* at Indian Agricultural Research Institute, New Delhi from 9 - 10 December, 2005.
11. Attended a Seminar on “*Biodiversity of West Bengal, Documentation and Conservation*” on International Biodiversity day, the 22nd. May, 2006 organised by West Bengal Biodiversity Board, Department of Environment, Govt. of West Bengal.
12. Attended Seminar on “*Environmental Application of GIS & Remote Sensing*” at Jadavpur University on 16th. March, 2007.
13. Attended and presented a poster in the *National Conference on “Biodiversity Assessment, Conservation and Utilization”* organized by Maharashtra Education Society’s Abasaheb Garware College, Pune in association with BAIF Development Research Foundation, Pune from 9 – 11 February, 2012.
14. Attended and made oral presentation in the National seminar of “*Second Indian Biodiversity congress*” organized by CISSA and Center for Ecological Sciences at Indian Institute of Science, at Bengaluru from 9 – 11th. December, 2012.
15. Attended and presented a poster in the *National Symposium on “Nematode: A friend and foe to agri-horticultural criops”* organized by Nematological Society of India (ICAR) New Delhi in collaboration with Dr. Y. S. Parmar University of Horticulture and Forestry and ICAR at Dr. Y. S. Parmar University of Horticulture and Forestry , Solan (H. P.) from 21 – 23 November, 2013.

16. Participated in the *International Workshop on “Participatory biodiversity Monitoring and Ecosystem Services in the Context of Climate Change”* organized by Indian Institute of Bio-Social Research and Development in collaboration with Anthropological Survey of India, Govt. of India at IBRAD campus, Kolkata from 17 – 19th. December, 2014.
17. Participated and contributed to organize the “*National Conference on Animal Taxonomy – Challenges and Prospects*” organized by Zoological Survey of India, Kolkata from 13 – 15 February, 2015.
18. Participated and Presented Paper in the U. G. C. sponsored “*International Conference on Climate Change and Sustainability*” organized by Takur College of Science and Commerce in collaboration with Academy of Environmental Biology, Lucknow and National Institute of Wind Energy, Chennai at Mumbai 21- 23 December, 2015.
19. Participated and Presented Paper in the 9th NABS National Conference on “*New Biological Researches: Opportunities and Challenges for Sustainable Development (Agriculture, Biology, Energy, Environment, Health and Climate Change)*” jointly organized by School of Energy, Environment & Natural Resources, Madurai Kamaraj University, Madurai and National Academy of Biological Sciences, Chennai at Madurai, Tamil Nadu on 11 – 12 August, 2016.
20. Participated in “*National Conference on Current Status of Faunal Diversity of Mangrove Ecosystem in India*” held at Zoological Survey of India, Kolkata on 1-2 July, 2017

TRAINING COURSES

1. Attended the “*Refresher Course on Collection and Preservation Technique*” organized by Zoological Survey of India.
2. Trained in “*Field Ornithology*” organized by Zoological Survey of India
3. Attended the training course on “*Introduction to Computer Concept*”, organized by Ministry of Finance, Govt. of India from 09th. to 20th. July, 2001.
4. Attended the NAIP (ICAR) sponsored training course on “*Advanced Techniques for Exploiting the ENBI Complexes (Entomopathogenic Nematodes-bacterial symbionts and the Insect hosts) for Bio-management of Insect Pests of Crops*” organized by Division of Nematology, IARI, New Delhi from 10 – 19 February, 2011.
5. Participated in Regional Training Workshop on “*Strategies for Digitization and Mobilization of Natural History Collection Data*” organized by MoEF, Wild Life Institute of India, Zoological Survey of India, Botanical Survey of India, National Biodiversity Authority, and GBIF at Kolkata on 15 – 17th. June, 2011.

6. Participated in the training on “*Application of Scanning Electron Microscopy in Animal Taxonomy*” held at Zoological Survey of India, Kolkata from 17 – 18th July, 2013.
7. Participated in “*Training on GIS in Faunal Studies, Data basing and Digitization of Faunal Collections*” held at Zoological Survey of India, Kolkata from 15 - 16 January, 2014.
8. Participated in “*Training Workshop Monsoon Photography*” held at Zoological Survey of India, Kolkata from 14 - 15 July, 2014.