

Dr. SANJUKTA MANNA



Designation: Assistant Professor

Qualifications: M.Sc. Ph.D.

Title of Ph.D. Thesis: "Effect of radiation on *Leishmaniadonovani*-the causative agent of human kala-azar disease" under the supervision of Prof. A. Bhattacharya, Dept. of Zoology, University of Calcutta.

About Me:

I have enjoyed teaching students with regard to effective learning. I strongly value the development of self-help skills in oral and written communication with class-room discussions of research papers, problem-solving exercises, web-based online exercises. I have expertise in techniques related to protein biology, PCR, microscopy (Light and Fluorescence) and Flow cytometry. I am always intimately involved in Maulana Azad College, Dept. of Zoology in teaching, research activities, DBT STAR college programme, Field work and various training programme.

Specialisation & Area of Interests:

After qualifying M.Sc Examination in 2000, I started my research carrier under the supervision of Dr. Amal Bhattacharya in Parasitology and Immunology Division at Zoology Department, Calcutta University. The broad area of my research is Molecular Parasitology with Immune Response. In course of my research, I worked in various aspects of Immune Profile after *Leishmania* infection. I learnt several experiments like lymphocyte culture, genomic DNA isolation, Western Blot, Spectrofluorimetric analysis, RFLP and Sequencing. On 5th December, 2008, I have been selected as an Assistant Professor, WBES and joined at Taki Govt College where I plan to further pursue my research endeavours along with teaching. Currently, I am studying and investigating parasitological diseases associated with human, veterinary and poultry animals in association with School of Tropical Medicine, Kolkata.

Current Teaching:

- Worked as Asst. Professor (WBES) for the under graduate and post graduate students of the department of Zoology of Maulana Azad College since Mar, 2015.
- Worked as Asst. Professor (WBES) for the under graduate students of the department of Zoology of Taki Govt. College from Dec, 2008 – Feb, 2015.
- Worked as a Guest Faculty for the post graduate students of the department of Zoology of Dinabandhu Andrews College from 2002 – 2008.

Research Interests:

- 5 years research experience in the project entitled "Effect of radiation on *Leishmaniadonovani*-the causative agent of human kala-azar disease" under the supervision of Prof. A. Bhattacharya, Dept. of Zoology, University of Calcutta.
- Worked as a project assistant in the project entitled "Biomineral processing for extraction of metal values from ores/concentrates/wastes" under the supervision of Dr. P. C. Banerjee, Ex-Deputy Director and Emeritus Scientist, Indian Institute of Chemical Biology, Jadavpur, Kolkata.

Ongoing Sponsored Project:

A minor research project entitled "Gastrointestinal Helminth Infection in the Rice Field Rat (*Rattus* spp.): Parasite Population Dynamics and Host Haemogram Profile" and sponsored by UGC (No. PSW – 167/13-14 (ERO) ID no. WBS 028 under 12th plan) was carrying out since April, 2014.

Selected Publications:

Book Chapters: Chakravarty Manna and A. Bhattacharya. Parasitology and Immunology (Course material in Bengali). **Unit EZO 11: 02.** Netaji Subhas Open University.

Papers:

- 1 **S. Manna**, R. Chakravarty, B. Manna and A. Bhattacharya (2010) Radiation induced alterations in membrane fluidity, microtubular structure, glycoconjugates and protein in *Leishmania donovani*. *Res. J. Parasitol.* **1**(1): 48-58.
- 2 R. Chakravarty, **S. Manna**, A.K. Ghosh and P.C. Banerjee (2007) Morphological changes in an *Acidocella* strain in response to heavy metal stress. *Res. J. Microbiol.* **2**: 742-748
- 3 **S.Manna**, S. Hazra, A. Mukherjee(2018)Qualitative and Quantitative Evaluation ofGall Induced by Pseudophacopteronalstonium Yang et Li 1983 (Hemiptera: Psyllidae: Phacopteronidae) as Plant Parasite, in Alstoniascholaris Leaves. *Proc Zool Soc.* **71**(3):217-223.
- 4 **S.Manna**, S. Das, A. Mukherjee(2016)Structural, Histopathological and Biochemical Characterization of Tumor or Gall in Fruits ofAlstoniascholaris.MAC Journal of a Basic and Applied Sciences, **111**(1):169-175
- 5 **S.Manna(2016)**Alteration In In Vitro Infectivity of Leishmania donovani Exposed To Gamma Radiation. *Asian Journal Of Biomedical and Pharmaceutical Science.* **6**(58):27-30.
- 6 **S.Manna and B. Manna(2018)**A new genus of the tetraphyllidean cestodes from Dasyatissephen Forsskal,1775 captured from Digha coastal water, Bay of Bengal, India. *Proc Zool Soc*,**71**(4):305-312.
- 7 **S.Manna** (2018) Ultra structural Changes of Radio attenuated Leishmania donovani, The Causative organism of Human Kala-azar Disease. *International Journal of Engineering, Science and mathematics.* **7** (4):160-166.

Conference Talks:

- Oral presentation at “Global Meet on Parasitic Disease”, BangaloreUniversity, 2004.
- Oral presentation at “National symposium on Zoology-A neorealistic Approach”, University of Calcutta, 2004.
- Oral presentation at “National Symposium on Recent Trends in Parasitological Research, University of Calcutta, 2006.
- Oral Presentation at “Rediscovering 100 years of Journey on The Field Of Immunology: Present Status Of ImmunologicalParticipated at Research In India” Barasat Government College, 2011
- Oral Presentation at “Bio-resource and Human Welfare” Lady Brabourne College, 2011
- Oral Presentation at “ Biodiversity: Interrelationship Between Flora, Fauna and Human” Mrinalini Datta Mahavidyapith, 2013
- Oral presentation at “24th All India Congress of Zoology & National Seminar on Biodiversity and its Management for Food, Livelihood and Environmental Security” Kalyani University, 2013.
- Oral presentation at “National Conference On Challenges In Biodiversity and Resource Management” Kalyani University, 2013.
- Oral presentation at “National Conference on Environmental Issues and Food Security in India” Foundation for Science and Environment, Kolkata ,2014
- Oral presentation at “2nd Asian Congress of Protistology and 9th Asian Conference on Ciliate Biology” Kalyani University, 2014

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Professional Memberships and Activities:

The Zoological Society of India (Life member with Journal)

Indian Science Congress Association (Life member with Journal)