Faculty Member's Academic Profile

MR. SANATAN MURMU

Designation: Assistant Professor in ZOOLOGY (W.B.E.S.)
Head of the Department, ZOOLOGY
Jhargram Raj College (Girls' Wing), Jhargram
Email: m.sana10@rediffmail.com

Educational Qualifications:

M.Sc. (VIDYASAGAR UNIVERSITY)

Area of Interest & Specialization

Specialization: ECOLOGY
Research interests: Anthelmintic property of natural products

Work Experience

Date of Joining in W.B.E.S.: 15.10.2019
Date of Joining in this College: 15.10.2019
Total Teaching experience in College level: 3+ years

List of Publications:

1. Kar PK, Murmu S, Saha S, Tandon V, Acharya K (2014) Anthelmintic Efficacy of Gold Nanoparticles Derived from a Phytopathogenic Fungus, Nigrospora oryzae. PLOS ONE, 9:1; e84693.

2. Misra TK, Pahari S, Murmu S, Rout SK (2016) Nesting Behaviour of the Giant Honeybees Apis dorsata Occurring in Jhargram, West Bengal, India. PROCEEDINGS OF THE ZOOLOGICAL SOCIETY.

3. Ash A., Bharitkar Y. P. , Murmu S., Hazra A., Ravichandiran V., Kar P.K. & Mondal N.B. (2017): Ultrastructural changes in Raillietina (Platyhelminthes: cestoda), exposed to sulfonoquinovosyldiacylglyceride (SQDG), isolated from Neem (Azadirachta indica), NATURAL PRODUCT RESEARCH.

4. Anthelmintic prospectives of Barringtonia acutangula (Lacithedaceae): An ultra-structural and dose dependent efficacy against avian intestinal tapeworm Raillietina spp. (Communicated) ……The Indian Journal of Animal Sciences.

Membership:

Membership of Learned Societies/ Editorial Boards, etc.:

1. Indian Society for Parasitology (Since-2019)
2. Institute of Scholars (2020)

Awards:

Research Excellence Award 2020

Reviewer:

InSc- International Journal of Basic and Applied Sciences

Other notable activities:

1. Fieldwork experience of fresh water fish parasite expedition in a collaborative project with South Bohemian University, Academy of Science of the Czech Republic, Bilateral Exchange Programme, Czech Republic.

2. Fieldwork experience of marine water fish parasite expedition in a collaborative project with Connecticut University and University of Kansas, National Science Foundation, USA.

Participation in Seminars/Symposia/ Conferences:

1. Sanatan Murmu, Rima Majumdar, Yogesh P. Bharitkar, Subrata Kumar De and Pradip Kumar Kar (2019). “In- vitro Anthelmintic assessment of quercetine-3-O-β- D-glucopyranoside isolated from Polygonum barbatum (Polygonaceae), against avian intestinal flatworm Raillietina spp.” Published in “National Congress Of Parasitology And Global Summit On Malaria Elimination” pp-100, P 279. (Poster Presentation)

2. Sanatan Murmu, Rima Majumdar, Pradip Kumar Kar, Yogesh P. Bharitkar and Subrata Kumar De (2018). “Evaluation of anthelmintic potential of PB1 and MS2 isolated from Polygonum barbatum in Raillietina spp.” Published in “International Congress of Parasitological Association (ICOPA)” abstract no. NP-0664. (Oral Presentation)

3. Sanatan Murmu, Subrata kumar De, Debnarayan Roy and Pradip Kumar Kar (2017). “Anthelmintic Evaluation of Barringtonia acutangula (Lacithedaceae): Alterations In Tegument Ultrastructure in Raillietina Spp.” Pulished in National Seminar on “Recent evelopment in Biological Science and Chemical Science” abstract no. 11, P-11. (Oral Presentation)

4. Sanatan Murmu, Subrata kumar De and Pradip Kumar Kar (2017). “In-vitro Efficacy of Barringtonia acutangula (Lacithedaceae): Alterations in surface ultrastructure and tegumental enzyme activity of Raillietina spp.” Pulished in National Seminar on “Crosstalk On Zoology” pp-10, P-28. (Poster Presentation)

5. Murmu Sanatan, Bharitkar Yogesh, Ash Anirban, Roy Debnarayan, Roy Karmakar Susanta, Mandal Somnath , Mondal Nirup Bikash, De Subrata Kumar and Kar Pradip Kumar (2015). “A glycolipid, SQDG - isolated from Azadirachta indica - as anthelmintic” Pulished in National Seminar on “Perspective of animal sciences: Research and application” pp-02, P-12. (Poster Presentation)

6. Kar Pradip Kumar, Murmu Sanatan, Bharitkar Yogesh, Ash Anirban, Roy Debnarayan, Roy Karmakar Susanta, Mandal Somnath, Mondal Nirup Bikash (2015). “Efficacy of SQDG, a glycolipid isolated from Azadirachta indica, against a model flatworm” Pulished in National Seminar on “Zoological Research: Past, Present and Future” abstract no. 1, P-11. (Oral Presentation)

7. S. Murmu , D. Roy , V. Tandon , G. Aditya , S. Mandal , N. Koorbanally and P. K. Kar (2012). “Folklore Medicines of the Local Tribal population of Junglemahal Region of West Bengal – Anthelmintics from Vernonia roxburghii and Polygonum barbatum against flatworms of medical and veterinary importance” Pulished in National Seminar on “Recent Advances In Life Science Application” abstract no. 21, P-20. (Oral Presentation)

8. Sanatan Murmu, Rima Majumdar, Pradip Kumar Kar,Subrata Kumar De, Yogesh P. Bharitkar, Anirban Ash (2022). “Anthelmintic prospective of Quercetin-3-O-β-D- glucopyranoside (QG), isolated from Polygonum barbatum,against avian gastrointestinal parasite Raillietina spp.” (Oral) accepted in “International Congress of Parasitological Association (ICOPA)” abstract no. #658.

Participation in Hands on Training/Workshops:

1. Transmission Electron Microscopy (TEM)
2. Scanning Electron Microscopy (SEM)
3. Gas Chromatography Mass Spectrometry (GC-MS)
4. Protein Biology:Technique And Application In Modern Research