


Personal Profile

Name	Dr Anindita Mitra	
Designation	Associate Professor of Zoology	
Date of birth	01.01.1974	
Educational qualification	M.Sc, PhD	
Permanent address	Rabichhaya, Palashtala Road, Rampur, P.O.+Dist.- Bankura, PIN-722101	
Contact number	XXXXXXXXXX	
E-mail	anindita@bankurachristiancollege.in	
Date of joining this institution	18-07-2003	
Past services	NIL	
Areas of teaching	Classical Zoology, Genetics, Biochemistry, Molecular Biology	
Vidwan Portal ID	Vidwan-ID: 273689	
ORCID ID	0000-0001-6881-659X	
Google Scholar ID		
Research Gate ID		

Faculty Development Programme

Participated in

- a) 58thOrientation Programme, conducted by the Academic Staff College, The University of Burdwan, from 6thJune to 3rd July, 2006.
- b) 18th Refresher Course in Environmental Science conducted by the Academic Staff College, The University of Burdwan, from 20th Nov to 10th Dec, 2010.
- c) 20thRefresher course in Environmental Science, conducted by the Academic Staff College, The University of Burdwan, from 15th October to 4th November 2011.
- d) TEQIP-II sponsored Short-Term Course on Bioremediation of Industrial wastes for a greener World from December 8 to 12, 2014, NIT, Durgapur
- e) Summer school conducted by UGC-HRDC,Utkal University, Bhubaneswar from 23rd July, 2015.

National:

2019

Indigenous practices in pest management in Northeast India: A brief review (2019). Mitra A, Sarkar M, Patra A, Chatterjee C. Wesleyan J of research. 11: 21-25

2017

Modulation of immune response by organophosphate pesticides: Mammals as potential model (2017) Mitra A, Sarkar M, Chatterjee C. In: Proceedings of the Zoological Society (Vol. 72, No. 1, pp. 13-24). Springer India

2015

1. Potential antimicrobial properties of two new synthetic metal complexes containing a tetradentate Schiff base (2015) Indranil Karmakar, Santanu Mandal, Anindita M. International Journal of Advanced Research (IJAR).
2. Evaluation of antimicrobial and insect repellent properties of two novel Zinc (II), and Nickel (II) complexes containing a tetradentate Schiff Base (2015) Karmakar, I., Mandal, S. and Mitra, A. Journal of Integrated Science and Technology, 3(2), pp.60-67.

2011

Mitra A. (2011). Non invasive genetic analysis in biodiversity conservation. J. Environ and Sociobiol. 8(1): 57-67

2010

Mitra A. (2010). Organophosphorous poisoning: effects on nontarget animals and human health. Wesleyan J. Research. 3(1): 20-26.

International:

2023

Consequences of selenium uptake in plants –A review (2023). Mitra As, Chatterjee S, Dubchak SV, Mudgal S, Gaur A, Srivastava K, Gupta DK. Ecological sciences (Екологічні науки). 2(47): 178-183. <https://doi.org/10.32846/2306-9716/2023.eco.2-47.29>

2021

Bacterial tolerance strategies against lead toxicity and their relevance in bioremediation application (2021) Mitra, A., Chatterjee, S., Kataki, S., Rastogi, R.P. and Gupta, D.K. Environmental Science and Pollution Research, 28, pp.14271-14284.

2018

Reproductive toxicity of organophosphate pesticides (2018) Mitra A, Maitra SK. Ann Clin Toxicol. 1 (1):1004.

2017

Arsenic Accumulation in Rice and Probable Mitigation Approaches: A Review (2017). Anindita Mitra, Soumya Chatterjee, Roxana Moogouei and Dharmendra K. Gupta Agronomy 7(4):67 <https://www.mdpi.com/journal/agronomy>

2015

Environmental amelioration using aquatic macrophytes: emphasizing removal of heavy metals from waste water (2015). Anindita, M. and Soumya, C. South Asian Journal of Experimental Biology. 5(6): pp.244-250.

2011

Synthetic chemical pesticides and their effects on birds (2011) Mitra A, Chatterjee C, Mandal FB. Res J Environ Toxicol 5(2):81-96.

2008

Testicular functions and serum titers of LH and testosterone in methyl parathion-fed roseringed parakeets (2008) Maitra, S.K. and Mitra, A. *Ecotoxicology and environmental safety*, 71(1), pp.236-244.

BOOKS / BOOK CHAPTERS / MONOGRAPHS

2023

Earthworm mediated amelioration of heavy metals from solid organic waste: an ecotechnological approach toward valorization. In: *Earthworm Technology in Organic Waste Management* (2024). Ganguly, R.K., Mitra, A., Chatterjee, C. and Chakraborty, S.K. pp.163-186. Elsevier.

2021

1. Toxic Effects of Pesticides on Avian Fauna, Chapter (2020) Anindita Mitra, Soumya Chatterjee, Mainak Sarkar, Dharmendra K. Gupta. *Toxic Effects of Pesticides on Avian Fauna*, Toxic Effects of Pesticides on Avian Fauna. In book: *Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives II*. pp.55-83. Ganhandam et al. (Eds). Springer DOI: 10.1007/978-981-15-2172-0_26
2. Plant-microbe interaction: Relevance for phytoremediation of heavy metals In: *Handbook of bioremediation* (2021). Mitra, A., Chatterjee, S. and Gupta, D.K. pp. 263-275. (Eds) Mirza Hasanuzzaman and Prasad. Pp-727-737. Elsevier.
3. Plant stress, acclimation, and adaptation: A review. In: *Plant growth and stress physiology* (2021). Mitra, A., Katak, S., Singh, A.N., Gaur, A., Razafindrabe, B.H.N., Kumar, P., Chatterjee, S. and Gupta, D.K. Eds : Gupta and Palma pp.1-22. Springer.

2020

1. Environmental Arsenic Exposure and Human Health Risk In: *Arsenic Water Resources Contamination, Advances in Water Security* (2020). Anindita Mitra, Soumya Chatterjee, and Dharmendra K. Gupta. (Eds) A. Fares, S. K. Singh. Pp-103-129. Springer Nature Switzerland AG https://doi.org/10.1007/978-3-030-21258-2_5

2. Lead Toxicity in Plants: A Review. In: Lead in Plants and the Environment (2020) Anindita Mitra, Soumya Chatterjee, Anna V. Voronina, Clemens Walther, and Dharmendra K. Gupta. Eds, Gupta DK et al. pp-99-116. Springer Nature, Switzerland
3. Phytoremediation of Heavy Metals: An Overview and New Insight on Green Approaches (2020) In: Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives II. Mirza Hasanuzzaman (Ed) pp-701-724. Springer DOI: 10.1007/978-981-15-2172-0_26
4. Plant Response Under Strontium and Phytoremediation In: Strontium Contamination in the Environment, The Handbook of Environmental Chemistry (2020). Soumya Chatterjee, Anindita Mitra, Clemens Walther and Dharmendra K. Gupta. Pathak and Gupta (Eds). Pp-85-97. Springer.
5. Uranium and Plants: Elemental Translocation and Phytoremediation Approaches In: Uranium in Plants and the Environment, Radionuclides and Heavy Metals in the Environment (2020). Dharmendra K. Gupta, Soumya Chatterjee, Anindita Mitra, Anna Voronina, and Clemens Walther. Gupta and Walther (Eds). Pp- 149-61. Springer.

2018

1. Plants Response and Tolerance to Arsenic-Induced Oxidative Stress In : Mechanisms of Arsenic Toxicity and Tolerance in Plants (2018). Anindita Mitra, Soumya Chatterjee, and Dharmendra K. Gupta. Eds: M Hasanuzzaman et al. Springer Nature Singapore pp.105-128.
2. A Review on Reed Bed System as a Potential Decentralized Wastewater Treatment Practice In: “Advances in Plant Transgenics: Methods and Applications” (2018). Soumya Chatterjee, Anindita Mitra, Santosh K. Gupta and Dharmendra K. Gupta. Eds Satishkumar R et al. Springer pp, 239-251

2017

1. Potential Role of Microbes in Bioremediation of Arsenic (2017). Mitra, A., Chatterjee, S., Gupta, D.K. In: Arsenic Contamination in the Environment. Gupta, D., Chatterjee, S. (eds) Springer, Cham. https://doi.org/10.1007/978-3-319-54356-7_10

2. Uptake, Transport, and Remediation of Arsenic by Algae and Higher Plants In ‘Arsenic Contamination in the Environment (2017). Anindita Mitra, Soumya Chatterjee, and Dharmendra K. Gupta. In: Arsenic Contamination in the Environment. Gupta, D., Chatterjee, S. (eds) Springer, Cham

2014

1. Mechanism of metal transporters in plants. In: Heavy metal remediation: transport and accumulation in plants (2014) Mitra, A., Chatterjee, S., Datta, S., Sharma, S., Veer, V., Razafindrabe, B.H., Walther, C. and Gupta, D.K., pp.1-28. Nova Publisher, New York.
2. In vitro selection of plants for the removal of toxic metals from contaminated soil: Role of genetic variation in phytoremediation. In: Heavy Metal Remediation Transport and Accumulation in Plants (2014) Sharma, S., Chatterjee, S., Datta, S., Mitra, A., Vairale, M.G., Veer, V., Chaurasia, A. and Gupta. D.K., Gupta, DK, Chattejee, S., Eds, pp.155-177. Nova Publisher, New York.

2013

1. Phytoremediation protocols: an overview. In: Plant-based remediation processes. 2013 Chatterjee S, Mitra A, Datta S, Veer V :1-8.
2. Use of wetland plants in bioaccumulation of heavy metals. In: Pant-based remediation processes, Chatterjee, S., Datta, S., Mallick, P.H., Mitra, A., Veer, V. and Mukhopadhyay, S.K., 2013. pp.117-139.

2004

Mitra A. and Maitra S.K. (2004). Influences of two commonly used organophosphatepesticides, Methyl parathion and phosphamidon, on the reproductive activities of female spotted munia (*Lonchura punctulata*): A comparative study. In “Current issues in environmental and fish biology”. Eds. S. Bhattacharya and S.K. Maitra. Daya publishers. New Delhi.

RESEARCH PROJECTS

- Name of the Research Project: Major Research Project
- Project Title: Synthesis, Characterization, and evaluation of biological activity of Schiff base metal complexes
- Funded by: UGC, New Delhi
- Amount sanctioned: 10,00,000/-
- Memo No. and Date: File No. 02/194/2022-23/RP/MJ, Dated 2012-2015
- Date of completion: 31.12.2015

RESEARCH PROJECTS

- Name of the Research Project: Minor Research Project
- Project Title: Light and Electron microscopic study of the pineal organ in two species (Bufo sp. and Rhacophorus sp.)
- Funded by: UGC, ERO, Kolkata
- Amount sanctioned: 1,00,000/-
- Memo No. and Date: F.PSW- 089/06-07
- Date of Completion: 2007

AWARD / RECOGNITION / MEMBER OF BOARD OF STUDIES / ACADEMIC ACTIVITIES

Member, Undergraduate Board of Studies, Bankura University (2020-2022)

MEMBERSHIP

- (1). Life-Member, *Zoological association, Burdwan.*
- (2). Life-Member, *Zoological Society Kolkata.*

ACADEMIC / ADMINISTRATIVE ACTIVITIES

2017-2019:

Acting as HOD

2012-2019:

Editorial Member, Eco-focus Newsletter

2020-2022:

Member, Under Graduate Board of Studies, Bankura University

2012-15:

Joint Convener, Cultural Sub-Committee, Bankura Christian College

Member, Cultural Sub-Committee, Bankura Christian College

Member, Research Committee, Bankura Christian College

Member, UGC-Committee, Bankura Christian College

**PAPER PRESENTATION/PARTICIPATION:
CONFERENCE/SEMINAR/SYMPOSIUM/WORKSHOP**

Sl. No.	Course / Theme	Sponsoring Authority	Institution where held	Date
1.	National Seminar on Environmental Biology and Fish Biology.	DST-FIST	Dept. of Zoology, Visva-Bharati, Santiniketan.	01-03 rd Feb., 2002.
2.	XXIII National Symposium on “Reproductive Biology and Comparative Endocrinology”.	SRBCE	Dept. of Zoology, Visva-Bharati, Santiniketan	07-09 th Feb., 2005.
3.	77 th National Conference West Bengal College & University Teachers’ Association.	U.G.C.	Bankura Sammilani College.	18-19 th Nov., 2006.
4.	U.G.C. sponsored National Level two-day seminar on “Biosensor NSBS ’07”.	U.G.C.	PG Dept of Zoology, Raja N. L. Khan Womens’ College. Paschim Medinipur.	24-25 th March., 2007.
5.	National Symposium on Comparative Endocrinology and Reproductive Physiology: Insights and Challenges.	UGC-CAS, DST, CSIR, ICMR, INSA, DBT & Visva-Bharati	Dept. of Zoology, Visva-Bharati, Santiniketan	26-28 th Nov., 2007
6.	NAAC Sponsored National Level two-day Seminar on “Road-Map for promoting Student Participation in	NAAC	Bankura Christian College.	12-13 th Oct., 2007.

	Quality Education in Backward Area Institution”			
7.	Workshop on Molecular Biological techniques	UGC	University of Burdwan	16-18 April, 2008
8.	Frontiers in Molecular biology and workshop on basic flowcytometry	DST-PURSE	University of Burdwan	9 th July, 2012

OTHER ACTIVITIES

1. Organized UGC Sponsored State level seminar on “Modern Trends in Ecotoxicological Research and Human Welfare.” on Sep. 25th and 26th, 2006, Dept of Zoology, Bankura Christian College.
2. Organized UGC Sponsored National level seminar on “Ethnozology and Human Welfare” Sponsored by UGC on Sep. 26th and 27th, 2008, Dept of Zoology, Bankura Christian College.
3. Organized UGC Sponsored National level seminar on “Biodiversity conservation scenario in India” on Sep. 24th and 25th, 2010, Dept of Zoology, Bankura Christian College.
4. Organized UGC Sponsored National level seminar on “Promoting Bio-control Agents for Human Well-Being” on 11th -12th January, 2012, Dept of Zoology, Bankura Christian College.
5. PG teaching experience as guest lecturer for PG classes in the Zoology Dept. of Midnapore Gope College in the year 2007.
6. Prepared faunal biodiversity profile around the campus of Bankura Christian College with the help of departmental students.