

**Name:** DR. DAWA BHUTIA  
**Designation in (subject):** Assistant Professor in Zoology  
**Highest qualification:** M.Sc, Ph. D



**Contact details/ Office address:** P.G. Dept. of Zoology, Darjeeling Govt. College

**Vidwan ID (Mandatory):** 521151  
**Email id (official):** dbhutia16@gmail.com  
**Date of joining to this institution\*:** 02/03/2015  
**Date of joining W.B.E.S.:** 02/03/2015

**Previous position(s) held/ Additional charges (if any):**

**Teaching experience in years & months:** 9 years 2 months

**Fellowship, Awards, Recognition and Honours (if any):**

**Courses taught:** Environmental Biology, Ecology, Taxonomy, Biochemistry, Genetics, Cell Biology, Animal Behaviour

**Research area/ interest:** Ecotoxicology, Environmental Biology and Biodiversity

**ResearchGate link:** <https://www.researchgate.net/profile/Dawa-Bhutia>

#### List of publications-

- **Peer reviewed journals:**

1. Multiple forms of cytochrome P450 family in liver of fresh water teleost fish, *Heteropneustes fossilis* (Bloch). *N.B.U. Journal of Animal Sciences*. (2010) 4: 28-35. (ISSN 0975-1424)
2. Cytochrome P450 in liver of Indian major carp, (*Labeo rohita*, Ham.) following sub-lethal exposure of chlorpyrifos. *N.B.U. Journal of Animal Sciences*. (2010) 4:22-27. (ISSN 0975-1424)
3. Detection of Multiple Cytochrome P450 in Hepatic Tissue of *Heteropneustes fossilis* (Bloch) Exposed to Cypermethrin. *Proceedings of the Zoological Society*. (2013) 66(1):14–19. (ISSN 0373-5893)
4. Cytochrome P450 3A and its role in metabolism of erythromycin by hepatic microsomes of Indian major carps, *Labeo rohita* (Ham.), *Catla catla* (Ham.) and *Cirrhinus mrigala* (Ham.). *International Journal of Fisheries and Aquatic Studies*. (2014) 2(1): 113-117. (ISSN 2347-5129).
5. Hepatic Cytochrome P450 as Biomarkers of Cypermethrin Toxicity in Freshwater Teleost, *Channa punctatus* (Bloch). *Brazilian Archives of Biology and Technology*. (2015) 58(1): 130-135. (ISSN 1516-8913).
6. Study on the breeding performance and developmental stages of climbing perch, *Anabas testudineus* (Bloch, 1792) in the laboratory (Siliguri, India). *International Journal of Fisheries and Aquatic Studies*. (2015) 2(6): 198-201. (ISSN: 2347-5129)

7. Analyses of pesticide residues in water, sediment and fish tissue from river Deomoni flowing through the tea gardens of Terai Region of West Bengal, India". *International Journal of Fisheries and Aquatic Studies*. (2015) 3(2): 17-23. (ISSN: 2347-5129)
8. Observations and documentation of amphibian diversity from a human-modified ecosystem of Darjeeling, with record occurrence of *Polypedates himalayanus* from Darjeeling Hills, West Bengal. *Asian Journal of Conservation Biology*. (2018) 7(1): 66–72. (ISSN 2278-7666).
9. Ethnozoological Practices among the Inhabitants of Darjeeling Hills of West Bengal, India. *Uttar Pradesh Journal of Zoology*. (2020) 41(14): 9-18. (ISSN: 0256-971X (P))
10. An observation on the occurrences of Rufous-throated Wren- Babbler in Darjeeling Hills, West Bengal, India. *Bird-o-soar #104, In: Zoo's Print*. (2021) 36(11): 44–48. (ISSN/eISSN: 0971-6378/0973-2543)
11. A Report on Vermicomposting Efficiency of Earthworm Species from Darjeeling Hills and *Eisenia fetida*. *Acta Scientific Veterinary Sciences*. (2022) 4(1): 157-160. (ISSN: 2582-3183)
12. Metabolism of  $\beta$ -naphthoflavone by cytochrome P450 isoforms in three air breathing fish, *Channa punctatus*, *Heteropneustes fossilis* and *Clarias batrachus*. *South Asian Journal of Experimental Biology*. (2022) 12(6): 834-840. (ISSN: 2230-9799)
13. Ecological distribution and analysis on the current distribution of Rufous-throated wren babbler (*Spelaornis caudatus*) in the Indian Himalayan Region. *Indian Journal of Applied and Pure Biology*. (2023). 38(2): 547-553. (ISSN: 0970-2091)
14. Cytochrome P450 and its role in metabolism of dicofol in *Channa punctatus* and *Heteropneustes fossilis*. *Indian Journal of Applied and Pure Biology*. (2023). 38(2), 661-669. (ISSN: 0970-2091)

- **Books/ Chapters in books etc. (if any):**

1. Assessment of Insecticide residues in river Tepu and Deomani of Terai region, North Bengal and study of Cytochrome P450 in fish, *Channa punctatus* (Bloch). *Recent Advances in Animal Science Research*. (2011) 6:727-734. (ISBN 81-88094-02-9)
2. Detection of Hepatic Cytochrome P450 as Biomarkers of Cypermethrin Toxicity in Fish, *Channa punctatus* (Bloch). Chapter 14 in *Recent Research Advances in Biology Vol. 3*. (2020) pp 140-151. (Print ISBN: 978-93-90431-53-3, eBook ISBN: 978-93-90431-54-0)

- **Presentations/attended in Conferences/Workshops/Seminars/Symposium etc.:**

1. National Symposium on “**Cross Talk Between Zoology and Technology**”, Organized by Department of Zoology, University of North Bengal
2. User awareness programme on “**Access to E-resources under UGC INFONET Digital Library Consortium**”, Organized by University Library, University of North Bengal in collaboration with the INFLIBNET centre, Ahmedabad (An Inter-University Centre of UGC)
3. National Symposium on “**Pesticide stress on Target, Non-Target Organisms and Human Health**”. Organized by Department of Zoology, University of North Bengal
4. National Conference on “**Evaluation of Biodiversity of Eastern Himalaya and Adjoining Plains**”. Organized by Department of Zoology, University of North Bengal in collaboration with Centre for Environment and Development, Kolkata
5. “**UGC Sponsored Research Scholars’ Training Programme**”, at UGC Academic Staff College, University of North Bengal
6. National Conference on “**Research in Animal Science: Development and Evaluation**”. Organized by Department of Zoology, University of North Bengal (CSIR, UGC (merged scheme) & UGC-SAP)

7. National Conference on “**Man, Animal and Environment interaction in the perspective of modern Research**” Organized by Department of Zoology, University of North Bengal assisted by UGC-SAP and DST-FIST
8. UGC sponsored seminar on “**Biological Research in Human Welfare**” Organized by Department of Zoology, University of North Bengal
9. “**Demonstration and Training Programme on Induced Breeding of Koi Fish and culture of Ornamental Fish**”, funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India Organized by Department of Zoology, University of North Bengal.
10. “**Demonstration and Training on Induced Breeding of Koi Fish, Culture of Food microorganisms for Hatchlings and Rearing**”, funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India Organized by Department of Zoology, University of North Bengal
11. **Resource person** at 26th National Children’s Science Congress
12. Resource person at “**Demonstration and Training on Induced Breeding of Koi Fish (*Anabas testudineus*) and Rearing of Hatchlings**”, funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India Organized by Department of Zoology, University of North Bengal, under the project entitled “Establishment of Rural Bioresource Complex in North Bengal”.
13. Workshop on “**Cultivation and Post Harvest Processing of Edible Mushrooms**”, funded by Department of Biotechnology, Ministry of Science and Technology, Govt. of India on, Organized by Department of Botany, University of North Bengal, under the project entitled “Establishment of Rural Bioresource Complex in North Bengal”.
14. National Conference on “**Applied Zoology in Sustainable Development: An Update**”, Organized by Department of Zoology, University of North Bengal.
15. One day workshop on “**Green and Clean Environment**”, Organized by Darjeeling Government College.
16. 2 days Training program on “**Monitoring of vertebrate fauna in Indian Himalayan Region**”, Organized by Department of Zoology, Darjeeling Government College in collaboration with ZSI.
17. “**International Zoology Seminar**”, Organized by Post Graduate Department of Zoology, Darjeeling Government College, W.B. Sponsored by: Higher Education Department, Government of West Bengal.
18. Three days workshop on” **Pedagogy Tools**”, Organized by Dinhata College in collaboration with ISER, Pune
19. International web seminar on "**Modern Trends in Humanities, Science & Technology and Social Sciences for Sustainable Development**", Organized by organized by A. P. C. Roy Govt. College, Himachal Vihar, Matigara, Siliguri – 734010, West Bengal, India in collaboration with UGC-Human Resource Development Centre, University of North Bengal, Darjeeling, West Bengal, India
20. One Week Online Faculty Development Program (FDP) “**Tools and Scientific Communications for Research Article and Proposal Writing**” Organized by Department of Mechanical Engineering held at GBPIET, Pauri
21. Two Days Faculty Development Program on "**Online Teaching Tools and Applications (Practical Based)**", Organized by Vishisht School of Management, Indore
22. Two Days online Faculty Development Program on "**Design and implementation of Outcome Based Education (OBE) Model**", Organized by Shri Muktanand College, Gangapur, Aurangabad in collaboration with Dr. Babasaheb Ambedkar Marathwada University
23. Two Days online Faculty Development Program on “**Online Teaching Tools and Applications (Practical Based)**”, Organized by Vishisht School of Management, Indore

**Details regarding participation in FIP/OP/RC:**

**O.P.**

- 31<sup>st</sup> Orientation programme at HRDC, N.B.U.(02.08.2017 to 29.08.2017)

**R.C.-**

- Tea Science (Inter-disciplinary) at HRDC, N.B.U.(14.11.2018 to 04.12.2018)
- New Frontiers of Advancement in Natural and Biological Sciences at HRDC, N.B.U (10.09.2021 to 23.09.2021)