

Dr. KUNTAL BHATTACHARYA



Contact: kbbjoy@gmail.com

Qualification: M.Sc. (Gold Medalist), Ph.D.

Designation: Assistant Professor (W.B.E.S)

Teaching Experience (in years): UG: 5 years

PG (NSOU, ZOOLOGY): 5 years

Research Experience (in years): 8 years

Date of Joining Present Institution: 03.03.2015

Institutions/Companies Previously Served:

| Name of Institution/Company | Designation | Tenure | |
|---|--------------------------------------|-------------------|-------------------|
| | | From (DD-MM-YYYY) | To (DD-MM-YYYY) |
| Burdwan Raj College, Burdwan | Guest Faculty | 01.10.2013 (F.N.) | 18.01.2015 (A.N.) |
| Achhruram Memorial College, Jhalda, Purulia | Assistant Professor of Zoology | 19.01.2015 (F.N.) | 02.03.2015 (A.N.) |

Examinations cleared:

1. NET-CSIR UGC in 2011 (December), 2012 (June and December), 2013 (June and December)
2. GATE (IIT Delhi), 2012
3. WBSET 2013

Specialization/Research Interest: Parasitology and Microbiology

Research interest in Therapeutic microbiology, Vector control, Green nanotechnology

Awards & Recognitions

1. Scholarship and Certificate of Merit in National Talent Search Examination, 2001.
2. Bhakti-Gouri Medal by The University of Burdwan in 2012, for securing highest marks in Zoology.
3. University Gold Medal, The University of Burdwan for being 1st in First Class, 2012
4. "Young Scientist award" at Allahabad Central University, December 14, 2014.
5. "Outstanding paper presentation award", November, 8, 2016 by WBDST, at 1st

Regional Science Congress, Bankura.

6. Best Oral Presentation in “Young Scientist Category” at National Conference, The University of Burdwan, February 18, 2017.
7. 2nd Best Oral presentation from **Zoology section** in 2nd regional Science and Technology Congress by WBDST, 2017.
8. 2nd Best Oral presentation from “**Animal sciences**” section in 2nd regional Science and Technology Congress by WBDST, 2017

Courses taught

| | B.Sc Honours | Course Name | Course Name | Course Name |
|--------------|----------------------|--|--------------------------------------|---|
| Semester-I | CC-I, CCII | <i>Basic Concept of Taxonomy & Non Chordates I: Protista to Pseudocoelomates</i> | <i>Principles of Ecology</i> | |
| Semester-II | CC-III, CC-IV | <i>Non-chordates II: coelomates</i> | <i>Animal physiology</i> | |
| Semester-III | CC-VI, CC-VII | <i>Comparative Anatomy of Vertebrates</i> | <i>Fundamentals of Biochemistry</i> | |
| Semester-IV | CC-VIII, CC-IX, CC-X | <i>Cell Biology</i> | <i>Parasitology & Immunology</i> | <i>Biochemistry of Metabolic Pathways</i> |
| Semester-V | CC-XI, CC-XII | <i>Molecular Biology</i> | <i>Developmental Biology</i> | |
| Semester-VI | CC-XII, CC-IV, DSE-3 | <i>Principles of Genetics</i> | <i>Evolutionary Biology</i> | <i>Parasitology</i> |

Online Mode of Teaching

Students were equipped with course materials and subject notes through Google Class Room Facilities. Real time video lectures were held using TeamLink, Google Meet and Zoom Platforms. Some practical were demonstrated using “Jove” online platform. Several MCQs were discussed in Whats App group. Course wise assignments were adjudicated using Google Classroom facilities. Several online tests were taken using real time video platforms as mentioned above.

Publications

Journals:

1. Utpal Adhikari, **Kuntal Bhattacharya***, Partha Mitra, Goutam Chandra (2018), Larvicidal efficacy of silver nanoparticles synthesized biologically using *Swietenia mahagoni* (L.) Jacq. leaf extract against *Anopheles stephensi*, *Culex quinquefasciatus* and *Cx. vishnui* group. *Indian Journal of Experimental Biology*, 56 (01). <http://nopr.niscair.res.in/handle/123456789/43284>.

(Impact factor: 1.18)

2. Sunanda Burman, **Kuntal Bhattacharya***, Devaleena Mukherjee, Goutam Chandra (2018), Antibacterial efficacy of leaf extracts of *Combretum album* Pers. against some pathogenic bacteria, *BMC complementary and alternative medicines*, **18**, 213. <https://doi.org/10.1186/s12906-018-2271-0> **(Impact factor: 2.68)**
3. Aniket Singh, **Kuntal Bhattacharya***, Goutam Chandra (2018), Larvicidal potentiality of the leaf extracts of *Glochidion lanceolarium* (Phyllanthaceae) against the Japanese encephalitis vector *Culex vishnui* (Culicidae), *Oriental Insects*, **53**, 267-278. [10.1080/00305316.2018.1487887](https://doi.org/10.1080/00305316.2018.1487887) **(Impact factor: 0.29)**
4. Moumita Das, Aniket Singh, **Kuntal Bhattacharya***, Ambarish Mukherjee, Goutam Chandra (2018), Mosquito larvicidal efficacy of *Andrographis echinoides* (Acanthaceae) foliages against vector of lymphatic filariasis *Culex quinquefasciatus* Say (1823). *Proceedings of the Zoological Society*. <https://doi.org/10.1007/s12595-018-0273-z>. **(Impact factor: 0.93)**
5. Goutam Chandra, Siddhartosankar Banerjee, **Kuntal Bhattacharya***, Saroj Chatterjee (2016), Efficacy of a locally isolated strain of *Bacillus cereus* as mosquito larvicide. *Molecular Entomology*, **7**(5), 1-5. [10.5376/me.2016.07.0005](https://doi.org/10.5376/me.2016.07.0005)
6. Aniket Singh, **Kuntal Bhattacharya***, Anushree Singh Ray, Goutam Chandra (2016), Larvicidal efficacy of mature leaf extract of *Nicotiana plumbaginifolia* Viv. (Solanaceae) against southern house mosquito. *International Journal of Pharma and Bio Sciences*, **7**(2), (B) 162 - 167. **(Impact factor:0.63)**
7. **Kuntal Bhattacharya***, Goutam Chandra (2015), Biocontrol efficacy of *Operculina turpethum* (L.) (Convolvulaceae) leaf extractives against larval form of malarial mosquito *Anopheles stephensi* (Liston 1901). *International Journal of Pharma and Bio Sciences*, **6**(3), (B) 460-468. **(Impact factor:0.63)**
8. Devaleena Mukherjee, **Kuntal Bhattacharya***, Goutam Chandra (2015), Extracts of *Moringa oleifera* Lam. (Moringaceae) edible Pods as novel antibacterial agent against some pathogenic bacteria. *International Journal of Pharma and Bio Sciences*, **6**(3), (B) 513-520. **(Impact factor: 0.63)**
9. Anushree Singha Ray, **Kuntal Bhattacharya***, Goutam Chandra (2015), Target specific larvicidal effect of *Capparis zeylanica* L. (Capparaceae) foliages against filarial vector *Culex quinquefasciatus* Say (1823). *International Journal of Pharma and Bio Sciences*, **6** (3), 139-148. **(Impact factor:0.63)**
10. Aniket Singh, **Kuntal Bhattacharya***, Goutam Chandra (2015), Efficacy of *Nicotiana plumbaginifolia* (Solanaceae) leaf extracts as larvicide against malarial vector *Anopheles stephensi* Liston 1901. *International Journal of Pharma and Bio Sciences*, **6** (1), (B) 860-868. **(Impact**

factor: 0.63)

11. Devaleena Mukherjee, Anushree Singha Ray, **Kuntal Bhattacharya***, Goutam Chandra (2015), Strobilus extractives of *Thuja orientalis* as novel antibacterial agent against some pathogenic bacteria. *International Journal of Pharma and Bio Sciences*, 7 (1), (B) 156-160. **(Impact factor:0.63)**
12. Subrata Mallick, **Kuntal Bhattacharya***, Goutam Chandra (2014), Mosquito larvicidal potentiality of wild turmeric, *Curcuma aromatica* rhizome, extracts against Japanese Encephalitis vector *Culex vishnui* group. *Journal of Mosquito Research*, 4 (19), 16.
13. **Kuntal Bhattacharya***, Sunanda Burman, Srabanti Nandi, Paromita Roy, Dipjyoti Chatterjee, Goutam Chandra (2014), Phytochemical extractions from the leaves of *Ravenala madagascariensis* from Sundarban area and its effect on southern house mosquito (*Culex quinquefasciatus* Say 1823) larvae. *Journal of Mosquito Research*, 4(12), 1-6.
14. **Kuntal Bhattacharya***, Ipsha Chandra, Priyanka Kundu, Sayoni Ray, Debashis Halder, Goutam Chandra (2014), Larval control of *Culex vishnui* group through bio-active fraction of traveller's tree, *Ravenala madagascariensis* Sonn. (Strelitziaceae). *Journal of Mosquito Research*, 4(10), 1-6.
15. **Kuntal Bhattacharya***, Goutam Chandra (2014), Phagodeterrence, Larvicidal and Oviposition Deterrence activity of *Tragia involucrata* L. (Euphorbiaceae) root extractives against vector of lymphatic filariasis *Culex quinquefasciatus* (Diptera: Culicidae). *Asian Pacific Journal of Tropical Disease*, 4(Suppl1), S226-S232. **(Impact factor:1.03)**
16. Anushree Singha Ray, **Kuntal Bhattacharya***, Aniket Singh, Goutam Chandra (2014), Larvicidal Activity of *Nelumbo nucifera* Gaertn. (Nymphaeaceae) against *Anopheles stephensi* (Liston 1901) and its Effect on Non-target Organisms. *Journal of Mosquito Research*, 4(1), 10-18.
17. **Kuntal Bhattacharya***, Goutam Chandra (2013), Bioactivity of *Achyranthes aspera* (Amaranthaceae) foliage against Japanese Encephalitis vector *Culex vishnui* group. *Journal of Mosquito Research*, 3(13), 89-96.
18. Sumanta Chakraborty, Someshwar Singha, **Kuntal Bhattacharya***, Goutam Chandra (2013), Control of human filarial vector, *Culex quinquefasciatus* Say 1823 (Diptera:Culicidae) through bioactive fraction of *Cayratia trifolia* leaf. *Asian Pacific journal of tropical biomedicine*, 3 (12), 980-984. **(Impact factor:1.17)**

Invited Lectures

1. Invited Lecture on “Food and Cancer” (**Dr. Kuntal Bhattacharya**), in a state level one day seminar catalysed & supported by DHESTBT, Govt. of West Bengal held on Decemb22, 2017 organized by Kaijuli Hem Chandra High (H.S.) School, Mahammad Baazar, Birbhum in association with DHESTBT, Govt. of West Bengal.
2. Invited Lecture on “Biodiversity and Conservation: involving our people (**Dr. Kuntal Bhattacharya**)”, in A state level awareness programme "Jiba Baichitra Sachetanata Sankalpa" on Biodiversity held on September 29, 2018 organized by Sainthia municipality in association with West Bengal Biodiversity Board.
3. Invited Lecture on “Mosquito born diseases and its control” (**Dr. Kuntal Bhattacharya**), in a seminar r in the National Service Scheme Special Camp Regarding Social Awraeness held on 18th January 2019 organized by Kulti College, Paschim Bardhaman, West Bengal.

Paper Presentation in seminar/conference/symposium/workshop/discussion meeting

In International Seminars:

1. Poster Presentation on “Selective lethality of novel phyto-insecticides against filarial vector *Culex quinquefasciatus* and change in protein content in larval tissue (**Dr. Kuntal Bhattacharya**)” in the Young Scientist Conference, India International Science Festival, 2019, held on November 5-8, 2019, organized by Ministry of Science and Technology, Ministry of Earth Sciences, Ministry of Health and family Welfare, Government of India.
2. Poster Presentation on “Methanolic extract of *Ananas comosus* leaves as novel mosquito larvicides against filarial vector *Culex quinquefasciatus* (Say 1823) (**Dr. Kuntal Bhattacharya**)” in the International conference on “Science: Past, Present and Future”, held on 12th December, 2017 organized by Syamsundar College in association with Indian Chemical Society.
3. Oral Presentation on “Bioactive fractions and green nanoparticles from *Tragia involucrata* (Euphorbiaceae) against *Culex vishnui* group with quantifications of some macromolecular oscillations (**Dr. Kuntal Bhattacharya**)” in the Global Biodiversity meet on Parasites and aquatic Ecosystem Health and International Satellite Workshop on Biotechnological Approaches for Environmental Sustenance and Hands on Training programme for Capacity Building in applications of Bio-technology held on Dec 12-15, 2014 organized by **Allahabad Central University**, U.P. India.
4. Poster Presentation on “Antimicrobial efficacy of green synthesized silver Nanoparticles from *Acyranthes aspera* (Amaranthaceae) leaf extracts against four human pathogenic bacteria (**Dr. Kuntal Bhattacharya**)” in the International Symposium on Genetic Analysis: Translational and Developmental and Annual Meeting of Society for Biotechnologists (India) held on Nov 21-23, 2014 organized by the University of Burdwan, West Bengal, India.

I. In National Seminars/ Conferences:

5. Oral Presentation on “*Mosquito Biodiversity of West Bengal (Dr. Kuntal Bhattacharya)*” in the National Conference on Challenges in Biodiversity and Resource management held on Feb 26-27, 2013 organized by The Department of Zoology, University of Kalyani, in collaboration with West Bengal Biodiversity Board.
6. Oral Presentation on “*In Vitro antibacterial effect of Gmelina arborea foliage against four pathogenic bacteria (Dr. Kuntal Bhattacharya)*” in the 24th All India Congress of Zoology held on Nov 23-25, 2013 organized by The Department of Zoology, University of Kalyani, in collaboration with Zoological Society of India, Bodh Gaya.
7. Oral Presentation on “*Mosquito larvicidal activity of Gmelina arborea against vector of human lymphatic filariasis Culex quinquefasciatus (Say 1823) (Dr. Kuntal Bhattacharya)*” in the 24th all India Congress of Zoology held on Nov 23-25, 2013 organized by The Department of Zoology, University of Kalyani, in collaboration with Zoological Society of India, Bodh Gaya.
8. Oral Presentation on “*Bioactive fractions and green synthetic nanoparticles from Tragia involucrata (Euphorbiaceae) roots as mosquito larvicidal agents against Culex quinquefasciatus (Say 1823) (Dr. Kuntal Bhattacharya)*” in UGC-DRS sponsored national seminar on “*Bioprospecting of Natural Products*” held on Dec 5-6, 2013 organized by The Department of Zoology, The University of Burdwan, West Bengal.
9. Poster Presentation on “*Evaluation of Gmelina arborea (Lamiaceae) extractives as larvicidal agent against Japanese Encephalitis vector Culex vishnui Group (Dr. Kuntal Bhattacharya)*” in the UGC-DRS sponsored national seminar on “*Bioprospecting of Natural Products*” held on Dec 5-6, 2013 organized by The Department of Zoology, The University of Burdwan, West Bengal.
10. Oral Presentation on “*Larvicidal activity of Achyranthes aspera (Amaranthaceae) against malarial vector Anopheles stephensi (Liston 1901) (Dr. Kuntal Bhattacharya)*” in the UGC-DRS sponsored national seminar on “*Bioprospecting of Natural Products*” held on Dec 5-6, 2013 organized by The Department of Zoology, The University of Burdwan, West Bengal.
11. Oral Presentation on “*Control of Pathogenic Pseudomonas aeruginosa (MTCC 2453) and Escherichia coli (MTCC 739) through biogenic and cost-effective silver nanoparticles from Tragia involucrata (Euphorbiaceae) roots (Dr. Kuntal Bhattacharya)*” in 21st West Bengal State Science and Technology Congress held on Feb 20-21, 2014 jointly organized by The Department of Zoology, The University of Burdwan and West Bengal State Science and Technology Council and Department, Government of West Bengal.
12. Oral Presentation on “*Phyto-synthetic green nanoparticles as the controlling agent of four human pathogens (Dr. Kuntal Bhattacharya)*” in the 22nd West Bengal State Science and Technology Congress held on Feb 28th - Mar 1st, 2015 jointly organized by North Bengal University and West Bengal State Science and Technology Council and Department, Government of West Bengal.
13. Poster Presentation on “*Larvicidal Efficacy of Acyranthes aspera (Amaranthaceae) inflorescence against malarial vector Anopheles stephensi (Dr. Kuntal Bhattacharya)*” in the 22nd West Bengal State Science and Technology Congress held on Feb 28th - Mar 1st, 2015, jointly organized by North Bengal University and West Bengal State Science and

Technology Council and Department, Government of West Bengal.

14. Poster Presentation on "Bioactive fraction of *Barleria lupulina* target specific mosquito larvicide against the vector of Lymphatic Filariasis *Culex quinquefasciatus* (**Dr. Kuntal Bhattacharya**)" in the 23rd West Bengal State Science and Technology Congress held on Feb 28-29, 2016, jointly organized by Presidency University and West Bengal State Science and Technology Council and Department, Government of West Bengal.
15. Oral Presentation on "Evaluation of mosquitocidal activity of bioactive compound from leaves of *Ravenala madagascariensis* against *Anopheles stephensi* (**Dr. Kuntal Bhattacharya**)" in the 23rd West Bengal State Science and Technology Congress held on Feb 28-29, 2016, jointly organized by Presidency University and West Bengal State Science and Technology Council and Department, Government of West Bengal.
14. Oral Presentation on "Evaluation of mosquitocidal activity of bioactive compound from leaves of *Ravenala madagascariensis* against *Anopheles stephensi* (**Dr. Kuntal Bhattacharya**)" in the 1st West Bengal Regional Science and Technology Congress held on Nov 7-8, 2016, jointly organized by Bankura Christian College and West Bengal State Science and Technology Council and Department, Government of West Bengal.

Participation in faculty development programmes

1. Winter School on "Environmental Planning & Management" from 04/12/2018 to 24/12/2018 (**Dr. Kuntal Bhattacharya**) organized by UGC-HRDC, The University of Burdwan.
2. Refresher Course on "Recent Advancement in Biological Sciences" from 16/08/2019 to 29/08/2019 (**Dr. Kuntal Bhattacharya**) organized by UGC-HRDC, The University of Burdwan.

Organization of events (Durgapur Government College)

1. Two day's National level seminar on "Contemporary era of sciences: Biological and chemical interface" organized by Department of Chemistry, Zoology, Botany and Conservation Biology, Durgapur Government College, on March 26-27, 2019 (**Dr. Kuntal Bhattacharya**, *Joint Organizing Secretary, Department of Zoology*).
2. One day National level seminar on "Modern era of sciences: Lab to Land" organized by Department of Zoology and Conservation Biology, Durgapur Government College, on December 5, 2019 (**Dr. Kuntal Bhattacharya**, *Joint Treasurer, Department of Zoology*).

Participation in committees of Durgapur Government College since 2017

1. AISHE and NIRF Data Compilation Cell (**Dr. Kuntal Bhattacharya**, Jt. Convener-2019-20)
2. Career Counselling and Students' Placement Cell (**Dr. Kuntal Bhattacharya**, Jt. Convener-2019-20)
3. RUSA PMU UNIT (**Dr. Kuntal Bhattacharya**, Member-2018-2019, 2019-20)
4. Central Purchase Committee (**Dr. Kuntal Bhattacharya**, Member-2018-19, 2019-20)
5. Admission Committee (**Dr. Kuntal Bhattacharya**, Member-2017-18, 2018-19, 2019-20)
6. Golden Jubilee Celebration Core Committee (**Dr. Kuntal Bhattacharya**, Member-2019-20)
7. Central Library Committee (**Dr. Kuntal Bhattacharya**, Member-2017-18, 2018-19)
8. University Examination committee for SEM II (**Dr. Kuntal Bhattacharya**, Member-2017-18)