

## Faculty Profile

1. Name in full: **Dr. Mridul Kumar Borthakur**
2. Designation: **Assistant Professor**
3. Date of Joining: 29-05-2008
4. Academic qualification: M.Sc. ; Ph.D.
5. Specialization: Animal Ecology and wildlife biology
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8. E-mail : borthakurm@rediffmail.com
9. Date of Birth : 30-06-1975
10. Sex : Male
11. Nationality : Indian
12. **Publications:**
  - (a) **Books:** (Please indicate title, publisher and year of publication)
    1. Higher Secondary Biology Book of National Open School (Assamese version) published in 2009. Publisher: National Open School
  - (b) **Research Papers published in National and International Journals, proceedings of seminar** ( Please indicate title, Name of the journal, page No. and year of publication)
    - (i) Borthakur, M.K., Mahanta, R., Goswami, U.C. 2004 : Tissue lipid peroxides in sublethal malathion exposed Indian Catfish *Heteropreustes fossilis* (Bloch). *J. Natcon.* 16(2) : 315 – 320.
    - (ii) Borthakur, M.K., Mahanta, R., Goswami, U.C. 2004 : Influence of OP pesticide malathion on lipid peroxidation in catfish *H. fossilis*. *Bull. Env. Sci.*, 22(2) : 106-110.
    - (iii) Borthakur, M.K., Ganguly, M., Devi, N., Mahanta, R., 2005 : Screening of estrous cycle as an evaluation for the antifertility effect of *Cissampelos pareira* leaf extract in albino mice., *RJJC.*, Vol.3, pp. – 31-35.

- (iv) Borthakur, M.K., Mahanta, R., Goswami, U.C. 2006 : Cytochrome P-450, aryl hydrocarbone hydroxylase and xanthine oxidase activity during sublethal malathion exposure in fresh water catfish *Heteropreustes fossilis*. Journal of the Inland Fisheries Society of India., 38(1) : 9-14.
- (v) Borthakur, M.K., Ganguly, M., Devi, N., Mahanta, R., 2007 : Antifertility activity of the methanolic leaf extract of *Cissampelos pareira* in female albino mice., Journal of Ethnopharmacology., 111(3): 688-691. **(Impact factor: 1.6)**
- (vi) Borthakur, M.K., Ganguly, M., Devi, N., Mahanta, R., 2007: Effect of *Mimosa pudica* root extract on vaginal estrous and serum hormones for screening of antifertility activity in albino mice., Contraception, 76(6): 482-485. **(Impact factor: 2.4)**
- (vii) Napen, R.; Borthakur, M.; Bordoloi, S., 2010: A preliminary study of man-elephant conflicts in Assam with special reference to Karbi Anglong, Assam., Proceedings of IGU Commission seminar, 11<sup>th</sup>-13<sup>th</sup> Dec, 2010, organized by Cotton College, Guwahati, Assam Page no. 1070-1074.
- (viii) Borthakur, M.K. Kakoti, R.M. and Devi, M., 2013: Study of fish fauna and water quality of Morikalong beel, Nagaon, Assam. Proceedings of the International seminar on bioresources and human sustenance ,pp 109-112 (ISBN:978-93-82384-36-6) organized by Department of Zoology, Cotton College, Guwahati and Zoological Society of Assam
- (ix) Kakoti, R.M., Borthakur, M.K. and Bardoloi, S., 2013: Toxic effects of liver extract of Globefish *Tetradon cutcutia* on development and longevity of Housefly, *Musca domestica* L Proceedings of the International seminar on bioresources and human sustenance, pp 241-246 (ISBN:978-93-82384-36-6) organized by Department of Zoology, Cotton College, Guwahati and Zoological Society of Assam

**(c) Article published in News paper/Magazine:**

- (i) The golden langurs of the pea-cock island, Reflexon, Issue 19<sup>th</sup>, Vol-II, November, 2006
- (ii) The green Kingdom, The Assam Tribune, December 12, 2010.
- (iii) Conservation and ancient ideology, Bibian, 47<sup>th</sup> issue, 2011
- (iv) Present status of one horned rhino, Zoon, Vol.10, 2011
- (v) Honeybees- concern over agriculture, *Amar Bigyan*, 19<sup>th</sup> State Level National Children's Science Congress, Assam, 2011

**13.** Details of the Projects (in prescribed format)

(a) Completed: Nil

(b) On Going:

Sl.No	Title of the Project	Duration	Sponsored/ Funded by the Institute	Year of Completion	Budget Sanctioned
1	Study of breeding biology of <i>Xenontedon cancila</i>	18 months	UGC	2014	1.05 lakh

**14.** Paper presentation in National & International Seminars: (Please indicate title of the paper, Name of the seminar, date or duration, organizer etc.)

- (i) Borthakur, M.K. and Mahanta, R., 2004. Influence of pesticide Malathion on lipid peroxidation (LPO) in catfish *H. fossilis*. International Seminar on recent trends in Environmental Sciences, held in New Delhi, April, 24-26, 2004.
- (ii) Choudhury, P.K., Borthakur, M.K. and Sengupta, S., 2004 : Study of reproductive behaviour of Golden langur in an adapted habitat, Umananda – A River Island of Brahmaputra. International Seminar on recent trends in Environmental Sciences, held in New Delhi, April, 24-26, 2004.
- (iii) Borthakur, M.K., Ganguly, M., Devi, M. Mahanta, R., 2004 : A preliminary study on the effect of *Cissampelos pareira* leaf extract on estrous cycle of Albino mice. National Seminar on medicinal plant in N.E. Region, held in Guwahati, 7-10<sup>th</sup> October 2004.
- (iv) Borthakur, M.K., Mahanta, R., Goswami, U.C., 2006: Lipid and protein peroxides as oxidative stress marks on sublethal malathion exposure. International Conference on Free Radicals and Antioxidants in health, Disease and radiation held in Kolkata, 16 – 18 January, 2006.
- (v) Borthakur, M.K., Ganguly, M., Devi, N. and Mahanta, R., 2006 : A study on the effect of *Daucus carota* leaf extract on estrous cycle of albino mice, 51<sup>st</sup> Annual Technical Session of Assam Science Society, held in IASST, Guwahati, 7<sup>th</sup> March, 2006
- (vi) Borthakur, M.K., Ganguly, M., Devi, N. and Mahanta, R., 2006 : Effect of *Cissampelos pareira* leaves on the reproductive physiology in female albino mice,

- INDO-US conference** on “New bioactive molecules in pharmaceutical research – Contribution of natural products” held in Hyderabad, 13-14 November,2006.
- (vii) Borthakur, M.K., Ganguly, M., Devi, N. and Mahanta, R., 2007: Antifertility effect of *Mimosa pudica* root in albino mice, 94<sup>th</sup> Indian Science Congress, held in Annamalai University, 3-7 January,2007
- (viii) Borthakur, M.K. and Mahanta, R., 2007:Effect of sublethal malathion on some biomarker enzymes and oxidative stress markers in *H. fossilis*, 94<sup>th</sup> Indian Science Congress, held in Annamalai University, 3-7 January,2007
- (ix) Borthakur, M.K. Kakoti, R.M.and Devi, M., 2011: Study of fish fauna and water quality of Morikalong beel, Nagaon, Assam. International seminar on bioresources and human sustenance held from 20<sup>th</sup> October to 22<sup>nd</sup> October,2011 at Cotton College, Guwahati.
- 15.** Seminar/conference/Symposium attended excluding paper presentation: ((Please indicate Name of the seminar, date or duration, organizer etc.)
- i. National seminar on problems and prospects in interlinking the Indian rivers organized by the Indian Science Congress Association, held in Gauhati University, Guwahati, 28<sup>th</sup> March,2005.
  - ii. Seminar on Development without destruction of the ecosystem in North East India, held in Cotton College,Guwahati, 29 November,2006
  - iii. National workshop on Green Chemistry practices and their application, held in Cotton, Guwahati, 1-4<sup>th</sup> April,2007
  - iv. National seminar on Biodiversity exploration & utilization of plant resources with special reference to North East India organized by North East Biotechnological Consortium, 18-19<sup>th</sup> December,2007.
  - v. 19<sup>th</sup> All India Congress of Zoology, held in Gauhati University, Guwahati from 29<sup>th</sup> to 31<sup>st</sup> December,2008.
  - vi. National Seminar on Bioresources of North East India, industrial potentials and intellectual property rights issues, held in Nowgong College, Nagaon, Assam, 2-3<sup>rd</sup> January,2009.

- vii. International Symposium on “Epigenetic Modifications of the Genome: Mechanisms and Implications” jointly organized by CCMB and ADNAT, during February 23-24, 2009

**16.** Details of Course attended ( Orientation /Refresher /any other course attended  
(Please indicate period, name of the university/institute where attended

- (i) Attended Orientation course from 31-05-2010 to 26-06-2010 at Academic Staff College, Himachal Pradesh University, Shimla
- (ii) Attended Refresher Course at Academic Staff College, North Eastern Hill University, Shillong from 28<sup>th</sup> November, 2011 to 18<sup>th</sup> December, 2011.
- (iii) Participated in a Certificate course on concept of GIS and GPS at Cotton College, Guwahati from July 31 to August 26, 2006
- (iv) Attended a Training course on Bioinformatics from 11<sup>th</sup> to 12<sup>th</sup> February, 2009 at Cotton College, Guwahati