

CURRICULUM VITAE of DR. DHRITI BANERJEE



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dhriti.banerjee@zsi.gov.in
3. Institution/affiliation: Zoological Survey of India.
Ministry of Environment, Forest and Climate Change. Govt. of India
Diptera Section, Praani Vigyan Bhavan, “M”Block, New Alipore,
Kolkata-700053
4. Date of Birth: February 06, 1970
5. Gender (M/F/T): Female
6. Category Gen/SC/ST/OBC: General
7. Whether differently abled (Yes/No): No.
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Res.: (033) 23708022; **Mobile : 09831147894**
Fax : Off. : 033-24006893, 2400-8595
9. Designation & : **Scientist “D”**
Research Experience : **24 + years**
10. Administration : Officer –In – Charge , Diptera Section
: Officer-In-Charge Photography Division.
: Scientist In –Charge and Co-ordinator IT,
Digitisation & Databasing.
: Head of Office, Zoological Survey of India
(2011-2015)

: D.D.O., Zoological Survey of India(1999-2010)

11. Research interests

: **Taxonomy, Molecular Systematics and Biodiversity of Diptera.**

: **Distribution, GIS Mapping and Climate Modelling of Flies (Diptera)**

: **Forensic Dipterology.**

: **Trophic interactions and community relationship in flies of varied ecosystems.**

: **Taxonomy, ecology, diversity of Pollinating, Predatory, Necrophagous and Vector Diptera.**

: **Haematology, Endocrinology & Biochemistry of murine models treated with commonly abused psychoactive, Schedule H drugs**

: **Physiology of drug abuse in human drug abusers.**

12. Unique Databases established

: **DIGITAL ZSI INITIATIVE**

1. **Fauna of India Digital library** : completed and uploaded as fauna.of.india.nic.in.

2. **ZSIFIS (Zoological Survey of India Faunal Information System)**

a. **Image Archival System for the Faunal Type specime** www.zsifis.nic.in.

b. **Web portal for GIS based distribution of fauna.** www.zsigis.in

c. **MIS (Management information System)** www.zsimis.nic.in

3. **ZSI Mobile APP for Protected Areas**

13. Supervision of Ph,D Programs :

6 Ph.D. scholars presently registered under **University of Calcutta**

14. PUBLICATIONS:

Number and details of papers published :

(A) Number of **papers published** = **100**

(i) No. of papers published in **National Peer Reviewed Journal** = **86**

(ii) No. of papers published in **International Peer Reviewed Journal** = 14

Cumulative **Impact Factor** = 24.445

Cumulative **NAAS Score** = 69.47.

(iii) **NCBI Accessions: 121**

(iv) **Abstracts in Conference /Symposiums: 11.**

(B). Number of Scientific Abstracts/Articles published in **Vernacular languages**

(Bengali) : 8

Number of **Books /Book Chapters published:**

Books published : 7

Book Chapters published and / press : 12

15. Academic Qualifications:

Exams passed	Name of the University/Board	Year of passing	Subjects Taken	Results with Division/Class	Percentage of marks obtained
B.Sc. (Hons.)	Calcutta University Presidency College	1991	Zoology (Hons.) Physiology, Chemistry (P) English (Addln.)	Ist	68.4% Ranked 3 rd in the Univ.of Cal.
M.Sc. (Zoology) <i>Encl.4</i>	Calcutta University Ballygunge Sc. College	1993	Zoology	Ist	68.4% Ranked 3 rd in the Cal .Univ.
Ph.D.	Kalyani University	1999	Zoology	Awarded	
National Eligibility Test (NET)	C.S.I.R.-U.G.C.	1995	Life Sciences	Awd.No.2- 21/95(I)/EU-II	Qualified for Fellowship & Lectureship

16. Work Experience:

Working in Zoological Survey of India, from 1998 onwards, and at present in the capacity of **Scientist "D"**.

Scientific Work Experience :

- 1. Conducting Field Surveys as team leader and team member for collection augmentation of the National Zoological Collection**
 - 2. Care, maintenance and development of National Zoological Collections of the Diptera Section**
 - 3. Conducting research on , morphology, taxonomy, systematics, faunal diversity ,distribution, zoogeography and ecology of the Diptera (Arthropoda) fauna of India.**
 - 4.. Survey, of the different states, ecosystems and protected areas for identification and inventorization of the Diptera (Arthropoda) fauna of India.**
 - 5.. Molecular characterization (DNA Barcoding) of species: Development of DNA Barcodes.**
 - 6.. Digitization of the Type Collections of ZSI and Launching of web portal for the Digital Faunal Archives Zoological Survey of India Faunal Information System (ZSIFIS).**
 - 7. Identification and advisory services rendered to Universities, and Research Institutes and Laboratories**
 - 8. Preparation of Technical / Scientific reports.**
 - 9. Reviewing of project proposals and scientific articles as a referee sent by the Administrative Ministry as well as for national/ international peer reviewed journals.**
 - 10. Supervision of Ph.D. programs and guiding departmental Research Fellows**
- Technical work experience:**
- 11. Establishment of Centre for DNA Taxonomy at the Headquarters.**
 - 12. Modernisation of Scientific Infrastructure of ZSI.**
 - 13. Implementation of e-Governance initiatives of Govt. of India through online procurement of Computers and IT peripherals for the ZSI Hqs. office.**
 - 14 . Digital ZSI : Launching of the ZSI Digital Library web portal faunaofindia.nic.in**
 - 15. Digitisation of rare and old documents of the Zoological Survey of India library and Computerisation of Library holdings of ZSI, Hqs., and Library.**

Administrative experience:

16. Officiating as the Head of Office of ZSI (2011)

17. Officiating as the the Officer-in –Charge, Diptera section, HQ.(2010-2018..)

18. Officiating as the Divisional in charge of Molecular Systematics Division. (2012-2015)

19. Officiating as the Scientist –in Charge of ZSI Library (2011-2016, contd.)

20. Officiating as the Scientist –in Charge of ZSI Photography Section (2011-2016 contd.)

21. Officiating as the the Scientist –in Charge of ZSI Stores and Stationary Section(2012-2015)

22. Attending Parliament questions

23. Attending different meetings for ZSI as a representative of DZSI at the MoEFCC and other organizations.

17. Research Projects Managed

17. Research Projects Managed :				
Sl. No.	Title of Project	Funding Agency	Duration	Total approx. Outlay in (Rs.)
1.	Faunistic study (Insecta:Diptera)of Arunachal Pradesh	ZSI, MoEFCC, GoI	1999-2001	3.00 Lakhs
2.	Faunistic study (Insecta:Diptera)of Uttarakhand	ZSI, MoEFCC, GoI	2002-2005	4.00 Lakhs
3.	Faunistic study (Insecta:Diptera)of UttarPradesh	ZSI, MoEFCC, GoI	2006-2009	4.00Lakhs
4.	Faunistic study (Insecta:Diptera)of Himachal Pradesh	ZSI, MoEFCC, GoI	2010-2014	4.5 Lakhs
5.	Investigating Diptera diversity in the Sonamukhi Protected Forest of West Bengal	ZSI, MoEFCC, GoI	2013-2016	7.2 Lakhs

6.	Taxonomic study on the family Tabanidae (Insecta:Diptera)of West Bengal	ZSI, MoEFCC, GoI	2013-2016	7 lakhs
7.	Fauna of Satkosia Tiger Reserve	ZSI, MoEFCC, GoI	2016-2018	9 Lakhs.
8.	Fauna of Assam	ZSI, MoEFCC, GoI	2017-2020	10 Lakhs.
7.	Photographic Digitisation Of The Faunal Type Specimens Of The National Zoological Collection . Funded By The Moefcc (IT).	IT Division MoEFCC, GOI	2015-2018	2.82 Crores.

18. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Fellowship	Awarding Agency	Year
1.	CIBA-GEIGY fellowship for doctoral research work. (Awd.No: HR/ras, 1994)	CIBA-GEIGY	1994
2.	LABONYA PROVA BOSE TRUST , Senior Research Fellowship. (Awd .No: LPBT/SS-1/95-96)	LABONYA PROVA BOSE TRUST	1995
3.	C.S.I.R.- U.G.C. Junior Research Fellowship (Awd.No: 2-21/95(1)/EU-II)	C.S.I.R.- U.G.C.	1995
4.	C.S.I.R. Senior Research Fellowship (Awd.No: 8/ISS(2)/96-EMR-I)	C.S.I.R.	1996

19. Major Awards/ Recognition at National / International Level
1991. National Scholarship for Post-graduate Studies by Ministry of Human Resource Development, Govt. of India.
1997. First prize (cash award) for AIDS awareness programme , Deptt. of Family and Social Welfare, Govt. of West Bengal.
1998. R.K.Sur Memorial Gold Medal for original unpublished work , Zoological Society.

1999. **Cash award** for standing 1st by , Rashtra Bhash Vibhag.

2003. **Golden Jubilee Commemorial Certificate of Distinction** awarded by **Presidency University** .

2018. “ **Exceptional Woman of Excellence**”, to be conferred by **Women’s Economic Forum ,18 , on International Womens Day, 2018, at The Hague, Netherlands.**

20. **Teaching Experience:**
1. Guest Faculty, as Lecturer in the Post-Graduate Deptt of Zoology, Presidency College, Calcutta. (1994-1998).
 2. Guest Faculty, as Lecturer in the Post-Graduate Deptt of Zoology, Rishi Bankim College , Univ. of Clacutta (1996-1998).

21.

Members of Learned Societies (International and National) if any

1. Indian Science Congress Association
2. Zoological Society
3. Indian Institute of Nature and Environment Sciences.
4. Vigyan Chetana Forum
5. Academy of Biodiversity Conservation
6. Name included in the database of Inst. Of Scientific Information Philadelphia, U.S.A.
7. Natural History Museum, London U.K.
8. New York Academy of Sciences, 1999.
9. Name included in the database of Marquis Who’s Who in the World
10. ALL INDIA LADIES LEAGUE, West Bengal Chapter
11. WOMENS ECONOMIC FORUM , India Chapter.
12. ROTARY CLUB AVYANNA, Rotary International .

21. Conferences/seminars/ Training Programs and Workshops:
Attended 45 Seminars, 25 Administrative meetings, and 10 Workshops.

22. Any other Information :

Co-Curricular Activities :

A. **Elocution** - Conducted The Statesman Voices Elocution Competition (Secondary and Higher secondary school levels) on Environmental Pollution.

B. **Museum write ups** - Prepared write ups for the different galleries in the Museum of Man and Environment in the Ramakrishna Mission School, Narendrapur, W.B.

C. **Voice over for some of the audio tracks** in the Museum of Man and Environment in the Ramakrishna Mission School, Narendrapur, W.B.

D. **Painting** - Won awards in competitions organized by Fevicryl

E. **Popular Scientific Articles (English)** - Written several such articles in Everyman's Science, published by Indian Science Congress Association.

F. **Popular Scientific Articles (Bengali)** - Written several such articles in vernacular (Bengali) on topics of medical importance in Swasthya Dipika

G. **Radio Talks** – Delivered talks on popular scientific topics aired by Akashbani, Kolkata

H. **Guest Lecturer** - Conducted classes in the P.G. Dept. of Zoology, presidency college and RBC College, Calcutta University.

I. **Scientific Talks:** Delivered Scientific talks on Taxonomy and Systematics in UG colleges, under the Calcutta University and on pollinating insects and flower visiting Diptera at seminars organized by several Higher Secondary Schools in and around at Kolkata.

J. **Comperer and Anchor** – Compered and anchored several Scientific Programs, Workshops and Training Programs, including the Centenary Program of the ZSI, in Kolkata and in MoEFCC, New Delhi.

**Dr. Dhriti Banerjee,
Scientist "D"**

ANNEXURE I

LIST OF PUBLICATIONS

(Updated on 28th February , 2018)

Total number of papers: 100.

Books: 7

Book Chapters: 19

International peer reviewed Journals (SCI Indexed): 14

National Peer reviewed Journals : 86.

NCBI Accessions: 121.

Abstracts: 22.

PAPERS

1994.

1. **A study of some blood parameters in chronic heroin smokers. *Medical Science Research* (England) 22:379-380 (with N.K.Sarkar). Impact factor: 0.384**

1995

2. **A study of hepatobiliary function in chronic heroin smokers. *Addiction Biology* (England) 1:197-200 (with N.K.Sarkar). Impact Factor: 5.359**
3. **Histological examination of the adrenal gland in mice following prolonged administration of buprenorphine, a synthetic opioid. *Journal of Bengal Natural History Society (New Series)* 14(2):3-14(with N.K.Sarkar).**

1996

4. **Differential leucocyte count in parasitized flying squirrel in Darjeeling. *Journal Of Bengal Natural History Society (New Series)* 15 (2):4-7 (with N.K.Sarkar and B.Dasgupta).**
5. **Histological examination of murine testis following buprenorphine treatment. *Indian Journal of Physiology and Allied Sciences* 50(2):70-79(with N.K.Sarkar).**

1997

6. **Haematological changes in buprenorphine treated mice. *Folia Biologica*(Poland)45:157-162(with N.K.Sarkar).**

Impact factor: 0.889.

- 7 ***In vivo and in vitro* characterization of the histamine releasing effect of buprenorphine. *Medical Science Research* (England) 25:717-718. (With J.Roy, and N.K.Sarkar).
Impact Factor: 0.384**
8. **Blood picture in parasitized bull frogs (*Ranatigrina*). *Journal of Bengal Natural History Society (New Series)* 16(2):40-44 (with J. Roy, S. Sil, and N. K. Sarkar).**
9. **An *in vitro* study of histamine – releasing action of buprenorphine, a synthetic opioid analgesic. *Journal of Bengal Natural History Society (New Series)* 16(2):4-10 (with J.Roy, and N.K.Sarkar).**

1998

10. **A report on *Haemoproteus* infection and associated blood picture in Indian bull frog (*Ranatigrina*). *Transactions of the Zoological Society of East India* 31(1): 12-18. (with J.Roy, and N.K.Sarkar).**
11. **A study of renal function in buprenorphine treated mice. *Journal of Bengal Natural History Society (New Series)* 16 (2): 40-44 (with N. K. Sarkar and S. P. Bhattacharya)**

1999.

12. **Buprenorphine –induced changes in serum cortisol levels in Swiss mice. *Transactions of the Zoological Society of East India* 3 (2): 43-48 (with N. K. Sarkar).**

2002.

13. **A report on Bee-flies (Bombyliidae: Diptera) from Arunachal Pradesh, India. *Pb. Univ. Res. Bull* (Sci) 52 (i-iv): 115-118 (with B. Mitra).**
14. **Diptera fauna of Balaram-Ambaji Wildlife and Jessore Sloth Bear sanctuaries, North Gujarat, India. *J. Interacademia*, 6 (4): 498-511 (with B. Mitra and P. Parui).**
15. **On the Diptera of Nayachar Island, West Bengal. *J. Bombay Nat. Hist.Soc.*, 99(2): 343-347. (with B. Mitra and P. Parui).
NAAS Score : 3.97**
16. **Bee-flies (Bombyliidae: Diptera) of the Thar desert. *Insect Environment*, 7 (4) : 190-191 (with B. Mitra).**

2003

17. **Insect pollinators of *Scaevola sericea* from South 24 Parganas, West Bengal** *Bionotes* **5 (4)**: 90. (with B. Mitra, K.Bhattacharjee , P. Parui , and A.Ghosh).
18. **First record of *Paragus bicolor*Fabr. from India (Diptera: Syrphidae).** *Bionotes* **5(2)**:34. (with B. Mitra, P. Parui , and M. Mukherjee).
19. **Soldier – flies from Arunachal Pradesh (Diptera: Stratiomyidae).** *Bionotes* **5(1)**: 15. (with B. Mitra, and M. Mukherjee).

2004

20. **On a collection of Diptera from Kalatop- Khajjiar Wild life sanctuary, Himachal Pradesh.** *Himalyan Chemical and Pharmaceutical Bulletin HCPB.*(21): 31-35(with B. Mitra, P. Parui and R. M. Sharma).
21. **Genera of Indian Bombyliidae.** *Bionotes* . **6(4)**: 112 (with B. Mitra).
22. **Diptera fauna of Chandigarh** *J. Interacademia.* **8 (3)**: 393-423(with B. Mitra, P. Parui and R.M. Sharma and H.S. Mehta).
23. **Some Bee-flies (Bombyliidae:Diptera)from Thar desert.** *Rec.Zool.Surv.India.*103 (1-2): 67-73(with B. Mitra).

2005

24. **Thrombocytopenic effect of buprenorphine in mice.** *Indian journal of Environment and Ecoplanning* **10(1)**:29-31(with N. K. Sarkar).
25. **First record of *Scatella stagnalis* (Fallén), (Ephydriidae: Diptera) from India.** *J. Bombay nat. Hist. Soc.***102**: 242(with B. Mitra and P. Parui).
NAAS Score : 3.97
26. **A report on flies (Diptera: Insecta) as flower visitors and pollinators of Kolkata and it's adjoining areas.** *Rec. Zool. Surv. India,* **105 (3-4)**:1-20 (with B. Mitra, K.Bhattacharjee , P. Parui , and M. Mukherjee).
27. **Insect diversity of Andaman and Nicobar Islands.** *Bionotes,* **7(3)**: 82-83(with B. Mitra, S. Chowdhury and R. M. Sharma).
28. **Studies on the Dipteran Pollinators of Medicinal Plants in India.** *Rec. Zool. Surv. India,* **104(3-4)**:23-39. (with B. Mitra, P. Parui, and A. Ghosh).

2006.

29. **Beeflies (Diptera:Bombyliidae) of the Western Ghats.** *Bionotes,* **8(2)**: 44-45(with B. Mitra,S. Roy and C. Dey).

31. **Diversity of bee-flies (Bombyliidae: Diptera) in India, Occ. Pap. No: 252. Rec. Zool. Surv. India** (with B. Mitra)
32. **Diversity of beflies(Bombyliidae: Diptera) in Uttaranchal. Annl. of Forestry,14(2): 297-305**(with B. Mitra and H. S. Mehta)
33. **Beeflies of Andaman & Nicobar Islands. Annl. of Entomology, 23(1-2):37-40** (with B. Mitra and H. S. Mehta)

2007

34. **Fly pollinators: Assessing their value in Biodiversity conservation and food security in India, Rec. zool. Surv. India,107(1): 33-48** (with B. Mitra)
35. **New Records of Beeflies from Andhra Pradesh. J. Exp. Zool. India, 10(2): 333-336** (with B. Mitra, S. Roy and M. Mukherjee).
NAAS Score : 4.63.
36. **A checklist of Tabanid flies (Tabanidae:Diptera) of Eastern Himalayas, India. J. Adv.Zoology, 38(2): 55-66** (with B. Mitra, S. Roy and M. Mukherjee).
37. **Fly pollinators: Assessing their value in Biodiversity conservation and food security in India, Rec. zool. Surv. India, 107(1): 33-48**(with B. Mitra)
38. **A comparative analysis of insect diversity of two protected areas sanctuaries of North Gujarat, India. Annl. Entomology 25(1-2): 35-50**(with B. Mitra, S. Roy and M. Mukherjee).

2008

39. **A check list of hover-flies (Diptera: Syrphidae) of the Eastern Himalayas. Rec. Zool. Surv. Ind., Occ. Pap. 284: 1- 47** (with B. Mitra, M. Mukherjee, K. Bhattacharya, and P. Parui)

2011

40. **New Records of two Hover-flies from Himachal Pradesh. 2011. Bionotes 14(4): 132.** (with K. Bhattacharya and P. Parui,)
41. **A report on the bioecology of the Giant Red Bug, *Macroceroea(Lohita)grandis* (Gray)(Family:Pyrrhocoridae) and its conservation in the Bibhutibhusan Wildlife Sanctuary, Parmadan, West Bengal.The Indian Forester,137(6): 739-743** (with B. Mitra, and R. S. Mridha)

42. *Sphaeniscus quadrincisus*(Wied.), a new record of fruit-fly from Himachal Pradesh. *Rec. Zool. Surv. Ind.*, 111(Part-4): 99-100 (with K. K. Bhattacharya, and P. Parui)

2012

43. Check List of Soldier Flies from India (Insecta: Diptera: Stratiomyidae) zsi.gov.in/check_list.html (with K. K Bhattacharya, T. K Mondal and P. Parui).
44. Check List of Bot Flies from India (Insecta: Diptera: Oestridae). zsi.gov.in/check_list.html(with K. K. Bhattacharya)
45. Check List of Indian Drosophilidae (Insecta: Diptera: Drosophilidae) zsi.gov.in/check_list.html (with A. Naskar, K. K. Bhattacharya)
46. Three Dipteran Pollinators of Apple Tree from Chambaghat, Solan Dist., Himachal Pradesh. *Bionotes*, 14(3): 90 (with K.K Bhattacharya, T.K.Mondal and P/Parui).
47. Pollinating Diptera from Sunderban, West Bengal. *Bionotes*, 14(4): 114 (with R. S. Mridha, K. Ilango and K. Bhattacharya)

2013

48. Fruit-Flies (Diptera: Tephritidae) from North-East India. 2013. *Rec. zool. Surv. India*: 113(1):151-157. (with Bhattacharya K K, Parui ,P.)
49. Additional records of Fruit flies from India. 2013. *Rec. zool. Surv. India*: 113(1):159-168. (with Bhattacharya K K, Parui P).
50. Checklist of Indian Crane flies (Insecta: Diptera: Tipuloidea).2013. <http://www.zsi.gov.in>. (with Naskar A, Hazra S,Parui P)
51. Checklist of Scuttle flies (Insecta: Diptera: Phoridae). (2013). <http://zsi.gov.in> (with Chakraborty A, Naskar A, Hazra S, Maity A)
52. Prevalence of midges: potent vectors of Bluetongue virus infection in West Bengal. *Advances in Animal and Veterinary Sciences*. 2013. 1(4S) 45-50 (with Halder A, Joardar S. N, Parui P, Kumar V, Samanta I and Lodh C.)

2014

53. **Checklist of Indian black scavenger flies (Insecta: Diptera: Sepsidae).** 2014. [http://zsi.gov.in/\(with](http://zsi.gov.in/(with) Chakraborty A, Naskar A, Hazra S, Maity A)
54. **Indian louse flies (Insecta: Diptera: Hippoboscidae).** 2014. <http://zsi.gov.in/> (with Maity A, Naskar A, Mitra S, Chakraborty A, Hazra S.)
55. **New Records of fruit flies (Diptera: Tephritidae) from Renuka Wetland and Wildlife Sanctuary, Himachal Pradesh.** *Rec. zool. Surv. India* 113(Part-3):1-5, 2013. (with K. Bhattacharya, S. Halder)
56. **The first report of the life cycle of *Sarcophaga (L) dux* on dead reptilian carcass: Their application as forensic indicators.** *Sch. Acad. J. Biosci.*, 2014; 2(11): 731-739 (with Abesh Chakraborty, Waliza Ansar, Shyamasree Ghosh.)
57. **Taxonomic studies on *Culicoides* spp. in India, vector for bluetongue virus: gaps, challenges and opportunities..** *Proceedings of the International Training Programme on Bluetongue Vector Identification.* 2014: 22-23. The Pirbright Institute , UK (with Kumar, V)

2015

58. **DNA barcoding of *Nilssonia* congeners corroborates existence of wild *N. nigricans* in northeast India.** *Mitochondrial DNA*. 2015, Early Online: 1-4 (with Kundu S., Laskar B., Venkataraman K., Kumar, V.)
Impact Factor: 1.209
59. **DNA Barcoding reveals host associate genetic diversity of Tea Mosquito Bug *Helopeltis theivora* (Miridae: Heteroptera) from India.** *J. Asia Pacific Entomology* . 2015, 18(3): 541-545 (with Chandershekhar, K. N., Banerjee, D., Kundu, S., Ghosh, B., Tyagi, K., Kumar, V).
Impact Factor: 0.95.
60. **Identification through DNA barcoding of Tabanidae (Diptera) vectors of surra disease in India.** *Acta Tropica* 2015, 150 :52-58 (with V. Kumar, A. Maity, B. Ghosh, K. Tyagi, D. Singha, S. Kundu, B. Laskar, A. Naskar, S. Rath)
Impact Factor: 2.270.

61. **A checklist of Indian March Flies (Insecta: Diptera : Bibionidae).** *zsi.gov.in/App/*. (With Mukhopadhyay E, Naskar A, Hazra S, Maity A, Sengupta J, Parui P.)
62. **Tabanid flies (Insecta: Diptera) from Chattisgarh, India.** *Journal of Threatened Taxa.* **2015,7(10) :7720-7725.**(with Chandra, K. Halder, S., Parui, P., Raha, A).
NAAS Score: 4.72
63. **Medical and Veterinary Entomology: The good and bad flies that affect human lives.** *Sch J Agric Vet Sci* **2015; 2(3B):220-239** (with S. Ghosh , W. Ansar.)
64. **A checklist of Indian Thick headed Flies (Insecta: Diptera : Conopidae).** *zsi.gov.in/App/* (with Mukhopadhyay E, Naskar A, Hazra S, Maity A, Sengupta J, Parui P)
65. **A checklist of Indian big headed flies (Insecta: Diptera : Pipunculidae).** *zsi.gov.in/App/* Maity A, Mukhopadhyay E, Naskar A, Hazra S, Sengupta J, Parui P.
66. **Checklist of long legged fly (Insecta:Diptera:Empidoidea:Dolichopodidae) of India.** *IOSR J. of Pharmacy and Biological Sciences.*2015: 10(5,ver-II),87-108. (with A. Chakraborty and P. Parui)
67. **Taxonomic studies on Tabanidae (Insecta: Diptera) from Himachal Pradesh, India.** *International Journal of Fauna and Biological Studies.* 2 (4): 43-52 (with Maity A, Naskar A, Mukhopadhyay E, Hazra S, Sengupta J)
68. **Developmental analysis of immature stages of *Sarcophaga albiceps* (Meigen,1820) on *Gallus gallus* carcass: their application as forensic indicators.** *IOSR J. of Agriculture and Veterinary sciences.* 2015;8(8,Ver II): 79-89. (With A. Chakraborty, S Ghosh and W. Ansar)
69. **Thermophilic pupal endoparasitoids: *Brachymeria minuta*(Hymenoptera: Chalcididae) On Forensic Indicator *Sarcophaga(Parasarcophaga) albiceps.*** *Prommalia.*2015. Vol. III:84=95(With A. Chakraborty, S Ghosh and W. Ansar)

70. **Detection of bluetongue virus vector and characteristics in Jharkhand.** P.Tigga, S.N. Joardar, D. Banerjee, I. Samanta, D.P. Isore, K. Batabyal And S. Dey *Indian J. Anim. Hlth.* (2015), 54(1) : 9-16. NAAS score: 2.08
71. **Fruit-flies (Insecta: Diptera: Tephritidae) of Chhattisgarh.** S. Halder, K. Bhattacharya, P. Parui, K. Chandra and D. Banerjee. *Rec. Zool. Surv. Ind.* 2016; 115 (4): 385-389.
72. **Seroepidemiology of bluetongue in South Bengal.** Halder A, Joardar SN, Isore DP, Samanta I, Parui P, Banerjee D, Lodh C. *Veterinary World.* 2016; 9(1): 1-5.
NAAS score : 5.10
73. **New Records of Bee-Flies from Chhattisgarh, India (Diptera: Bombyliidae)** Sumana Halder, P. Parui, Dhriti Banerjee and Kailash Chandra. *Munis Entomology and Zoology.* 2016; 11(2).
74. **Redescription of *Bengalia siamensis* Senior-White, (Diptera, Calliphoridae) from the collection of H.S.Pruthi.** Shuvra Kanti Sinha & Dhriti Banerjee. *Biosystematica*, 2015, 9 (1&2): 5-10.
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99. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *a thripid*, partial sequence from *thripid*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840092**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
100. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Selenothrips rubrocintus*, partial sequence from *Selenothrips rubrocintus*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840091**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).

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102. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Lefroyothrips lefroyi*, partial sequence from *Lefroyothrips lefroyi*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840089**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
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104. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Haplothrips sp.*, partial sequence from *Haplothrips sp.*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840087**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
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109. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Frankliniella sp.*, partial sequence from *Frankliniella sp.*: DNA Barcoding of thrips of India. Nucleotide sequence accession number

- KF840082**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
110. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Frankliniella schultzei*, partial sequence from *Frankliniella schultzei*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840081**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
111. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Frankliniella intonsa*, partial sequence from *Frankliniella intonsa*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840080**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
112. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Astrothrips tumiceps*, partial sequence from *Astrothrips tumiceps*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840079**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
113. Venkataraman, K., Tyagi, K., Ghosh, B., Singha, D., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Aduncothrips sp.*, partial sequence from *Aduncothrips sp.*: DNA Barcoding of thrips of India. Nucleotide sequence accession number **KF840078**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
114. Venkataraman, K., Ghosh, B., **Banerjee, D.** and Kumar, V. 2013. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Bos gaurus*, partial sequence from *Bos gaurus*: DNA Barcoding of Mammals of India. Nucleotide sequence accession number **KF808255**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>).
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116. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Muscadomestica*. (Diptera: Muscidae). Nucleotide sequence accession number **KC427132**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>) (with K. Venkataraman and Vikas Kumar).

117. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Dryomyzaformosa*. (Diptera: Dryomyzidae). Nucleotide sequence accession number **KC427131**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>) (with K. Venkataraman and Vikas Kumar).
118. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Dryomyzaformosa*. (Diptera: Dryomyzidae). Nucleotide sequence accession number **KC427130**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>) (with K. Venkataraman and Vikas Kumar).
119. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Bengaliatorosa*. (Diptera: Calliphoridae). Nucleotide sequence accession number **KC427129**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>) (with K. Venkataraman and Vikas Kumar).
120. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Bengaliatorosa*. (Diptera: Calliphoridae). Nucleotide sequence accession number **KC427128**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>) (with K. Venkataraman and Vikas Kumar).
121. Partial cds of mitochondrial cytochrome oxidase I (mtCOI) gene from *Tabanus sp.* (Diptera: Tabanidae). Nucleotide sequence accession number **KC427127**. Sequence publication in National Centre for Biotechnological Information (NCBI), GenBank Database, USA. (<http://www.ncbi.nlm.nih.gov>) (with K. Venkataraman and Vikas Kumar).

Abstracts published in National Symposiums /Seminars/Conferences.

Total Number of Abstracts Published: 22.
(Updated on 28th February , 2018)

2018.

1. Mukhopadhyay E, Hazra S, Saha Kumar G, and Banerjee D (2018). **Distribution and Diversity mapping of the disease causing Oriental biting midges of the genus *Culicoides* (Diptera: Ceratopogonidae)**. Poster session presented at International Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramkrishna Mission, Kolkata.
2. Sengupta J, Naskar A, Homechaudhuri S, and Banerjee D (2018). **Conservation of wetland implements conservation of species diversity: a case study on diversity of dipteran flies from Renuka wetland, Himachal Pradesh, India**. Poster session presented at International

Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramkrishna Mission, Kolkata.

3. Maity A, Naskar A, Homechaudhuri S, and Banerjee D (2018). **Taxonomic accounts and seasonal variation in spatial diversity and relative abundance pattern of Horseflies (Diptera: Tabanidae) from dry deciduous landscape of Sonamukhi protected forest area, West Bengal, India.** Poster session presented at International Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramkrishna Mission, Kolkata.
4. Naskar A, Maity A, Homechaudhuri S, and Banerjee D (2018). **Impacts of predatory robber flies (Insecta: Diptera: Asilidae) on insect fauna across high altitudinal landscape of himalayas.** Poster session presented at International Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramkrishna Mission, Kolkata.

2017.

1. Impact of predation of robber flies (Insecta: Diptera: Asilidae) on insect fauna across the dry deciduous forest landscape of Sonamukhi Protected forest, Bankura, West Bengal, India. Naskar A and Banerjee D. **Book of Abstracts. National Seminar on “Spare the Nature, Make the Earth Green.”** (2017).
2. Relative abundance pattern and seasonal variation of Horse flies (Insecta: Diptera: Tabanidae) across the Central Himalayan Landscape: a case study from Darjeeling Himalaya. Maity A and Banerjee D. **Book of Abstracts. National Seminar on “Spare the Nature, Make the Earth Green.”** (2017).
3. The effect of ecotone and seasonal variation on the diversity, distribution and species abundance of Culicoides biting midges (Insecta: Diptera: Ceratopogonidae) between the alluvial plains and red laterite zones of Bankura, West Bengal, India. Mukhopadhyay E and Banerjee D. **Book of Abstracts. National Seminar on “Spare the Nature, Make the Earth Green.”** (2017)
4. Relative abundance and seasonal variation of Hover fly (Insecta: Diptera: Syrphidae) species composition, across the dry deciduous forest ecosystem: a case study in the Sonamukhi Protected Area, Bankura, West Bengal, India. Sengupta J and Banerjee D. **Book of Abstracts. National Seminar on “Spare the Nature, Make the Earth Green.”** (2017).
5. Topographical Pattern of Hover fly (Insecta: Diptera) distribution along an altitudinal gradient: Inconsistency in environmental factors and latitudinal trends. Sengupta J, Naskar A, Maity A,

Hazra S, Hore G and Banerjee D. **Book of Abstracts. National Seminar on “Recent Advance In Biological Sciences.”** (2017).

6. **Records of some forensically important domestic cat (*Felis catus*) carcass from West Bengal, India. Book of Abstracts.** Hore G, Parui P, Ansar W, Sengupta J, Saha G and Banerjee D. **Book of Abstracts. National Seminar on “Recent Advance In Biological Sciences.”** (2017).

7. **Altitudinal variation and bioclimatic factors predicting the potential distribution of *Culicoides orientalis* Macfie, 1932 (Insecta: Diptera: Ceratopogonidae) across the North eastern Himalayan belt of Sikkim.** Mukhopadhyay E and Banerjee D. **Book of Abstracts. National Seminar on “Recent Advance In Biological Sciences.”** (2017).

2015. **Ecological factors favouring hover – fly (Diptera: Syrphidae) populations in the Eastern Himalayas.** Satyaki Dutta, Jayita Sengupta, Atanu Naskar, Aniruddha Maity, Vikas Kumar, Nirmal Kumar Sarkar and Dhriti Banerjee. 2015. *Proceedings of the Environmental Impact On Biodiversity and Plant development Organized by Department of Biotechnology and Dept. of Biological Sciences, Presidency University.*

2014. **Diversity of Diptera along an altitudinal gradient in the Himalayas: a case study in the Kalatop-Khajiar wild life sanctuary, Himachal Pradesh.** Sengupta J, Maity A, Ansar W, Naskar A, Hazra S, Ghosh S, Sarka NK and Banerjee D. *Evolution: Molecules to Life* 83rd Annual Meetings of Society for Biological Chemists (I) 18th to 21st December 2014. P-20-009. Environmental Biology, pp 5.

2014. **Biology, Ecology, Evolution, Taxonomy and Biochemical study of *Tabanus striatus*: A vector of medico-veterinary importance.** Maity A, Ansar W, Ghosh S, Naskar A, Hazra S, Kumar V and Banerjee D. *Evolution: Molecules to Life*, 83rd Annual Meetings of Society for Biological Chemists. (I). 18th to 21st December 2014 (P-20-006. Environmental Biology, pp 3.)

2013. **Biodiversity loss due to climate change on Sundarban: the largest mangrove forest in India.** Mridha R S, Naskar A and Banerjee D. 2013. *World Biodiversity Congress 2013*, Thailand.

2012. **New record of Fruit-flies (Diptera: Tephritidae) from Ladakh.** *National Biodiversity Congress-India 2012.* Bhattacharya, K. K., Naskar, A., Ghosh, B. and Banerjee, D.

2012. **Diversity and Systematic accounts of Calliphoridae (Insecta: Diptera) in Sunderbans, West Bengal, India.** *National Biodiversity Congress-India 2012.* (with Mridha, R. S., Naskar, A. and Parui, P).
2003. **Faunal diversity of Bee-flies(Bombyliidae:Diptera) along an altitudinal gradient in the hills of north-east, India.** *Natn. Symp. On assessment & management of bioresources.* Univ North Bengal, West Bengal (with P.Parui and B. Mitra).
2002. **Studies on a collection of bee-flies (Bombyliidae: Diptera) from Arunachal Pradesh.** *Proc. of the 89th Indian Science Congress,* (with Sil, M. and K. Bhattacharya)
1995. **A study of hepatobiliary function in chronic heroin smokers,** *Proc. of the Young Scientist Programme of the 82nd Indian Science Congress.*
1995. **A study of serum proteins in chronic heroin smokers,** *Proc. of the 82nd Indian Science Congress*(with N. K. Sarkar)
1995. **Drug Addiction: an Antithesis to human resource development –Haematologists point of view on the problem of applied human ecology.** *Proc .of the National Symposium on the Perspectives in Biodiversity.* (with N. K. Sarkar)

ANNEXURE II

(List of Books/Book chapters)

(Updated on 28th February , 2018)

BOOKS

1. ***The Museum of Man and Environment.* 2002.** Publ. Ramakrishna Mission, Narendrapur, West Bengal **Eds:** S.K.Das (with B.Mitra)
2. ***Wetland Ecosystem -- A Field Guide,* 2005** Publ. DPM Publishing House, Kolkata. Eds. S.K.Das (with B. Mitra.)
3. ***Mangrove Ecosystem – A Field Guide,* 2005.** Publ. DPM Publishing House, Kolkata Eds.S.K.Das (with B. Mitra.)

4. *A pictorial handbook of flower visiting flies of Kolkata and its adjoining areas.* 2008. Eds: Director, ZSI. Publ. *Zoological Surv. India.* (with B.Mitra, M.Mukherjee, K.Bhattacharya, and P. Parui).
5. *A pictorial handbook of some Diptera from the Chamba district of Himachal Pradesh.* Eds: Director, ZSI. 2015:1-44.. Publ.*Zoological Surv. India.*(with G.Srinivasan and P. Parui).
6. **The Glorious 100: Women's Scientific Contribution in ZSI. 2015.** Eds: Director, ZSI. 1-298 , Publ .*Zool. Surv. Ind.* (with D. Dam and N.Saha.)
7. **Genotypic data of Indian Fauna. Series 1.** 2016. Publ .*Zool. Surv. Ind.*(with V.Kumar, S.Kundu, B.Laskar, K.Tyagi and K.Venkataraman . **(In Press)**)

BOOK CHAPTERS.

8. Aquatic dipteran diversity in India : *In Advancements in Insect Biodiversity.* 2003. Publ. Agrobios (India), Jodhpur:169-183 (with Parui, P, Banerjee, D and Mitra, B).
9. Insecta:Diptera:Bombyliidae: In *Fauna of Arunachal Pradesh : State Fauna series* 2006.13:283-295.Publ.*Zool . Surv. India.* (with B. Mitra)
10. Insecta:Diptera:Bombyliidae, In:*Fauna of Uttarakhand : State Fauna Series,* 2010.18(2):425-435, Publ .*Zool. Surv. Ind.* (with B. Mitra)
11. Insecta :Diptera:Sarcophagidae, *Fauna of Uttarakhand:State Fauna Series* 2010,8(2):443-456, Publ. *Zool. Surv. Ind.* (with B. Mitra, and M. Sil)
12. Insecta: Diptera: Brachycera: In *Fauna of Arunachal Pradesh:State Fauna series,*2006. 13:257-281.Publ. *Zool. Surv. India* (with B. Mitra and P. Parui)
13. Diversity and distribution of true flies (Insecta: Diptera) in Andaman and Nicobar Islands: In *Recent Trends in Biodiversity of Andaman and Nicobar Islands. Eds. Ramakrishna et. al.* Pub: Zoological Survey of India.2010:pp 467-493. (with B. Mitra and P. Parui)
14. Insecta:Diptera:Bombyliidae, In:*Faunal Inventory of UttarPradesh.* Eds. Hegde , V.D. and Venkataraman, K. ,2014: 243-264. Publ .*Zool. Surv. Ind.* (with B. Mitra and P.Parui)

and ors.)

15. Insecta:Diptera:Bombyliidae, In:***Fauna of UttarPradesh : State Fauna Series, 2016*** (in press) , Publ .*Zool. Surv. Ind.* (with B. Mitra)
16. Insecta: Diptera In:***Fauna of Himachal Pradesh. : State Fauna Series, 2016. (in press)*** Publ .*Zool. Surv. Ind.* (with A. Naskar and P. Parui.)
17. Animal Resources of India Protozoa to Mammalia: **Insecta: Diptera. State of Art Report. Dhriti Banerjee, 2014 (Accepted)**
18. Banerjee D, Naskar A Sengupta J, Hazra S, Mridha R and Parui P (2017). Insecta: Diptera. ***In: Current status of fresh water faunal diversity in India.*** (Eds. Dr. Kailash Chandra, K.C. Gopi, D.V. Rao, K. Valarmathi and J.R.B Alfred), Director, *Zool. Surv. India.* Kolkata, India: Chapter **30** 467-485.
19. Sengupta J, Naskar A and Banerjee D 2017. Insecta: Diptera , ***In Faunal Diversity Kalatop-Khajjiar Wildlife Sanctuary, District Chamba, Himachal Pradesh.*** (Eds. Dr. Kailash Chandra) Director, *Zool. Surv. India.* Kolkata, India: Chapter **5:** 31-58.

ANNEXURE III

LIST OF PUBLICATIONS in VERNACULAR.

(Updated on 28th February , 2018)

Abstracts/ Publications/Presentations Made in Vernacular (Bengali)

2015. **Biodiversity of Sunderban Mangroves : an *Integrated coastal zone management programme (ICZMP, MAARC Digha)*** sponsored by World Bank... ***in Bengali***
2013. Mangroves of Sunderban: at ***Integrated coastal zone management programme (ICZMP, MAARC Digha)*** sponsored by World Bank..... ***in Bengali***

1999. An experimental study on gastrointestinal food propulsion in buprenorphine treated mice. *Proc. Of the Fifth West Bengal State Science and Technology Congress* (with N. K. Sarkar)... *in Bengali*
1998. An assessment of renal function in buprenorphine treated mice *Proc. of the Fourth West Bengal State Science Congress* (with N. K. Sarkar)... *in Bengali*
1997. Serum Activities of Amino transferases and serum albumin globulin ratio in buprenorphine treated mice. *Proc. of the Fourth West Bengal State Science Congress* (with N. K. Sarkar and S. P. Bhattacharya)..... *in Bengali*
1997. Buprenorphine effects testicular function *Proc. of the Fourth West Bengal State Science Congress* (with N. K. Sarkar and A. Datta).... *in Bengali*
1997. Investigations of histamine releasing action of buprenorphine. *Proc. of the Fourth West Bengal State Science Congress* (with J. Roy and N. K Sarkar). *in Bengali*
1996. Haematological effects of buprenorphine – an experimental study in mouse. *Proc. of the Third West Bengal State Science Congress* (with N. K. Sarkar)..... *in Bengali*
1994. Estimation of some blood compounds for assessment of kidney function in chronic heroin smokers. *Proc. of the First West Bengal State Science Congress* (with N. K. Sarkar)..... *in Bengali*