

DR. SANDIPAN GUPTA

M.Sc., M. Phil., Ph.D., Post-Doc.

H.O.D. and Assistant Professor

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Specialization: Fish Biology, Fish Diversity, Ornamental Fish

ACADEMIC DETAILS

2013-2017: Post-doctoral research on “Assessment of spawning behavior of major fish species in inland environment with a view to harness the beneficial effects of temperature” from ICAR- Central Inland Fisheries Research Institute, Barrackpore, Kolkata.

2013: PhD in Zoology on the topic “Distribution, trade, biology and conservation of indigenous ornamental ichthyofaunal resources of some districts of South Bengal, India” from University of Calcutta.

2006: M.Phil. in Fisheries Technology from University of Calcutta (secured first position in the university).

2005: M. Sc. in Zoology from University of Calcutta (with 72.8% marks; top ten rank holders in the university).

2003: B.Sc. in Zoology from Presidency College, University of Calcutta (with 63.37% marks).

2000: Higher Secondary (with 87.5% marks; district topper of South Dinajpur).

1998: Secondary (with 85.5% marks).

FELLOWSHIP AWARDED

2008-2013: Award of the UGC- Research Fellowships in Science for Meritorious Students under SAP supported departments.

AREAS OF RESEARCH INTEREST

- Indigenous Ornamental Fish; Ornamental Fish Trade
- Fish diversity, assemblage and conservation
- Fish biology
- Aquatic ecology
- Impact of climate change on aquatic resources; Adaptation and mitigation measures; Climate Resilient Agriculture
- Aquaculture
- Mosquito bio-control

REVIEWER IN JOURNALS

- Biologia (**Springer**)
- Aquaculture (**Elsevier**)
- Aquaculture Reports (**Elsevier**)
- Environment, Development and Sustainability (**Springer**)
- North American Journal of Aquaculture (**Taylor and Francis**)
- Archives of Polish Fisheries
- Journal of Arthropod Borne Diseases
- Zoology and Ecology (**Taylor and Francis**)
- Iranian Journal of Ichthyology
- International Journal of Aquatic Biology
- Egyptian Journal of Aquatic Research (**Elsevier**)
- Biodiversitas, Journal of Biological Diversity
- Proceedings of the Zoological Society (**Springer**)
- Fisheries and Aquatic Sciences

- Asian Fisheries Science Journal

RESEARCH PUBLICATIONS/ REVIEW ARTICLES (Google Scholar Citations 596 till 13.07.2021)

1. **Gupta, S. 2020.** Reviews on the biology and culture of Silver Pomfret, *Pampus argenteus* (Euphrasen, 1788). *International Journal of Aquatic Biology*. 8(4): 228-245.
2. Dhar, R.; Pethusamy, K.; Singh, S.; Mukherjee, I.; Seethy, A.; Sengupta, B.; Srivastava, T.; Sarkar, S.; Mandal, V.; Karmakar, M.; **Gupta, S.**; Ghosh, A. and Karmakar, S. **2019.** Draft genome of *Ompok bimaculatus* (Pabda fish). *BMC Research Notes (Springer)*. 12: 825. DOI: 10.1186/s13104-019-4867-y
3. Sarkar, U.K.; Naskar, M.; Srivastava P.K.; Roy, K.; Sarkar, S.D.; **Gupta, S.**; Bose, A.K.; Nandy, S.K.; Verma, V.K.; Sudheesan, D. and Karnatak, G. **2019.** Climato-Environmental influence on breeding phenology of native catfishes in river Ganga & modeling species response to climatic variability for their conservation. *International Journal of Biometeorology (Springer)*. 63(8): 991-1004. DOI: 10.1007/s00484-019-01703-3
4. Sarkar, U.K.; Roy, K.; Naskar, M.; Srivastava P.K.; Bose, A.K.; Verma, V.K.; **Gupta, S.**; Nandy, S.K.; Sarkar, S.D.; Karnatak, G.; Sudheesan, D. and Das, B.K. **2019.** Minnows may be more reproductively resilient to climatic variability than anticipated: synthesis from a reproductive vulnerability assessment of Gangetic pool barbs (*Puntius sophore*). *Ecological Indicators (Elsevier)*. 105:727-736. DOI: 10.1016/j.ecolind.2019.03.037
5. Bose, R.; **Gupta, S.**; Das, A.K.; Suresh, V.R. and Bose A.K. **2019.** Traditional fishing crafts and gears of Madhya Pradesh, India. *International Research Journal of Biological Sciences*. 8(3): 29-36.
6. **Gupta, S. 2018.** Biology of Gangetic Leaf Fish, *Nandus nandus* (Hamilton, 1822): A Review. *Journal of Biodiversity & Endangered Species*. 6(3): 221. DOI: 10.4172/2332-2543.1000221
7. **Gupta, S.2018.** A review on feeding and reproductive biology of *Ompok pabda* with an emphasis on its conservation. *Journal of Aquaculture Research and Development*. 9(2): 525. DOI: 10.4172/2155-9546.1000525
8. Karnatak, G.; Sarkar, U.K.; Naskar, M.; Roy, K.; **Gupta, S.**; Nandy, S.K.; Srivastava, P.K.; Sarkar, S.D.; Sudheesan, D.; Bose, A.K. and Verma, V.K. **2018.** Understanding the role of climatic and environmental variables in gonadal maturation and spawning periodicity of spotted snakehead, *Channa punctata* (Bloch, 1793) in a tropical floodplain wetland, India. *Environmental Biology of Fishes (Springer)*. 101: 595. DOI: <https://doi.org/10.1007/s10641-018-0722-6>
9. Sarkar, U.K.; Naskar, M.; Roy, K.; Sudheesan, D.; **Gupta, S.**; Bose, A.K.; Srivastava, P.K.; Nandy, S.K.; Verma, V.K.; Sarkar, S.D. and Karnatak, G. **2018.** Baseline information of reproduction parameters of an amphidromous croaker *Johnius coitor* (Hamilton, 1822) from Ganga river basin, India with special reference to potential influence of climatic variability. *Aquatic Living Resources*. 31: 4. DOI: <https://doi.org/10.1051/alr/2017042>
10. Sarkar, U.K.; Naskar, M.; Roy, K.; Sudeeshan, D.; Srivastava, P.K.; **Gupta, S.**; Bose, A.K.; Verma, V.K.; Sarkar, S.D.; Karnatak, G. and Nandy, S.K. **2017.** Benchmarking pre-spawning fitness, climate preferendum of some catfishes from river Ganga and its proposed utility in climate research. *Environmental Monitoring and Assessment (Springer)*. 189(10): 491. DOI: <https://doi.org/10.1007/s10661-017-6201-2>
11. Bose A.K.; Bose, R.; **Gupta, S.** and Das, A.K. **2017.** Dovali, the tribal fishing practice in river Narmada, MP, India. *International Research Journal of Biological Sciences*. 6(9): 26-30.
12. Bose A.K.; Bose, R. and **Gupta, S. 2017.** 'Kunche Jal' Fishing: A low cost indigenous fishery in Ganga River basin. *International Journal of Fisheries and Aquatic Studies*. 5(4): 87-90.

13. Bose A.K.; Ridhi; **Gupta, S.**; Suresh, V.R. and Das, A.K. **2017**. Indigenous fishing (*Char Kanta*): A traditional fisheries in River Tawa, Madhya Pradesh, India. ***International Journal of Fisheries and Aquatic Studies***. 5(3): 265-268.
14. **Gupta, S.** and Banerjee, S. **2017**. Food, feeding habit and reproductive biology of freshwater garfish, *Xenentodon cancila* (Hamilton, 1822): a short review. ***International Journal of Fisheries and Aquatic Studies***. 5(1): 423-427.
15. **Gupta, S.** and Banerjee, S. **2016**. A short review on the biology of Tiger Perch, *Terapon jarbua* (Forsskål, 1775). ***International Journal of Research in Fisheries and Aquaculture***.6(2): 79-83.
16. **Gupta, S.** and Banerjee, S. **2016**. *Eutropiichthys vacha* (Hamilton, 1822), a threatened fish of Indian subcontinent. ***Journal of Fisheries***. 4(2): 397-400. DOI: dx.doi.org/10.17017/jfish.v4i2.2016.142
17. **Gupta, S.**; Dubey, S.K.; Trivedi, R.K.; Chand, B.K. and Banerjee, S. **2016**. Indigenous ornamental freshwater ichthyofauna of the Sundarban Biosphere Reserve, India: Status and prospects. ***Journal of Threatened Taxa***. 8(9): 9144–9154.
18. **Gupta, S.** **2016**. A note on feeding and reproductive biology of one-stripe spiny eel, *Macrogathus aral* (Bloch and Schneider, 1801). ***International Journal of Research in Fisheries and Aquaculture***. 6(2): 32-34.
19. **Gupta, S.** and Banerjee, S. **2016**. A note on *Clupisoma garua* (Hamilton, 1822), a freshwater catfish of Indian subcontinent (Teleostei: Siluriformes). ***Iranian Journal of Ichthyology***. 3(2): 150-154.
20. **Gupta, S.** and Banerjee, S. **2016**. Food, feeding habit and reproductive biology of tire-track spiny eel (*Mastacembelus armatus*): A review. ***Journal of Aquaculture Research and Development***. 7(5): 429. DOI: 10.4172/2155-9546.1000429
21. **Gupta, S.** and Banerjee, S. **2016**. A review on feeding and reproductive biology of *Cirrhinus reba* (Hamilton, 1822), a threatened freshwater fish of Indian subcontinent with an emphasis on its conservation. ***Fisheries and Aquaculture Journal***. 7:170. DOI: 10.4172/2150-3508.1000170
22. **Gupta, S.** **2016**. Feeding and reproductive biology of *Macrogathus pancalus* (Hamilton, 1822), an indigenous fish species of Indian subcontinent: A Review. ***International Journal of Research in Fisheries and Aquaculture***.6(1): 8-12.
23. **Gupta, S.** **2016**. *Pangasius pangasius* (Hamilton, 1822), a threatened fish of Indian subcontinent. ***Journal of Aquaculture Research and Development***. 7(2): 400. DOI: 10.4172/2155-9546.1000400
24. **Gupta, S.** **2016**. An overview on Indian Glassy Fish, *Parambassis ranga* (Hamilton, 1822). ***Bioscience Discovery***. 7(1): 63-66.
25. **Gupta, S.** **2016**. A note on the biology of necktie loach, *Botia dario* (Hamilton, 1822). ***International Journal of Research in Fisheries and Aquaculture***.6(1): 1-3.
26. **Gupta, S.** **2016**. An overview on morphology, biology and culture of *Scatophagus argus* (Linnaeus, 1766). ***Reviews in Fisheries Science & Aquaculture (Taylor and Francis)***. 24(2): 203-212. DOI: 10.1080/23308249.2015.1119800
27. Roy, K.; **Gupta, S.** and Nandy, S.K. **2016**. Checklist of commonly occurring phytoplankton and zooplankton genera of urban and rural ponds of Raipur, Chhattisgarh. ***International Journal of Research in Biological Sciences***.6(1): 1-6.

28. Dubey, S.K.; Chakraborty, D.C.; **Gupta, S.**; Mitra, M.; Bhattacharya, R. and Neogy, A.B. **2015**. Avian diversity in the Jaldapara National Park, West Bengal, India with a notes on their habitat association and feeding guild. *Indian Forester*. 141(10): 1092-1101.
29. **Gupta, S.** and Banerjee, S. **2015**. A review on *Labeo calbasu* (Hamilton) with an emphasis on its conservation. *Journal of Fisheries*. 3(3): 301-308. DOI: dx.doi.org/10.17017/jfish.v3i3.2015.118
30. **Gupta, S.** **2015**. *Silonia silondia* (Hamilton, 1822), a threatened fish of Indian subcontinent. *World Journal of Fish and Marine Sciences*. 7(5): 362-364. DOI: 10.5829/idosi.wjfds.2015.7.5.9629
31. **Gupta, S.** **2015**. A note on morphology, biology and possible conservation measures for *Chanda nama* (Hamilton, 1822), a threatened fish of Indian subcontinent. *International Journal of Fisheries and Aquatic Studies*. 3(2): 468-470.
32. **Gupta, S.** **2015**. A note on feeding and reproductive biology of banded gourami, *Trichogaster fasciata* (Bloch & Schneider, 1801). *International Journal of Research in Fisheries and Aquaculture*. 5(4): 147-150.
33. **Gupta, S.** **2015**. *Rita rita* (Hamilton, 1822), a threatened fish of Indian subcontinent. *International Research Journal of Biological Sciences*. 4(11): 70-73.
34. **Gupta, S.** **2015**. A review on *Sperata aor* (Hamilton, 1822), a popular food fish of Indian subcontinent. *Sains Malaysiana*. 44(9): 1217-1222
35. **Gupta, S.** **2015**. *Wallago attu* (Bloch and Schneider, 1801), a threatened catfish of Indian waters. *International Journal of Research in Fisheries and Aquaculture*. 5(4): 140-142.
36. **Gupta, S.** **2015**. An overview on feeding habit, reproductive biology and induced breeding of *Ompok bimaculatus* (Bloch, 1794). *European Journal of Biological Sciences*. 7(4): 147-153. DOI: 10.5829/idosi.ejbs.2015.7.04.95163
37. **Gupta, S.** **2015**. A review on feeding and breeding biology of *Systemus sarana* (Ham.-Buch., 1822); a threatened fish of Indian subcontinent. *World Journal of Fish and Marine Sciences*. 7(4): 295-301. DOI: 10.5829/idosi.wjfds.2015.7.4.95147
38. **Gupta, S.** **2015**. An overview on feeding and breeding biology of *Mystus tengara*, a freshwater catfish of Indian subcontinent. *World Journal of Fish and Marine Sciences*. 7(3): 195-197. DOI: 10.5829/idosi.wjfds.2015.7.3.94217
39. **Gupta, S.** **2015**. An overview on food, feeding habit and reproductive biology of *Puntius conchoniis* (Ham-Buch, 1822); a freshwater Cyprinid of Indian subcontinent. *World Journal of Fish and Marine Sciences*. 7(3): 146-148. DOI: 10.5829/idosi.wjfds.2015.7.3.9475
40. **Gupta, S.** **2015**. An overview on feeding and breeding biology of freshwater Cyprinid *Puntius sophore* (Ham-Buch, 1822). *World Journal of Fish and Marine Sciences*. 7(2): 100-104. DOI: 10.5829/idosi.wjfds.2015.7.2.93104
41. **Gupta, S.** and Banerjee, S. **2015**. Length-weight relationship of *Mystus tengara* (Ham.-Buch., 1822), a freshwater catfish of Indian subcontinent. *International Journal of Aquatic Biology*. 3(2): 114-118.
42. **Gupta, S.** and Banerjee, S. **2015**. Length-Weight Relationship of *Amblypharyngodon mola*, a freshwater Cyprinid from West Bengal, India. *Zoology and Ecology (Taylor and Francis)*. 25(1): 54-58. DOI: 10.1080/21658005.2014.991513

43. **Gupta, S.2015.** Review on *Sperata seenghala* (Sykes, 1839), a freshwater catfish of Indian subcontinent. ***Journal of Aquaculture Research and Development***. 6(1): 290. DOI: 10.4172/2155-9546.1000290
44. **Gupta, S.** and Banerjee, S. **2014.** Food and feeding habit of a freshwater catfish, *Mystus tengara* (Siluriformes: Bagridae). ***Journal of Ichthyology***. 54(9): 742-748. DOI: 10.1134/S0032945214060071.
45. **Gupta, S.2014.**A review on *Mystus cavasius*, a popular food fish of Indian subcontinent. ***International Journal of Fauna and Biological Studies***. 1(6): 27-31.
46. **Gupta, S.2014.** Morphology, growth pattern, feeding and reproductive of *Mystus gulio* (Hamilton-Buchanan, 1822) (Siluriformes: Bagridae). ***International Journal of Aquatic Biology***. 2(4): 201-205.
47. **Gupta, S.2014.** Feeding and breeding biology of *Mystus vittatus*: a review. ***International Journal of Fisheries and Aquatic Studies***. 2(1B): 128-130.
48. **Gupta, S.** and Banerjee, S. **2014.** Feeding and breeding biology of *Amblypharyngodon mola* – A review. ***International Journal of Aquatic Biology***. 2(2): 85-90.
49. **Gupta, S.** and Banerjee, S. **2013.** Fecundity study of *Amblypharyngodon mola* (Ham.-Buch., 1822) from an undisturbed wetland of West Bengal. ***Fishing Chimes***. 33(6): 67-69.
50. **Gupta, S.** and Banerjee, S. **2013.** Studies on reproductive biology of *Mystus tengara* (Ham.-Buch., 1822), a freshwater catfish of West Bengal, India. ***International Journal of Aquatic Biology***. 1(4): 175-184.
51. **Gupta, S.** and Banerjee, S. **2013.** Fecundity estimation of *Mystus tengara* (Ham.-Buch., 1822), A Freshwater Catfish from West Bengal, India. ***Indian Journal of Applied Research***. 3(6): 36-37.
52. **Gupta, S.** and Banerjee, S. **2013.** Food and feeding habit of *Amblypharyngodon mola* (Hamilton-Buchanan, 1822) in West Bengal, India. ***International Journal of Scientific Research***. 2(5): 67-71.
53. **Gupta, S.** and Banerjee, S. **2013.** Studies on some aspects of reproductive biology of *Amblypharyngodon mola* (Hamilton-Buchanan, 1822). ***International Research Journal of Biological Sciences***. 2(2): 69-77.
54. **Gupta, S.** and Banerjee, S. **2013.** Comparative assessment of mosquito biocontrol efficiency between Guppy (*Poecilia reticulata*) and Panchax Minnow (*Aplocheilus panchax*). ***Bioscience Discovery***. 4(1): 89-95.
55. **Gupta, S.,** Dutta, D. and Banerjee, S. **2012.** Changing trend in ornamental fish markets of Kolkata, West Bengal, India. ***Fishing Chimes***. 32(9): 61-63.
56. **Gupta, S.** and Banerjee, S. **2012.** Present status of Galiff street market, the wholesale ornamental fish market of Kolkata. ***Fishing Chimes***. 32(5): 34-35 & 39-42.
57. **Gupta, S.** and Banerjee, S. **2012.** Indigenous ornamental fish: a new boon in ornamental fish trade of West Bengal. ***Fishing Chimes***. 32(1): 130-134.
58. **Gupta, S.** and Banerjee, S. **2011.** Assessment of some haematological parameters of an air breathing fish *Heteropneustes fossilis* after short term exposure to sublethal concentrations of mercuric chloride. ***Fishing Chimes***. 31(8): 51-54.
59. Sarbajna, A.; **Gupta, S.;** Chakraborty, S.B. and Banerjee, S. **2010.** Growth performance of sex-reversed Nile tilapia (*Oreochromis niloticus*, Linnaeus) cage cultured in a waste-fed freshwater wetland. ***World Aquaculture***. 41(2):8-10.

60. Paul, M.; **Gupta, S.**; Basu, A. and Banerjee, S. **2010**. Indigenous ornamental fish resources of Darjeeling district. *Environment and Ecology*. 28(2A): 991-996.
61. Paul, M.; **Gupta, S.** and Banerjee, S. **2009**. Fish fauna of major rivers of Darjeeling district, with special reference to their conservation status. *Records of Zoological Survey of India*. 109(Part-4): 15-23.
62. **Gupta, S.** and Banerjee, S. **2009**. Food preference of Gold Fish (*Carassius auratus*) and its potential in mosquito control. *Electronic Journal of Ichthyology*. 5(2): 47-58.
63. Sarbajna, A.; **Gupta, S.**; Chakraborty, S.B. and Banerjee, S. **2009**. An account of Zooplankton Diversity in a Waste-fed Fish Bheri in East Calcutta Wetlands. *Journal of Current Science*. 14(1): 63-67.
64. **Gupta, S.** and Banerjee, S. **2008**. Indigenous ornamental fish species in Kolkata markets: A survey report. *Proceedings of Zoological Society, Calcutta*. 61(1 & 2): 33-38.
65. **Gupta, S.** and Banerjee, S. **2008**. Ornamental Fish Trade in West Bengal. *Fishing Chimes*. 28(8): 25-27 & 38.

BOOK CHAPTERS

1. **Gupta, S.** and Banerjee, S. **2018**. Indigenous ornamental fish: Exploring new orientation in trade dynamics. In: *Aquatic Resources & Sustainable Management*. B.K. Mahapatra, A.K. Roy and N.C. Pramanik (Eds.). Narendra Publishing House, New Delhi. 269-288.
2. **Gupta, S.** and Banerjee, S. **2012**. Indigenous ornamental fish diversity and trade in Kolkata and suburbs. In: *Diversification of Aquaculture*. A. Sinha, S. Datta and B.K. Mahapatra (Eds.). Narendra Publishing House, New Delhi. 43-58 pp.

BOOKS

1. **Gupta, S.** and Banerjee, S. **2013**. Indigenous Ornamental Fish Resources of West Bengal. LAP-LAMBERT Academic Publishing, Germany. 164 pp.
2. **Gupta, S.** and Banerjee, S. **2013**. Indigenous Ornamental Ichthyofaunal Resources of South Bengal. LAP-LAMBERT Academic Publishing, Germany. 143 pp.
3. **Gupta, S.** and Banerjee, S. **2013**. Indigenous Ornamental Fish Trade of West Bengal. Narendra Publishing House, New Delhi. 63 pp. + XII plates.

POLICY PAPER

CIFRI. **2016**. Antorsthaliyo matsyo sampad ebong jalabayu poribarton: bipadsankulota ebong abhijojan bidhi (in Bengali). Written by A.P. Sharma, K.D. Joshi, M. Naskar and M.K. Das. Translated in Bengali by U.K. Sarkar and **S. Gupta**. Published by ICAR-Central Inland Fisheries Research Institute Special Publication. Policy Paper No. NICRA/Policy Paper/2015-16/1 ISSN: 0970-616X.

ARTICLES

1. **Gupta, S.** and Banerjee, S. **2018**. Rangeen Machher Byabsai Natun Diganta Khule Dite Pare Deshiyo Rangeen Machh. *Matsyo Sambad*. 3(1): 42-46. (in Bengali)
2. Sarkar, U.K.; **Gupta, S.** and Das, M.K. **2016**. Jalabayu Poribarton and Antorsthaliyo Matsyo Sampoder Opor tar Probbab. *Matsyo Sambad*. 1(3): 8-18. (in Bengali)

CONFERENCE ABSTRACTS: 9