

RESUME

DR. SAROJ KUMAR GHOSH

Assistant Professor
Department of Zoology
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PERSONAL DETAILS

Born on March 29, 1984
Indian, Hinduism
Married, Male, AB+ blood

PERMANENT ADDRESS

Village-Barwa (Mohanpur), Post Office-Barwa Mahesh
Police Station-Memari, Purba Bardhaman-713 146
West Bengal, INDIA

BRIEF PROFILE

- M. Sc. (Gold Medalist), M. Phil., Ph. D. in Zoology, FICEZS, FAELS, FLS.
- Teaching experience 10 years.
- Research experience 14 years.
- Published *forty six* Original Research Articles in reputed journals and *three* Book Chapters.
- Research interests on histomorphology, histophysiology, histochemistry and ultrastructural studies of different organs of fish.

RESEARCH/ PROFESSIONAL EXPERIENCE

Histological and Histochemical Techniques:

Fixation, embedding, polymerization, section cutting by rotary microtome, ultramicrotome and cryostat microtome.

Staining techniques for light microscopy

Electron Microscopy: SEM and TEM study

Induced breeding of fish

TEACHING EXPERIENCE

1. Serving as Assistant Professor in Zoology, Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly-712 147, West Bengal, India, since January 20, 2015 (Employee ID: G2015000448).
2. DPI approved Part-time Lecturer in Zoology, Vivekananda Mahavidyalaya, Purba Bardhaman-713 103, West Bengal, India (August 09, 2010–January 19, 2015).
3. Guest Lecturer in Zoology (U. G. and P. G.), Banwarilal Bhalotia College, Asansol, Paschim Bardhaman-713 303, West Bengal, India (December, 2012–February, 2013).
4. Guest Lecturer in Zoology, Dr. Bhupendra Nath Dutta Smriti Mahavidyalaya, Hatgobindapur, Purba Bardhaman-713 407, West Bengal, India (September, 2007).

EDUCATION AND QUALIFICATION

- 2008-2012 Department of Zoology, The University of Burdwan
Research for a **Ph. D.** degree.
Thesis entitled: "Histoarchitecture, surface ultrastructure and histochemical studies of the olfactory organ of *Labeo bata* (Hamilton), *Rita rita* (Hamilton) and *Etroplus suratensis* (Bloch): a comparative study".
- 2007-2008 The University of Burdwan
M. Phil. in Zoology
Result: 1st Class (82.2 %)
Thesis entitled: "Histological and histochemical studies on the saccus vasculosus of *Notopterus notopterus* (Pallas), *Ompok bimaculatus* (Bloch) and *Macrognathus aculeatus* (Bloch): a comparative study".
- 2004-2006 The University of Burdwan
M. Sc. in Zoology (Aquaculture and Fisheries Special Paper)
Result: 1st Class 1st (79.33 %)
- 2001-2004 The University of Burdwan
B.Sc. (Hons.) in Zoology
Result: 1st Division (65.25 %)
- 1999-2001 West Bengal Council of Higher Secondary Education
Higher Secondary
Result: 1st Division (67.1 %)
- 1999 West Bengal Board of Secondary Education
Madhyamik
Result: 1st Division (79.375 %)

AWARDS/ RECOGNITIONS

1. **Young Scientist of the year 2019 Award** on the occasion of 6th International Conference on Environment and Ecology held at University of Allahabad, Prayagraj, Uttar Pradesh-211002 (February 24-26, 2020).
2. **IASR Excellence Award 2019** for outstanding contribution in the areas of Zoology given at the International Research Conference on "Recent Trends in Life Sciences" held at Sidho Kanho Birsha University, Purulia (November 28, 2019).
3. Honourable **Fellow Member of Academy for Environment and Life Sciences**, Agra, Uttar Pradesh, India from October 25, 2019 (Membership ID: FAELS-801.2019).
4. **National Citizenship Gold Medal Award** for outstanding individual achievement in education by Global Economic Progress & Research Association (GEPR), Tiruvannamalai-606 601, Tamil Nadu (May 01, 2018).
5. **Best Presentation Award** in 1st International Conference on "Frontiers in Biological, Environmental and Medical Sciences" organized by The University of Burdwan, Purba Bardhaman-713 104, West Bengal, India (March 08-10, 2018).

6. **Best Presentation Award** in Biological Sciences at the International “Science Seminar” organized by Indian Chemical Society and Burdwan Raj College, Purba Bardhaman-713 104 (October 10, 2017).
7. **Fellow of the Linnean Society of London** (From May 24, 2016).
8. Honourable **Fellow Member of International Congress of Entomology and Zoology Studies**, New Delhi, India from December 18, 2013 (Membership ID: FICEZS-1965).
9. **Best Oral Presentation Award** (Health Sciences) at the 20th West Bengal State Science & Technology Congress, held at Bengal Engineering and Science University, Shibpur (February 28 - March 2, 2013).
10. **Best Oral Presentation Award** (Animal and Fishery Sciences) at the 19th West Bengal State Science & Technology Congress, held at Saha Institute of Nuclear Physics, Kolkata (March 1-2, 2012).
11. **Gold Medal in the M.Sc. Examination**, 2006 in Zoology from The University of Burdwan for obtaining 1st class 1st position.
12. **Bhakti-Gouri Memorial Bronze Medal** for obtaining the highest marks in the M. Sc. Examination of Zoology of The University of Burdwan, 2006.
13. Secured **First position in the Intra-departmental questionnaire competition on Consumer Affairs**, jointly organized by Burdwan District Consumer Protection Council and The University of Burdwan, 2005.

MEMBERSHIP

1. Electron Microscope Society of India (EMSI) (Membership Number: LM-1153; Since August 18, 2015).
2. Society for Reproductive Biology and Comparative Endocrinology, Chennai (Membership Number: LM426-2013; Since April 15, 2013).
3. Indian Society for the Study of Reproduction and Fertility (ISSRF) (Membership Number: 1317; Since 2015).
4. The Indian Science Congress Association (Membership Number: L21162; Since November 09, 2012).
5. Social Environmental and Biological Association (SEBA) (Since March 19, 2015).
6. The Zoological Society, Kolkata (Membership Number: L/G-81; Since May 11, 2012).
7. North East Society for Fisheries and Aquaculture (NESFA) (Registration Number: L 149/18; Since July 13, 2018).
8. The Zoological Association of Burdwan, Purba Bardhaman (Since January 18, 2012).
9. Global Economic Progress & Research Association (GEPR), Tamil Nadu (Since April 01, 2018 to March 31, 2019).
10. The International Society for Krishna Consciousness (ISKCON) (MPR 13040; Since February 08, 2018).

11. Vivek Bharati, Itachuna, Hooghly (Since July 01, 2016).
12. International Society for Infectious Diseases (ISID).
13. Coldwater Fisheries Society of India (Membership Number: CFSI/LM/132; Since July 30, 2019).
14. International Academy of Science and Research (Certificate Number: 061/LM/2019; Since November 11, 2019).
15. International Foundation for Environment and Ecology (Certificate Number: LM/130/2020; Since February 14, 2020).
16. Asian Biological Research Foundation, Prayagraj, Uttar Pradesh-211 002 (ABRF 172/2020; Since February 24, 2020).

LIST OF PUBLICATIONS

Original Research Articles

1. **Ghosh, S. K.** and S. Das, 2020. The olfactory mucosa of river catfish, *Eutropiichthys vacha* (Hamilton, 1822): a histochemical study. ***International Journal of Aquatic Biology***, 8 (1): 50-55. DOI: <https://doi.org/10.22034/ijab.v8i1.773>. (Impact Factor: 0.453)
2. **Ghosh, S. K.** 2019. Histology and surface morphology of the olfactory epithelium in freshwater teleost, *Clupisoma garua* (Hamilton, 1822). ***Fisheries & Aquatic Life***, 27 (3): 122-129. DOI: 10.2478/aopf-2019-0014. (Impact Factor: 0.72)
3. **Ghosh, S. K.** 2019. Histological and ultrastructural studies on the intestine of guntea loach, *Lepidocephalichthys guntea* (Cypriniformes, Cobitidae). ***Vestnik Zoologii***, 53 (2): 165-172. DOI: 10.2478/vzoo-2019-0017. (Impact Factor: 0.268)
4. **Ghosh, S. K.** 2018. Histological Characterization of the Olfactory Organ in Schilbid Catfish, *Clupisoma garua* (Hamilton, 1822). ***International Journal of Aquatic Biology***, 6 (5): 281-287. DOI: <https://doi.org/10.22034/ijab.v6i5.543>. (Impact Factor: 0.453)
5. **Ghosh, S. K.** 2018. Cellular organization of the olfactory epithelium during growth, maturation, spawning and post-spawning phases of freshwater catfish, *Eutropiichthys vacha* (Hamilton, 1822) (Teleostei: Siluriformes). ***Iranian Journal of Ichthyology***, 5 (2): 126-138. DOI: 10.22034/iji.v5i2.278. (Impact Factor: 0.484)
6. **Ghosh, S. K.** 2018. Anatomical and histological studies on the olfactory organ of riverine catfish, *Eutropiichthys vacha* (Hamilton, 1822). ***Asian Journal of Animal and Veterinary Advances***, 13 (3): 245-252. DOI: 10.3923/ajava.2018.245.252. (Impact Factor: 0.869)
7. **Ghosh, S. K.** and P. Chakrabarti, 2016. Histomorphological and microanatomical characteristics of the olfactory organ of freshwater carp, *Cirrhinus reba* (Hamilton). ***Archives of Polish Fisheries***, 24 (4): 201-208. DOI: 10.1515/aopf-2016-0017. (Impact Factor: 0.632)
8. **Ghosh, S. K.** and P. Chakrabarti, 2016. Comparative studies on histology and histochemistry of pancreas between *Labeo calbasu* (Hamilton, 1822) and *Mystus gulio* (Hamilton, 1822). ***Iranian Journal of Ichthyology***, 3 (4): 251-265. DOI: 10.7508/iji.2016. (Impact Factor: 0.484)

9. **Ghosh, S. K.** and P. Chakrabarti, 2016. Histological, topographical and ultrastructural organization of different cells lining the olfactory epithelium of red piranha, *Pygocentrus nattereri* (Characiformes, Serrasalminae). **Vestnik Zoologii**, 50 (5): 447-456. DOI: 10.1515/vzoo-2016-0051. (Impact Factor: 0.268)
10. **Ghosh, S. K.** and P. Chakrabarti, 2016. Morphological and histochemical studies on the olfactory rosette of bagrid catfish, *Rita kuturnee* (Sykes, 1839). **Mesopotamian Journal of Marine Science**, 31 (1): 15-28. (Impact Factor: 0.815)
11. **Ghosh, S. K.**, S. Barun and P. Chakrabarti, 2016. A comparative study of the histoarchitecture of endocrine pancreas in *Labeo bata* (Hamilton, 1822), *Sperata aor* (Hamilton, 1822) and *Chitala chitala* (Hamilton, 1822). **International Journal of Aquatic Biology**, 4 (1): 17-24. DOI: <http://dx.doi.org/10.7508/ijab.2016.01.003>. (Impact Factor: 0.453)
12. **Ghosh, S. K.** and P. Chakrabarti, 2015. Histological, surface ultrastructural, and histochemical study of the stomach of red piranha, *Pygocentrus nattereri* (Kner). **Archives of Polish Fisheries**, 23 (4): 205-215. DOI: 10.1515/aopf-2015-0023. (Impact Factor: 0.372)
13. **Ghosh, S. K.**, B. Pan and P. Chakrabarti, 2015. Histoarchitectural and surface ultrastructural analysis of the olfactory epithelium of *Puntius ticto* (Hamilton, 1822). **International Journal of Aquatic Biology**, 3 (4): 236-244. DOI: 10.22034/ijab.v3i4.102. (Impact Factor: 0.453)
14. **Ghosh, S. K.** and P. Chakrabarti, 2015. Histochemical characterization of the olfactory epithelium of an Indian major carp, *Catla catla* (Hamilton, 1822). **Iranian Journal of Ichthyology**, 2 (1): 43-52. (Impact Factor: 0.484)
15. **Ghosh, S. K.** and P. Chakrabarti, 2015. Histological and histochemical characterization on stomach of *Mystus cavasius* (Hamilton), *Oreochromis niloticus* (Linnaeus) and *Gudusia chapra* (Hamilton): comparative study. **The Journal of basic & Applied Zoology**, 70 (C): 16-24. DOI: 10.1016/j.jobaz.2015.04.002.
16. Chakrabarti, P. and **S. K. Ghosh**, 2015. Comparative histological and histochemical studies on the pancreas of *Labeo rohita* (Hamilton, 1822), *Mystus vittatus* (Bloch, 1790) and *Notopterus notopterus* (Pallas, 1769). **International Journal of Aquatic Biology**, 3 (1): 28-34. DOI: 10.22034/ijab.v3i1.44. (Impact Factor: 0.453)
17. Chakrabarti, P. and **S. K. Ghosh**, 2014. A comparative study of the histology and microanatomy of the stomach in *Mystus vittatus* (Bloch), *Liza parsia* (Hamilton) and *Oreochromis mossambicus* (Peters). **Journal of Microscopy and Ultrastructure**, 2 (4): 245-250. DOI: 10.1016/j.jmau.2014.07.003.
18. **Ghosh, S. K.** and P. Chakrabarti, 2014. Light microscopical characterization of the saccus vasculosus of freshwater catfish, *Eutropiichthys vacha* (Hamilton, 1822). **Cibtech Journal of Zoology**, 3 (2): 68-75.
19. **Ghosh, S. K.** and P. Chakrabarti, 2014. Histological studies on the saccus vasculosus of the Indian freshwater teleost, *Labeo bata* (Hamilton, 1822). **Journal of Zoological and BioScience Research**, 1 (3): 20-24.

20. **Ghosh, S. K.** and P. Chakrabarti, 2014. Structural characterization of the olfactory epithelium of freshwater olive barb, *Puntius sarana* (Hamilton, 1822). ***International Journal of Aquatic Biology***, 2 (3): 147-154. DOI: 10.22034/ijab.v2i3.78. (Impact Factor: 0.291)
21. Chakrabarti, P. and **S. K. Ghosh**, 2014. Cyclical changes in interrenal and chromaffin cells in relation to testicular activity of olive barb, *Puntius sarana* (Hamilton). ***Archives of Polish Fisheries***, 22 (2): 151-158. DOI: 10.2478/aopf-2014-0015. (Impact Factor: 0.372)
22. **Ghosh, S. K.** and P. Chakrabarti, 2014. Histological and histochemical observations on the saccus vasculosus of freshwater featherback, *Notopterus notopterus* (Pallas, 1769). ***Entomology and Applied Science Letters***, 1 (1): 27-34.
23. **Ghosh, S. K.** and P. Chakrabarti, 2014. Histochemical investigations on the olfactory epithelium of the freshwater minor carp, *Labeo bata* (Hamilton, 1822). ***Bioinfo Aquatic Ecosystem***, 3 (1): 54-58.
24. **Ghosh, S. K.** and P. Chakrabarti, 2014. Histophysiological studies on the olfactory epithelium of banded pearl spot *Etroplus suratensis* (Bloch, 1790). ***Journal of Entomology and Zoology Studies***, 2 (1): 78-82.
25. **Ghosh, S. K.** and P. Chakrabarti, 2013. Studies on the morphology of the olfactory organ in the freshwater teleost, *Labeo bata* (Hamilton). ***Mesopotamian Journal of Marine Science***, 28 (2): 163-174. (Impact Factor: 0.8)
26. Chakrabarti, P. and **S. K. Ghosh**, 2013. Histochemical studies of the olfactory epithelium of brackish-water cichlid fish, *Etroplus suratensis* (Bloch). ***Archives of Polish Fisheries***, 21 (4): 315-321. DOI: 10.2478/aopf-2013-0032. (Impact Factor: 0.372)
27. **Ghosh, S. K.** and P. Chakrabarti, 2013. Architectural pattern of different cells lining the olfactory epithelium of long-whiskered catfish, *Sperata aor* (Hamilton). ***Mesopotamian Journal of Marine Science***, 28 (1): 69-80. (Impact Factor: 0.8)
28. Chakrabarti, P. and **S. K. Ghosh**, 2013. Histological and histochemical studies of the olfactory organ in bagrid catfish *Rita rita* (Hamilton, 1822). ***Journal of Biological Sciences***, 13 (4): 242-249. DOI:10.3923/jbs.2013.242.249. (Impact Factor: 0.68)
29. **Ghosh, S. K.** and P. Chakrabarti, 2013. Histophysiology and histochemical analysis of the saccus vasculosus of butter catfish *Ompok bimaculatus* (Bloch, 1794). ***Journal of Entomology and Zoology Studies***, 1 (3): 22-28.
30. Chakrabarti, P. and **S. K. Ghosh**, 2013. Structural organization of the olfactory epithelium of *Etroplus suratensis* (Bloch) and *Scatophagus argus* (Linnaeus) in relation to feeding habit: a comparative study. ***Proceedings of International Level Seminar on Problems and Prospects of Coastal Aquaculture and Application of Biotechnological Tools for Rural Development volume***, pp. 85-95.
31. **Ghosh, S. K.** and P. Chakrabarti, 2013. Topological organization and functional aspects of the olfactory epithelium of whipfin silver biddy *Gerres filamentosus* (Cuvier 1829). ***Pakistan Journal of Biological Sciences***, 16 (5): 245-250. DOI:10.3923/pjbs.2013.245.250. (Impact Factor: 1.04)

32. Chakrabarti, P. and **S. K. Ghosh**, 2012. Comparative histophysiology of pancreas in *Cirrhinus mrigala* (Hamilton, 1822), *Oreochromis nilotica* (Linnaeus, 1758) and *Wallago attu* (Bloch & Schneider, 1801). **Indian Journal of Fisheries**, 59 (4): 93-99. (Impact Factor: 0.2)
33. **Ghosh, S. K.** and P. Chakrabarti, 2012. Histological organization and microarchitecture of various cells lining the olfactory epithelium of *Rita rita* (Hamilton, 1822) (Siluriformes: Bagridae). **Biological Letters**, 49 (2): 89-96. DOI: 10.2478/v10120-012-0005-4. (Impact Factor: 0.144)
34. **Ghosh, S. K.** and P. Chakrabarti, 2012. Histochemical study of the olfactory rosette of *Cyprinus carpio* (Linnaeus, 1758). **Iranian Journal of Fisheries Sciences**, 11 (2): 305-314. (Impact Factor: 0.984)
35. **Ghosh, S. K.** and P. Chakrabarti, 2011. Distribution and organization of different cells lining the olfactory epithelium of the Indian minor carp, *Labeo bata* (Hamilton 1822): a light and scanning electron microscopic analysis. **Pakistan Journal of Biological Sciences**, 14 (14): 736-741. DOI: 10.3923/pjbs.2011.736.741. (Impact Factor: 1.19)
36. Chakrabarti, P. and **S. K. Ghosh**, 2011. The structural organization and functional aspects of the olfactory epithelium of tigerperch, *Terapon jarbua* (Forsskål, 1775) (Perciformes: Terapontidae). **Turkish Journal of Zoology**, 35 (6): 793-799. DOI: 10.3906/zoo-1004-29. (Impact Factor: 0.647)
37. Chakrabarti, P. and **S. K. Ghosh**, 2011. Histological and ultrastructural studies of the olfactory rosette of spotted butter fish *Scatophagus argus* (Linnaeus). **Folia Morphologica**, 70 (2): 74-79. PMID: 21630226. (Impact Factor: 0.521)
38. **Ghosh, S. K.**, B. Ghosh and P. Chakrabarti, 2011. Fine anatomical structures of the intestine in relation to respiratory function of an air-breathing loach, *Lepidocephalichthys guntea* (Actinopterygii: Cypriniformes: Cobitidae). **Acta Ichthyologica et Piscatoria**, 41 (1): 1-5. DOI: 10.3750/AIP2011.41.1.01. (Impact Factor: 0.490)
39. Chakrabarti, P. and **S. K. Ghosh**, 2010. Histoarchitecture and scanning electron microscopic studies of the olfactory epithelium in the exotic fish *Puntius javanicus* (Bleeker). **Archives of Polish Fisheries**, 18 (3): 173-177. DOI: 10.2478/v10086-010-0019-7. (Impact Factor: 0.372)
40. **Ghosh, S. K.** and P. Chakrabarti, 2010. Histological and scanning electron microscopic organization and functional aspects of the surface olfactory epithelium of the freshwater minor carp, *Puntius sophore* (Hamilton). **Proceedings of the Zoological Society**, 63 (2): 115-119. DOI: 10.1007/s12595-010-0016-2.
41. **Ghosh, S. K.** and P. Chakrabarti, 2010. Cellular organization and functions of the olfactory epithelium of pearl spot *Etroplus suratensis* (Bloch): a light and scanning electron microscopic study. **Folia Morphologica**, 69(3): 154-159. PMID: 21154285. (Impact Factor: 0.521)
42. **Ghosh, S. K.** and P. Chakrabarti, 2010. Histological studies of saccus vasculosus of fishes *Notopterus notopterus* (Pallas) and *Ompok bimaculatus* (Bloch). **Environment & Ecology**, 28 (1): 34-37.

43. Chakrabarti, P. and **S. K. Ghosh**, 2010. Histological and scanning electron microscopical study of the olfactory epithelium of Indian major carp, *Catla catla* (Hamilton). **Folia Morphologica**, 69 (1): 24-29. PMID: 20235046. (Impact Factor: 0.521)
44. Chakrabarti, P. and **S. K. Ghosh**, 2009. Histophysiological studies on the saccus vasculosus of *Macrognathus aculeatus* (Bloch). **Proceedings of the Zoological Society**, 62 (2): 139-142. DOI: 10.1007/s12595-009-0016-2.
45. **Ghosh, S. K.** and P. Chakrabarti, 2009. Cellular architecture and functional aspects of the olfactory rosette of *Wallago attu* (Bleeker). **Turkish Journal of Fisheries and Aquatic Sciences**, 9 (2): 187-190. DOI: 10.4194/trjfas.2009.0210. (Impact Factor: 0.591)
46. Chakrabarti, P. and **S. K. Ghosh**, 2009. Ultrastructural organisation and functional aspects of the olfactory epithelium of *Wallago attu* (Bleeker). **Folia Morphologica**, 68 (1): 40-44. PMID: 19384829. (Impact Factor: 0.521)

Book Chapters

1. **Ghosh, S. K.** and P. Chakrabarti, 2018. Comparative histological study of endocrine pancreas in *Labeo rohita* (Hamilton, 1822), *Mystus cavasius* (Hamilton, 1822) and *Notopterus notopterus* (Pallas, 1769). In: Sustainable management of aquatic resources (Mahapatra, B. K., A. K. Roy and N. C. Pramanik Ed.). Narendra Publishing House, Delhi: pp. 43-53.
2. Ray, S. and **S. K. Ghosh**, 2018. Breeding of fish. In: Studies of Sexual Perspectives (Biswas, D. Ed.). Banglar Mukh, Kolkata: pp. 291-300.
3. **Ghosh, S. K.**, B. Pan and P. Chakrabarti, 2017. Structural organization and functional aspects of the olfactory epithelium of red piranha, *Pygocentrus nattereri* (Kner, 1858). In: *Spare Nature* (Sinha, S. K. and S. Majumdar Ed.). Damodar Group, Burdwan: pp. 19-35.

CITATION INDICES

Total Citations: 276; *h*-index: 10; *i10*-index: 11

RESEARCH PROJECTS

1. Completed the **UGC Minor Research Project** (December 06, 2016–December 06, 2018) entitled “**Neuroanatomy and morphohistological architecture of various cells of the olfactory epithelium and their seasonal variations in relation to gonadal activities and spawning in freshwater catfish, *Eutropiichthys vacha* (Hamilton, 1822)**” [No. F. PSW-016/15-16 (ERO) ID No. WB1-014 dt. 15/11/2016] as **Principal Investigator**.
2. Acting as **Principal Investigator** of the **DST Research Project** (September 06, 2018–till date) entitled “**Cyclical changes of sensory and non-sensory cells lining the olfactory epithelium in relation to reproductive function of freshwater catfish, *Clupisoma garua* (Hamilton, 1822)**” [Memo No. 275(Sanc.)/ST/P/S&T/1G-37/2017 dt. 27/03/2018].

EDITORIAL BOARD MEMEBER/ REVIEWER

1. Associate Editor of Journal of Entomology and Zoology Studies
2. Associate Editor of International Journal of Zoology Studies

3. Editorial Board Member of Scientific Research and Reviews
4. Editorial Board Member of Iranian Journal of Ichthyology(IJI) (Since March 27, 2020)
5. The Journal of basic & Applied Zoology (Manuscript Number: JOBAZ-D-15-00012) March, 2015
6. Egyptian Journal of Aquatic Research
 - 6.1. (Manuscript Number: EJAR-D-18-00238) February 17, 2018; (Manuscript Number: EJAR-D-18-00238R2) May 08, 2019
 - 6.2. (Manuscript Number: EJAR-D-19-00110) July 07, 2019
7. Microscopy Research and Technique (Manuscript Number: MRT-18-032) March 09, 2018
8. Asian Journal of Animal and Veterinary Advances
 - 8.1. (Manuscript Number: 412-AJAVA) June 04, 2016
 - 8.2. (Manuscript Number: 598-AJAVA) September 16, 2016
9. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences (Manuscript Number: NASB-D-16-00095) May 07, 2016
10. Iranian Journal of Ichthyology
 - 10.1. (Manuscript ID: 42-110) June 29, 2015
 - 10.2. (Manuscript ID: 114-436-1-SP) March 19, 2016
 - 10.3. (Manuscript ID: 159-567-1) July 22, 2016
 - 10.4. (Manuscript ID: 180-640-1) September 10, 2016
 - 10.5. (Manuscript ID: 198-732-1-RV) January 16, 2017
 - 10.6. (Manuscript ID: 231-954-1-RV) September 04, 2017
 - 10.7. (Manuscript ID: 248-1057-1-RV) May 29, 2018
 - 10.8. (Manuscript ID: 298-1386-1-RV) October 22, 2018
 - 10.9. (Manuscript ID: 351-1587-1-RV) June 02, 2019
 - 10.10. (Manuscript ID: 372-1680-1-RV) July 17, 2019
 - 10.11. (Manuscript ID: 474-2127-1-RV) February 16, 2020
 - 10.12. (Manuscript ID: 375-1692-1-RV) April 26, 2020
11. Iranian Journal of Fisheries Sciences
 - 11.1. Review ID: 4874; Date: May 27, 2015 (Manuscript Number: A-10-470-7)
 - 11.2. Review ID: 4247; Date: January 03, 2015 (Manuscript Number: A-10-792-2)
 - 11.3. Review ID: 1989; Date: September 24, 2013 (Manuscript Number: A-10-470-5)
12. Journal of Fisheries; Date: April 30, 2020 (Manuscript Number: JFish/20234)
13. International Journal of Zoology Research
14. Italian Journal of Zoology; Date: December 04, 2016 (Manuscript Number: TIZO-2016-0134)
15. International Journal of Aquatic Biology; Date: February 12, 2017 (Manuscript Number: 260-624-1-RV)

TRAINING/ COURSE UNDERGONE

1. **UGC sponsored Workshop on Remote Sensing & GIS** organized by UGC-Human Resource Development Centre, The University of Burdwan, Burdwan (March 12-18, 2019).
2. **UGC sponsored Workshop on CBCS** organized by UGC-Human Resource Development Centre, The University of Burdwan, Burdwan (January 29-February 04, 2019).

3. Summer School on **“Use and Application of SPSS”** organized by Biological Anthropology Unit, Indian Statistical Institute, Kolkata (September 10-14, 2018).
4. Model Training Course on **“Enclosure Culture in Inland Open Waters”** organized by ICAR-Central Inland Fisheries Research Institute, Barrackpore (August 22-29, 2017).
5. **Refresher Course in Bio-Sciences** organized by UGC-Human Resource Development Centre, University of Kashmir, Hazratbal, Srinagar-190 006 (May 15-June 03, 2017).
6. **UGC sponsored Short Term Course on Environmental Science** organized by UGC-Human Resource Development Centre, The University of Burdwan, Burdwan (May 24-30, 2016).
7. **UGC sponsored 103rd Orientation Programme** organized by UGC-Human Resource Development Centre, The University of Burdwan, Burdwan (March 01-28, 2016).
8. **“XXXI National Training Program in Electron Microscopy for Scientific Investigators”** organized by Sophisticated Analytic Instrument Facility, Department of Anatomy, All India Institute of Medical Sciences, New Delhi, India (November 16-28, 2015).
9. **“Breeding of Small Indigenous Fish Species (SIFS) with emphasis on Pabda, *M. gulio* & Reba”** organized by the ICAR-Central Institute of Freshwater Aquaculture, Rahara at Kalyani Field Station (July 11-17, 2015).
10. **“Entrepreneurship Development in Ornamental Fish Breeding and Culture”** organized by the Central Institute of Fisheries Education (Deemed University, ICAR), Kolkata Centre, India (August 20-26, 2013).
11. **“Certificate in Information Technology Application (CITA) Course”** from Burdwan Youth Computer Training Centre, Burdwan [A Joint Initiative of Department of Sports and Youth Services, Government of West Bengal and CFAC] (March 2007-September 2007).

SEMINAR/ CONFERENCE/ WORKSHOP PARTICIPATED

1. **6th International Conference on Environment and Ecology** held at University of Allahabad, Prayagraj, Uttar Pradesh-211 002 (February 24-26, 2020).
2. International Seminar on **“Elements of Periodic Table in the Chemical Avenues of Biological World”** organized by South Calcutta Girls’ College, Kolkata-700 025 (December 17, 2019).
3. International Research Conference on **“Recent Trends in Life Sciences”** held at Sidho Kanho Birsha University, Purulia (November 28-29, 2019).
4. Seminar on **“Academic Leadership”** organized by Department of Zoology in collaboration with IQAC of Serampore College, Serampore-712 201 (September 07, 2019).
5. Workshop on **“Use of ICT in Teaching, Research and Administrative Practice”** held at Ramakrishna Sarada Mission Vivekananda Vidyabhavan, Dum Dum, Kolkata-700 055 (August 30, 2019).

6. Workshop on “**Perceptions of Wildlife Conservation of Today’s Youth with a focus on Monitor Lizards**” held at Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly-712 147 (July 29, 2019).
7. Workshop on “**Promotion under Career Advancement Scheme**” organized by Internal Quality Assurance Cell, Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly-712 147 (July 19, 2019).
8. Workshop on “**Promotion under Career Advancement Scheme (CAS)**” organized by Prasanta Chandra Mahalanobis Mahavidyalaya, Kolkata-700 108 (June 29, 2019).
9. Hands on Training on the **Collection, Preservation and Identification of Soil Fauna** organized by Zoological Survey of India, Kolkata (March 28-29, 2019).
10. 2nd International Conference on “**Frontiers in Biological, Environmental and Medical Sciences**” organized by The University of Burdwan, Purba Bardhaman-713 104, West Bengal, India (March 07-09, 2019).
11. Workshop on **Methodology and its Application for Under Graduate Course in Zoology Honours under CBCS** organized by PG Department of Zoology, Hooghly Mohsin College (January 18-20, 2019).
12. SPARSHA Seminar on “**Ethics & Interdisciplinary Education towards Quality of Human life**” organized by The Zoological Society, Kolkata in association with Ramakrishna Mission Vivekananda centenary College, Rahara (January 13, 2019).
13. Golden Jubilee International Conference on “**Trends in Zoology**” organized by Department of Zoology, The University Burdwan, Purba Bardhaman-713 104, West Bengal, India (January 03-04, 2019).
14. 3rd **Regional Science and Technology Congress**, Southern Region held at Bidhannagar College, Salt Lake, Kolkata- 700 064 (December 18-19, 2018).
15. National Seminar on “**Recent Trends in Sciences**” organized by Burdwan Raj College, Purba Bardhaman-713 104 (November 16, 2018).
16. International Symposium on **Human Genetics: Population and Disease and Workshop on Thalassemia** organized by Department of Zoology, The University of Burdwan, Purba Bardhaman-713 104, West Bengal, India (August 24-25, 2018).
17. National Conference on **Recent Trends in Zoological Research in North-East India** jointly organized by Department of Zoology, North-Eastern Hill University, Shillong-793022 and Zoological Society of Kolkata (April 19-20, 2018).
18. Brainstorming Session on “**Fish Reproduction Biotechnology: Current and Future Prospects**” organized by Department of Zoology, Siksha-Bhavan, Visva-Bharati, Santiniketan (April 06-07, 2018).
19. One Day National Seminar on “**Climate Change and Biodiversity Management**” in collaboration with West Bengal Biodiversity Board, Department of Environment, Government of West Bengal held at Sabang Sajanikanta Mahavidyalaya, Lutunia, West Bengal-721 166 (March 09, 2018).

20. 1st International Conference on “**Frontiers in Biological, Environmental and Medical Sciences**” organized by The University of Burdwan, Purba Bardhaman-713 104, West Bengal, India (March 08-10, 2018).
21. Science Academies’ three day Lecture Workshop on “**Frontiers in Chemistry: Fundamentals and Applications**” held at Bejoy Narayan Mahavidyalaya, Hooghly (December 06-08, 2017).
22. International “**Science Seminar**” organized by Indian Chemical Society and Burdwan Raj College, Purba Bardhaman-713 104 (October 10, 2017).
23. **29th All India Congress of Zoology** “International Symposium on Culture based Fisheries in Inland Open Waters & International Satellite Symposium on Fish Immunology” held at ICAR-Central Inland Fisheries Research Institute, Barrackpore (June 09-11, 2017).
24. UGC sponsored National level Seminar on “**Crosstalk on Zoology**” Organized by Department of Zoology, Vidyasagar University, Midnapore (March 09, 2017).
25. UGC sponsored National Level Seminar on “**Spare the nature; make the earth green**” organized by Department of Zoology, Sonamukhi College, Bankura (January 05-06, 2017).
26. UGC sponsored state level seminar/ conference/ workshop on **Effective College Administration** (Good Governance for Principals and Enhancement of Initiative for Competence Building in Office, Library & other Departments) organized by Kulti College, Kulti in collaboration with Deshbandhu Mahavidyalaya, Chittaranjan, Burdwan (December 10-11, 2016).
27. **1st Regional State Science and Technology Congress, Bardhaman Division** held at Bankura Christian College, Bankura (November 07-08, 2016).
28. **23rd West Bengal State Science & Technology Congress** held at Presidency University (February 28-29, 2016).
29. International conference on **Aquatic Resources and Sustainable Management** organized by Central Calcutta Science and Cultural Association for Youth at Science City, Kolkata (February 17-19, 2016).
30. “Science Academies” Lecture Workshop in Biological Sciences on **Cross Talks in Biological Sciences from Concepts to Applications** organized by Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata-700 118 (January 5-6, 2016).
31. National Conference on “**Applied Zoology in Sustainable Development: An Update**” organized by the Department of Zoology, University of North Bengal (January 30-February 02, 2015).
32. **21st West Bengal State Science & Technology Congress** held at The University of Burdwan (February 20-21, 2014).
33. UGC-DRS sponsored National seminar on “**Bioprospecting of Natural Products**” organized by the Department of Zoology, The University of Burdwan (December 5-6, 2013).

34. **24th All India Congress of Zoology and National seminar on Biodiversity and its Management for food, livelihood and Environmental security and National Helminthological Congress** held at University of Kalyani (November 23-25, 2013).
35. International level seminar on **“Problems and prospects of coastal aquaculture and application of biotechnological tools for rural development”** organized by the Department of Aquaculture Management and Technology, Vidyasagar University (March 1-3, 2013).
36. **20th West Bengal State Science & Technology Congress** held at Bengal Engineering and Science University, Shibpur (February 28 - March 2, 2013).
37. Sudev Bhusan Ghosh Young Scientist Award Competition organized by The Zoological Society, Kolkata in collaboration with Department of Zoology, University of Calcutta (February 12, 2013).
38. **100th Indian Science Congress** organized by The Indian Science Congress Association, Kolkata (January 03-07, 2013).
39. Seminar on **“Frontiers in Molecular Biology and Workshop on Basic Flowcytometry”** organized by the Department of Zoology, The University of Burdwan (July 09, 2012).
40. National science day Seminar on **“Clean Energy Option and Nuclear Safety”** in honour of sir C. V. Raman organized by the Department of Biotechnology, The University of Burdwan (March 28, 2012).
41. **19th West Bengal State Science & Technology Congress** held at Saha Institute of Nuclear Physics, Kolkata (March 1-2, 2012).
42. Seminar on **“Trends in Cancer Research”** held at Department of Zoology, The University of Burdwan (January 13, 2012).
43. UGC Sponsored National Level Seminar on **“Environmental Pollution and its Impact on Human Health”** organized by the Department of Zoology, Raja Rammohun Roy Mahavidyalaya, Radhanagar, Hooghly (December 22-23, 2011).
44. One-day seminar on **“Aquaculture & Probiotics”** organized by the Department of Zoology, The University of Burdwan (December 07, 2011).
45. UGC-Sponsored National Level Seminar on **“Recent Trends in Zoology with Special Emphasis on Animal Diversity, Fisheries and Genetics”** organized by the Department of Zoology, Kulti College, Kulti (November 28-29, 2011).
46. UGC-Sponsored Two-Day International Seminar on **Global Warming** held at Burdwan Raj College, Burdwan (November 23-24, 2011).
47. **18th West Bengal State Science & Technology Congress** held at Ramakrishna Mission Residential College (Autonomous), Narendrapur, Kolkata-700 103 (February 28-March 1, 2011).
48. Sudev Bhusan Ghosh Young Scientist Award Competition organized by The Zoological Society, Kolkata in collaboration with Department of Zoology, University of Calcutta (December 11, 2010).

49. National Seminar cum Exposition **Modern Microscopes and their Applications** organized by the University Science Instrumentation Centre, The University of Burdwan (April 8-9, 2010).
50. Golden Jubilee International Seminar **“Researches in Zoology-Basic and Applied”** organized by the Department of Zoology, The University of Burdwan (March 17-19, 2010).
51. National Seminar cum Workshop on **“Advanced Instrumentation Technique for Teaching and Research in Biological Sciences”** held at UGC Centre for Advanced Study, Department of Botany, The University of Burdwan (March 25-28, 2009).
52. **16th West Bengal State Science & Technology Congress** held at The University of Burdwan (February 28 - March 1, 2009).



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