

CURRICULUM VITAE as on 25.11.2018



1. **Name:** Prof. (Dr.) Nimai Chandra Saha
2. **Father's Name:** Sri Alope Nath Saha
3. **Date of Birth:** 29-03-1960
4. **Present Position:** Vice Chancellor, The University of Burdwan, Burdwan 713104, West Bengal, India
5. **Address (Home):** Vice Chancellor's Bungalow, Rajbati, Burdwan, Dist. Purba Bardhaman, West Bengal, PIN 713104
6. **Address (Office):** The University of Burdwan, Rajbati, Burdwan, Dist. Purba Bardhaman, West Bengal, PIN 713104
7. **Telephone:** Mob: +919051342474
8. **E mail:** vcbunsaha@gmail.com, mr.nsaha@rediffmail.com, vc@buruniv.ac.in
9. **Mother Tongue:** Bengali
10. **Languages Known:** English, Bengali and Hindi
11. **Nationality:** Indian
12. **Education:**
 - Ph.D. in Zoology
 - M.Sc. in Zoology (1st in First Class)
13. **Fields of Specialization under the Subject/Discipline:**
 - Fisheries Sciences
 - Aquatic Toxicology
 - Ecology and Environmental Sciences
14. **Experiences:**
 - (a) **Teaching:** 29 years
 - (b) **Research:**
 - Research Experience:** 33 years
 - Research Guiding Experience:** about 25 years
 - (c) **Sponsored R & D Projects Handled/Being Handled During Last Five (5) Years:**
 - Principal Investigator, Major Research Project, DST, WB, entitled "A research for the modulatory role of some plants of common occurrence in chronic pesticide pollution in aquatic biota". Sanctioning Memo: 1265(Sanc.)/ST/P/S&T/5G-3/13 dated 30-03-201
 - Co-Principal Investigator, Major Research Project, DHESTBT, WB, entitled "Exploring the use of plant as galactagogues by tribal population of Purulia and West Midnapur district and their validation" Sanctioning Memo: 261(Sanc)/FT/P/S&T/1G-59/2017 dated 25-03-2018
 - Team Leader, DST PURSE Phase 2; Rs 7.1 crore; duration 01-04-2017 to 31-03-2021
 - (d) **Administrative:**
 - **As Professor or Equivalent Position:** More than 12 years

15. Employment & Experience (Details):

- Vice Chancellor, The University of Burdwan, Burdwan, West Bengal from 1st November, 2016 till date
- **Professor and Director of Public Instruction**, West Bengal Senior Education Service (WBSES), W.B., Education Directorate, Bikash Bhavan, Government of West Bengal (01-01-2015 to 31-10-2016).
- **Professor and Additional Director of Public Instruction and Director of Public Instruction as Additional duty**(WBSES)(09-10-2014 to 31-12-2014)
- **Professor and Additional Director of Public Instruction**, (from 23-07-2013 to 8-10-2014), WBSES, W.B., Education Directorate, Bikash Bhavan, Government of West Bengal
- **Professor and Head** (WBSES): P.G. Dept. of Zoology, Barasat Govt. College (05-10-10 to 22-07-2013)
- **Principal** (WBSES): Krishnagar Govt. College, Krishnagar, Nadia (14-01-2009 to 04-10-2010) & Jhargram Raj College, Jhargram, Paschim Medinipur (11-08-2005 to 13-01-2009)
- **Principal**: Haringhata Mahavidyalaya, Haringhata, Nadia (01-06-2002 to 17-11-2003; On Lien)
- **Reader** (WBES): Presidency College, Kolkata, (18-11-2003 to 10-08-2005) & (07-04-1999 to 31-05-2002)
- **Lecturer, Assistant Professor and Reader in Zoology** (WBES): Jhargram Raj College, Jhargram, Paschim Medinipur (07-07-1989 to 05-04-1999)
- **Lecturer in Zoology** (WBES): A.B.N. Seal College, Cooch Behar (15-06-1985 to 03-07-1989)

16. Awards & Fellowships Obtained:

- Merit Certificate for standing First in First Class in M.Sc. Examination, 1982 conferred by University of Kalyani
- Fellow of Society of Environmental Sciences (F.S.E.Sc.) conferred by The Society of Environmental Science, Dumka for outstanding contribution in the field of Environmental Sciences, 2003
- Certificate of Excellence for valuable contribution for the academic advancement of the Department of Zoology, Presidency College conferred by the said department, 2010
- Fellow of the Zoological Society (FZS), Calcutta for outstanding contribution in the field of Zoology, 2016-17

17. Committee Member/Chairman:

- Served as Member of the Senate, Syndicate, Court & Executive Council of different State aided Universities.
- Served as the Chairman/Member of the different academic & examination committees like BRS, PGBS, UGBS, Advisory Board, and Selection Committee/Standing Committee of different colleges and universities of West Bengal.
- Member of different academic & administrative bodies of different Colleges & State aided Universities.
- Chairperson of the NAAC PEER TEAM, Bengaluru; from October, 2017.

18. Best Ten (10) Published Papers:

- Maiti AK, Spoorthi BC, Saha NC, Panigrahi AK. Mitigating peroxynitrite mediated mitochondrial dysfunction in aged rat brain by mitochondria-targeted antioxidant MitoQ. *Biogerontology*. 2018 May 17:1-6. (IF-3.23)
- Maiti AK, Saha NC, Paul G. Zinc Neurotoxicity Inflicts Mitochondrial Dysfunction in the Brain of *Clarias batrachus* L: Implication in fish death. *Int. J Public Ment Health Neurosci* Apr 2017; 4 (1):16-20. (IF-1.26)
- Dhara K, Saha NC. Controlled breeding of Asian catfish *Clarias batrachus* using pituitary gland extracts and ovaprim at different temperatures, latency periods and their early development. *Journal of Aquaculture Research and Development*. 2013; 4(3):23-32.

- Maiti AK, Paul G, Maity B, Mazumdar D, Saha NC. Chromium III exposure inhibits brain Na⁺ K⁺ ATPase activity of *Clarias batrachus* L. involving lipid peroxidation and deficient mitochondrial electron transport chain activity. *Bulletin of environmental contamination and toxicology*. 2009 Oct 1; 83(4):479-83.
- Saha NC, Bhunia F, Kaviraj A. Comparative toxicity of three organic acids to freshwater organisms and their impact on aquatic ecosystems. *Human and Ecological Risk Assessment*. 2006 Feb 1; 12(1):192-202. (IF-1.56)
- Kaviraj A, Bhunia F, Saha NC. Toxicity of methanol to fish, crustacean, oligochaete worm, and aquatic ecosystem. *International journal of toxicology*. 2004 Jan; 23(1):55-63.
- Bhunia F, Saha NC, Kaviraj A. Effects of Aniline – an aromatic amine to some freshwater organisms. *Ecotoxicology*. 2003 Oct 1;12(5):397-404.
- Bhunia F, Saha NC, Kaviraj A. Toxicity of thiocyanate to fish, plankton, worm, and aquatic ecosystem. *Bulletin of environmental contamination and toxicology*. 2000 Feb 24;64(2):197-204.
- Saha NC, Bhunia F, Kaviraj A. Toxicity of phenol to fish and aquatic ecosystems. *Bulletin of Environmental Contamination and Toxicology*. 1999 Aug 1; 63(2):195-202. (IF-1.41)
- Saha NC, Kaviraj A. Acute and chronic toxicity of tannic acid and spent bark of cinchona to tilapia *Oreochromis mossambicus*. *Aquaculture*. 1996 Oct 15; 145(1-4):119-27. (IF-2.57)

19. Research Papers Published/Communicated In National and International Journals:

2018

- Bej S, Saha NC. A study on the effects of alpha cypermethrin to fish, *Cyprinus carpio* (Linnaeus, 1758). Sustainable management of aquatic resources. 2018, 601-606.
- De A, Mukherjee S, Sadhukhan GC, Saha NC. An Insight into the Cellulolytic Potential of Three Strains of *Bacillus* Spp. Isolated from Benthic Soil of Aquaculture Farms in East Kolkata Wetlands, India. *Journal of Pure and Applied Microbiology*. 2018 Sep; 12(3):1597-605.
- Dhara K, Panigrahi AK, Saha NC. Study on the acute toxicity of chromium and nickel to freshwater benthic oligochaete worm, *Branchiurusowerbyi* Beddard, 1982. Sustainable management of aquatic resources. 2018, Part II, 575-582.
- Maiti AK, Spoorthi BC, Saha NC, Panigrahi AK. Mitigating peroxynitrite mediated mitochondrial dysfunction in aged rat brain by mitochondria-targeted antioxidant MitoQ. *Biogerontology*. 2018 May 17:1-6.
- Majhi BM, Nath A K, Dey C, Mondal A, Saha NC. Ecological Assessment of Hooghly - Bhagirathi River System through the Study of Diversity of Bivalves and Gastropods in Relation to Physico-chemical Parameters. *Int.J.Curr.Microbiol.App.Sci*. 2018,7(7): 2700-2715.
- Mondal P, Dey D, Sarkar T, Laha A, Moitra S, Bhattacharyya S, Saha NC, Saha GK, Podder S. Evaluation of Sensitivity Toward Storage Mites and House Dust Mites Among Nasobronchial Allergic Patients of Kolkata, India. *Journal of Medical Entomology*. 2018 Nov 20.
- Saha S, Mukherjee D, Saha NC. Evaluation of acute toxicity and behavioral responses of *Heteropneustes fossilis* (Linn.) exposed to Captan. *Int. J. of Life Sciences*. 2018 Jan; 6(1):205-8.
- Saha S, Mukherjee D, Saha NC. Studies on acute toxicity and behavioral responses of *Heteropneustes fossilis* (Linn.) exposed to Diazinon. *Research & Reviews: A Journal of Toxicology*. 2018 May 22;8(1):9-13.
- Saha S, Saha NC, Mukherjee D. Acute Toxicity and Behavioral Alterations of Oligochaete Worm, *Branchiurusowerbyi* Exposed to Diazinon. *Research & Reviews: A Journal of Life Sciences*. 2018 Jun 14;8(2):1-5.
- Sarkar C, Saha NC. Acute toxicity of a Biopesticide Spinosad to benthic Oligochaete worm, *Branchiurusowerbyi* and the fry of Common Carp, *Cyprinus carpio*. *Int. J. of Life Sciences*, March, 2018, 6(1), 187-193.
- Sarkar C, Saha NC. Evaluation of Acute Toxicity Levels and Behavioral Changes to the Fry of Common Carp, *Cyprinus carpio* (Linnaeus, 1758) Under Exposure of a Pyrethroid Insecticide Cypermethrin. *Research & Reviews: A Journal of Life Sciences*. 2018 Nov 14; 8(3):102-7.
- Sutradhar D, Chowdhury H, Saha NC, Ghosh BK. Syntheses, characterization, crystalline architectures and luminescence of two halidomercury (II) compounds containing a bidentate (N, O) chelator: variation in nuclearities and superstructures by varying halides. *Journal of Chemical Sciences*. 2018 Nov 1;130(11):157.
- Sutradhar D, Chowdhury H, Banerjee S, Saha NC, Ghosh BK. Syntheses, crystal structures and luminescence behaviors of four neutral penta-/hexacoordinate cadmium (II) compounds containing a tridentate Schiff base: Variation in

2017

- Batabyal S, Mukhopadhyay P, Chatterjee SN, J Tah, Saha NC. Characterization of *Bacillus cereus* symbiotic to hemiparasitic plant *Santalum album* L. *Biotechnology Journal International*. 2017, 17(2), 1-8.
- Biswas SJ, Giri SK, Saha NC. A preliminary study on evaluating the galactagoggic and antioxidant properties of *Bauhinia variegata* leaf extract on lactating mice. *Journal of Pharmacognosy and Phytochemistry*. 2017;6(6):85-90.
- Dhara K, Saha NC, Maiti AK. Studies on acute and chronic toxicity of cadmium to freshwater snail *Lymnaea acuminata* (Lamarck) with special reference to behavioral and hematological changes. *Environmental Science and Pollution Research*. 2017 Dec 1;24(35):27326-33.
- Dutta S, Mondal P, Saha NC, Moitra S, Podder S, Ghosh A, Saha GK. Role of offending out-door aero-allergen and CD14 C (-159) T polymorphism in development and severity of asthma in a Kolkata patient population. *African Health Sciences*. 2017;17(4):1101-9.
- Ghosh A, Dutta S, Podder S, Mondal P, Laha A, Saha NC, Moitra S, Saha GK. Sensitivity to House Dust Mites Allergens with Atopic Asthma and Its Relationship with CD14 C (-159T) Polymorphism in Patients of West Bengal, India. *Journal of medical entomology*. 2017 Oct 17;55(1):14-9.
- Maiti AK, Saha NC, More SS, Panigrahi AK, Paul G. Neuroprotective efficacy of mitochondrial antioxidant MitoQ in suppressing peroxynitrite-mediated mitochondrial dysfunction inflicted by lead toxicity in the rat brain. *Neurotoxicity research*. 2017 Apr 1;31(3):358-72.
- Maiti AK, Saha NC, Paul G. Zinc Neurotoxicity Inflicts Mitochondrial Dysfunction in the Brain of *Clarias batrachus* L: Implication in fish death. *Int J Public Ment Health Neurosci* Apr 2017; 4 (1):16-20.
- Sarkar C, Saha NC. Effects of a Pyrethroid insecticide Cypermethrin on benthic Oligochaete worm, *Branchiurusowerbyi* (Beddard, 1982). *Global Journal for Research Analysis*. July 2017, 6(7), 499-500.
- Sutradhar D, Chowdhury H, Koner S, Saha NC, Ghosh BK. Syntheses, structures and properties of two coordination polymers of Cadmium (II) pseudohalide containing an in situ generated bidentate Schiff base: Control of dimensionality by varying pseudohalides. *Journal of Chemical Sciences*. 2017 Dec 1;129(12):1863-71.

2016

- Saha NC, Biswas SJ, Mukherjee D. Virtual study and virtual laboratory: An effective new mode in imparting education. *Virtual study and virtual laboratory: A boon in distance learning*. 2016: 41-52.
- Saha NC, Chatterjee N, Giri SK, Biswas SJ, Bej S. Evaluation of acute toxicity of dichlorvos (nuvan) to freshwater fish, *Oreochromis mossambicus* (WKH Peters, 1852) and their ethological changes. *International Educational Scientific Research Journal*. 2016 Jul 2;2(7), 47-49.
- Saha NC, Giri SK, Chatterjee N, Biswas SJ, Bej S. Acute toxic effects of Mancozeb to fish *Oreochromis mossambicus* (WKH Peters, 1852) and their behaviour. *Int. J. Adv. Res. Biol. Sci*. 2016;3(6):40-4.
- Saha NC, Giri SK, Chatterjee N, Biswas SJ, Bej S. Acute Toxicity of Dichlorvos to *Branchiurusowerbyi* (Beddard, 1982) *Global Journal For Research Analysis*. MAY 2016, 5(5), 138-139.
- Sarkar C, Bej S, Saha NC. A study on the acute toxicity of Triazophos to *Branchiurusowerbyi* (Beddard, 1982) and their behavioural changes. *International Journal of Scientific Research*. May, 2016, 5(5), 665-667.
- Sarkar C, Bej S, Saha NC. Acute toxicity of Triazophos to common carp (*Cyprinus carpio*) fry and their behavioural changes. *Paripex-Indian Journal of Research*. June 2016, 5(6), 19-21.
- Sarkar C, Saha NC. A study on acute toxicity of an insecticide Triazophos on zooplankton *Cyclops viridis* (Jurine, 1820) along with the changes in their behaviour. *Global Journal for Research Analysis*. November, 2016, 5(11), 240-241.

2015

- Bej S, Mukherjee D, Saha NC. Acute toxicity of Alpha-Cypermethrin to oligochaete worm, *Branchiurusowerbyi* (Beddard 1982) along with their behavioural responses. *International Journal of Scientific Research*, 2015, 4(12), 325-326.

- Dey D, Mukherjee D, Saha NC. A study on the seasonal fluctuation of water quality and zooplankton diversity in the determination of ecological health of five natural water bodies in West Bengal. *Indian Journal of Fundamental and Applied Life Sciences*. 2015 Vol. 5 (1) January-March, pp. 65-72.
- Dhara K, Mukherjee D, Saha NC. Acute Toxicity of Cadmium to Benthic Oligochaete Worm, *Branchiurusowerbyi* Beddard, 1982 and Juvenile Catfish, *Clarias batrachus* Linnaeus, 1758. In *Proceedings of the Zoological Society*. 2015 Dec 1 (Vol. 68, No. 2, pp. 116-119). Springer India.
- Dhara K, Panigrahi AK, Saha NC. Effect of fly ash pollution on fish diversity at Bhagirathi River in Murshidabad District, West Bengal. *Fish, Environment and Human Health*. 2015: 185-193.
- Giri SK, Biswas S, Ghosh G, Saha NC, Biswas SJ. *Phyllanthus amarus* a traditional herb with pharmacological properties: a brief review. *Indian Journal of Biology*. 2015: 1(2):97-102.
- Mukherjee D, Saha NC. A Study on the Effects of Pulp and Paper Mill Effluents on the Water Quality and Fish Diversity of Hooghly River for Determination of Its Ecological Health. *International Journal of Scientific Research*, June 2015, 4(6), 73-77.
- Mukherjee D, Saha NC. Acute toxicity of paper and pulp mill effluents to some common Indian freshwater fauna. *International Journal of Scientific Research*. November 2015, 4(11), 377-379.
- Saha NC. Determination of LC50 or LD50 for a particular toxicant. *Contemporary laboratory and field experiments in zoology*. 2015: 10-13.

2014

- Azmi SA, Chatterjee SN, Saha NC. Phenotypic and molecular characterization of bubble eye gold fish pathogenic ampicillin resistant *Bacillus* Sp.(GF1). *International Journal of Pharma and Bio Sciences*. 2014;5(4):B342-51.
- Chatterjee N, Biswas S, Saha NC, Biswas SJ. *Andrographis paniculata* a traditional herb with pharmacological properties: a review. *Global Journal of Research on Medicinal Plants & Indigenous Medicine*. 2014 May 1;3(5):206.
- Dhara K, Mukherjee D, Saha NC. Acute and chronic toxicity of cadmium to male *Clarias batrachus* Linn. with special reference to their haematological changes. *International Journal of Scientific Research*. December 2014, 3(12), 28-30.
- Giri SK, Biswas S, Ghosh G, Saha NC, Biswas SJ. *Phyllanthus amarus* a Traditional Herb with Pharmacological Properties: A Brief Review. *Indian Journal of Biology*. July - December 2014, 1(2) 97-102.
- Mukherjee D, Saha NC. Evaluation of Acute Toxicity Levels and Ethological Responses Under Tetrachlorocatechol Exposure in Common Carp, *Cyprinus carpio* (Linnaeus). In *Proceedings of the Zoological Society* 2014 Dec 1 (Vol. 67, No. 2, pp. 108-113). Springer India.
- Mukherjee D, Saha NC. Evaluation of Acute Toxicity Levels and Ethological Responses Under Tetrachlorocatechol Exposure in Common Carp, *Cyprinus carpio* (Linnaeus). In *Proceedings of the Zoological Society* 2014 Dec 1 (Vol. 67, No. 2, pp. 108-113). Springer India.
- Saha NC, Dhara K. Use of water quality, floral and faunal diversity in the determination of ecological health of four beels of Murshidabad in West Bengal, India. *Proceedings of National Conference on Challenges in Biodiversity and Resource Management*. 2014: 282-293.
- Saha S, Saha NC. A review on the faunal diversity of mangrove ecosystem of the Sunderban, their major threats and conservation strategies. *Proceedings of National Conference on Challenges in Biodiversity and Resource Management*. 2014: 109-121.

2013

- Dhara K, Mukherjee D, Panigrahi AK, Saha NC. Evaluation of acute toxicity and ethological responses of female *Clarias batrachus* (Linn.) exposed to cadmium. *Environment and Ecology*. 2013;31(3A):1567-70.
- Dhara K, Saha NC. Controlled breeding of Asian catfish *Clarias batrachus* using pituitary gland extracts and ovaprim at different temperatures, latency periods and their early development. *Journal of Aquaculture Research and Development*. 2013;4(4).
- Dhara K, Saha NC. Controlled breeding of Asian catfish *Clarias batrachus* using pituitary gland extracts and ovaprim at different temperatures, latency periods and their early development. *Journal of Aquaculture Research and Development*. 2013: 4(3):23-32.

Mukherjee D, Saha NC. Evaluation of hazardous impact of 2, 4, 6-trichlorophenol to walking catfish, *Clariasbatrachus* Linnaeus, 1758. *Environment and Ecology*. 2013;31(1A):355-9.

2012

Mukherjee D, Saha NC. Acute toxicity of 2, 4, 6-trichlorophenol to copepod, *Cyclops viridis* and oligochaete worm, *Branchiura sowerbyi*. *Environment and Ecology*. 2012;30(3C):1165-70.

2011

Saha NC, Dhara K. Effects of temperature and the doses of inducing agents (pituitary gland extract and ovaprim) on fertilization, hatching rate and hatchlings' survival during induced breeding of air breeding catfish, *Clariasbatrachus*. DST sponsored Sir J.C. Bose memorial national symposium on modern trends in animal science research and challenges of the day. 2011: 55-56.

Saha NC, Panigrahi AK, Dhara K. A report on effective treatment with ciprofloxacin along with vitamin C and E to EUS infected snake head fish *Ophiocephalusgachua* (Hamilton, 1822). Proceedings of 22nd National Congress of Parasitology. 2011: 159-164.

2010

Maiti AK, Saha NC, Paul G. Effect of lead on oxidative stress, Na⁺ K⁺ ATPase activity and mitochondrial electron transport chain activity of the brain of *Clariasbatrachus* L. *Bulletin of environmental contamination and toxicology*. 2010 Jun 1;84(6):672-6.

2009

Maiti AK, Paul G, Maity B, Mazumdar D, Saha NC. Chromium III exposure inhibits brain Na⁺ K⁺ ATPase activity of *Clariasbatrachus* L. involving lipid peroxidation and deficient mitochondrial electron transport chain activity. *Bulletin of environmental contamination and toxicology*. 2009 Oct 1;83(4):479-83.

Maiti AK, Paul G, Saha NC. Effect of lead toxicity on oxidative stress Na⁺ K⁺ ATPase and mitochondrial electron transport chain activity of mammalian brain. Proceedings of the School and Symposium on advanced biological inorganic chemistry, TIFR. 2009 (a): 207-209.

Maiti A K, Paul G, Saha NC. Oxidative stress induced inhibition of rat brain Na⁺K⁺ATPase exposed to Ni²⁺ ions: involvement of lipid peroxidation and deficient mitochondrial electron transport chain activity. Proceedings of the "International Conference on Integrative Physiology: Modern perspective", Physiological Society of India (PSI) (Invited Lecture). 2009 Nov. 12-14, Kolkata. 192.

Paul G, Maiti AK, Saha NC. Inhibition of Na⁺ K⁺ ATPase and mitochondrial electron transport chain activity of mammalian brain by mercury induced oxidative stress. Proceedings of the School and Symposium on advanced biological inorganic chemistry. 2009(b): 176-178.

2007

Saha J, Saha NC, Mukhopadhyay TK, Midya T, Sarkar NK. Trypanosome Infection and Some Associated Physiological Changes in an Indian Cat-fish, *Clariasbatrachus* (Linnaeus). *Disaster: ecology and environment*. Daya Publishing House, Delhi. 2007:30-5.

2006

Saha J, Saha NC, Mukhopadhyay TK, Midya T, Sarkar NK. Trypanosome infection and some associated physiological changes in an Indian cat fish, *Clariasbatrachus*. *Indian Journal of Environment and Ecoplanning*. 2006: 12(1): 171-176.

Saha NC, Bhunia F, Kaviraj A. Comparative toxicity of three organic acids to freshwater organisms and their impact on aquatic ecosystems. *Human and Ecological Risk Assessment*. 2006 Feb 1;12(1):192-202.

2005

Ghosh J, Sarkar NS, Saha NC, Midya T. 56. Micronucleus test in *Anabas testudineus* exposed to chromium. *Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata*. 2005:3:15-17.

Saha NC, Bhunia F, Kaviraj A. 57. A study of acute toxicity of ammonia to some fresh water organisms. *Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata*. 2005: 3: 12-14.

Saha NC, Midya T, Sarkar NK. A study of arsenic effect on blood and tissue glucose concentration in a fish model. *Indian Journal of Environment and Eco planning*. 2005: 10(2): 499-503.

Saha NC, Roy R, Sarkar NC. A new host record of the fish parasite, *Trypanosomadanilewskyi*. *Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata*. 2005: 3: 9-11.

Sarkar NK, Saha NC, Midya T. A comparison of erythrocytic micronucleus formation in some live fishes exposed to sodium arsenite in water. *Journal of Natural History*. 2005: 1(1): 35-37.

Sarkar NK, Saha NC. Microcytic anaemia in the live fish *Clarias batrachus* following chronic exposure to sodium arsenite in water. *Journal of Natural History*. 2005: 1(1): 38-44.

2004

Kaviraj A, Bhunia F, Saha NC. Toxicity of methanol to fish, crustacean, oligochaete worm, and aquatic ecosystem. *International journal of toxicology*. 2004 Jan;23(1):55-63.

Saha NC, Sarkar NK. Micronucleus test in two live fish species exposed to arsenic. *Golden Jubilee Commemorative Collections of Research Articles, Presidency College, Kolkata*. 2004:2: 24-28.

2003

Bhunias F, Saha NC, Kaviraj A. Effects of Aniline—an aromatic amine to some freshwater organisms. *Ecotoxicology*. 2003 Oct 1;12(5):397-404.

2000

Bhunias F, Saha NC, Kaviraj A. Toxicity of thiocyanate to fish, plankton, worm, and aquatic ecosystem. *Bulletin of environmental contamination and toxicology*. 2000 Feb 24;64(2):197-204.

1999

Saha NC, Bhunia F, Kaviraj A. Toxicity of phenol to fish and aquatic ecosystems. *Bulletin of Environmental Contamination and Toxicology*. 1999 Aug 1;63(2):195-202.

1997

Kaviraj A, Saha NC. Toxic effects of quinine factory effluents on tilapia *Oreochromis mossambicus* and aquatic ecosystem. *The Philippine Journal of Science*. 1997: 126(1): 87-106.

1996

Saha NC, Kaviraj A. Acute and chronic toxicity of tannic acid and spent bark of cinchona to tilapia *Oreochromis mossambicus*. *Aquaculture*. 1996 Oct 15;145(1-4):119-27.

1990

Rahaman A, Saha NC, Kaviraj A. Micronucleus test on the peripheral erythrocytes of *Oreochromis mossambicus* exposed to liquid wastes of quinidine. *Proceedings on the Impacts of Environment and Aquaculture*. 1990: 305-307.

1988

Saha NC, Kaviraj A, Som UK. Chemical nature and acute toxicity of quinine wastes to fish, plankton and worm. *Proc. Nat. Acad. Sci. India*. 1988: 58(B): 501-505.

20. Published/Accepted/Submitted as Abstracts in National & International Seminar:

- (i) A new pentacoordinated ID coordination polymer of mercury(II) chloride containing as *in situ* generated didentate Schiff base: Synthesis, structure and luminescence property, Dipu Sutradhar, Habibar Chowdhury, Nimai Chandra Saha and Barindra Kumar Ghosh, National Seminar on Design, synthesis, characterization, reactivity, theoretical study and applications of different advanced functional materials, organized by Department of Chemistry, The University of Burdwan, Burdwan, December 21-23, 2017, p 85.
- (ii) Acute toxicity and behavioural responses of oligochaete worm *Tubifex tubifex* to a surfactant sodium dodecyl sulphate, Ritwick Bhattacharya and Nimai Chandra Saha, submitted for poster/oral presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- (iii) Enzymatic and behavioural studies in fresh water cat fish, *Clarias gariepinus* exposed to insecticide, Dimethoate (Rogor-EC 30%), Arnab Chatterjee, Soumendranath Chatterjee and Nimai Chandra Saha, submitted for poster/oral presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.

- (iv) Micronucleus and behavioural studies in fresh water fish, *Anabus testudinus* exposed to Dimethoate, Santosh kumar Giri, Surjyo Jyoti Biswas and Nimai Chandra Saha, submitted for poster/oral presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- (v) Parameters and ichthyofaunal diversity of Hasadanga Beel: a floodplain wetland of Nadia, Chandan Sarkar and Nimai Chandra Saha, submitted for poster/oral presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- (vi) Synthesis, structure and magnetic property of a dibridgeddinuclear copper(II) azide compound, Chandan Adhikary, Barindra Kumar Ghosh and Nimai Chandra Saha, submitted for poster presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- (vii) Syntheses, spectroscopic characterisation and luminescence behaviour of Group 12 metal(II) complexes containing a Tailored Amine and Varied Pseudohalides, Dipu Sutradhar, Habibar Chowdhury, Nimai Chandra Saha and Barindra Kumar Ghosh, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- (viii) Synthesis, structure, luminescence property and antibacterial activity of some hexa coordinated zinc(II) complexes with Schiff base, Habibar Chowdhury, Dipu Sutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh, submitted for poster presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- (ix) Isophthalato-bridged dinuclear zinc(II) complex with a tetradentateschiff base: synthesis, structure and luminescence property, Habibar Chowdhury, Dipu Sutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh, submitted for poster presentation in International Science Seminar jointly organised by Burdwan Raj College, Burdwan 713 104 and Indian Chemical Society, 92 APC Road, Kolkata 700 009 on October 10, 2017 at Burdwan Raj College, Burdwan
- (x) “Syntheses, X-ray structures, molecular properties and in vitro antibacterial effect of two coordination polymers of cadmium(II) pseudohalide containing an in situ generated didentate Schiff base, Habibar Chowdhury, Dipu Sutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh, Poster Presentation, National Symposium on ‘Recent Advances in Chemistry & Industry 2017’, The Indian Chemical Society, Page 132-133, August 2-3, 2017.
- (xi) A comparative study on phytoremediation of paper and pulp mill effluent by some common aquatic weeds in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016(Abstract No. 65/VII/O, Page No.255).
- (xii) A study on the effects of Alpha-cypermethrin to fish, *Cyprinus carpio* (Linnaeus, 1758) in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016(Abstract No. 118/II/P, Page No.150).
- (xiii) Studies on acute and chronic toxicity of cadmium to the freshwater snail *Lymnaea acuminata* in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016(Abs. No.119/II/O. Page No.139)

- (xiv) Study on the acute toxicity of chromium and nickel to freshwater benthic oligochaete worm, *Branchiura sowerbyi* Beddard, 1982 in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016 (Abs. No 120/II/O, Page 139)
- (xv) Effects of fly ash pollution on fish diversity at Bhagirathi River in Murshidabad District, West Bengal in 24th All India Congress of Zoology organised by Department of Zoology, Kalyani University in collaboration with ZSI, Bodh Gaya (Page 55), 2013
- (xvi) Effects of a pulp and paper mill effluent on the Hooghly River ecosystem and its fish diversity in Nadia District, West Bengal, India in 24th All India Congress of Zoology organised by Dept. of Zoology, University of Kalyani in collaboration with ZSI, Bodh Gaya (Page 153), 2013
- (xvii) Use of fish diversity as a bioindicator for determining fly ash pollution in Bhagirathi River in the District Murshidabad, West Bengal in National Conference on Challenges in Biodiversity and Resource management organised by Department of Zoology, Kalyani University in collaboration with West Bengal Biodiversity Board (Page 30), 2013
- (xviii) Use of water quality and fish diversity as the indicator of pollution by paper and pulp effluents of the Hooghly River in National Conference on Challenges in Biodiversity and Resource management organised by Department of Zoology, Kalyani University in collaboration with West Bengal Biodiversity Board (Page 28), 2013
- (xix) A study on the comparative breeding performance of *Anabas testudineus* (Bloch, 1792) using piscine pituitary gland extract and Ovaprim as inducing agent in UGC sponsored two day State Level Seminar on Society-Biodiversity Interactions: Exploitation and Ethics organised by Sripat Singh College, Jiaganj, Murshidabad (Page 44), 2011
- (xx) Review on the parasites causing diseases in the fishes of Ganga River system (Sundarban region) with reference to histopathological changes and parasitic diversity in UGC sponsored National Level Seminar on rediscovering hundred years of journey on the field of immunology: present status of immunological research in India organised by Post Graduate Department of Zoology, Barasat Government College and West Bengal State University (Page 08), 2011
- (xxi) Study on the comparative toxicity of nickel and zinc on the haematological parameters of *Clarias batrachus* in UGC sponsored National Level Seminar on rediscovering hundred years of journey on the field of immunology: present status of immunological research in India (Page 08), 2011
- (xxii) Pathophysiological studies of freshwater catfish, *Clarias batrachus* (Linn.) exposed to mercury, a toxic fly ash ingredient in Golden Jubilee International Seminar on Researches in Zoology - Basic & Applied, Department of Zoology, The University of Burdwan organised by Post Graduate Department of Zoology, Barasat Government College and West Bengal State University (Abs. No. FSP01, Page No. 41), 2010
- (xxiii) Oxidative stress induced inhibition of rat brain Na^+K^+ ATPase exposed to Ni^{2+} ions: involvement of lipid peroxidation & deficient mitochondrial electron transport chain activity in XXI Annual conference & Platinum Jubilee celebration of the Physiological Society of India - International conference on Integrative Physiology: Modern Perspective organised by Physiological Society of India (Abs. No. FC41, Page No. 192), 2009
- (xxiv) Role of lipid peroxidation and mitochondrial electron transport chain on the Na^+K^+ ATPase activity in rat brain exposed to Ni^{2+} ions in The Journal of Physiological Sciences, Proceedings of the XXXV International Congress of Physiological Sciences (IUPS 2009) - Function of the Elements and Integration, Kyoto, Japan, The Physiological Society of Japan (Abs. No. P2PM-13-29, Page No. 291), 2009

- (xxv) Inhibition of mammalian brain Na^+K^+ ATPase exposed to Zn^{2+} : Role of lipid peroxidation and mitochondrial electron transport chain activity in The Journal of Physiological Sciences, Proceedings of the XXXV International Congress of Physiological Sciences (IUPS 2009)- Function of the Elements and Integration, Kyoto, Japan, The Physiological Society of Japan(Abs. No. P3PM-13-5, Page No.384),2009
- (xxvi) Comparative study on the breeding performance & larval survivability of *Anabas testudineus* using pituitary gland extract & ovaprim as inducing agents in 16th W.B. State Science & Technology Congress, 28th Feb to 1st March, 2009, The University of Burdwan & Department of Science & Technology, Government of West Bengal(Page No.283),2009
- (xxvii) Simplified method of induced spawning & larval rearing of tropical air breathing catfish, *Clarias batrachus* in National Seminar on “Molecules to Man”. February 24-25, 2005, Department of Zoology, The University of Burdwan (Page No.64), 2005

21. Papers presented in Conference, Seminars, Workshops and Symposia:

- (i) Studies on acute and chronic toxicity of cadmium to the freshwater snail *Lymnaea acuminata* in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta Science and Culture Organisation for Youth, February 17-19, 2016(International level)
- (ii) Effects of a pulp and paper mill effluent on the Hooghly River ecosystem and its fish diversity in Nadia district, West Bengal, India in 24th All India Congress of Zoology and National Seminar on Biodiversity and its management for food and environmental security and National Helminthological Congress organised by Department of Zoology, University of Kalyani, November 23-25, 2013(National Level)
- (iii) Study on the comparative toxicity of Nickel and Zinc on the haematological parameters of *Clarias batrachus* in UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India organised by Barasat Govt. College, 19th & 20th September, 2011(National Level)
- (iv) Review on the parasites causing diseases in the fishes of Ganga river system with reference to histopathological changes and parasitic diversity in UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India organised by Barasat Govt. College, 19th & 20th September, 2011(National level)
- (v) A study on the comparative breeding performance of *Anabas testudineus* (Bloch,1792) using piscine pituitary gland extract and Ovaprim as inducing agent in UGC sponsored Society-Biodiversity Interaction: Exploitation & Ethics organised by Sripat Singh College, 1st & 2nd August, 2011(State Level)
- (vi) Effects of temperature and the doses of inducing agents(pituitary gland extract and Ovaprim) on fertilization, hatching rate and hatchlings' survival during induced breeding of air breathing cat fish, *Clarias batrachus* In DST sponsored Sir J.C.Bose memorial National Symposium on modern trends in animal science research and challenges of the day Organised by Presidency University,23 -25 March, 2011 (National Level)
- (vii) Use of diversity of fish fauna as an effective bioindicator for determining pollution in Bhagirathi River in Murshidabad, WB mainly due to contamination of fly ash of adjoining thermal power plant In Seminar on Biodiversity in India: Perspective, Management & Conservation Organised by Dwijendralal College,26-02-2011(State Level)
- (viii) Acute toxicity of aniline to fish, plankton & worm In UGC sponsored Seminar on Biochemistry Organised by Kanchrapara College, 18-01-2003 to 19-01-2003(State Level)
- (ix) Micronucleus test on the peripheral erythrocytes of *Oreochromis mossambicus* exposed to liquid wastes of quinidine In National Symposium on Environmental impacts on animal & aquaculture Organised by Kalyani University,14-05-1988 to 16-05-1988(National level)
- (x) Acute toxicity of quinine factory effluents on fish & aquatic ecosystem In Seminar on Science Congress Organised by 74th Session of Science Congress, Bangalore, 03-01-1987 to 08-01-1987(National level)

22. Seminar organized as Organising Secretary/ Convener/President/ Member

- (i) Acted as Joint convener of the UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India Organised by Barasat Govt. College on 19th & 20th September, 2011
- (ii) Acted as President of the UGC sponsored State level Seminar on “Metacognition” Organised by Krishnagar Government College & Krishnagar Women’s College on 08-09-2010 to 09-09-2010
- (iii) Acted as Organising Secretary of the UGC Curriculum implementation at undergraduate level on Environmental studies Organised by Krishnagar Government College & Kalyani University on 26-02-2010
- (iv) Acted as Organising Secretary of the Workshop on Application of the Knowledge of Computer in Chemical and Biological Sciences Organised by Jhargram Raj College on 23rd & 24th March, 2008
- (v) Acted as Organising Secretary of the Principal’s Workshop on “To Strive and Sustain Quality Administration” Organised by Jhargram Raj College on 4th and 5th January, 2008
- (vi) Member of Organising Committee of the National seminar on Natural and anthropogenic hazards on Biodiversity and conservation and biotechnological approach for its remedies Organised by Vidyasagar College on 9th & 10th December, 2011
- (vii) Member of Organising committee of the Seminar on 22nd National Congress of Parasitology, Department of Zoology, University of Kalyani, Kalyani, W.B. Organised by Department of Zoology, Kalyani University on 30-10-2010 to 01-11-2010

23. Invited Lecture and Chairmanship at National/International Conference/Seminar etc.:

- (i) To act as resource person in delivering Keynote Address on 8th March, 2018 in the 1st Three-Day International Conference on "Frontiers in Biological, Environmental and Medical Sciences" to be held during March 08-10, 2018 at The University of Burdwan, Burdwan, India
- (ii) Acted as resource person in delivering Keynote Address on 22nd February, 2018 at the Interdisciplinary (Science) National Seminar on "Science & Mankind - A Better Tomorrow" to be held on 22nd & 23rd February, 2018 at A.B.N. Seal College, Cooch Behar, West Bengal, India
- (iii) Acted as a resource person in delivering the Valedictory Lecture on 3rd February, 2018 in the International Zoological Conference (INTZOOCON 2018) to commemorate the 100 years of the Department of Zoology at University of Calcutta, West Bengal, India
- (iv) Acted as Chief Guest in the Inauguration Ceremony of Eastern Chapter Conference of Association of Medical Physicists of India, AMPI EC 2018 on January 20, 2018 at SINCLAIR Tourist Resort, Burdwan, West Bengal, India
- (v) Delivered Invited Lecture in Raiganj University on Blue Economy: Indo-Bangladesh Perspective, January 10, 2018.
- (vi) Delivered speech as Chief Guest on Blue Economy: Bangladesh Perspective in Dhaka University, Bangladesh, December 09, 2017.
- (vii) Acted as Resource Person in the National Seminar on “Genomics: Molecular to Ecosystem Level” organized by The Asiatic Society, Kolkata
- (viii) Acted as Resource Person in the National Seminar on Biodiversity: Exploration, Exploitation, Conservation & Management – Vision & Mission organised by Barasat Government College in 2016
- (ix) Acted as Chairperson, West Bengal Science Congress, 2016 organised at Bankura Christian College
- (x) Acted as Resource Person in the National Seminar on the Impact of Climate Change, Biodiversity and good plant protection practices on crop productivity. Organised by BCKVV in 2016
- (xi) Acted as Resource Person in the National Seminar on ‘From Molecules to Ecosystem – A Zoological Perspective’ organised by Rahora Ramkrishna Mission College in 2016

- (xii) Acted as Resource Person in National Level UGC sponsored Seminar on Climate Change: Issues and Challenges to Society, Environment and Development. Organised by Haringhata Mahavidyalaya in 2016
- (xiii) Acted as Resource Person in National Level 1st Annual One Day Seminar of Indian Association of Biomedical Scientists jointly organised by IABMS, Eastern Regional Chapter and Rammohan College, Kolkata in 2016
- (xiv) Acted as Resource Person in National Seminar on challenges and opportunities of university administration in the 21st century organised by Netaji Subhas Open University, Kolkata in 2015
- (xv) Invited Lecture as Resource person on 22-11-2015 in a National Seminar Organised by A.P.C. Roy College. **Title:***Determination of LC50 or LD50 for a particular toxicant* in the workshop entitled Contemporary Laboratory and Field Experiments in Zoology
- (xvi) Invited Lecture as Resource person on 20-11-2015 in a National Seminar Organised by Nakshalbari College; **Title :***Environment and Human Health* on DST sponsored one day seminar on Environment and Human Health
- (xvii) Invited Lecture as Resource Person on 09-09-2015 in a National seminar Organised by Krishnath College **Title :***Study on the changes in Biodiversity of Beels of Berhampore, Murshidabad, West Bengal due to pollution* on one day seminar on Role of IQAC in Fostering Environmental Consciousness
- (xviii) Invited Lecture as Resource Person in 2014 in a National Seminar Organised by NSOU **Title :***Virtual Learning on Biological Dissection*
- (xix) Chairperson, 2013-14 in a National Seminar Organised by Department of Zoology, The University of Burdwan; **Title:** 21st West Bengal Science & Technology Congress
- (xx) Chairperson, 2013-14 in a National Seminar Organised by Department of Zoology, Kalyani University; **Title:** 24th All India Congress of Zoology and National Seminar on Biodiversity and its management for food and environmental security and National Helminthological Congress
- (xxi) Delivered a Lecture on Use of water quality, floral and faunal diversity in the determination of ecological health of four beels of Murshidabad in West Bengal, India. 2012-13 Organised by Department of Zoology, Kalyani University in National Conference on Challenges in Biodiversity and Resource Management
- (xxii) Delivered a Lecture on Hands on training for estimation of different limnological parameters and discussion on the causes for their deviations from optimum level. 2011-12 **In a** Workshop on analysis of limnological parameters under DBT star College Programme Organised by Presidency University
- (xxiii) Delivered a Lecture on Fish parasites and its control. 2010-11 in a Seminar on 22nd National Congress of Parasitology Organised by Department of Zoology, Kalyani University
- (xxiv) Delivered a Lecture on Conservation of fish fauna with special reference to aqua sanctuary. 2010-11 In a Seminar on Conservation of fish fauna with special reference to aqua sanctuary Organised by Office of the Assistant Director of Fisheries, Murshidabad
- (xxv) Delivered a Lecture on Production enhancement through beel fishery, 2010-11 in a Local Seminar on Production enhancement through beel fishery Organised by Nabindoba Ramanachandpur Fishermen Cooperative Society Limited
- (xxvi) Delivered a Lecture on Local Seminar on Pisciculture & Fishermen Community Organised by Cossimbazar Manindranagar Colony Fishermen Cooperative Society Limited
- (xxvii) Delivered a Lecture in Training Programme on Pisciculture and ornamental fish culture and fisheries management International Centre of Ecological Engineering, Kalyani University

24. Membership of Scientific Journals

- (i)** Life member of “Indian Journal of Environment and Ecoplanning”, Society of Environmental Science
- (ii)** Life member of “Science and Culture”, Indian Science News Association
- (iii)** Life member of ‘Proceedings of the Zoological Society’, The Zoological Society, Kolkata, India