

CURRICULAM VITAE

DR DEBRAJ KOLE

Ph.D., M.Sc. (Gold Medalist)

Ex-DST INSPIRE Fellow



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EDUCATIONAL QUALIFICATIONS

Qualifying examination	Board/University/Institution	Year	% of marks	Division/Class
Ph.D. in Environmental Science	The University of Burdwan	2018	--	Awarded
M.Sc. in Environmental Science	The University of Burdwan	2011	76.92%	First Class First
B.Sc. (H) in Environmental Science	The University of Burdwan	2009	63.88%	First Class
Higher Secondary in Science	W.B.C.H.S. E	2006	72.70	First Division
Secondary (10th Class)	W.B.B.S. E	2004	77.00%	First Division

AWARDS

- ❖ Senior Research Fellow, DST-INSPIRE Fellowship Program, GoI, 2014-2017
- ❖ Junior Research Fellow, DST-INSPIRE Fellowship Program, GoI, 2012-2014
- ❖ University Gold Medalist, the University of Burdwan, 2011
- ❖ First Class First in M.Sc. in Environmental Science, the University of Burdwan
- ❖ Post-Graduate Merit-cum-Means Scholarship, GoWB, 2009-2011

RESEARCH EXPERIENCES

Doctoral Research

DST INSPIRE Fellow, Ecotoxicology Lab, Environmental Science, B.U.
Duration: November 2012 to April 2018

Supervisor: Prof. Apurba Ratan Ghosh, the University of Burdwan

Thesis title: Comparative Toxicity of Arsenic (As) and Chromium (Cr) on *Channa punctatus* (Bloch) and *Anabas testudineus* (Bloch): Histopathological and Biochemical Approaches

Research during M.Sc.

Supervisor: Prof. Apurba Ratan Ghosh, the University of Burdwan

Project title: Limnobiological and Soil Quality Assessment: A Comparative Study on Krishnasayar and Pond Inside The Burdwan Medical College and Hospital

Research during B.Sc.

Project title: Physicochemical Characteristics of Arambag Paper Mill Effluent, Arambag, Hooghly, W.B. and Study of Biodiversity and Soil Profile and Quantitative Characteristics of Plant Community

AREA OF RESEARCH

Pollution Monitoring and Risk Assessment, Groundwater Geochemistry, Water and Sediment Quality, Environmental Remediation, Environmental Toxicology, Aquatic Toxicology, Heavy Metal and Pesticide Toxicity, Histopathology and Ultrastructure

PERSONAL DETAILS

Father's name: Late Harisadhan Kole

Date of Birth : 18th March, 1989

Nationality : Indian

Religion : Hinduism

Caste : General

Residential address: Village- Gobindapur, Post- Gobindapur, District- Hooghly, Pin Code-712602, West Bengal, India.

SKILLS & ABILITIES

Professional Skill

- ❖ Experienced in field and lab work
- ❖ Expertise in MS Office for preparation of report Experienced in SPSS, Minitab for statistical analysis Strong writing and editing skill
- ❖ Excellent problem solving, critical thinking, decision making and analytical skills
- ❖ Strong independent skill and excellent teamwork skill
- ❖ Capable of development of new methodologies Well organized interpersonal relationship and strong communication skill

Soft skill

- ❖ Excellent problem solving, critical thinking, decision making and analytical skills
- ❖ Strong independent skill and excellent teamwork skill
- ❖ Capable of development of new methodologies
- ❖ Well organized interpersonal relationship and strong communication skill

PUBLICATIONS AND PRESENTATIONS

Book Chapter:

Ghosh, A.R., Mondal, S. and Kole D. 2018. Environmental Impact Assessment: A Case Study on East Kolkata Wetlands. B. B. Jana et al. (eds.), Wastewater Management Through Aquaculture, Springer Nature. Chapter 15. 285-303. https://doi.org/10.1007/978-981-10-7248-2_15. ISBN 978-981-10-7247-5. ISBN 978-981-10-7248-2.

Paper Published:

1. Das, S., Patra, A., Mandal, A., Mondal, N.S., Dey, S., Kole, D., Mondal, A.K and Ghosh, A.R. 2021. Study on impacts of direct supplementation of choline into semi-intensive fish culture system based on haematopoietic alterations. *Environmental and Sustainability Indicators* 9: 1-13. <https://doi.org/10.1016/j.indic.2020.100089>
2. Dey, S., a Samanta, P., Mondal, N.S., Kole, D., Mandal, A., Patra, A and Ghosh, A.R. 2019. Dose specific responses of *Anabas testudineus* (Bloch) to anthracene (PAH): Haematological and biochemical manifestation. *Emerging Contaminants*. 5: 232-239. <https://doi.org/10.1016/j.emcon.2019.07.001>
3. Samanta, P., Das, R., Pal, S., Mukherjee, A. K., Senapati, T., Kole, D. and Ghosh, A. R. 2018. Toxicity assessment of agrochemical Almix in

Heteropneustes fossilis through histopathological alterations. *Interdisciplinary Toxicology*. 11(2):138-147. doi: 10.2478/intox-2018-0010

4. Saba, R.B. Mondal, N.S. Kole, D and Ghosh, A.R. 2018. Comparative toxicity of zinc chloride (ZnCl₂) and zinc oxide nanoparticle (ZnONP) on *Lamellidens marginallis* (Lamarck, 1819). *International Journal of Environmental and Technological Sciences*. 5: 165-171.
5. Pal, S., Samanta, P., Kole, D., Mukherjee, A. K. and Ghosh, A.R. 2018. Acute Toxicity and Oxidative Stress Responses in Tadpole of Skittering Frog, *Euphlyctis cyanophlyctis* (Schneider, 1799) to Sodium Fluoride Exposure. *Bulletin of Environmental Contamination and Toxicology*. 100 (2): 202-207. ISSN: 0007-4861 (print version); ISSN: 1432-0800 (electronic version).
6. Kole, D., Mondal S. and Ghosh, A. R. 2017. Effects of Arsenic (III) and Chromium (VI) Toxicity on Digestive Enzymes' Activities of *Anabas testudineus* (Bloch). *Proceedings of the Zoological Society*. 71(2):178-185. DOI 10.1007/s12595-017-0215-1. ISSN: 0373-5893 (print version); ISSN: 0974-6919 (electronic version).
7. Dey, S., Samanta, P., Pal, S., Mukherjee, A. K., Kole, D. and Ghosh, A. R. 2016. Integrative Assessment of Biomarker Responses in Teleostean Fishes Exposed to Glyphosate-based Herbicide (Excel Mera 71). *Emerging Contaminants*. 2:191-203. <http://dx.doi.org/10.1016/j.emcon.2016.12.002>. ISSN: 2405-6650.
8. Samanta, P., Pal, S., Mukherjee, A. K., Kole, D. and Ghosh, A. R. 2016. Histopathological Study in Stomach and Intestine of *Anabas testudineus* (Bloch, 1792) under Almix Exposure. *Fisheries and Aquaculture Journal*. 7 (3): 1-6. DOI: 10.4172/2150-3508.1000179. ISSN:2150-3508.
9. Samanta, P., Pal, S., Mukherjee, A. K., Senapati, T., Kole, D. and Ghosh, A. R. 2016. Gastrointestinal Pathology in Freshwater Fish, *Oreochromis niloticus* (Linnaeus) Under Almix Exposure. *Journal of Environmental and Analytical Toxicology*. 6 (5): 1-6. DOI: 10.4172/2161-0525.1000399. ISSN: 2161-0525.
10. Kole, D., Mondal N. K. and Ghosh, A. R. 2016. Comparative Assay of Different Doses of Arsenic Trioxide (As₂O₃) on *Channa punctatus* (Bloch) through Light and Scanning Electron Microscopic Observations. *Journal of Basic and*

Applied Engineering Research. 3 (10): 927-934. p-ISSN: 2350-0077; e-ISSN: 2350-0255.

11. Khatun, A., Pal, S., Mukherjee, A. K., Samanta, P., Mondal, S., Kole, D., Chandra, P. and Ghosh, A. R. 2016. Evaluation of Metal Contamination and Phytoremediation Potential of Aquatic Macrophytes of East Kolkata Wetlands, India. *Environmental Health and Toxicology*. 31:1-7. <https://doi.org/10.5620/eht.e2016021>. eISSN: 2233-6567.
12. Samanta, P., Pal, S., Mukherjee, A. K., Senapati, T., Kole, D. and Ghosh, A. R. 2016. Effects of Almix® Herbicide on Oxidative Stress Parameters in Three Freshwater Teleostean Fishes in Natural Condition. *Biochemistry and Pharmacology: Open Access*. 5 (3): 1-6. <http://dx.doi.org/10.4172/2167-0501.1000209>. ISSN:2167-0501.
13. Samanta, P., Pal, S., Mukherjee, A. K., Kole, D. and Ghosh, A. R. 2016. Toxic Effects of Glyphosate-Based Herbicide, Excel Mera 71 on Gill, Liver and Kidney of *Heteropneustes fossilis* under Laboratory and Field Conditions. *Journal of Microscopy and Ultrastructure*. 4:147-155. <http://dx.doi.org/10.1016/j.jmau.2016.01.002>. ISSN: 2213-879X.
14. Samanta, P., Pal, S., Mukherjee, A. K., Senapati, T., Kole, D. and Ghosh, A. R. 2014. Effects of Almix Herbicide on Profile of Digestive Enzymes of Three Freshwater Teleostean Fishes in Rice Field Condition. *Toxicology Reports*.1: 379-384. <http://dx.doi.org/10.1016/j.toxrep.2014.07.001>. ISSN: 2214-7500.
15. Samanta, P., Pal, S., Mukherjee, A. K., Senapati, T., Kole, D. and Ghosh, A. R. 2014. Effects of Almix Herbicide on Alanine Aminotransferase (ALT), Aspartate Aminotransferase (AST) and Alkaline Phosphatase (ALP) of Three Teleostean Fishes in Rice Field Condition. *The Global Journal of Environmental Sciences and Research*. 1 (1): 1-9. ISSN-2349-732s.
16. Kole, D., Pal, S., Mukherjee, A.K., Samanta, P. and Ghosh, A.R. 2014. Effects of Chromium on Tissue-Specific Biochemical Parameters in Freshwater Catfish, *Anabas testudineus* (Bloch). *HydroMedit Conference Proceedings*. Volos, Greece. pp 168-174. ISBN 978-618-80242-2-9.
17. Kole, D., Samanta, P., Ghosh, A.R., Pal, S. and Mukherjee, A. K. 2014. Limnobiological Status of Hospital Waste-fed Pond Within the Burdwan

Medical College and Hospital Premises at Burdwan Town, W.B. *The Ecoscan*.
8 (1&2): 11-16. ISSN: 0974-0376.

Oral Presentations

1. "Chromium (VI) Toxicosis on the Digestive Enzymes of Two Freshwater Teleostean Fish, *Channa punctatus* (Bloch) and *Anabas testudineus* (Bloch)" in "National Seminar on Advent of Biotechnology in Life Processes" March, 22-23, organized by Department of Biotechnology, the University of Burdwan, 2018.
2. "Metal ions concentrations in soil, sediment and biota of Damsal Nala in the Sukinda Chromite belt, Odisha: A study based on contamination factor, Pollution Index and Bioaccumulation Factor" in First International Conference on "Frontiers in Biological, Environmental and Medical Sciences" March, 8-10, organized by The University of Burdwan, West Bengal, India, 2018.
3. "Comparative Toxicity of Two Different Concentrations of Arsenic on Digestive Enzymes and Histological Structures of Two Indian Freshwater Teleostean Fishes, *Channa punctatus* (Bloch) and *Anabas testudineus* (Bloch)" in Third International Conference "Mother Earth: Save it to Achieve a Sustainable Future for All" January 11-13, organized by Department of Environmental Science, the University of Burdwan, Burdwan, 2018.
4. "Effects of Arsenic (As_2O_3) and Chromium ($K_2Cr_2O_7$) on Tissue-Specific Digestive Enzymes in Freshwater Teleostean Fish, *Anabas testudineus* (Bloch)" in "National Conference on Harmony with Nature in Context of Resource Conservation and Climate Change" October, 22-24, organized by Departments of Zoology, Botany, Biotechnology & Geology, Vinoba Bhave University, Hazaribag, (Jharkhand), India, 2016.
5. "Effects of Arsenic on Tissue-Specific Biochemical Parameters in Freshwater Fish, *Channa punctatus* (Bloch)" in Second International Conference "Mother Earth: Save it to Achieve a Sustainable Future for All" December 10-12, organized by Department of Environmental Science, the University of Burdwan, Burdwan, 2014.
6. "Limnobiological Status of Hospital Waste-fed Pond Within the Burdwan Medical College and Hospital Premises at Burdwan Town, W.B." in International Conference on "Harmony with Nature in Context of ecotechnological intervention and Climate Change" November 11-13, organized by Department of Zoology, Environmental Science and Biotechnology, D.D.U. Gorakhpur University, India, 2013.

Seminar and Conference Attended

1. Attended the Third International Conference "Mother Earth: Save it to Achieve a Sustainable Future for All" held on January, 11-13, 2018 at Dept. of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan

2. Attended the Second International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on December 10-12, 2014 at Dept. of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan
3. Attended the International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on February 13-15, 2010 at Dept. of Environmental science, Burdwan organized by Dept. of Environmental science, the University of Burdwan, Burdwan
4. Attended Two days National Seminar on “Advent of Biotechnology in Life Processes (NSABLP-2018)” held on March, 22-23, 2018 organized by Department of Biotechnology, the University of Burdwan, West Bengal.
5. Attended the First International Conference on “Frontiers in Biological, Environmental and Medical Sciences (FBEMS-2018)” held on March, 8-10, 2018 organized by The University of Burdwan, West Bengal, India, Sponsored by DST-PURSE (Phase-2).
6. Attended National Conference on “Harmony with Nature in Context of Resource Conservation and Climate Change (HARMONY-2016)” held on October, 22-24, 2016 at Departments of Zoology, Botany, Biotechnology & Geology, organized by Vinoba Bhave University, Hazaribag, (Jharkhand), India.
7. Attended One day International Seminar on “Environment, Public Health and GIS (EPH & GIS 2016)” held on August 26, 2016 organized by Department of Geospatial Science, the University of Burdwan, West Bengal, India
8. Attended International Conference on “Agriculture, Food Science, Natural Resource Management and Environmental Dynamics: The Technology, People and Sustainable Development” held on August 13-14, 2016 Organized by Department of Agricultural Extension, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal and Krishi Sanskriti, New Delhi, India.
9. Attended “Bengal Science Celebration” held on April 23-24, 2015 at the University of Burdwan organized by the University of Burdwan and Department of Science and Technology, Government of West Bengal.
10. Attended “Bengal Science Celebration” held on March 14-15, 2015 at the University of Burdwan organized by the University of Burdwan and Department of Science and Technology, Government of West Bengal.
11. Attended one-day Colloquium on “Modern Trends in Biotechnology” held on 18th February, 2015 organized by Dept. of Biotechnology, The University of Burdwan
12. Attended International Conference on “Harmony with Nature in Context of Ecotechnological Intervention and Climate Change (HARMONY-2013)” held on November 11-13, 2013 at Department of Zoology, Environmental Science and Biotechnology organized by D.D.U. Gorakhpur University, India.

Workshop and Training Attended

1. Attended Department of Science Technology -GoWB sponsored Training Programme on “Hands-on-training Programme on “Quality Standardization in Air & Water Including Detection of Histotechnological Parameters” organized by the Dept. of Environmental Science, the University of Burdwan, held from 12 to 20 September, 2016
2. Attended on Workshop on “Statistical Techniques used in Research” Organized by Department of Statistics, The University of Burdwan, held from 16-19 February, 2016.
3. Attended University Grants Commission sponsored “Interaction Program for Research Scholars” organized by UGC-Academic Staff College, the University of Burdwan held from September 4 to 24, 2014
4. Attended the Training Programme on “Genotoxicity Biomarkers in Fishes” organized by the National Bureau of Fish Genetic Resources, Indian Council of Agricultural Research, Canal Ring Road, P.O. Dilkusha, Lucknow - 226002, India held from 04 to 09th March, 2013
5. Attended Department of Science Technology-GoWB sponsored Training Programme on “Hands-on-training Programme on “Quality Standardization in Air & Water Including Detection of Radioactivity in Aquatic Medium and Plant Body” organized by the Dept. of Environmental Science, the University of Burdwan, held from February 24 to March 3, 2012.

Abstract Published

1. Abstract of paper entitled on “Effects of Arsenic on Tissue-Specific Biochemical Parameters in Freshwater Fish, *Channa punctatus* (Bloch)” by **Debraj Kole**, Niladri Sekhar Mondal, Sandipan Pal, Alope Kumar Mukherjee, Palas Samanta and Apurba Ratan Ghosh accepted and published in Proceedings of Second International Conference “*Mother Earth: Save it to Achieve a Sustainable Future for All*” held on December 10-12, 2014 at Dept of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan
2. Abstract of paper entitled on “Comparative Study of Dose-Duration of Glyphosate Toxicosis on *Lamellidens marginalis* (Lamarck)” by Antara Ghosal, Sandipan Pal, Alope Kumar Mukherjee, **Debraj Kole**, Palas Samanta and Apurba Ratan Ghosh accepted and published in Proceedings of Second International Conference “*Mother Earth: Save it to Achieve a Sustainable Future for All*” held on December 10-12, 2014 at Dept of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan
3. Abstract of paper entitled on “Bioaccumulation of Glyphosate Herbicide in Macrophytes and Fish Tissues and Its Enzymological Responses in Fishes” by Sukhendu Dey, Palas Samanta, Sandipan Pal, Alope Kumar Mukherjee,

Debraj Kole and Apurba Ratan Ghosh accepted and published in Proceedings of Second International Conference “*Mother Earth: Save it to Achieve a Sustainable Future for All*” held on December 10-12, 2014 at Dept of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan

4. Abstract of paper entitled on “Effects of Glyphosate-Based Herbicides, Excel Mera 71 on Histopathological and Ultrastructural Responses of *Oreochromis niloticus* under Field and Laboratory Conditions” by Pragya Kumari, Palas Samanta, Sandipan Pal, Alope Kumar Mukherjee, **Debraj Kole** and Apurba Ratan Ghosh accepted and published in Proceedings of Second International Conference “*Mother Earth: Save it to Achieve a Sustainable Future for All*” held on December 10-12, 2014 at Dept of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan
5. Abstract of paper entitled on “Evaluation of Biomarkers and Comparative Toxicity of Glyphosate (Excel Mera 71) in Some Organs of *Anabas testudineus* (Bloch) under Field and Laboratory Conditions” by Sandipan Pal, Palas Samanta, Alope Kumar Mukherjee, **Debraj Kole** and Apurba Ratan Ghosh accepted and published in Proceedings of Second International Conference “*Mother Earth: Save it to Achieve a Sustainable Future for All*” held on December 10-12, 2014 at Dept of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan
6. Abstract of paper entitled on “Nutritional Status of Some Freshwater Teleosts” by Sunanda Batabyal, Alope Kumar Mukherjee, Sandipan Pal, Palas Samanta, **Debraj Kole** and Apurba Ratan Ghosh accepted and published in Proceedings of Second International Conference “*Mother Earth: Save it to Achieve a Sustainable Future for All*” held on December 10-12, 2014 at Dept of Environmental science, Burdwan organized by Dept. of Environmental science, the University of Burdwan, Burdwan
7. Abstract of paper entitled on “Chromium (VI) Toxicosis on the Digestive Enzymes of Two Freshwater Teleostean Fish, *Channa punctatus* (Bloch) and *Anabas testudineus* (Bloch)” by **Debraj Kole**, Niladri Sekhar Mondal, Sukhendu Dey, Arghya Mandal, Atanu Patra, Apurba Ratan Ghosh accepted and published in Proceedings of Two days National Seminar on “*Advent of Biotechnology in Life Processes (NSABLP-2018)*” held on March, 22-23, 2018 at Department of Biotechnology organized by Department of Biotechnology, the University of Burdwan, Burdwan, West Bengal

8. Abstract of paper entitled on “Biomarker Analysis in Ichthyotoxicological Paradigm: A Review on Electron Microscopic Observation of Almix and Glyphosate Exposure” by Apurba Ratan Ghosh, Palas Samanta and **Debraj Kole** accepted and published in Proceedings of Seven Days National Workshop on “Vision Towards Environmentally Sustainable Future (VTESF-2018)” held on July 24-30, 2018 at Department of Environmental Science organized by Department of Environmental Science & ENVIS Centre, University of Kalyani sponsored by DST-PURSE, ENVIS Centre and University of Kalyani, Kalyani, West Bengal.
9. Abstract of paper entitled on “Effects of Arsenic (As_2O_3) and Chromium ($K_2Cr_2O_7$) on Tissue-Specific Digestive Enzymes in Freshwater Teleostean Fish, *Anabas testudineus* (Bloch)” by **Debraj Kole**, Subinoy Mondal, Santu Ghosh, Arnab Kumar Mondal, Niladri Sekhar Mondal and Apurba Ratan Ghosh accepted and published in Three Days National Conference on “Harmony with Nature in Context of Resource Conservation and Climate Change (HARMONY-2016)” held on October, 22-24, 2016 at Departments of Zoology, Botany, Biotechnology & Geology organized by Vinoba Bhave University, Hazaribag, (Jharkhand), India.
10. Abstract of paper entitled on “Study on Environmental Quality Assessment and Heavy Metals' Concentration in Stretches of Damsal Nala in Sukinda valley Region, Odisha” by Niladri S Mondal, **Debraj Kole** and Apurba Ratan Ghosh accepted and published in Three Days National Conference on “Harmony with Nature in Context of Resource Conservation and Climate Change (HARMONY-2016)” held on October, 22-24, 2016 at Departments of Zoology, Botany, Biotechnology & Geology organized by Vinoba Bhave University, Hazaribag, (Jharkhand), India.
11. Abstract of paper entitled on “Histological and Biochemical Study on *Anabas testudineus* (Bloch), The Natural Inhabitant of Rice Mill Wastewater” by Arghya Mondal, **Debraj Kole** and Apurba Ratan Ghosh accepted and published in Three Days National Conference on “Harmony with Nature in Context of Resource Conservation and Climate Change (HARMONY-2016)” held on October, 22-24, 2016 at Departments of Zoology, Botany, Biotechnology & Geology organized by Vinoba Bhave University, Hazaribag, (Jharkhand), India.
12. Abstract of paper entitled on “Assessment and Conceptual Modelling of Cadmium Chloride Toxicity on *Lamnidens marginalis* (Lamarck) at Different Concentrations and Exposures Based on Different Organs” by Santu Ghosh, Atanu Patra, Sadhana Saren, **Debraj Kole**, Arnab Kumar Mondal, Sudipto Mandal and Apurba Ratan Ghosh accepted and published in Three Days

National Conference on “Harmony with Nature in Context of Resource Conservation and Climate Change (HARMONY-2016)” held on October, 22-24, 2016 at Departments of Zoology, Botany, Biotechnology & Geology organized by Vinoba Bhave University, Hazaribag, (Jharkhand), India.

13. Abstract of paper entitled on “Limnobiological Status of Hospital Waste-fed Pond Within the Burdwan Medical College and Hospital Premises at Burdwan Town, W.B. ” by **Debral Kole**, Sandipan Pal, Palas Samanta, Alope Kumar Mukherjee and Apurba Ratan Ghosh accepted and published in Three Days International Conference on “Harmony with Nature in Context of Ecotechnological Intervention and Climate Change (HARMONY-2013)” held on November 11-13, 2013 at Department of Zoology, Environmental Science and Biotechnology organized by D.D.U. Gorakhpur University, India.
14. Abstract of paper entitled on “Comparative Toxicity of Two Different Concentrations of Arsenic on Digestive Enzymes and Histological Structures of Two Indian Freshwater Teleostean Fishes, *Channa punctatus* (Bloch) And *Anabas testudineus* (Bloch)” by **Debraj Kole**, Niladri Sekhar Mondal, Subhas Das, Sukhendu Dey and Apurba Ratan Ghosh accepted and published in Third International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on January, 11-13, 2018 at Dept. of Environmental science organized by Dept of Environmental science, the University of Burdwan, Burdwan, West Bengal.
15. Abstract of paper entitled on “Histological and Biochemical Alterations in *Anabas testudineus* (Bloch) Collected From Discharge Zone of A Rice Mill Wastewater Canal” by Arghya Mondal, Niladri Sekhar Mondal, Atanu Patra, **Debraj Kole**, Sandipan Pal and Apurba Ratan Ghosh accepted and published in Third International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on January, 11-13, 2018 at Dept. of Environmental science organized by Dept of Environmental science, the University of Burdwan, Burdwan, West Bengal.
16. Abstract of paper entitled on “Comparative Study of Effects of Different Exposure Periods and Concentrations of Rice Mill Effluents on A Teleostean Fish *Oreochromis niloticus* (Linn.)” by Atanu Patra, **Debraj Kole**, Niladri Sekhar Mondal, Arghya Mandal and Apurba Ratan Ghosh accepted and published in Third International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on January, 11-13, 2018 at Dept. of Environmental science organized by Dept of Environmental science, the University of Burdwan, Burdwan, West Bengal.

17. Abstract of paper entitled on “Titanium-Dioxide Nanoparticles (TiO₂-NPS) Induced Histological and Biochemical Alterations in The Target Organs of *Cirrhinus mrigala* (Hamilton, 1822)” by Mousumi Kumar, Subinoy Mandal, **Debraj Kole**, Niladri Sekhar Mondal, Atanu Patra, Arghya Mandal and Apurba Ratan Ghosh accepted and published in Third International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on January, 11-13, 2018 at Dept. of Environmental science organized by Dept of Environmental science, the University of Burdwan, Burdwan, West Bengal.
18. Abstract of paper entitled on “Monitoring of Available Metals from Sukinda Chromite Mining Drainage and Their Accumulation in Soil, Bottom Sediment, and in a Wild Plant (*Posidonia* sp.) and Fish (*Puntius* sp.) at Dhamsal Nala, Odisha” by Niladri Sekhar Mondal, **Debraj Kole**, Sukhendu Dey, Arghya Mandal and Apurba Ratan Ghosh accepted and published in Third International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on January, 11-13, 2018 at Dept. of Environmental science organized by Dept of Environmental science, the University of Burdwan, Burdwan, West Bengal.
19. Abstract of paper entitled on “Comparative Toxicosis of Anthracene (PAH) in Blood of *Anabas testudineus* (Bloch): A Dose-Exposure Relationship” by Sukhendu Dey, Niladri Sekhar Mondal, Atanu Patra, Subhas Das, **Debraj Kole** and Apurba Ratan Ghosh accepted and published in Third International Conference “Mother Earth: Save it to Achieve a Sustainable Future for All” held on January, 11-13, 2018 at Dept. of Environmental science organized by Dept of Environmental science, the University of Burdwan, Burdwan, West Bengal.
20. Abstract of paper entitled on “Metal ions concentrations in soil, sediment and biota of Damsal Nala in the Sukinda Chromite belt, Odisha: A study based on contamination factor, Pollution Index and Bioaccumulation Factor” by Niladri Sekhar Mondal, **Debraj Kole**, Arghya Mandal, Sukhendu Dey and Apurba Ratan Ghosh accepted and published in the First International Conference on “Frontiers in Biological, Environmental and Medical Sciences (FBEMS-2018)” held on March, 8-10, 2018 organized by The University of Burdwan, West Bengal, India, Sponsored by DST-PURSE (Phase-2).
21. Abstract of paper entitled on “ Haematological responses in an air-breathing teleost, *Anabas testudineus* (Bloch) under Anthracene toxicosis” by Sukhendu Dey, Niladri Sekhar Mondal, **Debraj Kole**, Arghya Mandal, Subhas Das and Apurba Ratan Ghosh accepted and published in the First International Conference on “Frontiers in Biological, Environmental and Medical Sciences (FBEMS-2018)” held on March, 8-10, 2018 organized by

The University of Burdwan, West Bengal, India, Sponsored by DST-PURSE (Phase-2).

22. Abstract of paper entitled on “Chromium (VI) Toxicosis on the Digestive Enzymes of Two Freshwater Teleostean Fish, *Channa punctatus* (Bloch) and *Anabas testudineus* (Bloch)” by **Debraj Kole**, Niladri Sekhar Mondal, Sukhendu Dey, Arghya Mandal, Atanu Patra and Apurba Ratan Ghosh accepted and published in Two days National Seminar on “Advent of Biotechnology in Life Processes (NSABLP-2018)” held on March, 22-23, 2018 organized by Department of Biotechnology, the University of Burdwan, West Bengal.

Assignments

1. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2018” organized by Dept. of Environmental Science, the University of Burdwan, Burdwan held from October 3 to 7, 2018
2. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2017” organized by Dept. of Environmental Science, the University of Burdwan, Burdwan held from August 28 to September 1, 2017
3. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2015” organized by Dept. of Environmental Science, the University of Burdwan, Burdwan held from September 1 to 5, 2015
4. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2014” organized by Dept. of Environmental Science, the University of Burdwan, Burdwan held from August 18 to 22, 2014
5. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2013” organized by Dept. of Environmental Science, the University of Burdwan, Burdwan held from July 9 to 13, 2013
6. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2012” organized by UGC-Academic Staff College, the University of Burdwan, Burdwan held from July 6 to 10, 2012
7. **Associated as Practical Demonstrator** with the DST, GoI Sponsored Summer Science Camp “INSPIRE INTERNSHIP Program-2011” organized by UGC-Academic Staff College, the University of Burdwan, Burdwan held from July 11 to 15, 2011

Referees:

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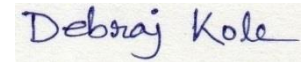
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Declaration:

I hereby declare that the information furnished herewith are true to the best
of my knowledge.

Place: Gobindapur

Date: 12.10.2020



[Debraj Kole]