

Curriculum Vitae

MD. SHIBLUR RAHAMAN

Research Scientist I

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AND

Associate Professor (on study leave)

Dept. of Environmental Science and Disaster Management

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RG: https://www.researchgate.net/profile/Md_Rahaman29

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AND Visiting Researcher

Department of Environmental and Preventive Medicine,

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PROFESSIONAL SUMMARY

Highly motivated research scientist and academician who has significant expertise in a broad array of biomedical science fields; molecular biology, cell biology, environmental toxicology, environmental health, and various biological applications on *in-vitro* and *in-vivo* research. Have experience working with scientists with diverse backgrounds from around the world. Skilled writer (manuscripts and research grants) and speaker with a passion for scientific research.

AREAS OF PROVEN PERFORMANCE

Toxicological Study (*In-vitro* on cell line & *In-vivo* on mice), Cell culture, MTT assay, MDA assay, ELISA, Genomic DNA extractions, DNA fragmentation analysis, Agarose gel electrophoresis, Primer design and optimization, RT-qPCR, Protein extraction, Western blot, Flow-cytometry, Apoptosis analysis, Cell death mechanisms, Animal (mice handling), AAS, ICP-MS, and so on. Acquainted with several software-guided applications for the analysis of scientific raw data (i.e., STATA).

RESEARCH INTEREST

Environmental Health, Environmental Epidemiology, Environmental Toxicology, Environmental pollution and Human health.

FORMAL EDUCATION

JSPS Postdoctoral Fellowship

2021-22

Department of Environmental and Preventive Medicine, Jichi Medical University, Japan.

- **Research Project:** Development of risk assessment of vascular endothelial dysfunction caused by arsenic.

Ph.D. in Environmental Science

Sep 2020

Graduate School of Environmental Science, Hokkaido University, Sapporo, Japan.

- **Ph.D. Dissertation:** Alleviation of arsenic-induced toxicity by curcumin and D-pinitol, the main components of the herbs commonly used in Bangladesh, and their mechanism.

M.S. in Environmental Science

2013

Jahangirnagar University, Savar, Dhaka, Bangladesh.

Result: cGPA 3.86 (out of 4.00).

- **Thesis Title:** Characterization of fluorescent dissolved organic matter and trace metals in Ganges-Brahmaputra River, Bangladesh.

B.Sc. (Honors) in Environmental Science

2012

Jahangirnagar University, Savar, Dhaka, Bangladesh.

Result: cGPA 3.66 (out of 4.00).

- BSc. Project Title: Seasonal Variation in Water Quality of the Ganges and Brahmaputra River, Bangladesh.

PROFESSIONAL EXPERIENCE

Position	Institution	Duration
Associate Professor	Department of Environmental Science and Disaster Management Noakhali Science and Technology University (NSTU)	28 January 2023 to till date
Assistant Professor	Department of Environmental Science and Disaster Management Noakhali Science and Technology University (NSTU)	26 July 2017 to 27 January 2023
Lecturer	Department of Environmental Science and Disaster Management Noakhali Science and Technology University (NSTU)	26 July 2015 to 25 July 2017
Office Manager	HEQEP Sub Project, CP-2334, Department of Environmental Sciences, Jahangirnagar University.	01 November 2014 to 31 March 2015

OTHER EXPERIENCES

- Working as Departmental Laboratory In-Charge, ESDM, NSTU. (28/01/ 2023 to till date)
- Working as Course Coordinator for a team of 50 graduate students. (26/09/ 2022 to till date)
- Worked as a Representative of the Departmental Lab Equipments Purchase Committee, ESDM, NSTU. (2023).
- Worked as a Member of OBE Syllabus Moderation Committee, ESDM, NSTU. (2022-2023)
- Worked as Assistant Provost at Vasha Saheed Abdus Salam Hall, NSTU. (12/01/ 2016 to 26/09/2017)
- Worked as Course Coordinator for a team of 50 students. (25/02/2016 to 26/09/2017)
- Worked as a Teaching Assistant (TA) for the courses "Introduction of Global Environmental Management" and "Advanced Course in Environmental Adaptation" at the Graduate School of Environmental Science, Hokkaido University, Japan.
- Worked as an Organizer Committee Member for the Hult Prize @ Hokkaido University (2018-19).

CLASSES AND SUBJECTS TAUGHT

- ESDM 1102: Fundamental of Earth Science-Lab
- ESDM 1103: Fundamental of Earth Science
- ESDM 1105: Fundamental of Chemistry
- ESDM 1106: Fundamental of Biology-Lab
- ESDM 1107: Fundamental of Biology
- ESDM 1205: Environmental Geography
- ESDM 1207: Analytical Chemistry
- ESDM 2105: Energy and Environment
- ESDM 2201: Hydrochemistry and Water Pollution
- ESDM 2207: Population and Environment
- ESDM 3103: Environmental Biochemistry
- ESDM 3105: Environmental Biotechnology
- ESDM 3201: Environmental Toxicology
- ESDM 3205: Water Resource Planning and Management
- ESDM 3211: Community-Based Disaster Management
- ESDM 4113: Ecotourism
- ESDM 4209: Environmental Planning and Sustainable Development

GRADUATE STUDENTS

- 2022-2023** Supervision of graduate research student, Mohammad Saiful Islam on a project titled “Assessment of Heavy Metal Contamination in Soil and Tea Leaves (*Camellia sinensis L.*) from the Tea Gardens of Sylhet: Ecological and Health Implications.”
- 2022-2023** Supervision of graduate research student, Fayeze Ullah on a project titled “Assessing the Impact of Heavy Metal Concentration in Roadside Soil on Ecosystems and Human Health in South-eastern Bangladesh.”
- 2022-2023** Supervision of graduate research student, Mohammad Ismail on a project titled “Heavy Metals Contamination and Associated Human Health Risks in Edible Salt Consumed in Noakhali, Bangladesh.”
- 2022-2023** Supervision of graduate research student, Momotaj Ara Mou on a project titled “Assessing the impact of rapid urbanization on surface waterbodies in Cumilla district using remote sensing and GIS techniques.”
- 2022-2023** Supervision of graduate research student, Khadeja Akter Riya on a project titled “Assessment of Cost-Effective Bacterial Strains and Sustainable Substrates for PHA-Based Bioplastic Production in Bangladesh.”

UNDERGRADUATE STUDENTS

- 2022-2023** Supervision of undergraduate research student, Abu Sufian Shohag on a project titled “Investigating Local Perceptions of Climate Change Risks and Indigenous Adaptation Measures in the Sundarbans Margins, Bangladesh.”
- 2022-2023** Supervision of undergraduate research student, Abhisek Chakraborty on a project titled “Noakhali Canal Water Quality Index: Assessment and Bridging the Gap Between Present Conditions and Environmental Standards.”
- 2016-2017** Supervision of undergraduate research student, Fujail Hossain on a project titled “Current Status and Public Perception on Household Solid Waste Management in Comilla City, Bangladesh.”
- 2016-2017** Supervision of undergraduate research student, Md. Kowsar Ahmed on a project titled “Evaluation of the impacts of salinity on agriculture, fisheries and human health of suborno char upazila, Noakhali.”
- 2016-2017** Supervision of undergraduate research student, Nazmul Hossain on a project titled “Causes and Effects of Water Logging in Southern Bangladesh: A Case Study in Noakhali Town.”
- 2016-2017** Supervision of undergraduate research student, Tanjila Alam Prosun on a project titled “Drinking Water Quality Assessment from Ground Water Sources in Noakhali, Bangladesh.”
- 2016-2017** Supervision of undergraduate research student, Fozia Momotaz on a project titled “An investigation of the industrial effluents and ETP facilities of the Noakhali industrial area.”
- 2016-2017** Supervision of undergraduate research student, Mohammad Tanjim Uddin on a project titled “Assessment of the Quantity and Rate of Water Pollution in Major Rivers in Bangladesh for the Last 10 Years.”

FUNDED RESEARCH GRANTS

- Grant-in-Aid for JSPS Fellows (21F21111)** 2021-04-28 – 2022-03-31
Total amount: ¥2,400,000
Role: Co-Investigator (Co-I)
Project title: Mechanism of arsenic-induced vascular endothelial dysfunction
Project Homepage: <https://kaken.nii.ac.jp/en/grant/KAKENHI-PROJECT-21F21111/>
- Grant-in-Aid for Early-Career Scientists (23K16310)** 2023-04-01 – 2026-03-31
Total amount: ¥3,640,000
Role: Principal Investigator (PI)

Project title: The Regulatory Roles of ACE2 and its Interaction with Nrf2 in Arsenic-induced Endothelial Dysfunction in Experimental and Epidemiological Studies

Project Homepage: <https://kaken.nii.ac.jp/grant/KAKENHI-PROJECT-23K16310/>

3. **Fund for the Promotion of Joint International Research (International Collaborative Research) (23KK0174)** 2023-09-08 – 2027-03-31
Total amount: ¥21,060,000
Role: Co-Investigator (Co-I)
Project title: Risk Assessment of atmospheric microplastics for human health
Project Homepage: <https://kaken.nii.ac.jp/en/grant/KAKENHI-PROJECT-23KK0174/>
4. **Research grant for Teacher, Research Cell, NSTU (NSTU-RC-ESD-T-23-114)** 2023-07 – 2024-06
Total amount: BDT 160,000
Role: Principal Investigator (PI)
Project title: Health Risk Assessment of Arsenic and Iron in Drinking Water for School-going Children in Southeast Coastal Bangladesh

REPRESENTATIVE PUBLICATIONS

1. **Md. Shiblur Rahaman**, Nathan Mise, Akihiko Ikegami, Cai Zong, Gaku Ichihara, Sahoko Ichihara, 2023. The mechanism of low-level arsenic exposure-induced hypertension: Inhibition of the activity of the angiotensin-converting enzyme 2. *Chemosphere*, Vol. 318, 137911. DOI: <https://doi.org/10.1016/j.chemosphere.2023.137911>
2. **Md. Shiblur Rahaman**, Nathan Mise, Sahoko Ichihara, 2022. Arsenic contamination in food chain in Bangladesh: A review on health hazards, socioeconomic impacts and implications. *Hygiene and Environmental Health Advances*, Vol. 2, 100004. DOI: <https://doi.org/10.1016/j.heha.2022.100004>
3. **Md. Shiblur Rahaman**, Md Mostafizur Rahman, Nathan Mise, Md Tajuddin Sikder, Gaku Ichihara, Md Khabir Uddin, Masaaki Kurasaki, Sahoko Ichihara, 2021. Environmental arsenic exposure and its contribution to human diseases, toxicity mechanism and management. *Environmental Pollution*, Vol. 289, 117940 DOI: <https://doi.org/10.1016/j.envpol.2021.117940>
4. **Md. Shiblur Rahaman**, Mahmuda Akter, Md. Mostafizur Rahman, Md. Tajuddin Sikder, Toshiyuki Hosokawa, Takeshi Saito, Masaaki Kurasaki, 2020. Investigating the protective actions of D-pinitol against arsenic-induced toxicity in PC12 cells and the underlying mechanism. *Environmental Toxicology and Pharmacology*, Vol. 74, 103302. DOI: <https://doi.org/10.1016/j.etap.2019.103302>
5. **Md. Shiblur Rahaman**, Subrata Bank, Mahmuda Akter, Md. Mostafizur Rahman, Md. Tajuddin Sikder, Toshiyuki Hosokawa, Takeshi Saito, Masaaki Kurasaki, 2020. Curcumin alleviates arsenic-induced toxicity in PC12 cells via modulating autophagy/apoptosis. *Ecotoxicology and Environmental Safety*, Vol. 200, 110756. DOI: <https://doi.org/10.1016/j.ecoenv.2020.110756>
6. **Md. Shiblur Rahaman**, Shojiro Yamasaki, Kaniz Fatima Binte Hossain, Toshiyuki Hosokawa, Takeshi Saito, Masaaki Kurasaki, 2020. Effects of curcumin, D-pinitol alone or in combination in cytotoxicity induced by arsenic in PC12 cells. *Food and Chemical Toxicology*, Vol. 144, 111577. DOI: <https://doi.org/10.1016/j.fct.2020.111577>
7. **Md. Shiblur Rahaman**, Fozia Momotaz, Afrida Nurain, Protima Sarker, Sahoko Ichihara, 2020. Investigation of ETP Facilities and the Industrial Effluents Quality: A Case Study in Noakhali Industrial Area, Bangladesh. *Present Environment and Sustainable Development*. Vol. 14, (2), 151-162. DOI: <https://doi.org/10.15551/pesd2020142012>
8. **Md. Shiblur Rahaman**, Nazmul Hossain, Afrida Nurain, Protima Sarker, Sahoko Ichihara, 2020. Investigation on causes and effects of waterlogging in the southern part of Bangladesh. *Management of Sustainable Development (MSD)*. Vol. 12, (2), pp. 4-11. <https://msdjournal.org/wp-content/uploads/vol12issue2-1.pdf>
9. Rajeev K. Singla et al., 2022. The International Natural Product Sciences Taskforce (INPST) and the power of Twitter networking are exemplified through #INPST hashtag analysis. *Phytomedicine*, 108, 154520. DOI: <https://doi.org/10.1016/j.phymed.2022.154520>

10. Geir Bjørklund, **Md. Shiblur Rahaman**, Mariia Shanaida, Roman Lysiuk, Petro Oliynyk, Larysa Lenchyk, Salvatore Chirumbolo, Christos T. Chasapis, and Massimiliano Peana, 2022. Natural Dietary Compounds in the Treatment of Arsenic Toxicity. *Molecules*, 27 (15), 4871. DOI: <https://doi.org/10.3390/molecules27154871>
11. Kaniz Fatima Binte Hossain, Mahmuda Akter, Md. Mostafizur Rahman, Md. Tajuddin Sikder, **Md. Shiblur Rahaman**, Shojiro Yamasaki, Tomomi Tomihara, Masaaki Kurasaki, Takeshi Saito, 2021. Amelioration of Metal-Induced Cellular Stress by α -Lipoic Acid and Dihydrolipoic Acid through Antioxidative Effects in PC12 Cells and Caco-2 Cells. *International Journal of Environmental Research and Public Health*. 2021; 18(4):2126. DOI: <https://doi.org/10.3390/ijerph18042126>
12. Qin Song, Shouhei Iku, Rachel Sammons, Kimitoshi Yagami, Toshitake Furusawa, Koichi Morimoto, **Md. Shiblur Rahaman**, Masaaki Kurasaki, Seiichi Tokura, Yoshinori Kuboki, 2021. Binding of collagen gene products with titanium oxide. *Journal of Biochemistry*, 169 (5), 565–573. DOI: <https://doi.org/10.1093/jb/mvaa146>
13. Abdullah Al Mamun, Protima Sarker, Md. Shiblur Rahaman, Md. Mahbub Kabir, Masahiro Maruo, 2021. Evaluation of contamination and accumulation of heavy metals in the Dhaleswari river sediments, Bangladesh. *International Journal of Environment*, 10 (1), 1–19. DOI: <https://doi.org/10.3126/ije.v10i1.38399>
14. Geir Bjørklund, Petro Oliynyk, Roman Lysiuk, **Md. Shiblur Rahaman**, Halyna Antonyak, Iryna Lozynska, Larysa Lenchyk, Massimiliano Peana, 2020. Arsenic intoxication: general aspects and chelating agents. *Archives of Toxicology*, April 2020. <https://doi.org/10.1007/s00204-020-02739-w>
15. Geir Bjørklund, Maryam Dadar, Massimiliano Peana, **Md. Shiblur Rahaman**, Jan Aaseth., 2020. Interactions between iron and manganese in neurotoxicity. *Archives of Toxicology*, January 2020. DOI: <https://doi.org/10.1007/s00204-020-02652-2>
16. Geir Bjørklund, Torsak Tippairote, **Md. Shiblur Rahaman**, Jan Aaseth., 2019. Developmental Toxicity of Arsenic: A Drift from the Classical Dose-Response Relationship. *Archives of Toxicology*, November 2019. DOI: <https://doi.org/10.1007/s00204-019-02628-x>
17. Mahmuda Akter, A. K. M. Atique Ullah, **Md. Shiblur Rahaman**, Md. Mostafizur Rahman, Md. Tajuddin Sikder, Toshiyuki Hosokawa, Takeshi Saito, Masaaki Kurasaki, 2019. Stability Enhancement of Silver Nanoparticles Through Surface Encapsulation via a Facile Green Synthesis Approach and Toxicity Reduction. *Journal of Inorganic and Organometallic Polymers and Materials*, November 2019. DOI: <https://doi.org/10.1007/s10904-019-01373-z>
18. Md. M Rahman, Kaniz Fatima B Hossain, Subrata Banik, Md. T Sikder, Mahmuda Akter, Serene Ezra C Bondad, **Md. Shiblur Rahaman**, Toshiyuki Hosokawa, Takeshi Saito, Masaaki KURASAKI., 2019. Selenium and zinc protections against metal-(loids)-induced toxicity and disease manifestations: A review. *Ecotoxicology and Environmental Safety*, vol.168, (2019) 146–163. DOI: <https://doi.org/10.1016/j.ecoenv.2018.10.054>

CONFERENCES PAPERS

1. **Md. Shiblur Rahaman**, Nathan Mise, Cai Zong, Gaku Ichihara, Sahoko Ichihara., 2023. Chronic arsenic exposure in the development of hypertension through the increase of angiotensin II and downregulation of angiotensin-converting enzyme 2. Proceedings of the 14th International Seminar on Technological Advances in Health, Agriculture, and Environment organized by BJSPSAA and JSPS (Thailand office), pp-38-39.
2. **Md. Shiblur Rahaman**, Nathan Mise, Cai Zong, Gaku Ichihara, Sahoko Ichihara., 2022. Molecular mechanism of arsenic-induced hypertension: Inhibition of the vasoprotective axes of the renin-angiotensin system by arsenite. The 49th Annual Meeting of the Japanese Society of Toxicology, Sapporo, Japan. *The Journal of Toxicological Sciences (J.Toxicol. Sci.)* Vol. 47, Supplement, 2022, pp-S114.
3. **Md. Shiblur Rahaman**, Nathan Mise, Cai Zong, Gaku Ichihara, Sahoko Ichihara., 2022. Arsenic increased blood pressure in mice via enhancement of angiotensin II and inhibition of ACE2. The 92nd Annual Meeting of the Japanese Society for Hygiene, Hyogo, Japan. *Japanese Journal of Hygiene*, March 2022.
4. **Md. Shiblur Rahaman**, Nathan Mise, Cai Zong, Gaku Ichihara, Sahoko Ichihara., 2022. Arsenic increased blood pressure in mice via enhancement of angiotensin II and inhibition of ACE2. *The 21st Molecular Preventive Environmental Medicine conference*, University of Tokyo, Japan. Book of abstracts, PP28.

5. **Md. Shiblur Rahaman**, Masaaki Kurasaki., 2021. Ameliorative effect of curcumin on arsenic-induced cytotoxicity in PC12 cells. The 48th Annual Meeting of the Japanese Society of Toxicology, Kobe, Japan. *The Journal of Toxicological Sciences (J.Toxicol. Sci.)*, Vol. 46, Supplement, 2021, PP-s228.
6. **Md. Shiblur Rahaman**, Shafi M. Tareq, Md. Khabir Uddin., 2021. Characteristics and mobility of dissolved organic carbon and trace metals in the Ganges-Brahmaputra River, Bangladesh. *The 16th Edition of Present Environment and Sustainable Development International Conference*, Alexandru Ioan Cuza University of Iași, Romania, BOOK OF ABSTRACTS, PP51.
7. **Md. Shiblur Rahaman** and Nazmul Hossain, 2020. An Investigation on Causes and Effects of Waterlogging in the Southern Part of Bangladesh: A Case Study in Noakhali Pourashava. *The 4th International Conference on Bangladesh Environment (ICBEN-4)*, Dhaka, Bangladesh. Book of abstracts, PP241.
8. **Md. Shiblur Rahaman**, Fozia Momotaz, Afrida Nurain, Protima Sarker, 2020. Investigation of ETP facilities and the industrial effluents quality: A case study in Noakhali industrial area, Bangladesh. *The 15th Edition of Present Environment and Sustainable Development International Conference*, Alexandru Ioan Cuza University of Iași, Romania, BOOK OF ABSTRACTS, PP38-39.
9. **Md. Shiblur Rahaman**, Toshiyuki Hosokawa, Takeshi Saito, Masaaki Kurasaki., 2020. Cytoprotective effects of D-pinitol against arsenic-induced oxidative damage in PC12 cells. *Japanese Journal of Hygiene*, March 2020, supplement 75.

ACADEMIC PRESENTATIONS AND INVITED TALK

1. “Chronic arsenic exposure in the development of hypertension through the increase of angiotensin II and downregulation of angiotensin-converting enzyme 2” in *the 14th International Seminar on Technological advances in Health, Agriculture and Environment organized by BJSPSA and JSPS (Thailand office)*, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh, February 25, 2023.
2. “Molecular mechanism of arsenic-induced hypertension: Inhibition of the vasoprotective axes of the renin-angiotensin system by arsenite” in the *49th Annual Meeting of the Japanese Society of Toxicology*, at Sapporo, Japan, June 30 - July 2, 2022.
3. “Arsenic increased blood pressure in mice via enhancement of angiotensin II and inhibition of ACE2” in the *92nd Annual Meeting of the Japanese Society for Hygiene*, at Hyogo, Japan. March 21-23, 2022.
4. “Arsenic increased blood pressure in mice via enhancement of angiotensin II and inhibition of ACE2” in the *21st Molecular Preventive Environmental Medicine conference*, at the University of Tokyo, Japan. February 11-12, 2022.
5. “Ameliorative effect of curcumin on arsenic-induced cytotoxicity in PC12 cells” in the *48th Annual Meeting of the Japanese Society of Toxicology*, at Kobe, Japan. July 7-9, 2021.
6. “Characteristics and mobility of dissolved organic carbon and trace metals in the Ganges-Brahmaputra River, Bangladesh” in the *16th Edition of Present Environment and Sustainable Development International Conference*, at Alexandru Ioan Cuza University of Iași, Romania, June 18-19, 2021.
7. “Cytoprotective effects of D-pinitol against arsenic-induced oxidative damage in PC12 cells” in the *90th Annual Meeting of the Japanese Society for Hygiene*, at Morioka, Japan. March 19-21, 2020.
8. “Microplastics, Environmental and Health Issues” in *HU-SNU-MU Joint Symposium on Environmental Chemicals and Human Health* at Seoul National University, South Korea. November 21-22, 2019.
9. “Potential of common Ice plant (*Mesembryanthemum crystallinum*) for Phyto-desalination of Saline water” in an *International Workshop on “Sustainable Urban Development for the World’s Megacities”* organized by 2018 ProSPER.Net Young Researchers’ School held at Shonan International Village, Kanagawa, Japan. March 04-11, 2018.
10. **Invited Talk** on “Arsenic: A King of Poison” in *JSPS Science Dialogue FY2021* at Fukushima Prefectural Asaka High School, Fukushima, Japan. December 1, 2021.

EDITORIAL/REVIEWER BOARD MEMBER OF ACADEMIC JOURNALS

- Frontiers in Environmental Science
- International Journal of Environmental Research and Public Health (IJERPH)
- Journal of Multidisciplinary Applied Natural Science

REVIEWER OF ACADEMIC JOURNALS

- Arabian Journal of Chemistry (Elsevier)
- Biological Trace Element Research (Springer)
- Biomedicine & Pharmacotherapy (Elsevier)
- Brain Research (Elsevier)
- Chemosphere (Elsevier)
- Current Pollution Reports (Springer)
- Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy (Dovepress)
- Environmental Science and Pollution Research (Springer)
- Environments (MDPI)
- European Journal of Integrative Medicine (Elsevier)
- Exposure and Health (Springer)
- Frontiers in Environmental Science (Frontiers)
- Groundwater for Sustainable Development (Elsevier)
- International Journal of Environmental Research and Public Health (IJERPH) (MDPI)
- International Journal of Molecular Sciences (MDPI)
- Journal of Personalized Medicine (MDPI)
- Journal of Xenobiotics (MDPI)
- Nutrition and Dietary Supplements (Dovepress)
- Oil Crop Science (Elsevier)
- Present Environment and Sustainable Development (ISSN: 2284-7820)
- Regional Studies in Marine Science (Elsevier)
- Sustainability (MDPI)
- Toxics (MDPI)
- Water (MDPI)
- Water Air and Soil Pollution (Springer)

MEMBER OF PROFESSIONAL ORGANIZATIONS

- American Chemical Society (32754365)
- Society of Environmental Science, Japan (04353)
- Japanese Society of Toxicology (11402)
- The Japanese Society for Hygiene (5016)
- International Society for Development and Sustainability (Japan)
- Bangladesh Botanical Society (A-540)
- Toxicology Society of Bangladesh (46)
- Bangladesh Society of Environmental Scientists (BSES)
- The International Natural Product Sciences Taskforce (INPST)
- Good Practice in Traditional Chinese Medicine Research Association (GPTCM RA)
- Japanese Universities Alumni Association in Bangladesh (JUAAB) (578)
- Bangladesh JSPS Alumni Association (BJSPSAA) (179)

SCHOLARSHIPS/AWARDS

- **JSPS Postdoctoral Fellowship (FY 2021-2022)** for Research in Japan (Standard) offered by the Japan Society for the Promotion of Science (JSPS), for conducting postdoctoral research.
- **Japanese Government (Monbukagakusho) Scholarship (2017-2020)**, the Japanese Ministry of Education, Culture, Sports, Science and Technology, for conducting doctoral research.
- **Congress Awardee for the 20th International Congress for Tropical Medicine and Malaria (ICTMM2020)**, Bangkok International Trade and Exhibition Centre (BITEC), Bangkok, Thailand, October 2022.
- **HU-SNU-MU Joint Symposium 2019 Travel grant**, Seoul National University, 2019.

- **ProSPER.Net Young Researcher School Fellowship 2018**, United Nations University, 2018.
- **University Merit Scholarship** for the full academic years in M.S and B.Sc programs.
- **EXIM BANK Merit scholarship** from 2010 to 2014.
- **National Science and Technology (NST) Fellowship 2014-15**, Ministry of Science and Technology, Bangladesh, 2015

IMPORTANT TRAINING AND WORKSHOP ATTENDED

1. Participated in 7 days of training (8th May to 16th May 2013) on “Integrated disaster management and Climate change”, organized by Sheikh Hasina National Youth Centre, Department of Youth Development, Ministry of Youth and Sports, Bangladesh.
2. Participated in 3 days of training (10th June to 12th June 2013) on “Cattle farming and Management” organized by Bangladesh Livestock Research Institute (BLRI), Savar, Dhaka.
3. Participated in 3 days of training (11th March to 13th March 2014) on “Community Volunteer Training on Search in Collapse Building, Rescue, Fire Extinguish and First Aid” organized by Fire Service and Civil Defense Directorate, Bangladesh.
4. Participated in a Workshop (15th March 2014) on “Development of Indigenous ETP and Foundation of Water Research Center” Arranged by HEQEP Sub Project, CP-2334, Department of Environmental Sciences, Jahangirnagar University.
5. Participated in a training (27-28th November 2014) on “Effluent Treatment Plant (ETP) operation and maintenance” Conducted by Mr. Rüdiger Heidebrecht – Head of Department, Training and International Cooperation from German Association for Water, Wastewater and Waste (DWA) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
6. Participated in a Workshop (14th February 2015) on “Wastewater Treatment and Inauguration of Water Research Center” Arranged by HEQEP Sub Project, CP-2334, Department of Environmental Sciences, Jahangirnagar University.
7. Participated in a Short course (28 November-01 December 2016) on “Water Quality Management for Sustainable Development” Arranged by Department of Civil and Environmental Engineering (CEE), Islamic University of Technology (IUT), Gazipur-1704, Bangladesh.
8. Participated in a training program (20 October 2016) on “The Essential Electronic Agricultural Library” held at Noakhali Science and Technology University.
9. Participated in a training program (24, 25 and 26 May 2017) on “Introduction to Computational Biology” held at Noakhali Science and Technology University.
10. Participated in a training program (08-13 August 2017) on “Application of Statistical Methods for Analyzing Data by STATA” organized by ICF, Bangladesh Agricultural University, Mymensingh.
11. Participated in a Seminar (28 November 2017) on “Writing for journal submission” conducted by FORTE Science Communications and arranged by the International Human Resource Development Program (I-HoP), Hokkaido University, Japan.
12. Participated as a Teacher in Hokkaido English Camp in Kitami (11-14 January 2018) at Nepal Kitami organized by the Hokkaido Board of Education at Okhotsk, Japan.
13. Participated as a Teacher in the 15th Global village 2018 (19-20 May 2018) at National Hidaka Youth Outdoor Learning Center in Hidaka Town, Hokkaido, Japan organized by Hokkai-gakuen Sapporo High School, Hokkaido, Japan.
14. Participated in a Workshop (04-11 March 2018) on “Sustainable Urban Development for the World’s Megacities” organized by 2018 ProSPER.Net Young Researchers’ School held at Shonan International Village, Kanagawa, Japan.

15. Participated in a Ph.D. Lunch Talk (23 May 2018) arranged by the International Human Resource Development Program (I-HoP), Hokkaido University, Japan.
16. Participated in a training program (23-24 October 2018) on the “Mendeley training Session” arranged by the Library Learning and Teaching support section, Hokkaido University, Japan.
17. Participated in a workshop (24 October 2018) on “Intercultural Communication” conducted by Mr. Masakuni Yoshinaka, Global Professional Development Consultant at ALC Press Inc. and arranged by the International Human Resource Development Program (I-HoP), Hokkaido University, Japan.
18. Participated in a Seminar (16th January 2019) on “Improving your presentation skills” arranged by the Research Support Division, Hokkaido University Library, Japan.
19. Participated in a Workshop (1st August 2019) on “Useful tips to know for publishing a scientific paper” arranged by the Center for Environmental and Human Sciences, Hokkaido University, Japan.
20. Participated in a Seminar (7th August 2020) on “Time Management: Organize and Prioritize to Increase Your Productivity” by Dr. Greg Story, President of Dale Carnegie Training Japan.
21. Participated in a workshop (3rd June 2024) on “Faculty Mentoring Workshop” arranged by the Biomedical Research, Innovation, Training, and Employment (BRITE) Consortium and the Center for the Improvement of Mentored Experiences in Research (CIMER) at Walker County Education Center (near SHSU campus in Huntsville, TX, USA)

JUDGE

Serving as a judge for the “2nd International Competition for Young Researchers 2022” organized by UniV from 21 July 2022 to 31 October 2022.

Serving as a reviewer for “2nd EMA International Poster Competition 2024: Research Beyond Boundaries” organized by Erasmus Mundus Association (EMA) (<https://www.em-a.eu/ema-poster-competition>)

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