

# **KHANDOKER TAHMINA TASNIM**



## **CONTACT ADDRESS**

Leather Research Institute  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Nayarhat, Savar, Dhaka-1350, Bangladesh  
Mobile: (+880)1768525297, (+880)1933306055  
E-mail:khandokertahminadu93@gmail.com

## **RESEARCH INTEREST**

Micro-plastics, organic pesticides, mechanism study, polymer study, synthesis of naturally and medicinally important compounds, environmental chemistry, bio-inorganic chemistry, medicinal chemistry, natural products.

## **EDUCATION**

### **University of Dhaka, Bangladesh**

*Master of Science in Organic Chemistry (Thesis group), GPA: 3.90/4.00* *January, 2020*

### **University of Dhaka, Bangladesh**

*Bachelor of Science in Chemistry (Project group), CGPA: 3.61/4.00* *July, 2018*

### **Rajuk Uttara Model College, Dhaka, Bangladesh**

*Higher Secondary Certificate (HSC), GPA: 5.00/5.00* *July, 2012*

## **RESEARCH EXPERIENCE**

**Project Title: Study of Fatty Acid Compositions and Heavy Metals in Marine Fish Samples**

**Thesis Title: Study of Micro-plastics, Organochlorine Pesticides, Heavy Metals and Fatty Acid Compositions in Freshwater Fish Samples**

- Determination of water, ash and fat contents in different fish samples and making comparison of these content in individual fish
- Identification of the presence of microplastics in gastrointestinal tracts of the fishes
- Identification and quantification of organochlorine pesticides in the fishes using gas chromatography equipped with electron-captured detector (GC-ECD)
- Comparison of the organochlorine pesticides contents among the fishes
- Identification and quantification of fatty acid compositions in the fishes using gas chromatography equipped with flame ionization detector (GC-FID)
- Comparison between the amount of saturated and unsaturated fatty acid compositions present in each fishes
- Determination of heavy metals quantitatively of the fishes by Atomic Absorption Spectrometry (AAS)

## **CURRENT R&D PROJECTS**

- Preparation of Aluminum (Al) based tanning material ( $\text{Na}_2\text{Al}_2\text{Si}_2\text{O}_8 \cdot x\text{H}_2\text{O}$ ) for leather precessing.
- Banana Bunch- a new source of vegetable tanning agent for leather processing.

## **PUBLICATIONS**

- **Tasnim, Khandoker & Akter, Sunjida & Shoeb, Mohammad & Farha, Waziha.** (2020). Fatty Acid Compositions and Heavy Metals in Marine Fish Samples of Banglades. *Organic Chemistry Plus.* 46-51. 10.37256/ocp.122020457.
- **Mohammad Shoeb, Md. Mazharul Islam, Khandoker Tahmina Tasnim, Sunjida Akter, Md. Iqbal Rouf Mamun.** (2022) "Lipid content and fatty acid profile of commonly consumed freshwater and marine fish of Bangladesh," *Current Research on Biosciences and Biotechnology*, 4(1), pp. 256–261. Available at: <https://doi.org/10.5614/crbb.2022.4.1/j1lq0xtp>.

## **PRESENTATION IN SCIENTIFIC CONFERENCE**

- International Conference on Environmental Protection for Sustainable Development (ICEPSD-2022, OP-A3, page-86, Oral presentation).

- International Conference on Environmental Protection for Sustainable Development (ICEPSD-2022, OPB-25, Oral presentation).
- 39<sup>th</sup> Annual Conference of Bangladesh Chemical Society (BCC-18, PP-40, page-104, Poster Presentation).
- 42<sup>nd</sup> Annual General Meeting of Bangladesh Chemical Society (BCS-19, AC/PP-14, page- 122, Poster Presentation).
- International Conference on Recent Advanced in Chemistry (ICRAC, PP-E-25, page-210, Poster Presentation).
- International Conference on Recent Advanced in Chemistry (ICRAC, PP-E-26, page-211, Poster Presentation).

## **WORK EXPERIENCE**

---

- Intern at Bangladesh National Authority for Chemical Weapon Convention (BNACWC) which is the executive cell of OPCW.
- Inspected scheduled chemicals used in different pharmaceutical companies as an intern member of BNACWC.

## **HONOURS & AWARDS**

---

- **National Science and Technology (NST) Fellowship**  
Ministry of Science and Technology, Government of Bangladesh.
- **Best Poster Award**  
Poster presentation at International Conference on Recent Advanced in Chemistry organized by Department of Chemistry, Jagannath University, Bangladesh.

## **EXTRA-CURRICULAR ACTIVITIES**

---

- Successfully completed a training on “**Gas Chromatography**” at BCSIR, Dhaka
- Completed a short Course on “**Chemical Weapons Convention and Basics of Chemical Hazard and Safety**” from 12<sup>th</sup> to 22<sup>nd</sup> October, 2020 organized by Department of Chemical Engineering, BUET and BNACWC.
- Participated in “Plastic Free Week Challenge and Plogging” as volunteer to make the campus of the University of Dhaka plastic free to mark its centenary from 15<sup>th</sup> to 21<sup>st</sup> July, 2019, organized by Embassy of Sweden Dhaka, supported by Swedish Institute.
- Participated in two days long “Bangladesh Chemical Society Conference 2019” on “**Advances in Chemical Science: Impact on Life and Environment**” organized by Department of Chemistry, University of Rajshahi, Bangladesh held on 9-10<sup>th</sup> November, 2019.
- Volunteered at “**International Symposium on Chemical Safety and Security Management, 2020**” organized jointly by BUET and BNACWC on 11-12<sup>th</sup> February, 2020 in Dhaka, Bangladesh.

## **SKILLS**

---

**Laboratory Skills**      ICP-OES, GC-MSD, GC-ECD, GC-FID, IR, UV

**Computer Skills**      Microsoft word, Microsoft excel, Microsoft PowerPoint

## **REFERENCES**

---

1. Dr. Md. Tushar Uddin  
Senior Scientific Officer  
Leather Research Institute (LRI)  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Phone: +88-01712127119, Email: [tusarlri@yahoo.com](mailto:tusarlri@yahoo.com)
2. Dr. Sahana Parveen  
Chief Scientific Officer (Officer-in-Charge)  
Leather Research Institute (LRI)  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Phone:+88-01521334569, Email: [sahana66@gmail.com](mailto:sahana66@gmail.com)
3. Dr. Mohammad Shoeb  
Professor  
Department of Chemistry  
University of Dhaka  
Phone: +88-01715191988, Email: [shoeb71@yahoo.com](mailto:shoeb71@yahoo.com)