


**Curriculum Vitae**  
**of**  
**SHASHANKA SHEKHAR SARKER**

Leather Research Institute  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
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**Research Gate ID:** <https://www.researchgate.net/profile/Shashanka-Sarker>  
**Google Scholar ID:** <https://scholar.google.com/citations?hl=en&user=MmbVf14AAAAJ>  
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**Publons ID:** <https://www.webofscience.com/wos/author/record/HSG-0523-2023>

**EDUCATION:**

**Noakhali Science and Technology University**, MS, 2018. Microbiology

**Noakhali Science and Technology University**, BSc, 2017. Microbiology

**WORK EXPERIENCE:**

<b>Scientific Officer</b>	May 2022-Present
Bangladesh Council of Scientific and Industrial Research (BCSIR)	
<b>Research Assistant</b>	December 2018-August 2021
National Institute of Biotechnology (NIB)	
<b>Research Fellow</b>	September 2021-April 2022
National Institute of Biotechnology (NIB)	

**RESEARCH INTEREST:**

Microbiology, Molecular Biology, Biotechnology, Bioremediation, Waste Management

**SKILLS:**

**General Microbiology**

Techniques for isolation of pure cultures, Antimicrobial sensitivity test of microorganisms (qualitative), Identification of bacteria using microscopic and biochemical techniques, Identification of fungi using microscopic technique, Maintaining and preserving the bacterial as well as fungal culture.

## **Molecular Biology**

Extraction of DNA and RNA, Polymerase Chain reaction (PCR), Agarose Gel Electrophoresis, DNA purification from PCR product and agarose gel, DNA visualization and bioinformatic analysis of amplicons.

## **Analytical Biology**

Capable in handling and maintenance of analytical instruments such as UV-Visible Spectrophotometer, Fluorometer, FT-IR, Dumas Protein Analyzer, PCR machine, Gel Electrophoresis, Gel Documentation, and so on.

## **Technical skills**

- ✓ Bibliographic database (EndNote), and communications software
- ✓ Sequence analysis by FinchTV
- ✓ Basic Local Alignment Search Tool (BLAST)
- ✓ Molecular Evolutionary Genetics Analysis (MEGA)

## **CURRENT WORKS:**

- Development of a natural colorant having anti-microbial property for dyeing leather- Project associate
- Preparation of fat liquor for leather processing from Rubber (*Hevea Brasiliensis*) seed oil- Project associate
- Development of technique to preserve hides/skins from *Gossypium hirsutum* seed.- Project associate

## **PUBLICATIONS:**

1. **Shashanka Shekhar Sarker**, Kh. Muhim Ahmed, Tanzena Tanny, Shamima Nasrin, A. H. M. Mahbubur Rahman, Keshob Chandra Das & Iftekhar Alam (2023) **Molecular identification and high fidelity micropropagation of shell ginger (*Alpinia zerumbet*)**, All Life, 16:1. DOI: 10.1080/26895293.2023.2169960