

ABU JAR AL GIFARY

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Career Profile

A dedicated academician aiming to integrate specialized knowledge in Plant Sciences, Plant Biotechnology, and Genetic Engineering with innovative teaching methodologies. Committed to advancing high-impact research, promoting institutional growth, and ensuring sustained academic excellence at Gopalganj Science and Technology University.

Current Professional Experience

- **Lecturer**, Department of Botany, Faculty of Life Science, Gopalganj Science and Technology University (October 03, 2023 – Present)

Administrative Experience

- **Assistant Provost**, Shaheed Titumir Hall, Gopalganj Science and Technology University (March 05, 2026 – Present)

Professional Training

- **Professional Development Training for University Faculty**, University Grants Commission of Bangladesh (HEAT Project) (Oct 2025 – Feb 2026)
 - Nominated and deputed as a faculty representative from Gopalganj Science and Technology University for this 4-month intensive residential foundation training.
 - Collaborated with faculty members from 35 leading public and private universities at the Bangladesh Open University campus.
 - Completed comprehensive modules on Advanced Pedagogy, Outcome-Based Education (OBE) curriculum design, Research & Development, and Professionalism.

Academic Qualifications

Degree	Institution	Result / Achievement	Passing Year
M.S. in Botany (Plant Genetic Eng. & Biotechnology)	University of Dhaka	CGPA 4.00 out of 4.00 (1st Position)	2019
B.S. in Botany	University of Dhaka	CGPA 3.96 out of 4.00 (1st Position)	2018
H.S.C (Science)	Rajshahi College	GPA 5.00 out of 5.00	2014
S.S.C (Science)	Tarash Islamia Pilot High School	GPA 5.00 out of 5.00	2012

Awards, Honors & Scholarships

- **1st Position (Merit Order 1st)** in both M.S. and B.S., Department of Botany, University of Dhaka
- **National Science and Technology (NST) Fellowship 2019** – Ministry of Science and Technology, Government of Bangladesh
- **Quazi Abdul Fattah and Khurshida Banu Fattah Gold Medal 2018** – University of Dhaka (For outstanding academic excellence in B.S.)
- **Dean's Award (2017–2018)** – Faculty of Biological Sciences, University of Dhaka
- **UGC Honors Board Scholarship 2018** – University Grants Commission of Bangladesh
- **Higher Secondary Certificate (H.S.C.) Board Scholarship 2014** – Board of Intermediate and Secondary Education, Rajshahi
- **Secondary School Certificate (S.S.C.) Board Scholarship 2012** – Board of Intermediate and Secondary Education, Rajshahi

Funded Research Projects

- **Principal Investigator (2025 – 2026):** A Comprehensive Monograph on *Calotropis gigantea* (L.) Dryand: An Integrated Exploration of Its Taxonomy, Anatomy, and Ethnobotanical Significance in Gopalganj, Bangladesh. Funded by: Gopalganj Science and Technology University Research Center (GSTU-RC) / UGC. Grant Amount: 1,40,000 BDT.
- **Principal Investigator (2024 – 2025):** Study of algal population diversity with seasonal variation from different water bodies in Gopalganj. Funded by: Gopalganj Science and Technology University Research Center (GSTU-RC) / UGC. Grant Amount: 1,40,000 BDT.

Publications

- Rita Sarah Borna, S. Mitra, A. J. A. Gifary and R. H. Sarker (2021). Characterization of Multiple Grain Rice (*Oryza sativa* L.) Biramsundari from Bangladesh. *Plant Tissue Culture and Biotechnology*, 31(2): 115-122. Role: Co-author. DOI: <https://doi.org/10.3329/ptcb.v31i2.57339>

Conferences & Presentations

- Poster Presenter | 9th International Plant Tissue Culture and Biotechnology Conference (2020), Organized by Department of Botany, University of Dhaka, Bangladesh. Title: "Development of salt and drought-tolerant rice varieties through *Agrobacterium*-mediated genetic transformation."

Thesis

M.S. Thesis: *In vitro* regeneration and analysis of the drought-responsive *OsNAC1* gene in *Oryza sativa* L. Associated with Plant Breeding and Biotechnology Laboratory, Department of Botany, University of Dhaka (Duration: 1 Year).

Research & Technical Skills

- **Laboratory Expertise:** Plant Tissue Culture, *Agrobacterium*-mediated Genetic Transformation, Nucleic Acid (DNA/RNA) Extraction, PCR, and Gel Electrophoresis.
- **Data Analysis & Statistics:** R Programming, SPSS, JASP, and MAXQDA (for quantitative and qualitative data analysis).
- **Bioinformatics:** Sequence Alignment (BLAST), Phylogenetic Tree Construction (MEGA), and Primer Design.

- **Computer & Graphic Skills:** Microsoft Office Suite and Affinity (for scientific illustrations and image editing).

Leadership, Institutional & Extra-Curricular Activities

- **Convener**, Discipline Committee, Professional Development Training for University Faculty (UGC HEAT Project, 2025-2026).
- **Advisor**, Botany Club, Gopalganj Science and Technology University (GSTU).
- **Convener**, Freshers' Reception (Nobinboron) & Farewell Ceremony Committees, Department of Botany, GSTU.
- **Faculty Guide / Coordinator**, Student Academic Study Tours, Department of Botany, GSTU.
- **Volunteer**, 9th International Plant Tissue Culture and Biotechnology Conference (Feb 2020), Dept. of Botany, DU.
- **Volunteer**, Plastic Free Week Challenge and Plogging by Swedish Alumni Network Bangladesh.
- **Former Member**, Dhaka University Science Society, Bangladesh Biology Olympiad, and Tarupallab.

Personal Details

Father's Name	MD. ANAWAR HOSSAIN	Mother's Name	MOST. KHADIGATUL KOBRA BIN HOSSAIN
Date of Birth	April 24, 1997	Marital Status	Married (Spouse: ISHRAT JAHAN AMI)
Nationality	Bangladeshi	Religion	Islam
Blood Group	B+	Permanent Address	Tarash Uttar Para, Post: Tarash-6780, Upazila: Tarash, District: Sirajganj.

References

Name	Designation & Organization	Contact Info
Dr. Rita Sarah Borna	Assistant Professor, Dept. of Botany, University of Dhaka	Email: borna_rs@du.ac.bd Phone: +88-01774872990
Dr. Tahmina Islam	Associate Professor, Dept. of Botany, University of Dhaka	Email: t.islam@du.ac.bd Phone: +880-1323580047
Dr. Mohammad Nurul Islam	Professor, Dept. of Botany, University of Dhaka	Email: mnurul@du.ac.bd Phone: +880-29661900