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MD TAHRIM KOBIR RIYAD

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ABOUT ME

Third-year **B.Sc. in Agriculture (Hons.)** student from Sylhet Agricultural University with research background in **Plant Stress Physiology, Molecular Biology, and Bioinformatics**. Took part in various research activities at the University as a **University Research Assistant**, including **DNA extraction, plant biochemical profiling, seed germination, abiotic stress experiments, and computational analysis of plant genomic data**. Proficient in **gene family analysis, sequence and phylogenetic analysis, genomic data mining, gene expression profiling, R, Python, and bioinformatics tools**. To work towards functional genomics, crop stress resilience, and climate-smart agriculture at multidisciplinary and international platforms.

EDUCATION AND TRAINING

6 OCT 2023 – CURRENT Sylhet, Bangladesh

BACHELOR OF SCIENCE IN AGRICULTURE (B. SC. AG. HONS.) Sylhet Agricultural University

Plant Physiology • Crop Science • Plant Biotechnology • Genetics & Plant Breeding • Soil Science • Plant Pathology • Entomology • Agricultural Biochemistry • Environmental & Agro-ecosystem Science • Agricultural Statistics & Research Methods

Level in EQF EQF level 6

12 OCT 2020 – 24 DEC 2022 Mymensingh, Bangladesh

HIGHER SECONDARY CERTIFICATE (HSC) – SCIENCE Govt. Ananda Mohon College, Mymensingh, Bangladesh

Field of study Education | **Level in EQF** EQF level 4

WORK EXPERIENCE

RESRARCH ASSISTANT – GENETICS LAB, SAU – 17 May 2026 – Current – SYLHET, BANGLADESH

Bioinformatics & Computational Genomics

- **Gene Family Analysis:** Genome-wide identification, domain/motif characterization, gene structure, chromosomal localization, duplication, synteny, phylogenetic, and evolutionary analysis of plant gene families.
- **Functional Analysis:** GO/KEGG annotation, cis-element analysis, protein structure prediction, and stress-responsive gene expression profiling.
- **Tools:** NCBI, TAIR, Phytozome, UniProt, InterPro, MEME, TBtools, MEGA, iTOL, AlphaFold, and eFP Browser.

RESEARCH ASSISTANT – AGRONOMY LAB, SAU – 20 Feb 2025 – Current – SYLHET, BANGLADESH

Technical & Research Competencies

Wet Lab & Plant Physiology

- **Molecular & Biochemical Techniques:** DNA extraction, biochemical assays for antioxidant enzymes (**SOD, POD, CAT, APX**) and stress markers (**MDA, Chlorophyll, TPC, TFC**).
- **Instrumentation:** Operation of **UV–Vis Spectrophotometer** and specialized biological sample preparation.
- **Stress Physiology:** Designing and conducting **seed germination** and abiotic stress resilience experiments.

Research Design & Data Analysis

- **Research Methodology:** Experimental design (**CRD**), statistical analysis, and **in silico** data interpretation.
- **Academic & Research Skills:** Scientific writing, **Mendeley** reference management, data interpretation, and scientific communication.

PROFESSIONAL MEMBERSHIP / AFFILIATIONS – 12 May 2026 – Current – SYLHET, BANGLADESH

Member: American Society of Plant Biologists
Member: The American Phytopathological Society
Member: The American Society of Horticultural Science

SKILLS

UV–Vis Spectrophotometer Operation | Biochemical Assays (Chlorophyll, TPC, TFC, MDA, SOD, POD, CAT, APX) | DNA Extraction | Plant Biochemical Analysis | Bioinformatics Tools (NCBI, BLAST, MEGA/PhyloSuite) | Experimental Design & Data Analysis | Seed Germination & Stress Physiology Experiments | Research Teamwork & Scientific Communication | Academic Writing & Presentation Skills

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CERTIFICATIONS

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

Law and Genetics — **University of Cambridge** (via Coursera), [2026]
- Legal and ethical frameworks, biotechnology regulation, intellectual property, and healthcare ethics.
- **Certificate:** https://coursera.org/verify/ZROSAKCJ6ZL3

Epigenetic Control of Gene Expression — **University of Melbourne** (via Coursera), [2026]
- Epigenetic mechanisms, gene regulation, molecular biology, cell biology, and biochemistry.
- **Certificate:** https://coursera.org/verify/Q7SYCHYGGV32

Plant Bioinformatics Methods Specialization — **University of Toronto** (via Coursera), [2026]
- Plant genomic and transcriptomic analysis, phylogenetics, comparative genomics, and bioinformatics tools.
- **Certificate:** https://coursera.org/verify/specialization/HGBR5II0ZXTR

Bioinformatics: Introduction and Methods — **Peking University** (via Coursera), [2026]
- Bioinformatics fundamentals, sequence analysis, statistical methods, and biological data processing.
- **Certificate:** https://coursera.org/verify/MF1DCKLEVWN6

Sustainable Agricultural Land Management — **University of Florida** (via Coursera), [2026]
- Sustainable agriculture, natural resource management, land management, water resources, environmental science, and sustainable development.
- **Certificate:** https://coursera.org/verify/U7I9E4LLWNG

Understanding Plants – Part I: What a Plant Knows — **Tel Aviv University** (via Coursera), [2026]
- Plant physiology, molecular biology, scientific methods, biological research, sensory systems, experimentation, and plant–environment interactions.
- **Certificate:** https://coursera.org/verify/IW4VE21AW97

Data Analysis with R Specialization — **Duke University** (via Coursera), [2026]
- Statistical analysis, regression, data visualization, and reproducible data analysis using R.
- **Certificate:** https://coursera.org/verify/specialization/7M0WBO119F3P

Applied Machine Learning in Python — **University of Michigan** (via Coursera), [2026]
- Machine learning, predictive modeling, classification, clustering, and model evaluation.
- **Certificate:** https://coursera.org/verify/USCDNT8QWXCT

Python for Genomic Data Science — **Johns Hopkins University** (via Coursera), [2026]
- Python programming, genomic data processing, file handling, and bioinformatics pipeline development.
- **Certificate:** https://coursera.org/verify/0VITF6QO0DKA

Mode of learning: Online

CONFERENCES AND SEMINARS

29 OCT 2026 – 31 OCT 2026 Sylhet Agricultural University, Bangladesh

Fifth International Conference of the Bangladesh Society of Plant Science and Technology (BSPST)

1. Jahan, T., **Riyad, M. T. K.**, Aqib, K. M. A. Z., Rahman, M. A., Munna, M. M. H., & Jone, M. J. H. *Genome-Wide Identification and Characterization of the Rad5/16-Like Group Chromatin Remodeling Gene Family in Arabidopsis thaliana with Their Developmental, Hormonal, and Stress-Responsive Expression.* **Poster presentation; presenting author.**
2. Anzum, N., Bhuiyan, M. S. U., **Riyad, M. T. K.**, Rahman, M. A., Aqib, K. M. A. Z., & Sultana, S. *Unveiling Salicylic Acid-Mediated Drought Tolerance Mechanisms in Mustard (Brassica spp.) Genotypes Using a Multivariate Approach.* **Poster presentation; co-author.** Presenting author: Nafisa Anzum.
3. Munna, M. M. H., Aqib, K. M. A. Z., Rahman, M. A., **Riyad, M. T. K.**, Jahan, T., & Jone, M. J. H. *Expression Dynamics of the Cytochrome B5 Gene Family in Arabidopsis thaliana*: *Tissue Specificity, Phytohormonal Responsiveness, and Abiotic Stress Responses.* **Poster presentation; co-author.** Presenting author: KM Ahbab Zaman Aqib. **ResearchGate:** ResearchGate record | **DOI:** 10.13140/RG.2.2.11109.15846
4. Munna, M. M. H., Rasel, T. I., Islam, M. M., **Riyad, M. T. K.**, Aqib, K. M. A. Z., Rahman, M. A., Roy, D., Al Mobin, M. J., Emam, S. M. T., & Hoque, M. *Evaluation of Physiological and Biochemical Responses of Rice Landraces under Salinity Stress.* **Poster presentation; co-author.** Presenting author: Md Mahdi Hasan Munna.