

Ismat Jahan Anee

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Website:

Research Interest

Molecular Biology, Cell Biology, Aging, Host-Pathogen Interactions, Genetic Disease.

Education

Masters in Genetics & Molecular Biology (2018-2019)

University of Dhaka

CGPA 4.00 out of 4.00

Position: 1/75

Bachelors in Zoology (2015-2018)

University of Dhaka

CGPA 3.93 out of 4.00

Position: 1/75

Publications

2022

“The effect of RAD7 gene’s null mutation on single-cell aging”. Ismat Jahan Anee, Reza Md Shahjahan, Rowshan Ara Begum, Mohammad Shamimul Alam, Ashfaqu Muid Khandaker. Microbial Bioactives.

<https://doi.org/10.25163/microbbioacts.514307>

2021

“The role of probiotics on animal health and nutrition”; The journal of Basic and Applied Zoology, SpringerNature. Anee, I.J., Alam, S., Begum, R.A. et al. The role of probiotics on animal health and nutrition. JoBAZ 82, 52 (2021). <https://doi.org/10.1186/s41936-021-00250-x>

Conference Paper

2021

“The role of DNA repair genes on cellular aging.” Ismat Jahan Anee, Reza Md Shahjahan, Rowshan Ara Begum, Mohammad Shamimul Alam, Ashfaqu Muid Khandaker. 22nd National Conference & AGM 2020. Zoological Society of Bangladesh & Department of Zoology, University of Dhaka.

Work Experience

Research Fellow, Bangladesh Council of Scientific and Industrial Research

2022

Received Professor Nurul Afsar Khan Post Graduate Fellowship. Working on Project “Development of Molecular Biomarker for Antibiotic Residue in Fish.”

Short Term Consultant at The World Bank

November 2021 – Present

Project 1. Natural Capital Valuation and Spatial Planning for Southwest Region of Bangladesh.

Project 2. Bangladesh 2022 Country Environmental Analysis: Institutional Analysis.

Project 3. Gender dimensions and identifying business case for tackling Abandoned, Lost and Discarded Fishing Nets (ALDFN) and discarded plastics in coastal areas in Bangladesh

Research Assistant, University of Dhaka

August 2021 – April 2022

Under Project “Biological survey, genetic analysis, current dose assessment and genotoxicity evaluation of some candidate pesticides to rapidly control dengue/chikungunya vectors (*Aedes* spp.) in Bangladesh.”

Research Experience

Worked with Dr. Ashfaul Muid Khandaker on “The effect of RAD7 gene’s null mutation on single-cell aging”

2022

Status: Published (Microbial Bioactives); Keywords: DNA Repair Gene; mitochondria; cell aging; RAD7; *Saccharomyces cerevisiae*

- We deciphered aging on yeast model

Worked with Dr. Ashfaul Muid Khandaker on “The role of probiotics on animal health and probiotics”

2021

Status: Published (SpringerNature); Keywords: Probiotics; Poultry, Ruminant, Aquaculture, Immunity, Animal health

- We explained the molecular mechanism of probiotics
- We demonstrated how probiotics can modulate host gut system and provide beneficiary impact without causing drug resistance as like antibiotics
- We also presented all relevant experimental output for the major poultry, ruminant, and aqua sector to support and validate the use of probiotics for overall economic, and food sector welfare.

Worked with Dr. Ashfaul Muid Khandaker “The Role of DNA Repair Genes on Cellular Aging” (Master’s Thesis Work)

2021

Status: Completed

- Start writing here

Worked with Dr. Rowshan Ara Begum & Dr. Gawsia Wahidunnessa Chowdhury on “A Report on Water Analysis and Parameters of the Sundarban Rivers” (Undergraduate Field Work)

2018

Status: Completed

- Start writing here

Worked with IUCN, Bangladesh Team on “Investigation of Wild to Domestic Bird Avian Influenza Transmission: A Multiyear Monitoring and Surveillance Program, IUCN”

2017, 2018

Status: Completed

- Training on bird Ringing and Sample Collection.

Awards

Award	Awarded By	Year
Professor Nurul Afsar Postgraduate Fellowship	BCSIR	2022
Outstanding performance in the M.S. Examination	Majumder Abdul Muttalib & Habiba Begum Trust Fund Scholarship	2022
4th position, Urban Health Innovation Challenge 2021: Healthy Safe and Inclusive Cities	BRAC JPGSPH, BRAC University, World Vision	2021
M.S. Thesis Award	National Science and Technology Fellowship	2020
Regional Champion, Graduate and Postgraduate group	Zoology Olympiad	2019

Award	Awarded By	Year
Dean's Award for Brilliant Result in B. Sc. Honors	Dhaka University	2018
Brilliant Result in B. Sc. Honors	Honors Scholarship (Faculty of Biological Sciences)	2018
Outstanding Performance in the Fourth year B.Sc. Honors Examination	Razia Memorial Trust Fund Scholarship	2018
Outstanding Performance in the Third year B.Sc. Honors Examination	Asefa Huque Memorial Trust Fund Scholarship	2017

Trainings

R for Data Analysis

September 2019 – October 2019

Institute of Statistical Research and Training (ISRT), University of Dhaka

Spanish Junior Course (Level A)

2018

Institute of Modern Languages, University of Dhaka

Training Course on SPSS for Professionals & Students

April 2017

Department of Statistics, University of Dhaka

Volunteering Experience

Fellow

September-October 2020

Everyday Stories (BRAC JPGSPH, BLAST & CREA, Bangladesh)

Volunteer Field Assistant

March-May 2018

Faculty of Environment and Natural Resources, University of Freiburg, Germany

Academic Team Member

January 2015 – December 2017

Society for the Popularization of Science, Bangladesh (SPSB)

Reference

Dr. Ashfaqu Muid Khandaker

Assistant Professor, Dept. of Zoology, University of Dhaka,

Email: muid.zoo@du.ac.bd

Website: https://www.du.ac.bd/faculty/faculty_details/ZOO/2282

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