Ismat Jahan Anee

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# Research Interest

Molecular Biology, Cell Biology, Aging, Host-Pathogen Interactions, Infectious Disease, Therapeutic Drugs, Population Genetics.

# Education

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| Masters in Genetics & Molecular Biology  (2018-2019)  University of Dhaka  **CGPA 4.00 out of 4.00, Position: First** |  | Bachelors in Zoology  (2015-2018)  University of Dhaka  CGPA 3.93 out of 4.00, Position: First |

# Test Score

TOEFL iBT Score: 107 (R28 L27 S24 W28)

# Publications

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| 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, Ashfaqul Muid Khandaker. Microbial Bioactives. [[Link](https://publishing.emanresearch.org/Journal/Abstract/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). [[Link](https://doi.org/10.1186/s41936-021-00250-x)] |

# Conference Paper

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| 2022  “Analyzing the Effect of PMS1 Gene Deletion Mutation in Single Cell Aging.” International Conference on Environmental Protection for Sustainable Development (ICEPSD-2022); Forest and Environment Affairs Sub-Committee, Bangladesh Awami League. [[Link](https://www.researchgate.net/publication/363363866_Analyzing_the_Effect_of_PMS1_Gene_Deletion_Mutation_in_Single_Cell_Aging)] |
| 2021  “The role of DNA repair genes on cellular aging.” 22nd National Conference & AGM 2020. Zoological Society of Bangladesh & Department of Zoology, University of Dhaka. [[Link](https://www.researchgate.net/publication/363364472_THE_ROLE_OF_DNA_REPAIR_GENES_ON_CELLULAR_AGING)] |

# Work Experience

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| Research Fellow, Bangladesh Council of Scientific and Industrial Research  2022  Received Professor Nurul Afsar Khan Post Graduate Fellowship. Working on Project “Microplastics in Fish Feed: An Alarming Issue in Aquaculture Sector of Bangladesh.” |
| Short Term Temporary (STT) at The World Bank  November 2021 – Present  Natural Capital Valuation and Spatial Planning for Southwest Region of Bangladesh; Bangladesh 2022 Country Environmental Analysis: Institutional Analysis; 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

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| Worked with Dr. Ashfaqul Muid Khandaker on “The effect of RAD7 gene’s null mutation on single-cell aging” 2022 (Published on Microbial Bioactives) [[Link](https://publishing.emanresearch.org/Journal/Abstract/microbbioacts-514307)] |
| Worked with Dr. Nahid Sultana on “Microplastics in Fish Feed: An Alarming Issue in Aquaculture Sector of Bangladesh.” 2022 (Ongoing) |
| Worked with Dr. Ashfaqul Muid Khandaker on “The role of probiotics on animal health and nutrition” 2021 (Published on SpringerNature) [[Link](https://doi.org/10.1186/s41936-021-00250-x)] |
| Master’s Thesis Work with Dr. Ashfaqul Muid Khandaker “The Role of DNA Repair Genes on Cellular Aging” 2021 (Completed) [[Link](https://www.researchgate.net/publication/363364472_THE_ROLE_OF_DNA_REPAIR_GENES_ON_CELLULAR_AGING)] |
| Undergraduate Field Work with Dr. Rowshan Ara Begum & Dr. Gawsia Wahidunnessa Chowdhury on “A Report on Water Analysis and Parameters of the Sundarban Rivers” 2018 (Completed) [[Link](https://www.researchgate.net/publication/363364110_A_Report_on_Water_Analysis_and_Parameters_of_the_Sundarban_Rivers)] |

# Awards

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| Award | Awarded By | Year |
| Professor Nurul Afsar Postgraduate Fellowship | Bangladesh Council of Scientific and Industrial Research (BCSIR) | 2022 |
| Majumder Abdul Muttalib & Habiba Begum Trust Fund Scholarship | Majumder Abdul Muttalib & Habiba Begum Trust Fund, University of Dhaka | 2022 |
| Fourth 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 | Zoological Society of Bangladesh | 2019 |
| Dean’s Award for Brilliant Result in B. Sc. Honors | Dhaka University | 2018 |
| Honors Scholarship (Faculty of Biological Sciences) | Education Board Bangladesh | 2018 |
| Razia Memorial Trust Fund Scholarship | Razia Memorial Trust Fund, University of Dhaka | 2018 |
| Asefa Huque Memorial Trust Fund Scholarship | Asefa Huque Memorial Trust Fund, University of Dhaka | 2017 |

# Trainings

**R for Data Analysis** (Institute of Statistical Research and Training (ISRT), University of Dhaka); **Training Course on SPSS for Professionals & Students** (Department of Statistics, University of Dhaka); **Training on bird Ringing and Sample Collection Under Project “Investigation of Wild to Domestic Bird Avian Influenza Transmission: A Multiyear Monitoring and Surveillance Program, IUCN”**; **Spanish Junior Course, Level A** (Institute of Modern Languages, University of Dhaka)

# Volunteering Experience

**Team Member at Everyday Stories** (BRAC JPGSPH, BLAST & CREA, Bangladesh); **Volunteer Field Assistant** (Faculty of Environment and Natural Resources, University of Freiburg, Germany); **Academic Team Member** (Society for the Popularization of Science, Bangladesh)

# Reference

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| Dr. Ashfaqul Muid Khandaker (Assistant Professor, Dept. of Zoology, University of Dhaka)  Email: [muid.zoo@du.ac.bd](mailto:muid.zoo@du.ac.bd)  Profile: <https://www.du.ac.bd/faculty/faculty_details/ZOO/2282> |
| Dr. Rowshan Ara Begum (Professor, Dept. of Zoology, University of Dhaka)  Email: [rowshanbegum@du.ac.bd](mailto:rowshanbegum@du.ac.bd)  Profile: <https://du.ac.bd/body/faculty_details/ZOO/1738> |
| Dr. Mohammad Riazul Islam (Professor, Dept. of Biochemistry and Molecular Biology, University of Dhaka)  Email: [mriazulislam@du.ac.bd](mailto:mriazulislam@du.ac.bd)  Profile: <https://du.ac.bd/body/faculty_details/BCH/1531> |