Manar Mohamed Elsherif

Master's student, Faculty of Science and Technology

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Objective

Motivated master's student at the University of Debrecen, Hungary, awarded the Stipendium Hungaricum Scholarship, with a strong interest in scientific research, particularly in the fields of Microbiology, Ecology and Sustainability. Consistently ranked among the top 10 students, I bring hands-on research experience and a commitment to contributing to innovative and impactful scientific work

Education

MSC, Debrecen University, Hungary. 2023- present

Major: General biology

Supervisor: Dr. Valter Péter Pfliegler

BSC, Cairo University, Egypt. 2017-2021

Major: Chemistry and Microbiology (Double Major)

Supervisor: Dr. Mohamed Naguib

Work Experience

Quality Control- Microbiologist

Ingram Factory, Cairo, Egypt. 2021-2022

- Conducted microbiological testing and quality control procedures on raw materials, production processes, and final products for personal care products.
- Performed chemical analyses to ensure compliance with industry standards and safety regulations.
- Compiled detailed reports on testing results, quality findings, and any necessary corrective actions.

Research Experience

Debrecen University, Department of Evolutionary Zoology and Human Biology

Independent Research, Bükk Mountains, Hungary | May 2024 – December 2024

Title: "Sexual Selection and Population Structure of ***Cetonia aurata***

(Under review to publication at Insect Conservation and Diversity)

- Conducted independent research while collecting and analyzing data from 130 specimens, revealing a male-biased sex ratio (83 males, 47 females) and larger, heavier females.
- Performed statistical analyses (chi-squared and t-tests) to assess sex ratio deviations and size differences.
- Drafted a manuscript summarizing findings to advance understanding of *C. aurata*'s reproductive and ecological dynamics.

Sustainability office Cairo University

Volunteer Researcher, Cairo University, Egypt | 2021-2023

https://cu.edu.eg/SBCU

- Conducted research on sustainability practices aimed at improving environmental impact and at Cairo University.
- Contributed to the preparation of reports and data analysis for national and international sustainability competitions, including UI GreenMetric.
- Played an active role in enhancing the university's sustainability strategies.

Ongoing Research projects

University of Debrecen, Department of Biotechnology and applied Microbiology, Hungary | September,2024 – Present

Supervisor: Dr. Valter Péter Pfliegler

Title: Phylogenomic Analysis of Yeasts Recovered from Egyptian Artefacts

- The aim is to understand the historical fermentation practices in ancient Egypt.
- Utilizing high-throughput sequencing technologies (Illumina) to analyze yeast genomes and compare them with modern fermentation strains.
- Investigating the evolutionary relationships of ancient yeasts and their potential role in the development of fermentation technologies.
- Aiming to provide insights into the cultural and biotechnological significance of yeast in ancient Egypt and its influence on modern brewing and baking practices.

Skills

- R programming
- Linux
- Microsoft office
- Data Analysis
- **Bioinformatics:** Familiarity with tools like BLAST and FASTA
- **Laboratory Techniques:** media preparation, Gram staining, ELISA, and PCR
- **Chemical Analysis:** Titration, spectrophotometry (UV-Vis, FTIR), chromatography (HPLC, GC), and pH analysis.
- **Molecular Biology Skills:** DNA/RNA extraction, gel electrophoresis, and genome analysis using bioinformatics tools.
- **Safety and Protocols:** Knowledge of lab safety protocols, proper handling and disposal of chemicals, and good laboratory practices (GLP).

Languages

- English (IELTS 6.5)
- Korean (중급 3B)
- Arabic (Native)
- French (2A)
- Hungarian (B1)
- Bahasa Indonesian (2A)