Mohamed Ashraf Youssef

mohamed.youssef@ejust.edu.eg mohamed-ashraf11.github.io

Highlights

Microbiologist with a keen interest in microbial genomics and antimicrobial resistance, currently developing skills in Whole Genome Sequencing data analysis and microbial comparative genomics. Passionate about using R for data analysis and visualization with a strong background in Biostatistics.

Research Interests

- Microbial genomics and whole-genome sequencing data analysis.
- Antimicrobial resistance.
- Microbiology (Bacteriology).

Education

- **Ph.D. (in progress) – Biotechnology** **Expected October 2026**

Egypt – Japan University of Science and Technology

- Proposed Thesis Title: "Exploring the Antimicrobial and Antivirulence Effect of Plant Extracts and its Derived Compounds on Antibiotic-Resistant Bacteria"

- **M.Sc. – Biotechnology** **June 2023**

Egypt – Japan University of Science and Technology

- Thesis Title: "Enhanced Aromatic Polycyclic Hydrocarbons Biodegradation Process by Microbial Biofilm Consortium Development"

- **B.Sc. – Biological Sciences** **July 2017**

Faculty of Science, Sohag University

Research Experience

- Whole-genome sequencing analysis: Prokka (Genome annotation), Roary (Pangenome analysis), FastQC (Quality control), Proksee (Comparative genome mapping), ResFinder (AMR gene detection), etc.
- Evaluation of the antimicrobial and antivirulence effects of plant secondary metabolites against *Pseudomonas aeruginosa*.
- Antimicrobial susceptibility testing and MIC determination.
- Biofilm formation, development of microbial consortia, and biodegradation studies.

Computational skills

- **Linux/shell scripting**.
- **R** (competent user at data analysis, Visualization, Biostatistics, RMarkdown).
- Good knowledge of **GitHub** for version control.
- Python (Novice).
- SPSS for Statistical analysis.

Lab skills

- Microbiological techniques.
- DNA/RNA extraction and purification.
- Polymerase Chain Reaction (PCR).

- Gel electrophoresis.
- Antibiotic susceptibility testing.
- Biochemical identification tests.

Work Experience

- **Assistant Lecturer** **March 2024 - Present**

Faculty of Science, Sohag University

- **Teaching Assistant** **August 2018 – March 2024**

Faculty of Science, Sohag University

Soft skills

- Excellent English communication skills (IELTS Band 7).
- Proven ability to work effectively within multidisciplinary research teams.
- Strong analytical and problem-solving skills.
- Effective planning and organization.
- High ability to manage multiple projects simultaneously.
- Precision in conducting experiments, analyzing, and interpreting data.

Languages

English: Fluent.
Arabic: Native.

Manuscripts in preparation

- Mohamed Ashraf, Hesham Soliman, Amr Nassrallah. In Silico Comparative Genomics and Antimicrobial Resistance Profiling of Egyptian Pseudomonas aeruginosa Clinical Isolates Using Whole-Genome Sequencing. (Manuscript under submission).
- Mohamed Ashraf, Ahmed Labena, Aly E. Abo-Amer, Mohamed Ghazy, Ahmed Abdel-Mawgood. Development and Evaluation of Biofilm and Bacterial Consortia on the Biodegradation of Polycyclic Aromatic Hydrocarbons. (Manuscript under submission).

Peer-Reviewed Conference

- Mohamed Ashraf, Hesham Soliman, Amr Nassrallah. (2025). "Antibacterial and Antivirulence Effects of Spinacia oleracea Root Extract against *Pseudomonas aeruginosa*" in "International Conference on Bioengineering and Biotechnology", Paris, France.
- Mohamed Ashraf, Mohamed A. Ghazy, Ahmed Labena, Aly E. Abo-Amer, Ahmed Abdel-Mawgood. (2023). "Effect of biofilm formation and consortium development on biodegradation of polycyclic aromatic hydrocarbons (PAHs)" in "International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS-23) ", Athens, Greece.

Current Ph.D. Supervisors

Prof. Dr. Hesham Soliman
PharmD Program – Egypt-Japan University of Science and Technology
E-mail: hesham.soliman@ejust.edu.eg

Assoc. Prof. Dr. Amr Nassrallah
Biotechnology – Egypt-Japan University of Science and Technology
E-mail: amr.nassrallah@ejust.edu.eg

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EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
エジプト 日本科学 技術大学

02219

CERTIFICATE

Egypt –Japan University of Science and Technology (E-JUST) hereby certifies that **Mr. Mohamed Ashraf Youssef Mohamed**

Born in: **Sohag** On: **April 01, 1995**
Nationality: **Egyptian** National ID: **29504012604278**

Has been awarded the degree of Master of Science (M.Sc.) in **Biotechnology**

Thesis Title: **Enhanced aromatic polycyclic hydrocarbons biodegradation process by microbial biofilm consortium development**

عنوان الرسالة: **عملية التحلل البيولوجي المحسنة للهيدروكربونات متعددة الحلقات عن طريق تكون الأغشية الحيوية الميكروبية**

The Education Council Approved on: June 19, 2023

University Council Approved on: June 22, 2023

Student Affairs Senior Specialist
Nancy Arief

Student Affairs General Manager
S. Alkersh

Vice President of Education and Academic Affairs
Prof. Sameh Nada

Issue Date: 20/08/2023

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Issue Date:20/08/2023

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EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

エジプト 日本科学 技術大学

02218

Student Courses Transcript

Student Name: Mohamed Ashraf Youssef Mohamed

Student ID: 222020015

Nationality: Egyptian

Birth Date: April 01, 1995

Institute: Basic and Applied Science

Program: Biotechnology

Awarded Degree: Master of Science (M.Sc.)

Graduation Date: June 22, 2023

The student has passed successfully the following graduate courses in semesters fall 2020, and spring 2021 semesters:

Preparatory Course				
Course Code	**Course Title**	**Credit Hours**	**GPA**	**Grade**
PRE 427	Genetics and molecular genetics	1	4.00	A+
PRE 435	Bioremediation	1	-	Waived
PRE 403	Japanese Language	1	4.00	A+
PRE 404	Japanese Culture	1	3.00	B
PRE 405	Research Skills and methods	1	2.50	C+
PRE 401	English Language	1	-	Waived

Program Compulsory Core Courses				
Course Code	**Course Title**	**Credit Hours**	**GPA**	**Grade**
BIO 501	Molecular Biology and Genetic Engineering	3	3.30	B+
BIO 502	Advanced Microbiology and Microbiological Techniques	3	4.00	A+

Program Research Elective Courses				
Course Code	**Course Title**	**Credit Hours**	**GPA**	**Grade**
BIO 503	Advanced enzymology and cofactors	3	3.30	B+
BIO 504	Hormones (biosynthesis and action)	3	3.70	A
BIO 701	Project-Based Learning in Agricultural Biotechnology	3	3.70	A

Attended Credit Hours	Earned Credit Hours	Waived Credit Hours	Thesis Credit Hours	CGPA
19	19	2	15	3.55

A+ ≥95, 95>A≥90, 90>B+≥85, 85>B≥80, 80>C+≥75, 75>C≥70, 70>D+≥65, 65>D≥60, F<60,
I=Incomplete, W=Withdrew, FW=Forced-Withdrawn, Au=Audit
CGPA is out of 4

Student Affairs Specialist

Nancy Ashraf

Student Affairs General Manager

S. AlKersh

Vice President of Education and Academic Affairs

Prof. Sameh Nada