



## ABDELRAHMAN MOHAMED TAHA MAHMOUD

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📷 **Instagram:** <https://www.instagram.com/abdelrahm.taha/>

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🌐 **Website:** <https://orcid.org/0000-0002-0315-676X>

📍 **Work:** Fac. of Agric., Minia Univ., 61519 Menia Governate (Egypt)

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### ABOUT ME

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#Bioinformatics, #Molecular\_Genetics, #Genomics, #Metabolomics, and #Transcriptomics

### WORK EXPERIENCE

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#### University Teaching and Research Assistant

*Minia University* [ 3 Jul 2019 – Current ]

Website: <http://misdb.minia.edu.eg/miniaportal/ENGStaffCV.aspx?id=4990>

Name of unit or department: Agric. Chem.

1. Teaching lab experiments under the supervision of a faculty member (PhD).
2. Contribute to supervising field training students, faculty members' courses, and network courses.
3. Participation in the membership of the committees assigned to me by the department or college like the Committee for the evaluation of chemicals and equipment purchased by the department.
4. Participate in scientific activities such as courses, conferences, seminars, and workshops held by the department or college.
5. Participate in administering the exams such as student control, correction, monitoring and review of results.
6. Guiding and directing students during office hours.

### EDUCATION AND TRAINING

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#### Romanian language preparatory year

*Alexandru Ioan Cuza University of Iasi* [ 14 Sep 2022 – Current ]

Address: Bulevardul Carol I nr. 11 , 700506 Iași (Romania)

Website: <https://www.uaic.ro/en/>

Field(s) of study: Romanian language



After the completion of the Preparatory year, beginning with the academic year 2023/2024, I will be enrolled for Master Degree, at "Alexandru Ioan Cuza" University of Iasi, in the field of **Biology/Molecular Genetics**, as a Romanian scholarship holder, approval 163356/31.08.2022, through the Romanian Ministry of Entrepreneurship and Tourism.

### **Master provisional: Computational Biology and Bioinformatics**

**Georg-August-University Göttingen** [ 23 Sep 2022 – Current ]

Address: Wilhelmsplatz 1 (Aula), 37073 Göttingen (Germany)

Website: <https://uni-goettingen.de/de/653246.html?fbclid=IwAR0Cj0LSFgAlIII6m7fA7J-U5u5UTmXPGYyuWppQMi7ZhGivd0jCnNTVLsc>

Field(s) of study: Computational Biology and Bioinformatics

### **B.Sc. Biotechnology**

**Minia University** [ 14 Oct 2014 – 9 Jul 2018 ]

Final grade: Excellent with honor (GPA: 3.91 / 4, First of Biotech. class)

Thesis: Genetic causes of familial hypercholesterolemia

### **Next Generation Sequencing Bioinformatics Training**

**Wellcome Genome Campus WGC / Wellcome Connecting Science WCS and H3ABioNet** [ 22 Mar 2022 – 23 Jul 2022 ]

Website: <https://www.h3abionet.org/categories/event/course/next-generation-sequencing-bioinformatics-course-2022>

1. Use the unix command-line as a tool for data analysis
2. Describe the different NGS data file formats available
3. Perform QC assessment of high throughput sequencing data
4. Explain the algorithmic concepts behind read alignment, variant calling and structural variant detection
5. Perform read alignment, variant calling and structural variation detection using standard tools
6. Analyse RNA-Seq and CHIP-seq data
7. Perform a genome assembly using NGS data

### **MATLAB Onramp**

**Mathworks** [ 8 Feb 2022 – 8 Feb 2022 ]

Website: <https://matlabacademy.mathworks.com/progress/share/report.html?id=fce1bc21-b49c-4291-973d-2e7398771720&>

### **16S rRNA Microbiome Intermediate Bioinformatics Training**

**H3Abionate** [ Oct 2021 – Dec 2021 ]

Website: <https://www.h3abionet.org/categories/training/16srrna-intermediate-bioinformatics-training>

1. Describe the importance of the microbiome and why it should be studied
2. Understand how to design 16S rRNA microbiome studies
3. Apply basic syntax and operations in R
4. Understand the different NGS data types (e.g. MiSeq reads) produced for a 16S rRNA microbiome study
5. Evaluate the quality of NGS sequence reads and samples
6. Understand the various bioinformatics tools used for 16S microbiome studies
7. Understand the various 16S rRNA bioinformatics pipelines being used to study the microbiome
8. Apply the H3ABioNet's 16S rRNA pipeline and understand how to execute this
9. Understand the use of workflow languages (Nextflow) and containerized images (Singularity) to automate analyses
10. Analyze 16S rRNA microbiome data and interpret results



## IP Addressing and Subnetting - Zero to Hero

Udemy [ 21 Feb 2021 – 21 Feb 2021 ]

## Bacterial Genomes I: From DNA to Protein Function Using Bioinformatics

Wellcome Sanger Institute, Wellcome Genome Campus [ 21 Feb 2021 ]

Website: <https://www.futurelearn.com/certificates/Oz7msd2>

1. Bioinformatics tools, DNA and protein sequences
2. Retrieving DNA and protein sequences from repositories
3. Databases for protein annotation
4. Inferring function from sequence

## Introduction to Bioinformatics Training

H3Abionate [ Aug 2020 – Nov 2020 ]

Website: <https://www.h3abionet.org/categories/event/course/introduction-to-bioinformatics-training-2022>

1. Explain the use of bioinformatics
2. Name the key bioinformatics techniques and tools
3. Locate important biological databases and retrieve data
4. Use selected tools effectively to run specific bioinformatics analyses
5. Understand the strengths and limitations of the various techniques

## Biotechnology Lab Training

Agricultural Genetic Engineering Research Institute (AGERI) [ Jul 2017 – Sep 2017 ]

Address: 9 Gamaa St. , 12619 Giza (Egypt)

Field(s) of study: Biotechnology Lab Techniques

Final grade: Excellent

Link: <http://www.arc.sci.eg/InstsLabs/default.aspx?TabId=0&lang=en>

1. DNA Extraction and quantification.
2. PCR reactions include molecular markers AFLP, RFLP, and ISSR.
3. Gel Electrophoresis and Gel documentation systems.
4. Preparing meiosis and mitosis slides from plant root cap cells and drosophila salivary glands
5. Animal Karyotyping from Bone marrow tissue.
6. Plant Tissue Culture techniques (Seed culture, Meristem culture, Callus culture, Anther culture)
7. Microbiology Lab Techniques( Inspection: Microscopy, Inoculation, Incubation: Bacterial Quantification by Culture, Isolation)

## LANGUAGE SKILLS

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Mother tongue(s): **Arabic**

**Other language(s):**

**English**      **IELTS (6):** (TRF\_Number) 22EG003103TAHA001A    **& TOEFL iBT (82):** (Test\_Appointment\_Number) 7576409226811320

**LISTENING C1    READING B2    WRITING B2**

**SPOKEN PRODUCTION C1    SPOKEN INTERACTION C1**

## DIGITAL SKILLS

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Microsoft Office / Mendeley software / bash-script / ChemDraw professional / R (programming) / Command line Linux / VMWare Player / Chemdraw3D / DNA analysis workflow (BWA-GATK-SnpEff-IGV) / Integrated Genome Browser (IGV) / Operating system Windows / Debian linux / Virtual Box / QemuKVM / Rufus /



Notepad ++ / SoftEther VPN solution / SSH Keys / Proxmox VE 3.0 / Ubuntu & Ubuntu Servers: Advanced / DADA2 (R)

## HONOURS AND AWARDS

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### **Romanian scholarship holder (approval 163356/31.08.2022)**

Romanian Ministry of Entrepreneurship and Tourism. [ 31 Aug 2022 ]

Romanian language preparatory year at "Alexandru Ioan Cuza" University of Iasi. (academic year 2022-2023)

Master Degree in the field of Biology/Molecular Genetics, as a Romanian scholarship holder; beginning with the academic year 2023/2024

### **Fourth batch of the Intensive English Language Diploma Scholarship.**

Tawakkol Karman Foundation [ 27 Mar 2022 ]

Link: <https://tkif.org/en/>

### **Permanent position at Minia university**

Minia University [ 3 Jul 2019 ]

## NETWORKS AND MEMBERSHIPS

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### **Erasmus Student Network**

[ Iasi, 24 Dec 2022 – Current ]

Erasmus Student Network (ESN) is a non-profit international student organisation. Our mission is to represent international students, thus provide opportunities for cultural understanding and self-development under the principle of Students Helping Students.

Link: <https://iasi.esn.ro/>

### **InDiGU team**

[ 29 Sep 2022 – Current ]

**InDiGU** is an extra-curricular programme which promotes the integration of international students at Georg-August-University Göttingen.

Link: <https://www.uni-goettingen.de/de/108275.html>

### **Bioinformatics Research Network**

[ 10 Feb 2022 – Current ]

BRN offers high-quality bioinformatics training, mentorship, and project opportunities at no cost, with the goal of fostering the next generation of expert bioinformaticians.

Link: <https://www.bio-net.dev/projects>

### **Minia Univ. Staff member**

[ 3 Jul 2019 – Current ]

Link: <http://misdb.minia.edu.eg/miniaportal/ENGStaffCV.aspx?id=4990>



## CONFERENCES AND SEMINARS

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### **Discussion ceremonies for the M.Sc. and Ph.D. thesis.**

[ Fac. of Agric. Minia University, 2014 – 2022 ]

### **SciVal: Data behind SciVal**

[ On line, 3 Mar 2021 ]

### **ISB Virtual Microbiome Series**

[ On Line, 2021 ]

Link: <https://isbscience.org/microbiome2021/>

### **Seminar on Gene regulation for Secondary metabolites overexpression**

[ AGERI, 2017 ]

## COMMUNICATION AND INTERPERSONAL SKILLS

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### **Master In-Demand Professional Soft Skills**

This LinkedIn learning path qualifies for official academic credit.

### **Synthesis of Terpenes in Plants**

Seminar at Dept. of Agric. Chem. 2022

### **The Newly Discovered Microorganisms Have Profoundly Changed Our View Of The Nitrogen Cycle**

Presentation at Microbiology Dept. 2018

### **Bacterial Bio-plastic: Biosynthesis Pathways, Molecular Biology, and Applications**

Presentation at Genetics Dept. 2017

### **Discovering New Combined Drug Resistant-Producing Mutations Of Microorganisms By Modulating Ribosomal Proteins and rRNA**

Presentation at Genetics Dept. 2016

### **Teaching lab experiments under the supervision of a faculty member**

(From 2019 Till Present)

### **Guiding and directing students during office hours**

(From 2019 Till Present)

## MANAGEMENT AND LEADERSHIP SKILLS

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### **Infantry soldier (Mandatory)**

Finished my **mandatory** military service in the Egyptian Armed Forces as a **good example soldier**.

Link: <https://www.mod.gov.eg/ModWebSite/Default.aspx>

### **Contribute to supervising field training for the students, faculty members' courses, and Department's MOOCs.**

(From 2019 Till Present)



**Participation in the membership of the Committee for the evaluation of chemicals and equipment purchased by Dept. of Agric. Chem.**

(From 2019 Till Present)

**Participate in final exam correction, and monitoring.**

(From 2019 Till Present)

**VOLUNTEERING**

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**Volunteer writer for the Sciencephilia Initiative**

[ 16 Oct 2021 – Current ]

Links: [https://www.sciencophelia.com/2021/10/blog-post\\_16.html](https://www.sciencophelia.com/2021/10/blog-post_16.html) | <https://www.sciencophelia.com/2022/07/bio-plastic-from-bacteria.html>

**RECOMMENDATIONS**

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**Prof. of Genetics, Minia Univ.**

Name: Kasem Zaki Ahmed

Phone number: (+20) 01122007748

Email: [k.z.ahmed@mu.edu.eg](mailto:k.z.ahmed@mu.edu.eg)

Teacher

Link: <https://scholar.google.com.eg/citations?user=fezq8FUAAAAJ&hl=en>

**Prof. of Genetics and Molecular Cytogenetics, Minia Univ.**

Name: Abdeltawab Ata

Phone number: (+20) 01159191680

Email: [abdeltawab\\_ata@mu.edu.eg](mailto:abdeltawab_ata@mu.edu.eg)

Teacher

Link: <https://scholar.google.com.eg/citations?hl=en&user=XXw4ElgAAAAJ>

**Prof. of Molecular Genetics, Minia Univ.**

Name: Sayed Abd El-Maksoud Osman

Phone number: (+20) 01062372566

Email: [sayed.osman@mu.edu.eg](mailto:sayed.osman@mu.edu.eg)

Teacher

Link: <https://scholar.google.com.eg/citations?hl=en&user=0qLpv4gAAAAJ>

**Associate Prof. of Molecular Genetics, Minia Univ.**

Name: Gehan Mohamed Anwar

Phone number: (+20) 01008998651

Email: [gehan\\_ma@mu.edu.eg](mailto:gehan_ma@mu.edu.eg)

Teacher

Link: <https://scholar.google.com.eg/citations?hl=en&user=wn3Q21oAAAAJ>