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Address: Dept. of Agric. Chem. Fac. of Agric., Minia Univ., 61519 Menia Governate (Egypt)

WORK EXPERIENCE

University teaching assistant

Minia University [3 Jul 2019 – Current]

Address: Dept. of Agric. Chem. Fac. of Agric., Minia Univ., 61519 Menia Governate (Egypt) - <https://www.minia.edu.eg/Minia/home.aspx>

City: Menia Governate

Country: Egypt

Name of unit or department: Agric. Chem. - **Business or sector:** Professional, scientific and technical activities

EDUCATION AND TRAINING

Tawakkol Karman Foundation; the fourth batch of the Intensive English Language Diploma Scholarship.

English Castle [28 Mar 2022 – Current]

Address: (Turkey)

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

Next Generation Sequencing Bioinformatics Training

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

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

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

M.Sc. Biotechnology

Minia University [14 Oct 2021 – Current]

Address: Dept. of Agric. Chem. Fac. of Agric., Minia Univ. , 61519 Menia Governate (Egypt)

<https://www.minia.edu.eg/Minia/home.aspx>

Field(s) of study: Biotechnology

Level in EQF: EQF level 8

National classification: M.Sc

MATLAB Onramp

Mathworks [8 Feb 2022 – 8 Feb 2022]

<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]

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

- Describe the importance of the microbiome and why it should be studied
- Understand how to design 16S rRNA microbiome studies
- Be able to apply basic syntax and operations in R
- Understand the different NGS data types (e.g. MiSeq reads) produced for a 16S rRNA microbiome study
- Evaluate the quality of NGS sequence reads and samples
- Understand the various bioinformatics tools used for 16S microbiome studies
- Understand the various 16S rRNA bioinformatics pipelines being used to study the microbiome.
- Apply the H3ABioNet's 16S rRNA pipeline and understand how to execute this
- Understand the use of workflow languages (Nextflow) and containerized images (Singularity) to automate analyses
- 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]

<https://www.futurelearn.com/certificates/0z7msd2>

- Bioinformatics tools, DNA and protein sequences
- Retrieving DNA and protein sequences from repositories
- Databases for protein annotation
- Inferring function from sequence

Introduction to Bioinformatics Training

H3Abionate [Aug 2020 – Nov 2020]

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

- Explain the use of bioinformatics
- Name the key bioinformatics techniques and tools
- Locate important biological databases and retrieve data
- Use selected tools effectively to run specific bioinformatics analyses
- Understand the strengths and limitations of the various techniques

B.Sc. Biotechnology

Minia University [14 Oct 2014 – 9 Jul 2018]

Address: Fac. of Agric., Minia Univ., 61519 Menia Governate (Egypt)

Field(s) of study: Biotechnology

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

National classification: Bachelor degree with Honours

Thesis: Genetic causes of familial hypercholesterolemia

Genetics

Biochemistry

MicrobioMicrobiology

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

<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 miosis and mitosis slides from plant rote cap cells and drosophila slivry glands
5. Animal Karyotyping from Bon marrow tissue.

DIGITAL SKILLS

Microsoft Office / Windows (Optimal Knowledge) / Unix - Linux (Optimal Knowledge) / bash-script / R (programming) / Command line Linux / Chemdraw3D / ChemDraw professional / Mendeley software

LANGUAGE SKILLS

Mother tongue(s): **Arabic**

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

COMMUNICATION AND INTERPERSONAL SKILLS

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)

VOLUNTEERING

Volunteer writer for the Sciencephilia Initiative

[16 Oct 2021 – Current]

https://www.sciencophilia.com/2021/10/blog-post_16.html

NETWORKS AND MEMBERSHIPS

Bioinformatics Research Network

[2022 – Current]

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

Minia Univ. Staff member

[3 Jul 2019 – Current]

CONFERENCES AND SEMINARS

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]

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

Seminar on Gene regulation for Secondary metabolites overexpression

[AGERI, 2017]

HONOURS AND AWARDS

Permanent position at Minia university

Minia University [3 Jul 2019]

MANAGEMENT AND LEADERSHIP SKILLS

Infantry soldier (Mandatory)

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

<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)

RECOMMENDATIONS

Prof. of Genetics, Minia Univ.

Name: Kasem Zaki Ahmed

Phone number: (+20) 01122007748

Email: k.z.ahmed@mu.edu.eg

Teacher

<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

Teacher

<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

Teacher

<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

Teacher

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