NAJAT ABDULRAHIM

Lecturer assistant in biotechnology

ABOUT ME

Expert in environmental laboratory analysis and microbiological techniques. I have a good experience in data visualization using R, in addition to molecular biology and solid background in bioinformatics. I am very interested in structural bioinformatics and drug discovery in addition to biostatistical and visualization of biological data.

CONTACT

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HOBBIES

Swimming
SCUBA Diving
Collecting Data
Learning languages

LANGUAGES

English IELTS: 7
Turkish
German

EDUCATION

Suez Canal University- Master Degree in Aquaculture Biotechnology.
2016–2019
Title of the thesis" Screening for quorum sensing inhibitors and quenchers by marine derived bacteria", my cGPA: 3.3/4.

Suez Canal University- Bachelor Degree in Microbiology
2009 - 2013
cGPA: 3.5/4 (A)
Graduation thesis title: Enzymatic activity of fungi inhabiting an Egyptian mummy" cGPA: 4/4 (A+).

WORK EXPERIENCE

Suez Canal University – Teaching Assistant
2015–Present
- Perform laboratory research.
- Prepare presentations for lectures.
- Keep records of assignments and produce detailed work reports.

Hurghada Environmental Protection and Conservation Association - Volunteer
2017–2018
Spread awareness between students and public to protect the environment.

Suez Canal Center for Environmental Studies and Consultations
2013–2014
- Collect samples of soils, water, industrial wastewater conduct tests on pollutant levels or identify sources of pollution.
- Calibrate microscopes or test instruments.
- Prepare samples or photomicrographs for testing and analysis.
- Examine and analyze material for presence and concentration of contaminants.
- Perform statistical analysis of environmental data.
- Discuss test results and analyses with customers.

INTERNATIONAL WORKSHOPS

Bioinformatics analysis using R
Intensive workshop 1-5 May 2019
The workshop included **40** hours of theoretical and practical sessions. It covered the following topics: Introduction to R- Advanced R and Bioconductor packages- Microarray analysis using R- Whole genome/
Exome sequencing WGS/WES- transcriptomic and post-transcriptomic analysis (RNA-seq and microRNA-seq)- Introduction to Epigenetic analysis (DNA methylation arrays).
This course instructed by Dr. Mohamed Hamed (Head of integrative OMICs Analysis group in Rostock University, Medical center, Rostock, Germany).

Fish Diseases Prevention and Treatment 2019
13-26 March 2019
Sponsored by People's Republic of China and organized by Freshwater Fisheries Research center of Chinese
Academy of Fishery Sciences. This training course included detection of water quality and diagnosis of fish diseases
using Microbiology and molecular techniques.

Live Aquafeed Production and Processing in Egypt 2018
19/9/2018 to 10/10/2018
Sponsor: Foreign Economic Cooperation Center (FECC),
Ministry of Agriculture, Beijing, China

2016 Seminar on Value-Added Fishery Product Development and Market System Construction for Developing Countries
12/05/2016 to 01/06/2016
Fujian Institute of Oceanography (FJIO)
Xiamen City, Fujian Province, China

CONFERENCES

- **6th International Conference on Natural Toxins. (Poster)**
- **Bio vision- Alexandria conference (Poster)**
- **The Sixth Young Researchers Conference - Suez Canal University, Egypt (Poster)**

PUBLISHED PAPERS

Title: Anti-biofilm activity of some quorum quenching bacteria isolated from marine sources.
Journal: Biotechnology letters - Impact factor: 4

LABOURATORY EXPERTISE

- Isolation and Identification of microorganisms (Bacteria, Actinomycetes, Fungi)
- DNA extraction of Bacteria, Fungi, Animal and Plant Tissue, Blood manually and using kits
- Bioinformatics analysis of first and next generations
- Construction and interpretation of phylogenetic tree using MEGA 7
- Detection of motifs by making multiple sequence alignment using Clustal omega and BoxShade
- Prediction of the tertiary structure of proteins using SWISS-prot
- Construction of heatmaps for complex data using R
- Separation of drugs from metabolites using High Performance liquid Chromatography HPLC
- Primer design
- Drug designing
- Microbiome analysis
- Extraction of bioactive compounds from bacteria and algae
- Preservation of bacteria by lyophilization
- Water quality analysis (physical, chemical and microbiological parameters including (COD and BOD).

References available upon request