



CURRICULUM VITAE

PERSONAL DATA:

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|----------------------------|--|---|
| Name(AR): | محمود مختار عبد القادر مصطفى |  |
| Name(En): | Mahmoud Mokhtar Abd El Kader Moustafa | |
| Faculty: | Agriculture | |
| Department: | Genetics and genetic engineering | |
| Academic degree: | Ph.D. | |
| Current position: | Lecturer of Biotechnology and Molecular biology | |
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Languages:

- a- Arabic (home language)
- b- English (very good)
- c- German (Basic)
- d- French (Basic)



Educational details:

| Institution | Degree | Year |
|---|---|-----------|
| Genetics Department, Faculty of Agriculture, Benha University, Egypt | PhD | 2011 |
| Genetics Department, Faculty of Agriculture, Benha University, Egypt | MSc | 2005 |
| Genetics Department, Faculty of Agriculture, Zagazig University, Egypt | BSc (genetics and agricultural genetic engineering) | 1999/2000 |

Specialty details:

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| Major: | Genetics |
| Minor: | Microbial genetics and microbial biotechnology |

Memberships and Awards details:

| Organization name | Membership/Award |
|---|-------------------------------|
| Member of Egyptian Society of Genetics. | Membership |
| Benha University | The best M.Sc. thesis in 2005 |

Experience:

- Isolation and identification of bacterial isolates by biochemical kits and modern biotechnological methods (16s rRNA gene method)



- b- Isolation and identification of prokaryotic and Eukaryotic microorganisms by 16s rRNA gene, Its-5.8s-Its regions sequencing and 18s rRNA gene respectively
- c- Cloning and transformation of bacteria
- d- Design of specific primers
- e- Transformation methods
- f- Protein extraction methods and sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE)
- g- Two dimension sodium dodecyl sulfate polyacrylamide gel electrophoresis(2D-SDS-PAGE)
- h- Isozymes assay on polyacrylamide gel electrophoresis and calorimetric methods
- i- Plasmid DNA extraction methods (miniprep and large scale)
- j- DNA extraction methods and RNA extractions methods
- k- Reverse transcriptase (RT-PCR)methods(one step – two steps)
- l- DNA analysis methods (Southern blotting – Northern Blotting – Western blotting –qRT-PCR).
- m- DNA Sequencing
- n- Alignment the target sequence with DATA of NCBI and DNA Analysis's
- o- Abiotic stress of bacteria like salt tolerance
- p- Biocontrol of some fungal plant diseases
- q- Obtained of bacterial isolates more efficient in biocontrol of some fungal plat diseases which caused by *Alternaria alternate*, *Alternaria solani*, *Fusarium oxysporum* and *Fusarium solani*
- r- Teaching Principles of genetics, Molecular genetics, microbial genetics, Mutagens and mutagenesis and gene technology courses for undergraduate and postgraduate students.
- s- Supervision on graduate projects of undergraduate students (branch of genetic and genetic engineering) and M.Sc. thesis about Molecular studies on abiotic stresses of olive



- t- Obtaining many certificates of workshops for the development of the capacity of academic staff members from Benha University
- u- Shearing in training undergraduate and postgraduate students on Molecular biotechnology tools which prepared by Lab of Biotechnology and Lab of agricultural biology, Faculty of Agriculture, Benha University, Egypt
- v- Shearing of preparing the first and second International Conference on Biotechnology Applications in Agriculture, Faculty of Agriculture, Benha University, February 18-22, 2012 and 2014 Moshtohor-Hurghada (Egypt)
- w- Computer skills
- x- Demonstrator 2000-2005
- y- Associate lecturer 2005-2011
- z- Lecturer 2011-

Projects:

- 1- **Applications of molecular genetics in exploring and evaluation of microalgae for utilizing in wastewater treatment and biodiesel production (Egyptian STDF fund, no. 5476). PI – Grant holder**
- 2- **"ESTABLISH A NEW JOINT MASTER DEGREE IN BIOTECHNOLOGY APPLIED TO AGRI-SCIENCE, ENVIRONMENT AND PHARMACOLOGY, PROJECT NO. 543865"(European Union TEMPUS fund). Coordinator of Benha University (One of Egyptian Partners)**

Courses:

I'm sharing on teaching the following courses:

- **Microbial genetics and viruses**
- **Plant breeding**
- **Molecular genetics**
- **Cytogenetics**



- Cell biology
- Gene technology and Environment
- Genetic engineering
- Metagenomes
- Animal genetics
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Thesis of M.Sc. title: Studying of some regulating genes of salt tolerant in bacteria

Thesis of Ph.D. title: Genetic studies on salt tolerance in bacteria

List of Publications:

A. M. K. Nada, M.H. Refaat, M. S. Abd El-Sabour, A. M. Hassan and M.M. Abd El Kader (2010). Molecular studies on *ect C* gene of halophilic bacteria. *Researcher*, **32**:234-240.

M. S. Abdel-Sabour, A. M. Hassan, M.H. Refaat, A. M. K. Nada, and M.M. Abd El Kader (2010). Biodiversity of some salt tolerant bacteria under Egyptian conditions. *Egypt. J. of Appl.*(8A)283-292.

Hassan Barakat¹, Hoda A. S. El-Garhy^{2,3} and Mahmoud M. A. Moustafa^{2,3}(2014): Detection of pork adulteration in commercial meat products by species-specific PCR analysis on the QIAxcel system based on *cytb*, D-Loop and 18S rRNA genes. *Appl. Microbil. Biotechnol.*, 98(23):9805-16. DOI 10.1007/s00253-014-6084-x

In addition to papers in-press:

Mohamed S. M. Hassaan^{1*}, Mahmoud M. A. Moustafa^{2,3}, Hoda A. S. El-Garhy^{2,3} and Mohammed H. Refaat^{2,3} (2014):The influence of synbiotic on



growth, hormonal growth and expression of (IGF-I, GH and GHR) genes in Nile tilapia *Oreochromis niloticus* L fingerlings. In-press.

Mahmoud M. A. Moustafa and et al. (2014): Detection of new Egyptian Bacterial pathogen in agricultural wastewater based on 16S rRNA gene method. In press

Mahmoud M. A. Moustafa and et al. (2015): Isolation and Identification of bacterial pathogen (*E. coli* strain: O157) in agricultural wastewater based on 16S rRNA gene method. In press

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Prof. Dr. Mahmoud Maghraby Iraqi Amer