

## Curriculum Vitae

### Personal information:

**Name:** Areej Mostafa El-Mahdy El-Kasaby.

**Birth date:** Aug. 18<sup>th</sup>, 1980.

**Nationality:** Egyptian.

**Sex:** Female.

**Marital status:** Married

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### Qualifications:

-**PhD degree in Microbiology; (2011)** Faculty of Pharmacy–Mansoura University – Egypt.

-**Master degree in Microbiology; (2008)** Faculty of Pharmacy – Mansoura University – Egypt.

-**Bsc degree in Pharmaceutical science (2002);** Mansoura University, Faculty of Pharmacy, Egypt. **Graduation Grade: Very Good** (84.36%) and graduation ranking 4<sup>th</sup> achiever

### Employment History and work experiences:

1. **Current position from 15/2/2015 till now:** Assistant professor at the department of Pharmaceutical Sciences, Faculty of Pharmacy, PNU.
2. **From 27/9/2011 till 15/2/2015:** lecturer at the department of Microbiology and Immunology, Faculty of Pharmacy, Mansoura University.
3. **From March, 2008 till september, 2011:** Working as Lecturer assistant in the Microbiology and Immunology Dept., Faculty of Pharmacy, Mansoura University and started PhD program.
4. **From Sept., 2002 to March., 2008:** Working as **demonstrator in the Microbiology** and Immunology Dept., Faculty of Pharmacy, Mansoura University, Egypt; teaching Practical General Microbiology and Practical Parasitology courses and working on master degree.

## **Teaching experience**

### **Undergraduate studies**

1. General microbiology
2. Pharmaceutical microbiology
3. Parasitology
4. Public health
5. Medical Microbiology
6. Genetics

### **Clinical Pharmacy program**

- General microbiology and immunology
- Pharmaceutical biotechnology
- Clinical Microbiology
- Parasitology
- Pharmaceutical microbiology
- Antimicrobial agents

### **Postgraduates and diploma students**

- 1- General microbiology, chemistry, physiology and genetics of microorganisms.
- 2- Diagnostic Microbiology.
- 3- Mycotic and viral diseases and their methods of laboratory diagnosis, immunology, sera and vaccines.
- 4- Fermentation

### **Projects and rewards;**

- **Member** of the project production of signal modulatory molecules from bacteria isolated from soil (145.000 Egyptian pound)

### **Training and seminars**

<b>Training attended</b>	<b>Place Dates (from-to)</b>
نظام إدارة التعليم الإلكتروني البلاك بورد	عمادة التعليم الإلكتروني و التعليم عن بعد ,جامعة الأميرة نورة بنت عبد الرحمن 19-18 أغسطس 2015
كيفية اعداد البوستر العلمي	كلية المجتمع جامعة الأميرة نورة بنت عبد الرحمن 22/11/2015
ضوابط إدارة المؤتمرات و الندوات و العباء التدريسي	عمادة التطوير و تنمية المهارات جامعة الأميرة نورة بنت عبد الرحمن 10/3.2015

<b>Management of the research team</b>	<b>University Development Center (UDC)</b> , Mansoura University (27-28/10/2013)
<b>University administration</b>	(UDC), Mansoura University (8-9/9/2013)
<b>Systems exams and student assessment</b>	(UDC), Mansoura University (7-8/5/2013)
<b>Organization of scientific conferences</b>	(UDC), Mansoura University (21- 23/10/2012)
<b>Strategic Planning</b>	(UDC), Mansoura University (25- 27/7/2011)
<b>The financial and legal aspects of business in the university</b>	(UDC), Mansoura University (9-11/7/2011)
<b>Research projects, local and global competitiveness</b>	(UDC), Mansoura University (29- 31/5/2011)
<b>Occupation behaviors</b>	(UDC), Mansoura University (20-22/3/2011)
<b>Scientific Publishing</b>	UDC, Mansoura University (16-18/8/2009)
<b>Effective teaching</b>	UDC, Mansoura University (6-9/8/2006)
<b>Research methodology</b>	UDC, Mansoura University (24-27/7/2006)
<b>Thinking Skills</b>	UDC, Mansoura University (9-11/7/2006)
<b>Effective communication skills</b>	UDC, Mansoura University (18-20/12/2005)
<b>IBT Toefl</b>	ETS (18/12/2010)
<b>International Computer Driving License</b>	UNISCO (26/07/2006)

### **Conferences:**

- 1) The 19<sup>th</sup> International conference of the Egyptian Society for Medical Microbiology (ESMM) (18 May 2013).
- 2) The 20<sup>th</sup> International conference of the Egyptian Society for Medical Microbiology (ESMM) (27-28 February 2014).

### **List of publications;**

1. Amira M. El-Ganiny, **Areej M. El-Mahdy**, Hemat K. Abd El-Latif, Ramadan, H. Ibrahim and HEBA I. Abdelsabour (2016). Phenotypic and Genotypic Detection of Beta-Lactams Resistance in *Klebsiella pneumonia* from Egyptian Hospitals Revealed Carbapenem Resistance by OXA and NDM Genes. African Journal of Microbiology Research. Accepted 10-Feb-2016.
2. Shaymaa Hassan Abdel-Rhman, **Areej Mostafa El-Mahdy**, and Mohammed El-Mowafy (2015). Effect of Tyrosol and Farnesol on Virulence and Antibiotic Resistance of Clinical Isolates of *Pseudomonas aeruginosa*. BioMed Research International, Volume 2015, Article ID 456463, 7 pages

3. Shaymaa Hassan Mohamed Abdel-Rhman; **Areej Mostafa El- Mahdy** and Eman Salama Ahmed Abdelmegeed. Optimization of protease production by *Ps. aeruginosa* PAO1 and Physico-chemical characterization of the enzyme. J Am Sci 2014;10
4. El –Naggar W., Hassan R., El –Sawy E., Abd El Galil K. and **El-Mahdy A.** (2011): Comparative Study of Phenotypic and Genotypic Expression of some Virulence Factors in *Escherichia coli* and *Klebsiella pneumoniae* Isolated from Urinary Tract Infections in Mansoura Hospitals. Egyptian Journal Of Medical Microbiology. 20(3): 67-77.
5. Hassan R., El –Naggar W., El –Sawy E. and **El-Mahdy A.** (2011); Characterization of Some Virulence Factors Associated With Enterbacteriaceae Isolated From Urinary Tract Infections In Mansoura Hospitals. Egyptian Journal Of Medical Microbiology, Pages 7-19.

### **Completed Research projects**

Characterization and Antiquorum Sensing Activity of an environmental *Streptomyces* isolate from Egyptian soil

6. Ramadan Hassan, Shaaban Mona, Fatma M. Abdel Bar, **El-Mahdy Areej**, Shokralla Shadi. Inhibition of Quorum sensing and virulence factors of *P. aeruginosa* by 1H-pyrrole-2-carboxylic acid from *Streptomyces coelicoflavus* soil isolate. Submitted to the journal.

### **Research projects in Progress**

*Pseudomonas aeruginosa* PA14 Alkaline Protease Blocks Complement Activation. Abdelmegeed, E., Abdel-Rhman, H., SH, **El- Mahdy A.**, Abdelaziz, A., Yossief, M.

### **Other activities**

- Member in the Board Department of Microbiology.
- Member in the Executive Committee to prepare the strategy for postgraduates studied of Faculty of Pharmacy.
- Participation in the preparation of the Microbiology notebook for undergraduate students.
- Participation in the preparation of the Parasitology notebook for undergraduate students.

- Participation in the preparation of the public health notebook for undergraduate students.
- Participation in the preparation of the theoretical and practical exams for undergraduate and graduate students.
- Participation in the control of undergraduate and postgraduate students.
- Supervision of the practical course for undergraduate and graduate students.
- Supervision on the summer training of the undergraduate students.
- Participation in the arbitration of scientific articles for diploma students.
- Supervision on the scientific articles for diploma students.

## **SCIENTIFIC EXPERIENCE**

### **1. Skills in molecular biology:**

- a. PCR “conventional PCR, colony PCR, Real time PCR”.
- b. Cloning and gene expression.
- c. SDS-PAGE analysis for Proteins and lipopolysaccharides
- d. Microscopic examination
- e. Isolation of DNA and RNA of bacteria.
- f. Real time PCR

### **2. Isolation of Secondary metabolites and TLC and Column Chromatography**

### **3. Assay of antibacterial and antifungal activities using:**

Microtitre plate assay, disk diffusion method and agar diffusion method.

Assay of mixture of antibacterial.

Assay of adhesion and Quorum sensing activity of bacteria.

### **4. Fermentation techniques;** shake flask.

### **5. Isolation and characterization of Secondary metabolites**

**6. Experience in handling and cultivating bacterial pathogens** following Health and Safety approved procedures

## **Personal Skills:**

- Teaching experience and ability to deal with students.
- Ability to use modern technology in teaching and research.
- Hard worker can work with high degree of concentration for long working hours.
- High ability to learn and practice new technology.
- Organized, clean, can work in group or individual according to work requirement.
- Good experience in PC, word processing, data show and statistical analysis.

## **References:**

### **Prof. Dr. Mohamad adel EL Sokkary**

Prof. of Microbiology Department, Faculty of Pharmacy, Mansoura University, Mansoura 35516, Egypt.

E.mail; melsokary@yahoo.com

**Prof. Dr. Wael Abbas El- Naggar**

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