

## Curriculum Vitae

**Name:** Ahmed Osama Mostafa El Gendy

**Gender** Male

**Date of Birth:** January 23, 1984.

**Nationality:** Egyptian.

**Military service:** Exempted from military services.

**Marital status:** Married, with three children.

**Position:** Lecturer of Microbiology and Immunology. Faculty of Pharmacy, Beni-Suef University

**Address:** 1) El-Gendy Pharmacy, Ahmed Orabi street, Beni-Suef, Egypt.  
2) Faculty of Pharmacy, Beni-Suef University, El-Shahid Ahmed Hegazi Street, Beni-Suef, 62111, Egypt

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### Degrees:

- 1) **B.Sc. Of Pharmaceutical sciences (Excellent with honor degree)**, Cairo University, Beni-Suef Branch, May, 2005.
- 2) **Prerequisite graduate courses towards the M.Sc., degree:** (with general grade very good), Faculty of Pharmacy, Cairo University, Academic year February 2006, Exams January 2007 and results appeared at April 2007.
- 3) **M.Sc. of Microbiology and Immunology**, Beni-Suef University, March, 2010.
- 4) **PhD of Microbiology and Immunology**, Beni-Suef University, January, 2013.

### Noticing that:

- 1- The research unit at Beni-Suef branch of Cairo University was completed at July 2002.
- 2- Beni-Suef University, Egypt (was separated from Cairo University according to the Republic role No [192/2005] starting 1 August 2005).
- 3- All courses and exams (written, oral, and practical) during undergraduate and graduate studies were in English.

**Experiences:**

- 1) Demonstrator of microbiology at the Faculty of Pharmacy, Beni Sueif (Teaching practical course for 2<sup>nd</sup>, and 3<sup>rd</sup> year pharmacy students including introduction to practical pharmaceutical microbiology, practical bacteriology, serology and parasitology), 2005-2010.
- 2) **Visiting researcher at “Laboratory of Microbial Gene Technology and Food Microbiology” at the Department of Chemistry, Biotechnology, and Food Science at the Norwegian University of Life Science during a period from August 2008 - June 2009.**
- 3) Assistant lecturer in the same faculty, 2010-2013.
- 4) Lecturer in the same faculty, 2013 – now.
- 5) Lecturer at the faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University from September 2013 – now.

**Fields of research and interest:**

- 1) Antibiotic resistance, virulence factors and CRISPR Cas system associated with *Enterococcus faecalis*.
- 2) Natural products from Actinomycetes isolated from different niches.
- 3) Bacteriocins and antimicrobial peptides recovered from lactic acid bacteria (Characterization, Purification and Genotypic analysis)
- 4) Mycology, Biofilm & Quorum sensing : Induction of *Candida* biofilm formation , determination of antifungal susceptibilities of biofilm-grown *Candida* isolates, measuring extent of penetration of antifungal agents through biofilms, Viable count of biofilm cells exposed to antifungal agents and Scanning electron microscopy (SEM) of *Candida albicans* biofilm before and after antifungal challenging.
- 5) Performing of antimicrobial susceptibility techniques including disk diffusion method and MIC determination for bacterial clinical isolates.
- 6) Bacteriology: Isolation and identification of clinical microbial microorganisms (which include *E. coli*, *Klebsiella spp.*, *Enterobacter spp.*, *Staphylococcus spp.*, *Pseudomonas spp.*) using variety of media and

biochemical tests.

- 7) ELISA (Enzyme-linked Immuno-Sorbant Assay) applications.
- 8) Molecular techniques (genomics and proteomics) related to bacteriocins encoding genes isolated from lactic acid bacteria.
- 9) Bioinformatics: Bioinformatics and its applications in biomedical and pharmaceutical sciences.

### **Conferences and Most Recent Activities :**

- 1) Participating with poster in ASM Microbe-2016, which was hold from June 16 – 20, 2016, in Boston, USA.**
- 2) Participating with poster in FEMS 2015, the 6th Congress of European Microbiologists, which was hold from June 7 – 11, 2015, in Maastricht, the Netherlands.**
- 3) Participating with oral presentations in the III international conference on Antimicrobial Research – ICAR2014 which was hold from 1-3 October 2014, in Madrid (Spain).**
- 4) Participating in the International Conference of Nanotechnology, Biotechnology and Spectroscopy "ICNBS 2013" – Tools of Success in the Coming Era, which was hold during 29 Nov. – 01 Dec. 2013, Delta Pyramids Hotel, Egypt.
- 5) Participating with oral presentations in the International Scientific Conference of Bacteriocins and Antimicrobial Peptides – BAMP 2013 which was hold during 21st – 23rd May 2013, in the university city of Kosice, Slovakia, in Doubletree Hilton Hotel.**
- 6) Participating in the second scientific symposium of Faculty of Pharmacy, Beni-Suef University on "Recent Advances In Pharmaceutical Research", Jan. 12<sup>th</sup>, 2011.
- 7) Attendance a training course of bioinformatics and recent applications of gene technology, at faculty of pharmacy, Cairo University, September 2010.
- 8) Member of the Egyptian Pharmacists Syndicate.

- 9) Member of American society for microbiologists (ASM).
- 10) Member of the Cairo University Staff Association.
- 11) Member of the Egyptian Pharmaceutical Society.
- 12) Director of Innovation, Patency, Research excellence Support Office at Beni-Suef University from the period of Oct. 2014 – until June 2016.
- 13) Director of Computer center at Faculty of Pharmacy, Beni-Suef University from the period of 2009 – 2011.
- 14) Assistant director of RDI Focal point and international relationship office, Beni-Suef University from the period of 2010 – 2012.
- 14) Elected as a Member of the Board Directors of Beni-Suef Pharmacists Syndicate from the period of 2011 – 2014.

### **Thesis:**

**Ahmed Osama El-Gendy, (2010).** "Studying of *Candida albicans* Biofilms and Their Susceptibility to Antifungal Agents". Thesis for M. Sc. degree. Faculty of Pharmacy, Beni-Suef University.

**Ahmed Osama El-Gendy, (2013).** "Characterization of *Enterococcus faecalis* isolated from intensive care units and food samples, and testing their ability for bacteriocins production". Thesis for PhD degree. Faculty of Pharmacy, Beni-Suef University.

### **Publications:**

- 1) Abdelgawad, M. A., Bakr, R. B., **El-Gendy, A. O.**, Kamel, G. M., Azouz, A. A., & Bukhari, S. N. A. (2017). Discovery of a COX-2 selective inhibitor hit with anti-inflammatory activity and gastric ulcer protective effect. *Future Medicinal Chemistry*, 9(16), 1899-1912.
- 2) Fahim, H. A., El Rouby, W. M., **El-Gendy, A. O.**, Khairalla, A. S., Naguib, I. A., & Farghali, A. A. (2017). Enhancement of the productivity of the potent bacteriocin avicin A and improvement of its stability using nanotechnology approaches. *Scientific Reports*, 7, 10604.
- 3) Ahmad, M. S., **El-Gendy, A. O.**, Ahmed, R. R., Hassan, H. M., El-Kabbany, H. M., &

Merdash, A. G. (2017). Exploring the Antimicrobial and Antitumor Potentials of *Streptomyces* sp. AGM12-1 Isolated from Egyptian Soil. *Frontiers in microbiology*, 8.

4) AbdEl-Mogheith, S., **El-Gendy, A. O.**, Sultan, S., & El-Nesr, K. A. Exploring the Antimicrobial and Hepatoprotective Effects of Kefir; A Probiotic Fermented Milk. *Journal of pure and applied microbiology* 11 (2), 759-772.

5) Aly, A. M., Adel, A., **El-Gendy, A. O.**, Essam, T. M., & Aziz, R. K. (2016). Gut microbiome alterations in patients with stage 4 hepatitis C. *Gut pathogens*, 8(1), 42.

6) El-Hawary, S., Mohammed, R., AbouZid, S., Ali, Z. Y., **El-Gendy, A. O.**, & Elwekeel, A. (2016). In-vitro cyclooxygenase Inhibitory, antioxidant and antimicrobial activities of phytochemicals isolated from *Crassula arborescens* (Mill.) Willd. *International Journal of Applied Research in Natural Products*, 9(4), 8-14.

7) Hassan M H A, Mohammed R, Hetta M H, Abdelaziz T A, El-Gendy A O, Sleim M A (2016). Biological and Chemical Investigation of the Soft Coral *Lobophytum pauciflorum* Collected from the Egyptian Red Sea. *International Journal of Pharmacognosy and Phytochemical Research* 8 (6), 906-911.

8) Fahim, H. A., Khairalla, A. S., & **El-Gendy, A. O.** (2016). Nanotechnology: a valuable strategy to improve bacteriocin formulations. *Frontiers in microbiology*, 7.

9) **El-Gendy AO**, Gaber A., Rashad R., Hassan H., Sayed M. (2016). Purification and characterization of potent antimicrobial agent with antitumor activity recovered from Actinomycetes in Beni-Suef, Egypt. *ASM Microbe-2016, June 16 – 20, 2016, in Boston, USA*.

10) Mahmoud A, Adel A, **El-Gendy AO**, Essam T, Aziz RK (2015). A pilot exploration of the gut microbiome of Egyptian HCV patients. *The 13th Annual Rocky Mountain Bioinformatics Conference (Rocky 2015; <http://www.iscb.org/rocky2015>) December 10-12, 2015, in Snowmass, Colorado, USA. "Rocky" is an official conference of the International Society for Computational Biology (ISCB), and serves the worldwide bioinformatics research community.*

11) Hassana GS, Awdallah FM, El-Saadi MT, **El-Gendy AO**, Hemeda LR (2015). Synthesis of some benzothiazole derivatives evaluated as antimicrobials and antibiofilms. *Journal of*

12) Mebad ZM, Abdelghani SMM, **El-Gendy AO** and Amin MA (2015). Comparative Studies on the Antimycotic Activities of Commercially Available Vaginal Douches in the Egyptian Market. *New Egyptian Journal of Microbiology*, September 2015, ISSN; 1687-1219.

13) Lamie PF, Philoppes JN, **El-Gendy AO**, Rarova L, Gruz J (2015). Design, Synthesis and Evaluation of Novel Phthalimide Derivatives as in Vitro Anti-Microbial, Anti-Oxidant and Anti-Inflammatory Agents. *Molecules* 2015, 20(9), 16620-16642; doi:10.3390/molecules200916620

14) Mebad ZM, Abdelghani SMM, **El-Gendy AO** and Amin MA (2015). Commercial vaginal douches enhanced various virulence factors of *Candida albicans* isolated from clinical specimens of Egyptian women. *ICAAC/ICC2015 conference, San Diego, California. September 17-21.*

15) **El-Gendy AO**, Hendawy HAM, Ibrahim AM (2015). Fabrication of DNA electrochemical biosensor based on carbon nanotubes for detection of fecal contaminated water with *Enterococcus faecalis*. *FEMS 2015, the 6th Congress of European Microbiologists, which was hold from June 7 – 11, 2015, in Maastricht, the Netherlands.*

16) Dundar H, Brede DA, La Rosa SL, **El-Gendy AO**, Diep DB, Nes IF (2015). Fsr quorum sensing system and cognate Gelatinase orchestrate the expression and processing of pro-protein EF1097 into mature antimicrobial peptide enterocin O16. *J Bacteriol.* 2015 Jul;197(13):2112-21. doi: 10.1128/JB.02513-14. Epub 2015 Mar 2.

17) **El-Gendy AO** (2014). Different growth kinetics and their impacts on production of enterocin OS13 following by applying different purification strategies for recovering of high yield bacteriocin. *International conference on Antimicrobial Research – ICAR2014 which was hold from 1-3 October 2014, in Madrid (Spain).*

18) Tarek N, Hassan HM, AbdelGhani SMM, Radwan IA, Hammouda O, **El-Gendy AO** (2014). Comparative chemical and antimicrobial study of nine essential oils obtained from medicinal plants growing in Egypt. *Beni-Suef University Journal of Basic and Applied Sciences*, Volume 3, Issue 2, June 2014, Pages 149–156.

19) **El-Gendy AO**, Brede DA, Essam TM, Amin MA, Ahmed SH, Holo H, Nes IF (2013).

Purification and characterization of Enterocin OS13  $\alpha$  &  $\beta$ ; novel bacteriocins from a food isolate *Enterococcus faecalis* OS13 with potent activity towards antibiotic resistant nosocomial enterococci. *International Scientific Conference of Bacteriocins and Antimicrobial Peptides – BAMP 2013 which was held during 21st – 23rd May 2013, in the university city of Kosice, Slovakia.*

20) Ahmed, SH, Amin, MA, Saafan, AE, **El-Gendy, AO**, ul Islam, M, (2013). Measuring susceptibility of *Candida albicans* biofilms towards antifungal agents. *Der Pharmacia Lettre*, 5 (1):376-383.

21) **El-Gendy AO**, Essam TM, Amin MA, Ahmed SH, Nes IF, (2012). Clinical Screening for Bacteriocinogenic *Enterococcus faecalis* Isolated from Intensive Care Unit Inpatient in Egypt. *J Microb Biochem Technol.*, 4: 161-167. doi:[10.4172/1948-5948.1000089](https://doi.org/10.4172/1948-5948.1000089).

22) Ahmed SH, Amin MA, Saafan AE, **El-Gendy AO**, (2011). Antifungal Susceptibilities and Penetrations of Planktonic and Sessile *Candida albicans* Isolated from Urinary Tract Infections and Vaginitis from Beni-Suef City, Egypt. *Egy J Medical Microbiol.*, 20(4): 107-121

### **Projects:**

1. **Principal Investigator** in the collective **project** funded by the Beni-Suef University, entitled "Nanocomposites, a novel approach to optimize, purify and enhance the antibacterial activity of a potent bacteriocin (Enterocin OS13)", 2014. (65,000 EGP., **Beni-Suef University**).
2. **Researcher** in the **project** funded by the Beni-Suef University, entitled "Prediction of the response to interferon and rebavirin treatment in Egyptian chronic hepatitis C virus infection by investigation of interleukins 10, 12 and 18 and il-28b single nucleotide polymorphism", 2014. (40,000 EGP., **Beni-Suef University**).
3. **Principal Investigator** in the **project** funded by the Beni-Suef University, entitled "High throughput investigation for novel antimicrobial compounds recovered from different wild types microbiota designed for pharmaceutical applications", 2015. (50,000 EGP., **Beni-Suef University**).

4. **Researcher** in the **collective project** funded by the Beni-Suef University, entitled "Target nano particles for treatment of chronic bacterial prostatitis", **2015. (75,000 EGP., Beni-Suef University).**
5. **Researcher** in the **project** funded by the Beni-Suef University, entitled "Bioactive metabolites isolated from aquatic microorganisms of Nile River", **2015. (50,000 EGP., Beni-Suef University).**

### **Memberships:**

- 1) Member of American society for microbiologists (ASM).
- 2) Member of the Egyptian Pharmacists Syndicate.

### **Patents:**

Layered double hydroxide nanoparticles are a novel approach to increase stability of Avacin A. Submitted in Egypt patent office 2017/587.

### **Main managerial responsibilities:**

- 1) Assistant director of RDI Focal point and international relationship office, Beni-Suef University from the period of 2010 – 2012.
- 2) Director of Computer center at Faculty of Pharmacy, Beni-Suef University from the period of 2009 – 2011.
- 3) Elected as a Member of the Board Directors of Beni-Suef Pharmacists Syndicate from the period of 2011 – 2014.
- 4) Director of Innovation, Patency, Research excellence Support Office at Beni-Suef University from the period of Oct. 2014 – until June 2016.
- 5) Co-director for clinical pharmacy program at Faculty of Pharmacy, Beni-Suef University from the period June 2016- until June 2017.