

Personal Data

CURRICULUM VITAE



Name : **Khaled Mohamed Anwar Aboshanab**

Publication Name : **Khaled M. Aboshanab**

D.O.B : 27.08.1973

Place of birth : EL-Behira -Egypt

Nationality : Egyptian

Marital Status : Married

Title : **-Professor of Microbiology and Immunology**
Department, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.
- Professor of Pharmaceutical Life Sciences,
University Technology MARA (UiTM),
Malaysia

Former Acting Dean and Former Vice Dean
for Postgraduate Studies and Scientific
Research, Faculty of Pharmacy, Ain Shams
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Google Scholar ID : <https://scholar.google.com/citations?user=zXFaTBQAAAAJ&hl=en>

Researchgate ID : https://www.researchgate.net/profile/Khaled_Aboshanab2

Kudos : https://www.growkudos.com/profile/khaled_aboshanab

Publons : <https://www.webofscience.com/wos/author/record/L-9848-2019>

Research Interests:

- Combating Multidrug-resistant pathogens.
- Vaccine development against Dengue, Rabies, Rota, influenza, XDR *A. baumannii*
- Microbial biotransformation. Microbial bioinformatics and translation research
- Microbial genetics and antimicrobial resistance
- Biotechnology and genetics of antibiotics-producing microorganisms (aminoglycoside antibiotic biosynthetic gene clusters, biocombinatorial synthesis, biopolymers, and antifungal antibiotics).

Education

May 1996	Bachelor (BSc) of Pharmaceutical Sciences, 1996 (Distinction honor).	Faculty of Pharmacy, Alexandria University
Mars 2001	Master (MSc) of Pharmaceutical Sciences (Microbiology and Immunology) Thesis topic: “ <i>Production of microbial proteases</i> ”.	Faculty of Pharmacy, Ain Shams University
July 2005	Ph.D. Molecular biology and Biotechnology Thesis topic: “ <i>Genetic studies on the biosynthesis of the major aminoglycoside antibiotics: Isolation, analysis and comparison of the biosynthetic gene clusters for 12 aminoglycoside antibiotics</i> ”	Bergische Universität Wuppertal, Germany

Professional Experience

- **02 Nov. 1996 – 27 April 2001** **Teaching Assistant**, Faculty of Pharmacy, Ain-Shams University.
- **28 April 2001- 29 Jan. 2006.** **Assistant Lecturer**, Faculty of Pharmacy, Ain-Shams University.
- **30 Jan. 2006- 29 April 2012** **Lecturer** of Microbiology and Immunology, Faculty of Pharmacy, Ain-Shams University.
- **30 April 2012-23 April 2017** **Assistant Professor** of Microbiology & Immunology, Ain Shams University.
- **01 August 2013-31 July 2014** **Acting Head** of Microbiology & Immunology, Faculty of Pharmacy, Ain-Shams University.
- **Oct. 2013-Oct 2017** **Director of Quality Assurance Unit**, Faculty of Pharmacy, Ain-Shams University.
- **24 April 2017- now** **Professor** of Microbiology & Immunology, Faculty of Pharmacy, Ain-Shams University.
- **27 Sep. 2020 -06 April 2021** **Acting Dean** Faculty of Pharmacy, Ain Shams University.
- **20May 2018-April 2024** **Vice Dean** for Postgraduate Affairs and Scientific Research, Faculty of Pharmacy, Ain Shams University
- **April 2024-April 2025** **Professor at Pharmaceutical Life Sciences, Faculty of Pharmacy, University Tegnology MSRA (UiTM), Selangor, Malaysia**

Postgraduate Doctor Philosophy (PhD) of Pharmaceutical Sciences (Microbiology and Immunology)	Comprehensive Exams I and II, Evaluation of the Project Presentations
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Technical experience and Skills

- Computer skills: Microsoft Office Applications, Adobe Photoshop & Chemdraw ultra-8.
- Languages: Arabic (native), English (very good) and German (MS II).
- Computer-assisted analysis of DNA and protein sequences such as:
 - Staden Package** (Staden 1996; <http://staden.sourceforge.net/>),
 - FramePlot** (Ishikawa and Hotta, 1999; <http://www.nih.go.jp/~jun/cgi-bin/frameplot.pl>),
 - Clustal W** (Thompson *et al.*, 1994; <http://www2.ebi.ac.uk/clustalw/>),
 - Nucleic acids research** (SMART; Letunic *et al.*, 2004; http://nar.oupjournals.org/cgi/content/full/32/suppl_1/D142),
 - BioEdit Sequence Alignment Editor Sequence Manipulation Suite** (<http://www.cbio.psu.edu/sms/index.html>),
 - Mac-plasmap** (CGC Scientific. Inc.),
 - DNA-STRIDER™** 1.2 (Marck, 1988).
 - Restriction enzyme analysis:** Restriction Enzyme Site Mapper version 3 (<http://www.restrictionmapper.org/>); Webcutter 2.0 (**Error! Hyperlink reference not valid.**).
 - PCR:** PRIMER-FIND 3.0 (Fröbel Labor-Geräte, Lindau); pDRAW32 (<http://www.acaclone.com>); and Primer X (<http://bioinformatics.org/primerx/>).
 - Swiss modelling** (prediction and analysis of protein structure and Classifications).

Scientific Membership		
1	Scientific Committee for promotion of Professors and associate Professors (Round 47, 2022-2025; Microbiology and Immunology) , Egyptian Supreme Council of Universities, Ministry of Higher Education.Egypt	Member
2	American Society of Microbiology (ASM) at the Contributing Membership level, a global community	membership number is: 200179329
3	Founder of the Internation Culture Collections Ain Shams University (CCASU) http://www.wfcc.info/ccinfo/collection/col_by_country/e/20/ on World Data Center For Microorganisms (WDCM) http://www.wfcc.info/ccinfo/detail	Registration number 1186 رقم ايداع دولى 1186
4	Head of Research Ethics Committee, Faculty of Pharmacy, Ain Shams University	Head
5	Directory Open Access Journals (DOAJ) https://doaj.org/	membership number (Publisher) is: Hi23568380
6	Reviewer of Science, Technology, Innovation, Fundung Authority (STIFA)	Member ID 19542
7	Egyption Socy of Biotechnology ٤٢٠٦ لسنة ١٩٩٥ بالجمعية المصرية للتكنولوجيا الحيوية المشهورة برقم	membership
8	Egyptian network for Research Ethics Committee (ENREC)	membership
9	Membership of Egyptian Pharmacist Syndicate, Egypt	membership
Reviewed Projects and Scientific papers تحكيم رسائل/مشاريع/ ابحاث علمية		
1	Peer Reviewer of the following journals: Infection and Drug resistnce, Microorganisms, Zntibiotics GENE, PLOS ONE. AMB express, Applied Microbiology and Immunology, Scientific reports, Journal of ophthalmology, Plos Pathogens, Applied Biochemistry and Biotechnology, BMC microbiology, Biomedical research international, Biomedical Research International, BMC biochemistry, Microbes and infectious Diseases, Journal of Bioinformatics and Sequence analysis, Journal of microbiology and antimicrobials, Agriculture Science research journal, African Journal of Biochemistry, African journal of Microbiology Research, Future Journal of Pharmaceutical science, Bulletin faculty of pharmacy Cairo University, International Research journal of medicine and biomedical sciences,. University of Mauritius Research Journal, Archives of pharmaceutical sciences Ain Shams university, Journal of paediatric infectious diseases, Al Azhar journal of Microbiology, Clinical epidemiology, Microbiology and many others	
2	<ul style="list-style-type: none"> • Project Evaluation: STDF project (ID 33391) at 30 October 2018 and STDF proposal ID 33613 at 22 December 2018, ID 44025 on 16.09.2020. • Project Evaluation: STDF ID (47102), Entitled (The bioremediation of environmental pollutants using recombinant enzymes), STIFA grant (Applied Sciences Research Grants) at 10 Jan 2023 • Project Evaluation: STDF proposal ID (49355), Entitled (Targeted removal of colorectal cancer-associated <i>Fusobacterium nucleatum</i> and its biofilms to remodel 	

	<p>the tumor-immune microenvironment), STIFA grant (Egypt-China Cooperation Program: “Chinese-Egyptian Research Fund” (CERF) at 24 August 2023.</p> <ul style="list-style-type: none"> • Project Evaluation: STDF, proposal ID (51699), Entitled (Combating Antimicrobial Resistance with Cutting-Edge Synergistic Ozone and Laser Technology Enhanced by Probiotic Surface Treatment), STIFA grant (Egypt-UK Cooperation: International Science Partnerships Fund Research Collaborations Grant) 24 September 2024. • Project Evaluation: STDF proposal ID (52350), Entitled (A dual-action therapeutic strategy against drug resistant Candida biofilm: Catheter coated nanoparticles and mesenchymal stem cells based immunomodulation), STIFA grant (Egypt-China Cooperation Program: “Chinese-Egyptian Research Fund” (CERF)) (November 10, 2025).
3	<p>External Examiner for many Master and PhD thesis from faculty of pharmacy of Cairo University, Suez Canal University, Al Azhar University, and Tanta University</p> <p style="text-align: right;">- تحكيم رساله دكتوراه من دولة ماليزيا</p> <p><u>THESIS ONLINE SYSTEM; UPM University, Malaysia</u> (Sekolah Pengajian Siswazah (School of Graduates</p>
4	<p>External Examiner for oral examinations of various faculties of pharmacy, of different universities such as: Cairo, Alexandria, Al-Azhar (Boys & Girls), El-Mansoura, Tanta, Helwan, Sina, Ahram Canadian (ACU), Miser International (MIU), EL-Nahada University, Misr University for Science and Arts (MSA), Delta University, FUE, RUE.</p>

SUPERVISED SCIENTIFIC THESES

أولاً: الإشراف على الرسائل العلمية داخل الكلية:

Nr	Name of candidate	degree	Supervision of PhD thesis Theses title	إ. رسائل الدكتوراة remarks
1	Rana Ashraf Abdelkhalik Abobakr Assistant Lecturer of Microbiology and Immunology, Faculty of Dentistry – MSA university	PhD	Nanopore metagenomic sequence analysis and microbiological study of patients suffering from periodontal disease	Under work
2	Mahmoud Magdy Sherif Assistant Lecturer of Microbiology and Immunology, Faculty of Pharmacy – Ahram Canadian University	PhD	Isolation and Characterization of Bacteriophages Active against Clinical Isolates of MDR <i>Acinetobacter baumannii</i>	Under work
3	Reem Abu El-Fath Ragab Allam Youssef Assistant Lecturer of Microbiology and Immunology, Faculty of Pharmacy – Ahram Canadian University	PhD	Isolation and Characterization of Bacteriophages Active against Clinical Isolates of MDR <i>Salmonella</i>	Under work
4	Sayed Emad El-Din El-Sayed Assistant Lecturer, Faculty of Pharmacy, Ahram Canadian University (ACU) (2021)	PhD	In vitro and in vivo studies on the activities of some antifungal metabolites produced by some bacilli isolates	Awarded in 2024
5	Samar Sayed Mabrouk Assistant Lecturer, Faculty of Pharmacy, Ahram Canadian University (ACU)(2021)	PhD	Study of different approaches used to combat multi- drug carbapenem resistant Gram negative pathogens”	Awarded in 2023
6	Amira A. Abdebaset National Centre for Radiation Research and Technology (NCRRT), Drug Radiation Research Department, Egyptian Atomic Energy Authority (EAEA), Ahmed El-Zomor Street, Nasr city, Cairo, 11787, Egypt (2021)	PhD	Bacterial and gamma radiation synthesis of iron oxide nanoparticles for medical applications	Under work
7	Radwa Nour Eldeen Morgan National Centre for Radiation Research and Technology (NCRRT), Drug Radiation Research Department, Egyptian Atomic Energy Authority (EAEA), Ahmed El-Zomor Street, Nasr city, Cairo, 11787, Egypt (2021)	PhD	In vitro study on the effect of <i>Pseudomonas aeruginosa</i> exotoxin A in combination with gamma radiation on cancer cell line (s)	Awarded in 2023
8	Ann Aymen Elshamy Assistant Lecuture, Faculty of Pharmacy Ain Shams University (2019)	PhD	Molecular characterization of plasmid mediated carbapenem resistance of some Gram negative uropathogens”	Awarded in 2023
9	Nancy Gamil Banoub Research assistant of Microbiology and Immunology Manager Of Safety and bioassay lab. Egyptian Drug Authority (EDA) (2022)	PhD	Study on the antiviral, cytotoxic and immunomodulatory activities of certain natural metabolites	Under work
10	Shaza Mohamed Elhusseiny Bachelor of Pharmaceutical Sciences, Ahram Canadian University (ACU), (2011) Masters of Pharmaceutical Sciences, Cairo University (2019)	PhD	Immunomodulatory Effects Of Certain Fungal Metabolites On Some Selected Cancer Or Viral Infected Cell Lines	Awarded in 2022

11	Asmaa Atef Zaki, Bachelor of pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2014 (2019)	PhD	Bioprocess Engineering for the production of cephalosporin C by <i>Acromonium chrysogenium</i> Strain W42	Awarded in 2024
12	Mostafa Ahmed Mohammed Ahmed Master of Microbiology and Immunology, Faculty of Pharmacy, Al- Azhar University, Assiut (2018)	PhD	Molecular characterization of resistance mechanisms to fluoroquinolones of some <i>Acinetobacter baumannii</i> clinical isolates in Upper Egypt	Awarded 2020
13	Rania saied El-Housseiny, Assistant lecturer, of Pharmacy, Ain Shams University, 2010 Master 2014 (Microbiology & Immunology) (2018)	PhD	Immunomodulatory role of inflammasomes in pancreatic β -cells survival and function	Awarded 2023
14	Amr Shaker Meselhy MSc pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, / 2015	PhD	Molecular and physiological characterization of bacterial macrolide resistance mechanisms as an approach of infection control	Awarded 2020
15	Salma Mostafa Abdelaziz MSc pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2015	PhD	Characterization of antimicrobial resistance Mechanism(s) in some multi-drug resistant lower respiratory tract bacterial pathogens	Awarded 2021
16	Yomna Nagay Elkholy Assitant lecturer Faculty of Pharmacy, Ain Shams University, /2015 (2015)	PhD	Studies on antimicrobial activity od some bacterial isolates against extended spectrum beta lactamases producing Gram negative bacteria	awarded 2019
17	Noha Ahmed Kamel Ahmed, research assistance, faculty of pharmacy, MIU university, Egypt/2014 (2014)	PhD	“phenotypic screening and molecular characterization of carbapenem resistance of certain pathogenic Gram negative isolates in Egypt”	Awarded in in 2018
18	Masarra Mohammad Abo-el-soud Sakrm, Assitant lecturer Faculty of Pharmacy, Ain Shams University, /2014	PhD	Cloning and Expression of certain gene(s) putatively involved in acylhomoserine lactone quorum quenching activities as a new approach for infection control	Awarded in 2018
19	Noha Salah Elsayed, Assitant lecturer Faculty of Pharmacy, Ain Shams University, /2014	PhD	Production and characterization of polyhydroxyalkanoates biopolymer(s) produced by <i>Acinetobacter baumannii</i> isolate P39, <i>Bacillus cereus</i> P83 and <i>Azomonas macrocytogenes</i> P173	Awarded in 2018
20	Ahmed Saeed Abuzeid, Assistant lecturer, of Pharmacy, Ain Shams University, 2013	PhD	Characterization and production improvement of cytotoxic agent(s) produced by <i>Streptomyces parvus</i> isolate S86 and <i>Streptomyces griseus</i> isolate S131	Awarded in 2018
21	Yomna Nagy Hussien, Assistant lecturer, of Pharmacy, Ain Shams University, 2013	PhD	Study on the production of beta- lactamase(s) inhibitors from soil microbiota	Awarded in 2019
22	Ahmed Mohamed Abass, Assistant lecturer, of Pharmacy, Ain Shams University, 2012	PhD	Bioprocess development of calcitrol production from Vitamin D3 for industrial application using <i>Actinomyces hyovaginalis</i> strain	Awarded in 2018

23	Samira Hamed Mohamed research assistance, faculty of pharmacy, MSA university, 6 th October, /Master, 2014	PhD	“Fluoroquinolones Resistance and its Potential Underlying Mechanisms in some Gram Negative Isolates Recovered from Cancer Patients ”	Awarded in 2018
24	Ghadir saied El-Housseiny, Assistant lecturer, of Pharmacy, Ain Shams University, 2010	PhD	Improvement and Scaling up of Rhamnolipid production by a <i>Pseudomonas aeruginosa</i> isolate	Awarded in 2015
25	Sarra Ebrahim Saleh Mohammed, Assistant lecturer, of Pharmacy, Ain Shams University, 2012	PhD	Studies on interaction between certain microbial species isolated from mixed infections	Awarded in 2015
26	Esraa M Abdalla Bachelor of Pharmaceutical Sciences, Assiatant lecture Faculty of Pharmacy, Ain Shams University, /2017 (2023)	PhD	In-vitro studies and genomic analysis of bacteriophage(s) active against clinical isolates of MRSA	Under work
Supersvion of MSc thesis				ب. رسائل الماجستير
1	Ann Ayman Ibrahim El-Sayed Ibrahim El-Shamy Bachelor of Pharmaceutical Sciences Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2015	MSc	Phenotypic and genotypic studies on Antimicrobial Resistance of Certain Clinically Relevant Urinary tract bacterial pathogens	Awarded in 2019
2	Asmaa Atef Zaki, Bacholer of pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2014	MSc	A study on the production of certain 2-deoxystreptamine containing aminoglycoside antibiotics	Awarded in 2019
3	Ayaa Said Mohamoud Hashim, Bachelor of Pharmaceutical science 2011, NOCTAR, 2013	MSc	Experimental preparation of Killed-Rotavirus vaccine and evaluation of immune potential compared to current available rota virus vaccine	Awarded in 2017
4	Mona Mustafa Abdelkader Abdelalim, Bachelor of Pharmaceutical science 2009, German University in Cairo (GUC), 2011	MSc	Phenotypic and genotypic studies on antimicrobial resistance of some bacteria causing septic meningitis	Awarded in 2017
5	Mona Mohammed Hesham El-Gayar, Bacholer of pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2010	MSc	Alternative Approaches for the control of Methicillin resistant <i>Staphylococcus aureus</i> .	Awarded in 2015
6	Manar Mostafa Ahmed, Bacholer of pharmaceutical science, Demonstrator Faculty of Pharmacy, Sinai University, /Master 2010	MSc	Identification of dimerization interaction of certain Type VII secretion system membrane Proteins in <i>Staphylococcus aureus</i> : A new approach for virulence control..	Awarded in 2018
7	Salma Mustafa Mohammad Abdel-aziz, Bachelor of pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2012	MSc	Phenotypic and genotypic studies on antimicrobial resistance of lower respiratory tract bacterial pathogens	Awarded in 2015
8	Amr Shaker Meselhy Bachelor of pharmaceutical science, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2010	MSc	Phenotypic and genotypic studies on resistance to macrolides in certain bacterial involved in respiratory tract infection	Awarded in 2014
9	Masarra Mohammad Abo-el-soud Sakr, Bachelor of Pharmaceutical Sciences, Demonstrator Faculty of	MSc	Inactivation of <i>Pseudomonas aeruginosa</i> quorum sensing signals by some soil bacterial isolates	Awarded in 2013

	Pharmacy, Ain Shams University, /Master 2006			
10	Samira Hamed Mohamed research assistance, faculty of pharmacy, MSA university, 6 th October,/Master, 2008	MSc	“Genotypic and Phenotypic Studies on Bacterial Resistance to 2DOS-containing Aminoglycoside Antibiotics in certain Uropathogenic Gram Negative Bacteria”	Awarded in 2013
11	Noha Salah Elsayed, Bachelor of Pharmaceutical Sciences, Demonstrator Faculty of Pharmacy, Ain Shams University, /Master 2010	MSc	Studies on bacterial production of poly-β-hydroxybutyrate”	Awarded in 2014
12	Noha Ahmed Kamel Ahmed, research assistance, faculty of pharmacy, MIU university, Egypt/Master, 2007	MSc	“Genotypic and phenotypic studies on antimicrobial resistance of aerobic bacteria involved in diabetic foot infections”	Awarded in 2013
13	Ahmed Mohamed Abass Bachelor of Pharmaceutical Sciences, Demonstrator Faculty of Pharmacy, Ain Shams University, /2006	MSc	Microbial biotransformation of vitamin D3 into biologically active 1 alpha,25-dihydroxyvitamin D3	Awarded in 2011
14	Amira Abuzeid Abdelbaset Bachelor of Pharmaceutical sciences, 2007, Pharmacist at National Centre for Radiation Research and Technology (NCRRT)	MSc	“Early prediction of Gram negative bacteremia in febrile cancer patients: Correlation between some inflammatory mediators, exposure to gamma radiation and severity of infection”	Awarded in 2016
15	May Mohamed Awad Bachelor of Pharmaceutical Sciences, 2010, National research Center	MSc	Isolation and characterization of some potential probiotic candidates for the control of <i>Clostridium difficile</i> infection	Awarded in 2017
16	Walaa Mohammad Mohammad Khalil Rashed Bachelor of Pharmaceutical Sciences 2010, Deputy of Technical manager of Pyrogen and Safety Subunit National Organization For Research and Control of Biologicals	MSc	A comparative study between in vivo and in vitro methods for potency evaluation of Rabies vaccine preparations	Awarded in 2022
17	Reem Abu El-Fath Ragab Allam Youssef, Bachelor Degree in pharmacy & Pharmaceutical Sciences, Faculty of Pharmacy, Ahram Canadian university (2018)	MSc	"Phenotypic and genotypic characterization of Salmonella serovars isolated from humans and animals and studying the clonal relationship using RAPD and ERIC PCR"	Awarded 2021
18	Sayed Emad El-Din El-Sayed Bachelor of Pharmaceutical Sciences, Ahram Canadian University (ACU) (2017)	MSc	Production and characterization of some antifungal metabolites produced by <i>Alcaligenes</i> and <i>Lysinibacilli</i> isolates	Awarded 2020
19	Esraa M Abdalla Bachelor of Pharmaceutical Sciences, Demonstrator, Faculty of Pharmacy, Ain Shams University, /2017	MSc	Isolation and Characterization of Bacteriophages Active against MRSA Clinical Isolates	Awarded 2021
20	Rana Ashraf Elmesseri (2020) Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Misr International University (MIU) (2019)	MSc	Evaluating the association between the inhibition of staphyloxanthin production and the virulence of methicillin – resistant staphylococcus aureus isolates as an approach for infection control	Awarded in 2023
21	Shimaa Hamdy Mostafa	MSc	Study on Antimicrobial Resistance Pattern of Bacterial Pathogens	Under work

	Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University (2019)		Recovered from Patients Diagnosed with Fever of Unknown Origin	
22	Hager Othman Abdelsadek Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, 6 October University for Modern Sciences and Arts, (2020)	MSc	Study of the Antimicrobial Activity of Encapsulated Nanoparticles against Multidrug Resistant <i>Pseudomonas aeruginosa</i>	Under work
23	Hadeel Khaled Mohamed Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University, (2020)	MSc	Isolation and evaluation of antibacterial activities of fortimicin(s) produced by <i>Micromonospora olivastrospora</i> DSM 43868 against multidrug resistant pathogens”	Under work
24	Sarra Shokry Soliman Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University 2017, (2020)	MSc	Generation of a reverse genetics- based highly propagative candidate vaccine strains against seasonal influenza A/H3N2 viruses	Awarded in 2024
25	Nancy Gamil Banoub Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Heliopolis University 2017	MSc	Study on different approaches that can be used to combat resistance caused by MDR <i>Acinetobacter baumannii</i> pathogens	Awarded 2021
26	Nagwa Osama Mohamed Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, RUE 2017 (2020)	MSc	Phenotypic and genotypic studies on vancomycin resistant <i>Staphylococcus aureus</i>	Under work
27	Mirette Amir Fayez Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University (2021)	MSc	Comparative Study of Molecular, Serological and Biochemical Techniques used in the diagnosis of Covid-19	Awarded 2025
28	Marina Hosam Bishara Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University (2021)	MSc	Determination and Quality control of certain mycotoxins in food and food supplements	Awarded in 2024
29	Amany Khaled Ahmed Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Sinai University (2021)	MSc	Characterization of CRISPR/Cas system in <i>Klebsiella pneumoniae</i> and its correlation to antimicrobial resistance	Awarded in 2024
30	Aliaa Atef Aziz Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University (2021)	MSc	Antimicrobial activity and biological evaluation of modified nanoparticles for potential treatment of cancer	Awarded in 2025
31	Mariam Zakria Moahmed Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain Shams University (2021)	MSc	Synthesis, Characterization and Evaluation of Coated Silver Nanoparticles against Multidrug Resistant Pathogens “	Under work
32	Suzan Shehata Abdallah Mahmoud Bachelor of Pharmaceutical Sciences Faculty of Pharmacy, Ain-Shams University, 2018 (2021)	MSc	Synthesis, characterization and evaluation of the antimicrobial activity of modified mesoporous silica nanoparticles against multidrug resistant pathogens	Under work

اولا: الاشراف على الرسائل العلمية خارج الكلية:

Nr	Name of candidate	degree	Theses title	Remarks
1	Nisreen Mohamed Okba Bachelor pharmaceutical Science, Tanta University, Research assistant, Faculty of Pharmacy, Tanta University (girls)/Master 2007	MSc	“Genotypic and phenotypic studies on the biosynthesis of ribostamycin from <i>Streptomyces ribosidificus</i> ”	Awarded in 2012
2	Sally Tohamy kamal Tohamy Assistance lecturer, Department of Microbiology and Immunology Faculty of pharmacy-(Girls), Al-Azhar University	PhD	Characterization of the Antimicrobial Resistance of Gram Negative Bacterial Pathogens involved in Bloodstream Infections in Cancer Patients	Awarded in 2018

A. International publications:

1. Elmasry EM, Hegazy E, El-Housseiny GS, **Aboshanab KM***. *Camellia sinensis*-synthesized silver nanoparticles and meropenem combination against extensively drug-resistant *Klebsiella pneumoniae*. *Sci Rep*. 2026 Feb 20;16(1):7475. <https://doi.org/10.1038/s41598-026-38375-0>
2. Al-Aasar ES, Abdallah HY, Zaid ASA, **Aboshanab KM***, Tantawy MA. Host MiRNA responses during different waves of SARS-CoV-2: diagnostic implications of miR-19a-3p, miR-374b-5p, miR-15b-5p, and miR-320a-5p expression. *BMC Infect Dis*. 2026 Feb 16. <https://doi.org/10.1186/s12879-026-12706-y>
3. Amr RM, Bishr AS, **Aboshanab KM***, Hassouna NA. Correlation between the antibiotic resistance and virulence determinants of vancomycin-resistant enterococci: paradoxical involvement of *vanA* in phenotypic resistance to teicoplanin. *Gut Pathog*. 2025 Dec 14;17(1):110. <https://doi.org/10.1186/s13099-025-00776-3> .
4. **Aboshanab KM***, Alshahrani MY, Enshasy HAE, Shabana MR, Majeed ABA. Insights on vaccine-derived poliovirus type 2 outbreaks and novel oral polio vaccine candidates. *Diagn Microbiol Infect Dis*. 2026 Mar;114(3):117221. <https://doi.org/10.1016/j.diagmicrobio.2025.117221> .
5. Othman AA, Mohamed Zain NI, Eshak Z, Adman MA, Abd Latif Z, **Aboshanab KM***, Ahmad A*. Diversity of necrophagous flies and microbiome profiling of *Phumosia promittens* as a rainforest health indicator. *AMB Express*. 2025 Dec 12;16(1):1. <https://doi.org/10.1186/s13568-025-01994-3>
6. Riad OKM, Selim HMRM, Tohamy STK, **Aboshanab KM***. Anti-aflatoxigenic effect of *Lactobacillus rhamnosus* and its synbiotic combination of chitosan/ZnO in milk. *AMB Express*. 2025 Nov 6;15(1):165. <https://doi.org/10.1186/s13568-025-01960-z> .
7. Abouelwafa MZ, Saleh SE, Hussien MSA, Yahia IS, **Aboshanab KM***. Antibacterial, antibiofilm and cytotoxic properties of *Aloe vera*-synthesized silver titanium nanoparticles. *AMB Express*. 2025 Oct 27;15(1):157. <https://doi.org/10.1186/s13568-025-01965-8>
8. Shehata S, Elkholy YN, Hussien MSA, Yahia IS, **Aboshanab KM***. Antibacterial, antibiofilm and cytotoxic activity of synthesized metal-incorporated mesoporous silica nanoparticles. *AMB Express*. 2025 Sep 17;15(1):130. <https://doi.org/10.1186/s13568-025-01938-x> .
9. Suliman M, Bishr AS, Tohamy STK, Mabrouk SS, Ismail NSM, Samy AM, **Aboshanab KM***. Pristinamycin-antibiotic combinations against methicillin-resistant *Staphylococcus aureus* recovered from skin infections. *BMC Infect Dis*. 2025 Sep 16;25(1):1107. <https://doi.org/10.1186/s12879-025-11433-0> .
10. Elshamy AA, Kamal SK, Mahmoud MT, Elhasany AM, Shady AA, Mohamed SA, Abd-Elmaaboud HA, El-Awady NE, Mohamed RA, El-Mirghany SA, El-Hady SW, Abd-ElRahman MM, Saad BT, Alshahrani MY, **Aboshanab KM***, Mabrouk SS. Genomic analysis and preclinical evaluation of two hydrogel-formulated novel virulent phages isolated against a carbapenem-resistant *Acinetobacter baumannii*. *Virology*. 2025 Nov;612:110676. <https://doi.org/10.1016/j.virol.2025.110676> .
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144. Noha Salah, **Khaled Aboshanab***, Mohammad Aboulwafa, Nadia Hassouna (2013) PHB production in *Azomonas*, *Acinteobacter* and *Bacillus* species: Isolation, Screening and Identification. *Archives of Clinical Microbiology*. 4(5) 2013. <http://imedpub.com/ojs/index.php/acmicrob/article/view/622>
145. Noha Salah, **Khaled Aboshanab***, Mohammad Aboulwafa, Nadia Hassouna (2013) Optimization of bioplastic (Poly-β-hydroxybutyrate) production by a promising *Azomonas macrocytogenes* bacterial isolate P173. *African Journal of Microbiology Research*.7(42):5025-5035. [DOI: 10.5897/AJMR2013.6060](https://doi.org/10.5897/AJMR2013.6060)
146. Masarra M. Sakr, **Khaled M. Aboshanab***, Mohammad M. Aboulwafa, Nadia A. Hassouna (2013). Characterization and Complete Sequence of Lactonase Enzyme from *Bacillus weihenstephanensis* Isolate P65 with Potential Activity against Acyl Homoserine Lactone Signal Molecules. *Biomedical Research International*. 2013: 1-10, Article ID 192589. <http://dx.doi.org/10.1155/2013/192589>.
147. Noha A. Kamel, **Khaled M. Aboshanab***, Mohammad M. Aboulwafa, Wafaa N. El-tayeb (2013) Plasmid Mediated Extended Spectrum Beta-Lactamase producing strains of Enterobacteriaceae Isolated from Diabetic Foot Infections in Egypt. *Arch. Clinical microb*. 4(4):1-8
148. Ahmad M. Abbas, Mohammad M. Aboulwafa*, **Khaled M. Aboshanab**, and Nadia A. Hassouna (2011) Optimization of culture conditions for transformation of vitamin D3 to calcitriol by *Actinomyces hyovaginalis* isolate A11-2. *Arch. Clinical microb*. 2(6):1-10. [doi: 10.3823/242](https://doi.org/10.3823/242);
149. Ahmad M. Abbas; **Khaled M. Aboshanab**, Mohammad M. Aboulwafa* and Nadia A. Hassouna (2011) *Actinomyces hyovaginalis*: A novel bacterial isolate with transforming activity of vitamin D3 to 1α, 25-dihydroxyvitamin D3. *J. Am. Science*, 7(9): 231-237.
150. **Aboshanab KM*** (2010) Isolation, recombinant expression and characterization of the *dprA* gene product in *Streptomyces rimosus* NRRL 2455. *African J. of Microbiology Research*, 4(10): 915-922

B. Local publications:

1. Atef, A., EL-Houssieny, G., Saleh, M., Aboshanab, K. Potential prospects of nanomaterials in bladder cancer treatment. *Archives of Pharmaceutical Sciences Ain Shams University*, 2024; 8(2): 396-426. <https://doi.org/10.21608/aps.2024.319847.1194>
2. Isleem, R., Eid, A., Hassan, S., Aboshanab, K., EL-Housseiny, G. (2024). 'Endophytic bacteria as a source of novel bioactive compounds', *Archives of Pharmaceutical Sciences Ain Shams University*, 8(2): 469-496. <https://doi.org/10.21608/aps.2024.322214.1197>
3. Menna Ramadan Shabana; Azza Salamon; Nooran S. Elleboudy; **Khaled M. Aboshanab*** (2024). Vaccine-Derived Poliovirus: Epidemiology, Types, Global Response and Future Prospectives. *Archives of Pharmaceutical Sciences Ain Shams University*, 2024; 8(1): 29-41. <https://doi.org/10.21608/aps.2024.268453.1159>
4. Samar S. Mabrouk*, Ghada R. Abdellatif, Ahmed S. Abu Zaid, **Khaled M. Aboshanab** (2023). New Insights on the Carbapenem-resistant Gram Negative-associated-Infections: Challenges and Opportunities

Archives of Pharmaceutical Sciences Ain Shams University, 2023; 7(1):97-127.
<https://doi.org/10.21608/aps.2023.206876.1118>

5. **Ann Elshamy***, Sarra Saleh; **Khaled M. Aboshanab**; **Mohammad M. Aboulwafa**; **Nadia A. Hassouna (2023)**. In Vitro Meropenem/Antibiotic and Meropenem/Bacteriophage Combinations Against Carbapenem-Resistant Gram-Negative Uropathogens. Archives of Pharmaceutical Sciences Ain Shams University, 2023; 7(1):19-30. <https://dx.doi.org/10.21608/aps.2023.198691.1111>
6. **Walaa M. Khalil*** , **Khaled M. Aboshanab** , **Mohammad M. Aboulwafa (2021)**. Mini review on Potency Evaluation of Rabies Vaccine preparations. Archives of Pharmaceutical Sciences Ain Shams University, 2021; 5(2):265-274. <https://dx.doi.org/10.21608/aps.2021.101125.1071>
7. **Elgendy N, K Aboshanab KM, M Yassien, M Aboulwafa, N Hassouna (2021)**. Scaling up, Kinetic modeling, and Economic analysis of poly (3-hydroxybutyrate) production by *Bacillus cereus* isolate CCASU-P83. Archives of Pharmaceutical Sciences Ain Shams University 5 (1), 158-170. DOI: [10.21608/aps.2021.76831.1061](https://doi.org/10.21608/aps.2021.76831.1061)
8. **Amr Bishr; Khaled M. Aboshanab; Mahmoud Yassien; Nadia A. Hassouna (2019)**. Macrolide resistance pattern of staphylococci collected from hospitalized patients in Egypt. Archives of Pharmaceutical Sciences Ain Shams University, 2019; Vol. 3(2):285-293. <https://dx.doi.org/10.21608/aps.2019.17391.1014>
9. **Salma M Abdelaziz; Khaled M. Aboshanab; Mahmoud Yassien; Nadia A. Hassouna (2019)**. Antimicrobial resistance patterns of MDR *Staphylococcus aureus* clinical isolates involved in the lower respiratory tract infections in Egypt. Archives of Pharmaceutical Sciences Ain Shams University, 2019; Vol. 3(2):294-304. <https://dx.doi.org/10.21608/aps.2019.17391.1014>
10. **Yomna N. Elkholy; Walid Faisal Elkhatib; Khaled M. Aboshanab; Mohammad Aboulwafa; Nadia A. Hassouna (2019)**. Evaluation of antimicrobial activity and in vitro safety of the methanolic extract of *Streptomyces manipurensis* soil isolate H21 for potential industrial applications. Archives of Pharmaceutical Sciences Ain Shams University, 2019; Vol. 3(1):1-10. <https://dx.doi.org/10.21608/aps.2019.20201>
11. **Ann A. Elshamy, Khaled M. Aboshanab*** , **Mahmoud A. Yassien, Nadia A. Hassouna (2018)**. Prevalence of carbapenem resistance among multidrug-resistant Gram-negative uropathogens. Archives of Pharmaceutical Sciences Ain Shams University, 2(2):70-77. <https://dx.doi.org/10.21608/aps.2018.18736>
12. **Ahmed S. Abu Zaid, Khaled M. Aboshanab*** , **Mahmoud A. Yassien, and Nadia A. Hassouna (2017)**. Improvement the production of cytotoxic metabolites by *Streptomyces griseus* KJ623766. Archives of Pharmaceutical Sciences Ain Shams University, 1(2):31-38. <https://dx.doi.org/10.21608/aps.2017.11022>
13. **Asmaa A. Ibrahim, Khaled M. Aboshanab*** , **Mahmoud A. Yassien, and Nadia A. Hassouna (2017)**. Improvement of paromomycin production by *Streptomyces rimosus subsp paromomycinus* NRRL 2455 using gamma irradiation mutagenesis. Archives of Pharmaceutical Sciences Ain Shams University, 2017; Vol. 1(2):26-30. <https://dx.doi.org/10.21608/aps.2017.11017>
14. **Manar M. Ahmeda, and Yasser M. Ragabb, and Khaled M. Aboshanab*** (2017). A large soluble domain of the *Staphylococcus aureus* ESAT-6 Virulence Factor EsaA is stable in the absence of its cognate transmembrane domains. Archives of Pharmaceutical Sciences Ain Shams University, 2017; Vol. 1(2):39-45. <https://dx.doi.org/10.21608/aps.2017.11025>.
15. **Amira A. Abdelbaset, Aboshanab, Khaled M, Mohammad M. Aboulwafa, Hala A. Farrag*** (2015). Profiles of Lipase and Protease Enzymatic activities and antimicrobial resistance of some bacterial isolates recovered from blood samples. *Al_ azhar J. Of Pharmaceutical Sciences*.51: 118-134, ISSN 1110-1644.
16. **Aboshanab KM*** (2010) Isolation, Sequencing and Annotation of three genes putatively involved in capreomycin biosynthesis in *Streptomyces ribosidificus* NRRL B-11466. *Egy. J. of Medical Microbiology*, 19(4): 63-74.
17. **Aboshanab KM*** (2010) Identification of both *neoQ* and *neoB* gene products involved in the biosynthesis of neomycin in *Streptomyces fradiae* BUWKH 66278. *Egy.J. Biotech.* 36: 1-15.
18. **Aboshanab KM*** (2010) Cloning, expression and knock-out of *ribE* gene involved in the biosynthesis of Ribostamycin in *Streptomyces ribosidificus* NRRL B-11466. *Egy. J. of Medical Microbiology*, 19(1): 47-58.

19. **Aboshanab KM*** (2009) Formation, Regeneration and Efficient Plasmid Transformation of Protoplasts of the major 2-deoxystreptamine aminoglycoside producers. *Egy. J. biotechnology*, **33**: 66-78.
20. **Aboshanab K*** (2006) Cloning and expression of *neoQ* and *neoB* genes coded for bifunctional 6'- (and 6''')-dehydrogenase and 6'- (and 6''')-aminotransferase involved in the biosynthesis of neomycin in *Streptomyces fradiae* BUWKH 66278. *Egyptian J. Biotechnology*, **24**: 103-120.
21. **Aboshanab K., Hassouna N. A, Yassien M. A*, Aboulwafa M. M. (2003)** Characterization of crude protease enzymes produced by *Streptomyces pseudoehinosporeus* and *Bacillus megaterium*. New Egypt. *J. Microbiol.*, **6**: 71-84.
22. **Aboshanab K., Hassouna N. A, Yassien M. A*Aboulwafa M. M. (2003)** Protease production by *Streptomyces pseudoehinosporeus* and *Bacillus megaterium*. New Egypt. *J. Microbiol.*, **6**: 33-52.

Conferences:

1. **Aboshanab K (2024).** The IMcert International Conference, Aswan Egypt. 08-12 January 2024. Program: **3rd International Conference of the Erasmus+ Projekt IMCert (Immune Modulation Certificate for Postgraduate Students Enabled by Blended Learning) No. 619017-EPP-1-2020-1-EG-EPPKA2-CBHE-JP.** **Speaker** as Coordinator of Ain Shams University for the Erasmus plus project.
2. **Aboshanab K (2023).** The 3rd International Conference, Faculty of Pharmacy Ain Shams University Cairo, Egypt. “Sustainability and innovation in Pharmaceutical Research and Industry” 19-20 November 2023. Al Masa Hotel, Cairo, Egypt: Conference coordinator and **Chairperson of Session # “Insights in human Pathogens, vaccine development and Multiomics).**
3. **Aboshanab K (2023).** The 11th Annual Ain Shams University International Conference, Cairo, Egypt. “Knowledge Economy for Better Life” 10-11 May 2023. Triumph Luxury Hotel, Katameya, New Cairo, Egypt: **Chairperson of Session # “Vaccinology Workshop in collaboration with the Jenner Institute at the University of Oxford, UK).**
4. **Aboshanab K (2023).** The IMcert International Conference, Leipzig Germany” 05-10 February 2023. Program: **2nd International Conference of the Erasmus+ Projekt IMCert (Immune Modulation Certificate for Postgraduate Students Enabled by Blended Learning) No. 619017-EPP-1-2020-1-EG-EPPKA2-CBHE-JP.** **Speaker** as Coordinator of Ain Shams University for the Erasmus plus project. "
5. **Aboshanab K (2022).** The IMcert International Conference, Lorraine, France” 23-28 September 2022. Program: **1st International Conference of the Erasmus+ Projekt IMCert (Immune Modulation Certificate for Postgraduate Students Enabled by Blended Learning) No. 619017-EPP-1-2020-1-EG-EPPKA2-CBHE-JP.** **Speaker** as Coordinator of Ain Shams University for the Erasmus plus project
6. **Aboshanab K (2022).** The 10th Annual Ain Shams University International Conference, Cairo, Egypt. “The University as an Anchor for Development, Towards the New Republic” **Delivering Lecture on “Primer Design: Principles and In Silico-Methodology # “Bioinformatics in Medicine).** 30th March 2022
7. **Aboshanab K (2022).** The 10th Annual Ain Shams University International Conference, Cairo, Egypt. “The University as an Anchor for Development, Towards the New Republic” **Chairperson of Session # “Prospects in Medical Research).** 31th March 2022.
8. **Aboshanab K (2020).** The 5th Medical Integrated Students Research (MISR) conference, Faculty of Medicine Ain Shams University, Cairo, Egypt. Attending and as an **External Examiner** of the Student Research Projects. 4-7 Mars 2020
9. **Aboshanab K (2019).** A conference **Speaker** in Microbiology Conference “9th Annual Congress on Clinical Microbiology and Infectious Diseases “Preventive technique towards infectious Diseases). October 16-17 2019 at Tokyo, Japan.
10. **Aboshanab K (2019).** (Title: Guidelines of antimicrobial agents and Role of Pharmacist in Public. **Key note Speaker** in Microbiology Conference “7th Conference of Damietta Pharmacist Syndicate). 31 October, 2019. , Kempinski hotel, Damietta, Egypt
11. **Aboshanab K (2019)** A conference **Speaker** of a Microbiology and Biotechnology Session (title: Prevalence of MDR-and XDR Gram-negative pathogens isolated from febrile neutropenic cancer patients with bloodstream infections in Egypt and new synergistic antibiotic combinations), 8th International Conference of Ain Shams University 1-3 April, 2019, Cairo, Egypt
12. **Aboshanab K (2019)** A conference **Chairperson** of a Microbiology and Biotechnology Session, 5th FUE International Conference of Pharmaceutical Sciences (3rd FUE-ICPS) January 28-30, 2019, Rouyal Maxim Palace Kempinski, Cairo, Egypt.
13. **Aboshanab K (2019)** A conference Attender BGICC 2019 the 11th breast- Gynecological & Immunooncology International Cancer Conference, held on 17th and 18th January 2019 in Cairo, Egypt. One World Against Cancer, Hilton, Heliopolis Hotel, Cairo, Egypt.
14. **Aboshanab K (2018)** Attender Chemical Security Vulnerability Assessments and Risk Mitigation for the Pharmaceutical Industry workshop on 9-13 September 2018 at the Hilton Cairo Zamalek Residences. Sandia

National Laboratories (SNL) in collaboration with Ain Shams University (ASU) will host a five-day, interactive workshop to train best practices in chemical security vulnerability assessments and risk mitigation for the pharmaceutical industry.

15. **Aboshanab K (2018)** (Mechanisms of fluoroquinolones resistance). **Keynote Speaker** in Microbiology Conference "Next Generation Sequencing in Microbiology from Basic Laboratory Technique to application in the clinical Setting". 10-11 October, 2018. , Intercontinental Cit Stars, Nasr City, Cairo, Egypt
16. **Manar M. Ahmed, Khaled M. Aboshanab, Yasser M. Ragab and Khaled A. Aly (2016)**. The Transmembrane Domain of the *Staphylococcus aureus* ESAT-6 Secretion System Component EssB Interacts with the Integral Membrane Protein EssF. **Poster** in Conference of American Society for Microbiology (ASM) Microbe 2016, June 16-20, Boston, Massachusetts, USA.
17. **Masarra M. Sakr, Mohammad M. Aboulwafa, Khaled M. A. Aboshanab, Nadia A. Hassouna (2016)**. AHL-lactonases of *Bacillus cereus*, characterization of catalytic activities and sequencing encoding genes. **Poster** in Conference of American Society for Microbiology (ASM) Microbe 2016, June 16-20, Boston, Massachusetts, USA.
18. **Noha S. Elsayed, Khaled M. Aboshanab, Mahmoud A. Yassien, Nadia A. Hassouna (2016)**. Recovery and Characterization of Polyhydroxybutyrate Biopolymer Produced by *Bacillus cereus* Isolate P83. **Poster** in Conference of American Society for Microbiology (ASM) Microbe 2016, June 16-20, Boston, Massachusetts, USA
19. **Aboshanab K (2015)** A conference **Speaker** of a session titled "Pathway Engineering For the Production of Antibiotics Using Genetically Modifying Antibiotic Producing Strains ". 3rd FUE International Conference of Pharmaceutical Sciences (3rd FUE-ICPS) February 9-11, 2015, Intercontinental Cit Stars, Nasr City, Cairo, Egypt
20. **Noha Salah Elsayed, Mohammad Aboulwafa, Khaled Aboshanab, Nadia Hassouna (2015)**. Improvement of Poly-beta-hydroxybutyrate production by *Bacillus cereus* isolate P83. 5th International Conference of Pharmaceutical and Drug industries Research Division Under the Theme of Advance in Pharmaceutical Research, March 29-30, .www.enbmb.eg.net, March 29-30, National Research Center, Cairo, Egypt.
21. **Masarra M. Sakr, Khaled M. Aboshanab, Mohammad M. Aboulwafa, Nadia A. Hassouna (2015)**. Lactonase from *Bacillus thurigiensis* Isolate B16; A highly conserved Chromosome-Mediated Enzyme with Role In Quorum Quenching. 5th International Conference of Pharmaceutical and Drug industries Research Division Under the Theme of Advance in Pharmaceutical Research, March 29-30, .www.enbmb.eg.net, March 29-30, National Research Center, Cairo, Egypt
22. **Aboshanab K (2014)** A conference Speaker of a session titled "Biocombinatorial Synthesis of New Aminoglycoside Antibiotics Using Genetic Manipulation". The 17th Congress of the Association of Pharmacy Colleges in the Arab World. The 1st International Conference of The Faculty of Pharmacy; Ain Shams University "New trends in Drug Discovery, Development and Pharmacy Practice" 14th -16th October, 2014, Faculty of Pharmacy, Ain Shams University, African Union Organization st., Abbasia, Cairo, Egypt.
23. **Aboshanab K (2014)** A workshop **Speaker** of a session titled "Gene Expression using pET expression system. Four-day Workshop: Advanced Techniques in Molecular Biology and Tissue culture, 22-25 September 2014. Botany and Microbiology Department, Faculty of Science, Al-Azhar University, Cairo, Egypt.
24. **Masarra M. Sakr, Khaled M. Aboshanab, Mohammad M. Aboulwafa, Nadia A. Hassouna (2014)**. Characterization of the Quorum Quenching activity of *Streptomyces minutiscleroticus*; A new approach for Infection Control. 11th National conference of Biochemistry and Molecular Biology "Disease diagnosis and Healthy care" Organized by National committee for Biochemistry and Molecular Biology (NCBMB).www.enbmb.eg.net, March 30-April 1 (2014), Guesthouse, Ain Shams University, Cairo, Egypt.
25. **Noha Salah Elsayed, Khaled M. Aboshanab, Mohammad M. Aboulwafa, Nadia A. Hassouna (2014)**. Cost-effective production of the bio-plastic Poly- β -hydroxybutyrate using *Acinetobacter baumannii* bacterial isolate P39. 11th National conference of Biochemistry and Molecular biology. "Disease diagnosis and healthy care" Organized by National committee for Biochemistry and Molecular Biology (NCBMB).www.enbmb.eg.net, March 30-April 1 (2014), Guesthouse, Ain Shams University, Cairo, Egypt.
26. **Samira M. Hamed, Khaled M. A. Aboshanab, Walid F. Elkhatib, Mohamed S. Ashour (2014)**. Phenotypic and genotypic aminoglycoside resistance in certain Gram negative uropathogens recovered from hospitalized Egyptian patients. 11th National conference of Biochemistry and Molecular Biology "Disease diagnosis and

healthy care” Organized by National committee for Biochemistry and Molecular Biology (NCBMB).www.enbmb.eg.net, March 30-April 1 (2014) Cairo, Egypt.

27. **Okba M. Nisreen, Aboshanab M. Khaled, El-banna S, Tarek, Abd El-Aziz A. Ahmed (2012).** Isolation and expression of 2-deoxy-scyllo-inosose synthase (RibC) from ribostamycin gene cluster in *E. coli*. *The 18th International Conference of the Egyptian Society for Medical Microbiology* "Current topics in infectious diseases",2012, April 28, Cairo, Egypt..
28. **Aboshanab KM (2010)** Cloning and expression of *neoQ* and *neoB* genes coded for bifunctional 6'- (and 6''')-dehydrogenase and 6'- (and 6''')-aminotransferase involved in the biosynthesis of neomycin in *Streptomyces fradiae* BUWKH 66278. The 17th international conference of the Egyptian Society for Medical Microbiology (ESMM) "New Modalities in Microbiology", held in April, 25-26, **2010** participation.
29. **Aboshanab KM (2004)** The 5th international conference of the Society of Applied Microbiology (ESMM) "Secondary metabolites of Actinomycetes. ", hold in Jena, Germany, Mars, 25-27, **2004** participation.

Patency:

Patency

1. **Ahmad M. Abbas, Mohammad M. Aboulwafa, Khaled M. Aboshanab, and Nadia A. Hassouna (2011)** Production of biologically active calcitriol, from vitamin D3 using locally isolated *Actinomyces hypvaginalis*, request 882-2011 at 31.05.2011.
2. **Aboshanab K., Schmidt-Beissner H., Wehmeier U., Welzel K., Vente A. Piepersberg W*. (2005)** Neue Gene aus Biosynthese Genclustern zur Synthese von Aminoglycosid-Antibiotika sowie damit herstellbare neue Aminoglycosid-Antibiotika. **German Patent** Application AZ 102004017141.6 (Combinature Biopharm, Berlin), PCT (**International Patent**) /DE 102004017141A1; Aug. 2005;WO 2005/095591. Patent WO2005095591. <https://patents.google.com/patent/DE102004017141A1/fr>

Internations Books:

1. **Piepersberg W*, Aboshanab KM., Schmidt-Beißner H, Wehmeier U (2007)** The Biochemistry and Genetics of Aminoglycoside Producers. In: Aminoglycoside Antibiotics From Chemical Biology to Drug Discovery. Chapter 2, pp. 15 – 118. Ed.: Arya Dev P., Print ISBN: 978-0-471-74302-6, Online ISBN: 978-0-471-4967-6, John Wiley & Sons, inc., publication, Wiley- VCH, Hoboken, New Jersey, USA.

<http://www3.interscience.wiley.com/cgi-bin/bookhome/114034360>

1. **Principle investigator** Science & Technology Development Fund (STDF), Ministry of Scientific Research, Egypt. **project Nr: 30172 under the title** "Microbial biotransformation of vitamin D₃ into biologically active calcitriol". April 2022
2. **Coordinator of Ain Shams University: Ersmus Plus project:** Immune Modulation Diploma/IMcert - Capacity Building in the field of higher education – EAC/A02/2019 – Joint Projects." Ain Shams university as a partner University of **IMCert** International Project Under the Title "**Immune Modulation certificate for Postgraduate Students Enabled by Blended Learning**" which is an Erasmus+ project in field of capacity building for higher education, starting from 15th January 2021 and will be ended on 14th January 2024. Funded from the European Commission (**Reference No. 619017-EPP-1-2020-1-EG-EPPKA2-CBHE-JP**) with Al-Azhar University as the Main Coordinator and Sanmhour, Aswan and Cairo University as internal partners and Leipzig institute [ULEI] in Germany, Lorraine [UL] in France and National and Kapodistrian University Athens [NKUA] in Greece as external Euprean partners.
3. **Principle investigator of the International Project** between Faculty of Pharmacy, Ain Shams University, and W42 GmbH, a German corporation located at Otto-Hahn-Straße 15, im BMZ, D-44227 Dortmund, **Germany** (the "Partner"), represented by **Prof Dr. Ansgar Stratmann, Project title: "Production of Cephalosporin C (CPC) by the industrial strain Acremonium chrysogenumW42-I"**. (from December, 2018-December 2021).
4. **Principle investigator of the Project title:** "Bioprocess Engineering for the production od cephalosporin C by *Acremonium chrysogenumW42-I* and paromoycin By *Streptomyces rimosus* NRRL 2455" Two years Project 2019-2020 and 2020-2021. Funded by Ain Shams Postgraduate Stratgic Research Program 2019-2020, Ain Shams University
5. **Principle investigator of the Project title:** Molecular and physiological characterization of bacterial macrolide resistance mechanisms as an approach of infection control Two years Project 2016-2017 and 2017-2018. Funded by Ain Shams Envrinmental and Culture affiaris Research Program 2016-2017, Ain Shams University
6. **Principle investigator of the Project title:** Preparation of various pharmaceutical preparations containing Royal Jelly and Garlic extract for the control of skin infections caused by Methicillin-resistant *Staphylococcus aureus* (MRSA). Two years Project 2014-2015 and 2015-2016. Financed by Postgraduate affairs, Ain Shams University.
7. **Co- investigator of the Project title (2016).** Cloning and Expression of certain gene(s) putatively involved in acylhomoserine lactone quarum quenching activities as a new approach for infection control. Two years Project 2016-2017 and 2017-2018, Financed by Postgraduate affairs, Ain Shams University

Published nucleotide/amino acids sequences in the NCBI/EMBL GenBank database (accession codes) online on the internet database.
<http://www.ncbi.nlm.nih.gov>

(* =Corresponding/submitting author)

1. **Amr,R.M., Bishr,A.S., Aboshanab,K.M.* and Hassouna,N.A. (2025)** *Enterococcus faecalis* strain E5 hyaluronidase (hyl) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696612.1>
2. **Amr,R.M., Bishr,A.S., Aboshanab,K.M.* and Hassouna,N.A. (2025)** *Enterococcus faecium* strain E8 gelatinase (gel) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696611.1>
3. **Amr,R.M., Bishr,A.S., Aboshanab,K.M.* and Hassouna,N.A. (2025)** *Enterococcus faecalis* strain E1 gelatinase (gel) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696610.1>
4. **Amr,R.M., Bishr,A.S., Aboshanab,K.M.* and Hassouna,N.A. (2025)** *Enterococcus faecium* strain E3 hyaluronidase (hyl) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696609.1>
5. **Amr,R.M., Bishr,A.S., Aboshanab,K.M.* and Hassouna,N.A. (2025)** *Enterococcus faecium* strain E3 extracellular surface protein (esp) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696608.1>
6. **Amr,R.M., Bishr,A.S., Aboshanab,K.M.* and Hassouna,N.A. (2025)** *Enterococcus faecalis* strain E2 extracellular surface protein (esp) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696607.1>
7. **Amr,R.M., Bishr,A.S., Aboshanab,K.M. * and Hassouna,N.A. (2025)** *Enterococcus faecalis* strain E2 D-alanine-D-lactate ligase A (vanA) gene, partial cd. <https://www.ncbi.nlm.nih.gov/nuccore/PV696606.1>
8. **Amr,R.M., Bishr,A.S., Aboshanab,K.M. * and Hassouna,N.A. (2025)** *Enterococcus faecium* strain E3 D-alanine-D-lactate ligase A (vanA) gene, partial cds. <https://www.ncbi.nlm.nih.gov/nuccore/PV696605.1>
9. **Selim,H.M.R.M., Gomaa,F.A.M., Alshahrani,M.Y., Kamel,N.A., Aboshanab,K.M.* and Elsayed, K.M. (2025)** *Acinetobacter baumannii* strain CCASU-151 plasmid pAcbGIM3. <https://www.ncbi.nlm.nih.gov/nuccore/PP852886.1>
10. **Elshamy,A.A.*, Saleh,S.E., Aboshanab,K.M., Aboulwafa,M.M. and Hassouna,N.A. (2025).** *Klebsiella pneumoniae* strain 37.AK plasmid pNDMKP37, complete sequence. https://www.ncbi.nlm.nih.gov/nuccore/NZ_OK623716.1
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Date	location	Worshops/training	م
30 May-1 June 2023	وحدة التدريب و التاهيل جامعة عين شمس Ain Shams University	University administration and leadership program for job seekers and the position of dean of a college/institute	1
5 May 2022-2 June 2022	الأكاديمية الوطنية للتدريب (NAT) - مدينة 6 أكتوبر	cultural attaché, office manager, and he is among two candidates as cultural attachés for the state of Austria, after passing the seven stages of the competition and meeting with the Minister of Higher Education.	2
19 Jul-27 August 2020	الأكاديمية الوطنية للتدريب (NAT) - مدينة 6 أكتوبر	cultural attaché, office manager, and he is among two candidates as cultural attachés for the state of Austria, after passing the seven stages of the competition and meeting with the Minister of Higher Education.	3
12 May-6 August 2020	online بالتنسيق مع كلية الطب جامعة عين شمس (ا. سمر قاسم و اد. ريم سلام)	H3ABioNet دوره المعلوماتية الحيوية Introduction to Bioinformatics Course (attendance and coordinator) https://mailchi.mp/7bd0f18ed224/ibt_2020-classroom-host-applications	4
03-07 Nov 2019	فندق ماريوت - القاهرة	Sharing Responsible Science Curriculum workshop و Sandia National Laboratory CRDF (USA)	5
25 Feb. 2019	أكاديمية البحث العلمي - القاهرة	Web of Science Journal selection with collobortion Egyptian Knowlegd Bank (EKB)	6
9-13 Sep. 2018	Sandia National Labororatory (USA)or- Hilton Zamalek Residence Cairo	Chemical security Vulnerability Assessments and Risk mitigation for the Pharmaceutical Industry workshop	7
15-16 Juli 2018	QAAC (Quality assurance and accreditation center), Ain Shams University	Effective management	8
30 Jan-1 Feb 2018	الهيئة القومية لضمان جودة التعليم و الاعتماد - دار المدرعات - القاهرة	External review of colleges of higher education	9
28-29, Jan 2018	الهيئة القومية لضمان جودة التعليم و الاعتماد - دار المدرعات - القاهرة	Strategic planning for university colleges	10
21-23, Jan 2018	الهيئة القومية لضمان جودة التعليم و الاعتماد - دار المدرعات - القاهرة	Description of programs and courses and evaluation of outcomes	11

16-18, Jan 2018	الهيئة القومية لضمان جودة التعليم و الاعتماد - دار المدرعات - القاهرة	Self-evaluation of colleges and institutes of the university	12
18-19 December 2017	الهيئة القومية لضمان جودة التعليم و الاعتماد Golden Tulip Flamenco Hotel, El Zamalek, Cairo	Competency based NARS	13
21-22, Feb 2017	TDC (the training and development center) مركز التدريب و التطوير جامعة عين شمس	Strategic Planning	14
19-20, Feb 2017	TDC (the training and development center) مركز التدريب و التطوير جامعة عين شمس	Decision making and problem solving	15
14-15 Feb 2017	TDC (the training and development center) مركز التدريب و التطوير جامعة عين شمس	University administration	15
13-16 May 2016	Faculty of medicine, Al Azhar University (Girls)	Use of tissue culture in diagnosis of hepatitis viruses	17
May. 2016	QAAC (Quality assurance and accreditation center), Ain Shams University	Documentation and file management in ensuring quality in educational institutions)	18
Dec. 2015	QAAC (Quality assurance and accreditation center), Ain Shams University	Examination and evaluation systems	19
Dec. 2015	QAAC (Quality assurance and accreditation center), Ain Shams University	Self-study update	20
Sep. 2014	Faculty of Science, Al- Azhar University	Molecular Biology and Tissue culture	21
Mars 2014	QAAC, Ain Shams University	Updating the strategic and executive plan for the colleges	22
Aug. 2013	Ain Shams University	Professional etiquette and behavior ة	23
Aug. 2010	QAAC, Ain Shams University	Competitive Research Projects	24
Nov. 2009	QAAC, Ain Shams University	Quality Management System, (ISO 9001/2008) IWA2	25
Jul. 2009	QAAC, Ain Shams University	Academic Reference Standards	26

Jul. 2009	QAAC, Ain Shams University	Research Team Management	27
Sep. 2008	QAAC, Ain Shams University	Time and Meeting Management	28
Sep. 2008	QAAC, Ain Shams University	Ethics of Scientific Research	29
June 2007	QAAC, Ain Shams University	International Publication	30
Mar. 2007	Faculty of Veterinary Medicine Biotechnology center for services and Researches	Application of Modern Immuno-Diagnostic techniques for Diagnosis Infectious diseases by ELISA	31
April 2005	Chemical Microbiology deptment, Bergishe Universität Wuppertal, Germany	Cosmid Library	32
Oct. 2004	Chemical Microbiology deptment, Bergishe Universität Wuppertal, Germany	Southern Hybridization	33
Dec. 2003	Chemical Microbiology deptment, Bergishe Universität Wuppertal, Germany	Molecular Cloning and gene expression	34

-المشاركة في عضوية هيئات دولية وفي تحكيم أبحاث والتمثيل في منظمات وجمعيات محلية وإقليمية ودولية

Scientific Membership		
1	American Society of Microbiology (ASM) at the Contributing Membership level, a global community	membership number is: 200179329
2	Founder of the Internation Culture Collections Ain Shams University (CCASU) http://www.wfcc.info/ccinfo/collection/col_by_country/e/20/ on World Data Center For Microorganisms (WDCM) http://www.wfcc.info/ccinfo/detail	Registration number 1186 رقم ايداع دولي 1186
3	Directory Open Access Journals (DOAJ) https://doaj.org/	membership number (Publisher) is: Hi23568380
4	Reviewer of Science, Technology, Innovation, Fundung Authority (STIFA)	Member ID 19542
5	Egyption Socy of Biotechnology ٤٢٠٦ لسنة بالجمعية المصرية للتكنولوجيا الحيوية المشهورة برقم ١٩٩٥	عضوا
6	Egyptian network for Research Ethics Committee (ENREC)	عضوا
7	Membership of Egyptian Pharmacist Syndicate, Egypt	عضوا

تحكيم رسائل/مشاريع/ ابحاث علمية	
1	Peer Reviewer of the following journals: Infection and Drug resistnce, GENE, PLOS ONE. AMB express, Applied Microbiology and Immunology, Scientific reports, Journal of ophthalmology, Plos Pathogens, Applied Biochemistry and Biotechnology, BMC microbiology, Biomedical research international, Biomedical Research International, BMC biochemistry, Microbes and infectious Disaeses, Journal of Bioinformatics and Sequence analysis, Journal of microbiology and antimicrobials, Agriculture Science research journal, African Journal of Biochemistry, African journal of Microbiology Research, Future Journal of Pharmaceutical science, Bulletin faculty of pharmacy Cairo University, International Research journal of medicine and biomedical sciences,. University of Mauritius Research Journal, Archives of pharmaceutical sciences Ain Shams university, Journal of paediatric infectious diseases, Al Azhar journal of Microbiology, Clinical epidemiology, Microbiology
2	Project Evaluation: STDF project (ID 33391) at 30 October 2018 and STDF proposal ID at 22 December 2018, ID 44025 at 16.09.2020
3	External Examiner for many Master and PhD thesis from faculty of pharmacy of Cairo University, Suez Canal University, Al Azhar University, and Tanta University - تحكيم رساله دكتوراه من دولة ماليزيا <u>THESIS ONLINE SYSTEM; UPM University, Malaysia</u> (Sekolah Pengajian Siswazah (School of Graduates
ح	External Examiner for oral examinations of various faculties of pharmacy, of different universities such as: Cairo, Alexandria, Al-Azhar (Boys & Girls), El-Mansoura, Tanta, Helwan, Sina, Ahram Canadian (ACU), Miser International (MIU), EL-Nahada University, Misr University for Science and Arts (MSA), Delta University, FUE, RUE.
5	Award evaluation : تحكيم جوائز: تحكيم جوائز جامعة القاهرة التشجيعية للعام الجامعى 2018/2017 و العام الجامعى 2019/2018
6	Patent evaluations: الوارده اليانا من اكااديمية البحث العلمى والتكنولوجيا - مكتب براءة الإختراع بوزارة التعليم العالى و البحث العلمى
	براءة الإختراع رقم 147 لسنة 2003 بتاريخ 15 سبتمبر 2019
	براءة الاختراع رقم 215 لسنة 2009 PCT بتاريخ 10 فبراير 2020
	براءة الاختراع رقم 1233 لسنة 2007 PCT بتاريخ 10 فبراير 2020

Names of three referees

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1	Professor. Mohamed Diaa Zein Elabdeen (PhD)	Professor, President of Ain Sham University, Cairo, Egypt	002-01006030255	President@asu.edu.eg
2	Professor Abdelnasser Badawy Singab	Professor and Head of National Pharmacy Sektor Ministry of Higher Education in Egypt. Former Vice President for postgraduate and Scientific Research, Ain Shams University, Cairo, Egypt	002-01005036231	vpr.nassersingab@pharma.asu.edu.eg
3	DATO' PROFESOR DR ABU BAKAR ABDUL MAJEED	Dean, Faculty of Pharmacy, Universiti Teknologi MARA (UiTM), Selangor, Malaysia	060-192010334	abubakar@uitm.edu.my