

Curriculum vitae

Name: Alaa Abouelfetouh Youssef Abouelfetouh

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alaaabouelfetouh@yahoo.com

PERSONAL INFORMATION

Gender: Female

Nationality: Egyptian

Date of birth: 12/24/1980

Place of Birth: Alexandria

EDUCATION

- Faculty of pharmacy, Alexandria University, Egypt (class 2003)
- La mere de Dieu College, Alexandria, Egypt (class 1998)

SUMMARY OF QUALIFICATIONS

- Fellow in Responsible Conduct of Research from the Fogarty International Center JORDAN Program (Graduation date October 2018)
- Ph.D. in pharmaceutical microbiology (2010)
- Master degree in pharmaceutical microbiology (2007)
- Bachelor of pharmaceutical sciences (June 2003) with distinction honour (one of the 3 top students)
- Alliance Francaise mention tres bien (1997)
- Certificat de Francais du secretariat de la chambre de commerce et d'industrie de Paris (1996)

PROFESSIONAL EXPERIENCE

- Member of the "Top Listed Interviews' Experts Committee" to evaluate project proposals in Medical Sciences for the Joint ASRT/BA Research Grants Program (2018-2019)
- Member of the Editorial Board of "Antimicrobial resistance and infection control" (March 2019 to date)
- Reviewer of proposals for the Joint ASRT/BA Research Grants Program (2018-2019)
- Reviewer in a number of reputable journals, including Journal of Medical Microbiology, Frontiers in Microbiology, Journal of Infection in

Developing countries, Infectious disorders-Drugs targets, Microbial Drug Resistance, etc.

- Visiting researcher at the Helmholtz-Institute for Pharmaceutical Research Saarland (September – October 2018)
- Visiting academic at the University of East Anglia (August 2017 to February 2018)
- Head of student report preparation committee for the clinical pharmacy programme at the Faculty of Pharmacy, Alexandria University (academic years: 2016-2017, 2018-2019, 2019-2020)
- Associate Professor of Microbiology, faculty of pharmacy, Alexandria University (July 2016 to date)
- Faculty of Pharmacy IT Unit manager (December 2015 to August 2017)
- Member of the Editorial Board of “Infectious disorders-Drugs targets” (November 2014 to date)
- Lecturer in pharmaceutical microbiology, faculty of pharmacy, Alexandria University (July 2014 – July 2016)
- Postdoctoral fellow, Medical College of Wisconsin (July 2013 – June 2014)
- Reviewer of applications for the Egyptian Fulbright Student (AY 2013-2014 and 2014-2015) and Egyptian Fulbright Missions Programs (AY 2013-2014)
- Postdoctoral fellow, Loyola University Chicago (September 2012 – June 2013)
- Postdoctoral fellow, faculty of pharmacy, Alexandria University, Alexandria, Egypt (September 2010 to August 2012)
- Lecturer in pharmaceutical microbiology, faculty of pharmacy, Alexandria University (September 2010 to August 2012)
- Assistant lecturer in pharmaceutical microbiology, faculty of pharmacy, Alexandria University (February 2007 – August 2010)
- Demonstrator in microbiology, faculty of pharmacy, Alexandria University (December 2003 - January 2007)

AWARDS, SCHOLARSHIPS AND FELLOWSHIPS

- International Association of Bioethics (IAB) bursary to attend the 15th World Congress of Bioethics (WCB) (19-21 June 2020).
- USAID Graduate Scholarships for Professionals Activity to conduct training at the lab of Prof. Dr. Alan Wolfe, Loyola University Chicago (November 2019-March 2020)

- Newton Fund Researcher Links travel grant to visit the lab of Dr. Benjamin Evans at the University of East Anglia (August 2017-February 2018)
- Sfam President's fund grant to attend the 17th International Congress of Infectious Diseases in Hyderabad, India.
- Fulbright scholarship to conduct postdoctoral research at Loyola University Chicago for 9 months (September 2012- May 2013)
- BioVision.Nxt fellow, Lyon, France, 2011

TAUGHT COURSES

- Pharmaceutical Microbiology (undergraduate)
- Antimicrobial chemotherapeutic agents (undergraduate)
- Medical bacteriology (undergraduate)
- Immunology (undergraduate)
- Advanced general microbiology (postgraduate)
- Antimicrobial chemotherapeutic agents (postgraduate)
- Scientific writing (postgraduate)

PUBLICATIONS, TALKS AND POSTERS

1. Alaa Abouelfetouh, Jennifer Mattock, Dann Turner, Erica LI and Benjamin Evans: Diversity of carbapenem-resistant *Acinetobacter baumannii* and bacteriophage-mediated spread of the Oxa23 carbapenemase. bioRxiv 2020.09.08.287599; doi: <https://doi.org/10.1101/2020.09.08.287599>
2. Lina M. Maarouf, Hoda M. Omar, Mostafa A. El-Nakeeb and Alaa A. Abouelfetouh: Prevalence and mechanisms of linezolid resistance among staphylococcal clinical isolates from Egypt (In press).
3. Lina Maarouf, Benjamin Evans and Alaa Abouelfetouh (2020): Antibiotic use made unethical? Results of an antibiotic use survey from Alexandria, Egypt. Poster presentation at the 15th World Congress of Bioethics (WCB), 19-21 June 2020, virtual and oral presentation at Jordan RCR webinar series, 7 July 2020.
4. Alaa Abouelfetouh, Aisha Torky and Elsayed Aboulmagd (2020): Role of plasmid carrying *bla*_{NDM} in mediating antibiotic resistance among *Acinetobacter baumannii* clinical isolates from Egypt. 3 Biotech. 2020 Apr;10(4):170. doi: 10.1007/s13205-020-2157-y. Epub 2020 Mar 16.
5. Alaa Abouelfetouh, Aisha Torky and Elsayed Aboulmagd (2019): Phenotypic and genotypic characterization of carbapenem resistant *Acinetobacter baumannii* isolates from Egypt. Antimicrobial resistance and infection control 8, 185 doi:10.1186/s13756-019-0611-6.
6. Mustafa A. Alseqely, Alaa A. Abouelfetouh, Amal M. Khalil and Moustafa A. El-Nakeeb: Do we need to raise the bar to properly identify methicillin resistant *Staphylococcus aureus*? Poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.
7. Lina M. Maarouf, Alaa A. Abouelfetouh, Hoda M. Omar, Mostafa A. El-Nakeeb: Prevalence and Mechanisms of Linezolid resistance among Egyptian

Staphylococcal clinical isolates. Poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

8. Aya M. Elmorsy, Lina M. Maarouf, Fatema Elzahraa A. Hamido, Yasmin O. Mahmoud, Hany I. Kenawy and Alaa A. Abouelfetouh: Yes, we can. A local antibiotic policy changing prescription pattern in outpatient clinics. Poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

9. Abdelrahman S. Mohamed¹, Katrin S. Girgis, Hussien F. Ibrahim, Ahmed A. Sobhy, Marian G. Nabil, Fatma S. SaadAllah, Rana Y. Ali, Ahmed S. Abdelaal, Malak S. Moussa, Mahmoud A. Hamdy, Mariam O. Elsayed, Nada Y. Abdel-Ghany, Salma M. Mokhtar, Nadine A. Elsayed, Mahinour W. Shawqy, Shaza M. Abdelrahman and Alaa A. Abouelfetouh: Assessment of microbiological quality of household drinking water in Alexandria, Egypt. Student poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

10. Lina M. Maarouf, Abdelrahman Y. Shaban, Abdullah A. Mohammed, Adham A. Elshimi, Ahmed T. Elnaggar, Areeg A. Khalifa, Aya H. Mohamed, Dina M. Raafat, Eman A. Taylon, Esraa R. ElSayed, Fatima A. Fadl, Ghaydaa H. Hamed, Hend A. Ibrahim, Khulood H. Tarabay, Maiar T. Nomeir, Marize H. Magdy, Mohamed A. Abdelaziz, Mohand A. Hassan, Nada H. Hamed, Nour G. Elgebeily, Nouran N. Mawad, Reem R. Mahmoud, Waad H. Abohashima, Yehia A. Fadel, Youssef A. Elnahas, Zeina S. El Sayed, Benjamin A. Evans, Alaa A. Abouelfetouh: Knowledge is power! Raising public awareness to fight antimicrobial resistance. Student poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

11. Aisha H. Elsayy, Moustafa A. Elseqely, Merna M. aboKhatwa, Shady A. Elkorany, Omar A. Elkhatab, Alaa A. Saied, Hend H. Asar, Philopater V. Kamel, Salma M. Zaghloul, Youssef A. Abdelghaffar, Yasmine M. Hassan, Ola T. Mahmoud, Mohammed H. Mohammed, Rowan W. Ahmed, Yasmine M. Abdelraouf, Nourhan A. Khamis, Moemen M. Abdelfattah, Emada G. Kotp, Alaa A. Abouelfetouh: Staphylococcal nasal carriage among pharmacy students in Alexandria. Student poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

12. Aisha H. Elsayy, Fayrouz A. Mahmoud, Amira E. Elsayed, Rawan G. Kassem, Mary V. Boghdady, Nada Y. Salem, Nayera A. Elsenoussy, Sarah A. Mohammed, Amr B. Abdelatif, Nayera H. Aboelmaged, Hania M. Alazouny, Ereny T. Thabet, Salma K. Elmasry, Nadeen H. Hussein, Fatma H. Ezzat, Alaa R. Abdelaziz and Alaa A. Abouelfetouh: Antibiotic consumption in the community: is it veering from the straight and narrow? Student poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

13. Hadeer H. Bassiouny, Asmaa Salah Khalifa, Marwa Ahmad Mahmoud, Mennat-Allah T. Labib, Nada M. Kamel, Youssef A. Abdelsamad, Nouran M. Abomadawy, Ehdaa A. Hussien, Nouran A. ELkordy, Marwa M. Dief, Mariam M. Labib, Mennat-Allah A. Hegazy, Lara M. Bashir, Shery M. Agaiby, Yasmine Y. Mohamed, Menna-Allah E. Zayed, Mariam A. Mahfouz, Madonna N. samir and Alaa Abouelfetouh: Adherence to and effectiveness of local antimicrobial

treatment guidelines in pneumonia patients. Student poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

14. Hadeer Hamdy, Asmaa Salah Khalifa, Marwa Ahmad Mahmoud, Alzahraa Hosam, Amira Saleh, Dalia Gaber, Esra'a Metwally, Hend Saady, Maria Amgad, Nada Moustafa, Rania Reda, Ranim Hassan, Rowan Emad, Sara Khairy, Sara Nabil, Youssif El Shalawy, Ziad Dowedar and Alaa Abouelfetouh: Intra-Abdominal Sepsis Management: Are We Doing It Right? Student poster presentation at the International Conference on Pharmaceutical and Healthcare Sciences, 6-7 November 2019, Alexandria, Egypt, 2019.

15. Alaa Abouelfetouh: Ethics education improves understanding of conflict of interest among Egyptian researchers. Oral presentation at the 4th International Conference on Ethics, Jordan University of Science and Technology, 5 November 2019, Irbid, Jordan.

16. Mustafa Alseqely, Alaa Abouelfetouh, Amal Khalil, Mae Newton-Foot, Moustafa El-Nakeeb and Andrew Whitelaw: Moxifloxacin resistance among methicillin resistant *Staphylococcus aureus* isolates belonging to different molecular types and obtained from Alexandria hospitals. (In preparation).

17. Nada Ahmed, Mohamed Nounou, Alaa Abouelfetouh, Amal El-Kamel (2018): Over-the-Counter Herbal Weight Loss Supplements in Egypt: Label Claim, Microbiological and Pharmaceutical Quality, and Safety Assessments. Med Princ Pract. doi: 10.1159/000495986. [Epub ahead of print]

18. Elsayed Aboulmagd, Mervat A. Kassem and Alaa Abouelfetouh: Global Landscape in Microbial Resistance. In the ebook "Evolving 21st Century Challenges in Infectious Diseases". Frontiers in anti-infective agents. (In review).

19. Alaa Abouelfetouh: Some Dos and Don'ts in conflicts of interest and commitment. Oral presentation at the "Research Ethics Essentials" Workshop, Bibliotheca Alexandrina, 18-20 December 2018, Alexandria, Egypt.

20. Mustafa Alseqely, Mae Newton-Foot, Alaa Abouelfetouh, Amal Khalil, Moustafa El-Nakeeb and Andrew Whitelaw: Know your enemy! Fluoroquinolone resistance in methicillin resistant *Staphylococcus aureus* isolates from Alexandria, Egypt. Poster presentation at the 18th International Symposium on Staphylococci and Staphylococcal Infections, 23-26 August 2018, Copenhagen, Denmark.

21. Sarah K Amer, Ramez N Bedwani, Gihan M Shehata and Alaa Abouelfetouh (2018): Improving Physicians' Adherence to Guidelines Regarding Antibiotics Use in Acute Upper Respiratory Tract Infections in Adult Patients Attending Ministry of Health Hospitals in Alexandria, Egypt: An Interventional Study. Journal of Microbial & Biochemical Technology. 10: 16-19, DOI: 10.4172/1948-5948.1000389.

22. Alaa Abouelfetouh and Benjamin Evans: Genetic diversity and antibiotic resistance among *Acinetobacter baumannii* isolates from Egypt. Oral presentation at Addenbrooke's Hospital, Cambridge University, 1 February 2018 and Sanger Institute, 2 February 2018, Cambridge, UK.

23. Noura Khamis and Alaa Abouelfetouh. Power of the public: changing common conceptions about antibiotic use in Alexandria, Egypt. Poster presentation at the 3rd Antimicrobial Resistance Conference, Antimicrobial Resistance: Meeting the Challenge, 23-24 November 2017, London, UK.
24. Alaa Abouelfetouh, Mustafa Alseqely, Amal Khalil, Moustafa El-Nakeeb and Andrew Whitelaw: Genotyping of methicillin resistant *Staphylococcus aureus* isolates from Alexandria, Egypt. Oral presentation at the Staphrica/StaphNetAfrica kick-off meeting, 15-16 August 2017, Legon, Accra, Ghana.
25. Alaa Abouelfetouh, Marwa Naguib, Mustafa Alseqely, Mervat Kassem, Amal Khalil and Moustafa El-Nakeeb: Tales of antibiotic resistance from Alexandria, Egypt. Oral presentation at the JUST International Pharmacy Conference: The 4th Conference of the Association of Faculties of Pharmacy at Jordanian Universities 2-4 August 2017, Irbid, Jordan.
26. Alaa Abouelfetouh, Marwa Naguib, Mervat Kassem and Moustafa El-Nakeeb: Treating methicillin resistant staphylococcal infections in Alexandria, Egypt with Fusidic Acid: Where we Stand and How to Go Far. Oral presentation at the Women in Science Without Borders, 21-23 March 2017, Cairo, Egypt.
27. Alaa Abouelfetouh (2017): The status of methicillin resistance among Egyptian *Staphylococcus aureus* isolates, an overview. *Infect Disord Drug Targets*. 17(1):67-69.
28. Alaa Abouelfetouh, Marwa Naguib, Mustafa Al-Seqely, Mervat Kassem, Sarah Magdy, Amal Khalil and Moustafa El-Nakeeb: Are coagulase negative staphylococci “sleeper cells” for antibiotic resistance? Results from a five year study on Egyptian isolates. Poster presentation at the 17th International Symposium on Staphylococci and Staphylococcal Infections, 30 August – 2 September 2016, Seoul, Korea.
29. M. Naguib, A. Abouelfetouh, M. Kassem, S. Magdy and M. El-Nakeeb: Is Moxifloxacin a Secret Weapon or Simply a Trump Card to Treat Methicillin Resistant Staphylococcal Infections? A Study from Egypt. Poster presentation at the 17th International Congress on Infectious Diseases, 2-5 March 2016, Hyderabad, India.
30. Alaa Abouelfetouh, Mervat Kassem, Marwa Naguib, and Moustafa El-Nakeeb (2017): Investigation and treatment of fusidic acid resistance among methicillin resistant staphylococcal isolates from Egypt. *Microbial Drug Resistance*. 23(1): 8-17.
31. Alaa Y. Abouelfetouh, Noha Nafee, Nihal K. Moussa (2016): The degree of virulence does not necessarily affect MRSA biofilm strength and response to photodynamic therapy. *Microbiol Pathogenesis*. 91:54-60.
32. Alaa Abouelfetouh: Antimicrobial resistance: have we reached a post-antibiotic era? Oral presentation at the Pharmaceutical Biotechnology Conference "The Revolution of Sciences", 24-25 December 2014, Alexandria, Egypt.

33. Marwa Naguib, Alaa Abouelfetouh, Mervat Kassem and Moustafa El-Nakeeb. It is a no-brainer: never use fusidic acid alone! A study from Alexandria, Egypt. Poster presentation at the International Meeting on Emerging Diseases and Surveillance (IMED), 31 October – 3 November 2014, Vienna, Austria.
34. Alaa A. Y. Abouelfetouh and Christopher J. Kristich: Identifying "Trojan horse" positions within tetM to neutralize tetracycline resistance. Oral presentation at the 16th International Congress on Infectious Diseases, 2-5 April 2014, Cape Town, South Africa.
35. Alaa Abouelfetouh, Misty L. Kuhn, Linda I. Hu, Michael Scholle, Dylan J. Sorensen, Alexandria K. Sahu, Milan Mrksich, Wayne F. Anderson, Bradford W. Gibson, Birgit Schilling, and Alan J. Wolfe (2015): The E. coli sirtuin CobB shows no preference for enzymatic and non-enzymatic lysine acetylation substrate sites. *MicrobiologyOpen* 4(1):66-83.
36. David Christensen, Alaa Abouelfetouh and Alan J. Wolfe: Acetyl Phosphate Regulates Bacterial Migration Independent of and in Addition to the Rcs Phosphorelay. *Molecular Genetics of Bacteria and Phages Meeting*, 6 - 10 August 2013, Madison, WI, USA.
37. Noha Nafee, Alaa Youssef, Hanan El-Gowelli, Heba Asem, Ahmed Abd El-Fattah, Sherif Kandil (2013): Antibiotic-free nanotherapeutics: Hypericin nanoparticles thereof for improved in vitro and in vivo antimicrobial photodynamic therapy and wound healing. *International Journal of Pharmaceutics* 454: 249– 258.
38. Noha Nafee, Alaa Youssef, Heba Asem, Ahmed Abd El-Fattah, Labiba El-Khordagui and Sherif Kandil: Light-activated Antibacterial Activity of Nanoencapsulated Hypericin Against Biofilm and Planktonic Cells of Methicillin-resistant *Staphylococcus aureus* (MRSA) Clinical Isolates. Poster N°904, Session 2, 40th Annual Meeting & Exposition of the Controlled Release Society, 21-24 July 2013, Hawaii, USA.
39. Noha Nafee, Hanan Gowelli, Alaa Youssef, Heba Asem, Labiba El-Khordagui: Nanoparticle-mediated delivery of hypericin to infected wounds in rats: impact on photodynamic antimicrobial activity and wound healing. Oral presentation in the NanoPDT Conference: Applications of Nanodrugs in Photodynamic Therapy, 11-12 April 2013, Gothenburg, Sweden.
40. A. A. Y. Abouelfetouh, N. K. Moussa (2013): Prevalence of Some Virulence Genes among Biofilm Forming Methicillin Resistant *Staphylococcus aureus* Isolates Obtained from Patients in Egyptian Hospitals. ASM general meeting, Denver, Colorado, USA, 18-21 May 2013.
41. Abouelfetouh Alaa A. Y., Zemaitaitis Bozena and Wolfe Alan J. (2013): The flip of a coin: acetylation or phosphorylation by acetyl phosphate in biofilms. BLAST XII meeting, Tucson, Arizona, USA, 20-25 January 2013.
42. Marwa Naguib, Alaa Abouelfetouh, Mervat Kassem and Moustafa El-Nakeeb (2012): Is fusidic acid a valid alternative for topical treatment of multi-drug resistant *Staphylococcal* infections? Results from major hospitals in Alexandria, Egypt. The Sfam summer meeting: resistance, adaptation and bioremediation, Edinburgh, United Kingdom, 2-5 July 2012.

43. A. Y. Abouelfetouh and N. K. Moussa (2012): Enhancement of Antimicrobial Activity of Antibiotics Belonging to Different Classes after Combination with Garlic. Asian Journal of Plant Sciences. 11(3): 148-152.
44. Nihal K. Moussa and Alaa A. Y. Abouelfetouh (2011): Will Garlic Improve Antibiotic Effectiveness In Biofilm Treatment? Federation of infection society conference, Manchester, United Kingdom, 16-18 November 2011.
45. Abouelfetouh A. Y., El-Nakeeb M., Abou-Shleib H., El-Guink N. and Khalil A. (2011): Comparative study of doxycycline and azithromycin influence on biofilm cells of different microorganisms. The 4th Conference of the Eastern Mediterranean regional network for infection control: Infection preventionists: marathoning towards zero, Alexandria, Egypt, 17-20 October 2011.
46. Nelly M. Mohamed and Alaa A. Youssef (2011). In vitro activity of tigecycline and comparators against Gram negative bacteria isolated from a tertiary hospital in Alexandria, Egypt. Microbial Drug Resistance. 17(4): 489-495.
47. Alaa A. Youssef, Mostafa El-Nakeeb, Hamida Abou-Shleib, Nadia El-Guink and Amal Khalil (2010). Response of some Gram-negative and Gram-positive biofilm cells to fluoroquinolone challenges. Bacterial cell biology conference, Puerto Morelos, Mexico, 16-19 November 2010.
48. Mohammed A. Fawzi, Hamida M. Abou-Shleib, Elsayed Aboulmagd and Alaa A. Y. Aboul-Fetouh. (2007). In vitro study on some factors influencing the antimicrobial activity of Pemulen®. Alex. J. Pharm. Sci. 21(2): 117-123.

PROFESSIONAL MEMBERSHIPS

- Member of the International Association of Bioethics (2020 to date)
- SciVal Champion at Alexandria University (2019 to date)
- Member of the Scientific Committee of the International Conference on Pharmaceutical and Healthcare Sciences (PHS 2019).
- Member of “Alexandria University ranking” team (2018 to date)
- Member of the International Relations Affairs Office at the Faculty of Pharmacy, Alexandria University (2018 to date).
- Member of the student and education committee at the Faculty of Pharmacy, Alexandria university (2018 to date)
- Member of the International Society for infectious diseases (2014- to date)
- Member of the American Society of Microbiology (ASM) (2013- 2016)
- Member of the society for applied microbiology (Sfam) (2012- to date)
- Member of the Egyptian pharmacists syndicate
- Staff member of the department of pharmaceutical microbiology - faculty of pharmacy Alexandria university

- Member of the executive committee of "Continuous Improvement and Qualifying for Accreditation Project" (CIQAP) - faculty of pharmacy Alexandria university
- Member of the executive committee of "the Project of Enhancement of Students Assessment Systems"- faculty of pharmacy Alexandria university
- Member of crisis management committee- faculty of pharmacy Alexandria university (2009-2011)
- Member of the committee for community service and environment development- faculty of pharmacy Alexandria university (2010-2011, 2015 to date)
- Member of the committee for learning-challenged students- faculty of pharmacy Alexandria university (2010-2011)
- Member of the summer training committee- faculty of pharmacy Alexandria university (2008- 2012)
- Member of the academic advising committee for clinical pharmacy students (2010- 2012) - faculty of pharmacy Alexandria university
- Member of the "Faculty website" team - faculty of pharmacy Alexandria university (2010-2011, 2014- 2017)

TRAINING COURSES

PCR Technology (2005)
 Genetic Engineering (2005)
 Teaching Skills (2006)
 Thinking Skills (2006)
 Research Methodology (2006)
 Communication Skills (2006)
 Molecular Immunology: Theory, Practice and Applications (2006)
 Principles of Research and Proposal Writing (2007)
 Data Analysis and Scientific Writing (2007)
 Use of Technology in Teaching (2007)
 New teaching Methods (2007)
 Effective Presentation Skills (2007)
 Profession Ethics (2007)
 Decision Making and Problem Solving (2007)
 Development of Administrative Skills (2007)
 Crisis Management in Higher Education Institutions (2010)
 Patient Counseling in Pharmacy Practice (2010)
 Student assessment (2009-2010)
 Conference organization (2010)
 Training of trainers (TOT) (2011)
 Quorum sensing in plant associated bacteria (2011)
 International publishing (2011)
 University legal and financial aspects (2012)
 Research team management (2012)
 Scientific writing (2013)
 E-learning (2014)
 Teaching and learning strategies (2016)
 Preparation of project proposals (2016)
 Citation managers (2016)

Introduction to research ethics (2017)
 Responsible conduct of research (CITI basic course) (2017)
 Epidemiology methods and ethics (2017)
 Research ethics (2018)
 Clinical Trials/Studies and Genetics Research Methods and Ethics (2019)
 SciVal Champions Program: Session 1 (2019)
 Bacterial genomes: comparative genomics using Artemis Comparison Tool (ACT) (2019)
 Foundations of Teaching Excellence in Pharmacy Education (2020)
 Online learning virtual workshop series (2020):
 - Using Moodle (ToT)
 - Using Microsoft forms in education
 - Using Google forms in education
 - Project based and research based education
 - Open education resources
 - G suite for education
 - Mind mapping
 - Creation of education videos
 - Online proctoring
 - Ethics and intellectual property rights
 - Using Microsoft Teams in education
 - e-cheating and e-authentication
 - Interactive in class and online learning activities
 - Gamification in education
 - Multimedia creation
 - Interactive PowerPoint presentations for teachers and students
 - Electronic course portfolio
 - Learning through art
 - Creating interactive learning content
 - Mobile learning

CONFERENCES AND MEETINGS

Bio Vision, Alexandria, Egypt, 2006
 Education without borders, Abu Dhabi, UAE, 2007
 The 2nd EMRNIC congress and the 16th ESIC conference, Alexandria, Egypt, 2007
 Bio Vision, Alexandria, Egypt, 2008
 The 4th International Conference of the High Institute of Public Health "Patient Safety", Alexandria, Egypt, 2009
 Bio Vision, Alexandria, Egypt, 2010
 Bacterial cell biology conference, Puerto Morelos, Mexico, 2010
 Bio Vision, Lyon, France, 2011
 The 4th Conference of the Eastern Mediterranean regional network for infection control, Alexandria, Egypt 2011
 Bio Vision, Alexandria, Egypt, 2012
 The Sfam summer meeting: resistance, adaptation and bioremediation, Edinburgh, UK, 2012
 BLAST XII meeting, Tucson, Arizona, USA, 2013
 ASM general meeting, Denver, Colorado, USA, 2013
 The 16th International Congress on Infectious Diseases, Cape Town, South Africa, 2014.
 The 5th Conference of the Eastern Mediterranean Regional Network for Infection Control, Alexandria, Egypt 2014.
 The International Meeting on Emerging Diseases and Surveillance (IMED), Vienna, Austria, 2014.

Pharmaceutical Biotechnology Conference "The Revolution of Sciences", Alexandria, Egypt, 2014.

The 17th International Congress on Infectious Diseases, Hyderabad, India, 2016.

Bio Vision, Alexandria, Egypt, 2016.

The 17th International Symposium on Staphylococci and Staphylococcal Infections (ISSSI), Seoul, Korea, 2016

Women in Science Without Borders, Cairo, Egypt, 2017

JUST International Pharmacy Conference: The 4th Conference of the Association of Faculties of Pharmacy at Jordanian Universities, Irbid, Jordan, 2017

The 2nd International Conference on Ethics in Clinical Trials in Jordan, Irbid, Jordan, 2017

Staphrica/StaphNetAfrica kick-off meeting, Legon, Accra, Ghana, 2017

The sfam 3rd Antimicrobial Resistance Conference, Antimicrobial Resistance: Meeting the Challenge, London, UK, 2017.

Bio Vision, Alexandria, Egypt, 2018.

The 18th International Symposium on Staphylococci and Staphylococcal Infections (ISSSI), Copenhagen, Denmark, 2018

Follow up conference "German African Cooperation Projects in Infectiology", Entebbe, Uganda, 2018

ReAct Africa AMR Workshop: Setting Antimicrobial Resistance Research Priorities in Africa, Nairobi, Kenya, 2018

Research Ethics Essentials Workshop, Bibliotheca Alexandrina, Alexandria, Egypt, 2018

The 4th International Conference on Ethics, Irbid, Jordan, 2019

The International Conference on Pharmaceutical and Healthcare Sciences, Alexandria, Egypt, 2019

The 15th World Congress of Bioethics, virtual 2020

Jordan RCR webinar series, 2020

Staphylococci in Africa – Resistance and Epidemiology (ShARE) webinar series, 2020

Qualitative Research Methods Symposium; Inclusive Involvement in Qualitative Research Methods: Opportunities and Challenges, online event, 2020

RESEARCH INTERESTS

- Genomic analysis of resistant clinical pathogens to understand the mechanisms driving antimicrobial resistance and best control measures.
 - The factors affecting biofilm formation in addition to ways of preventing biofilm formation and eradicating existing ones using antimicrobial agents.
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RESEARCH PROJECTS

- Monitoring the influence of protein acetylation on biofilm formation in *E. coli* (The Binational Fulbright Commission, 2012-2013).
 - Studies on Moxifloxacin Resistance Profiles of *Staphylococcus aureus* in Alexandria Hospitals (STDF 15135, 2015 - 2016).
 - Molecular epidemiology of *S. aureus* in Northern, central and southern Africa (Egyptian Ministry of Scientific Research 26-3-14, 2015 – 2017).
 - Inhalable nano-embedded microparticles for the pulmonary delivery of novel anti-infectives (ALEXANDER von HUMBOLDT FOUNDATION Research Group Linkage Programm, 2017-2019).
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- Microbiological study of Linezolid activity against Gram Positive Cocci (Academic Thesis Research Fund at the Faculty of Pharmacy, Alexandria University, 2017-2019).
 - Molecular epidemiology of carbapenem resistant *Acinetobacter baumannii* isolates from Alexandria, Egypt (Newton-Mosharafa Researcher links Travel Grant, 2017-2018).
 - Reversing the tide on antimicrobial resistance: a German-Egyptian approach. (Study visit to 3 German universities for a group of Alexandria University students sponsored by DAAD, 2/2018).
 - Molecular characterization and clonal relatedness of carbapenem resistant *Acinetobacter baumannii* isolated from University hospitals in Alexandria (STDF, 2018-2019).
 - Molecular epidemiology and antimicrobial resistance mechanisms in staphylococci from various geographic regions in Africa (DFG Grant ZI 665/3-1, 2018-2021).
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POSTGRADUATE STUDENTS

- Master's
 - Marwa Naguib (defense date: 2014)
 - Sarah Amer (defense date: 2017)
 - Aisha Torky (defense date: 2018)
 - Lina Maarouf (defense date: 2019)
 - Hadeer Hamdy
 - Marwa Reda
 - Aisha Hamdy
 - Nehal El Shafei
- PhD
 - Mustafa Alseqely (defense date: 2019)

COMMUNITY SERVICE

- Trainer at the "Pathways to higher education" project (a project giving workshops to undergraduate students to provide them with the essential soft skills) (Summer 2011 and Winter 2012)
- Organizing and participating in "Introduction to antimicrobial stewardship to pharmacists" workshop (Summer 2016)
- Supervising "Towards a safer use of antibiotics" campaign to the general public in Alexandria, Egypt (Fall 2016).
- Organizing and participating in "Towards local Antimicrobial stewardship guidelines" workshop (Summer 2017).
- Organizing and participating in "Responsible conduct of research" workshop (Summer 2018).
- Organizing a campaign to raise public awareness of antibiotic misuse hazards and promote safe antibiotic use (Summer 2019).