

## *Curriculum vitae*

Name: Alaa Abouelfetouh Youssef Abouelfetouh

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### PERSONAL INFORMATION

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Gender: Female

Nationality: Egyptian

Date of birth: 12/24/1980

Place of Birth: Alexandria

### EDUCATION

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

### SUMMARY OF QUALIFICATIONS

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- 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

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- Associate Professor of Microbiology, faculty of pharmacy, Alexandria University (July 2016 to date)
- Faculty of Pharmacy IT Unit manager (December 2015 to date)
- 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)

#### SCHOLARSHIPS AND FELLOWSHIPS

- Newton Fund Researcher Links travel grant to visit the lab of Dr. Benjamin Evans at the University of East Anglia
- Sfam President's fund grant to attend the 17<sup>th</sup> 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

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

#### PUBLICATIONS AND POSTERS

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1. Alaa Abouelfetouh: The status of methicillin resistance among Egyptian Staphylococcus aureus isolates, an overview. Infect Disord Drug Targets. 2016 Aug 2. [Epub ahead of print]
2. 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 17<sup>th</sup> International Symposium on Staphylococci and Staphylococcal Infections, 30 August – 2 September 2016, Seoul, Korea.
3. 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 17<sup>th</sup> International Congress on Infectious Diseases, 2-5 March 2016, Hyderabad, India.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. 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.

22. 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

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- 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)
- 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- to date)

#### TRAINING COURSES

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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)

#### CONFERENCES

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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 17<sup>th</sup> International Congress on Infectious Diseases, Hyderabad, India, 2016.  
Bio Vision, Alexandria, Egypt, 2016.  
The 17<sup>th</sup> International Symposium on Staphylococci and Staphylococcal Infections (ISSSI), Seoul, Korea, 2016

#### RESEARCH INTERESTS

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- Mechanisms and treatment of antimicrobial resistance within clinically important pathogens.
  - 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

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- 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).
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#### COMMUNITY SERVICE

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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)

