

CURRICULUM VITAE

- **Name:** Amal Mohamed Ahmed Khalil
- **Position:** Emeritus Professor
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- **Scientific certificates:**

- 1) Bachelor of Pharmacy with honors (1981) Faculty of Pharmacy, Alexandria University
- 2) Master of Science in Pharmaceutical Sciences - Pharmaceutical Microbiology - (1986) "Microbiological studies on Lincomycin and Clindamycin"
- 3) PhD in Pharmaceutical Sciences - Pharmaceutical Microbiology - (1993) "Microbiological studies on anti-cellular preservatives"

- **Scientific activities:**

First: - Supervising scientific theses

2 PhD theses, 10 Master theses

Second: - A member of an internal arbitration committee, 8 master's theses and 2 doctoral theses

Third: - A member of an external arbitration committee, 6 master's theses and one doctorate

Fourth: - A "peer reviewer" journal reviewer for African Journal of Microbiology Research.

Fifthly: Presenting posters and papers in international conferences:

- 1) Effect of the antihistaminic azelastin on the antibacterial activity of selected antibiotics. New Life Sciences: Future Prospects, Biovision Alexandria 2010.
- 2) Response of some Gram-negative and Gram-positive biofilm cells to fluoroquinolone challenges. Bacterial cell biology conference, Puerto Morelos, Mexico, 16-19 November 2010.
- 3) Comparative study of doxycycline and azithromycin influence on biofilm cells of different microorganisms. 20th annual Conference of the Egyptian Society of infection control (ESIC) 2011.
- 4) Development and detection of colistin heteroresistant populations of pan-drug resistant gram-negative clinical isolates. 20th annual conference of the Egyptian society of infection control (ESIC) 2011
- 5) Combined antifungal activities of nystatin and azoles against clinical isolates of *Candida* species. The 14th Arab International Conference on Materials Science, Materials for biomedical Applications Alex, Egypt, 1-3 December 2013.
- 6) Successful recombinant expression and purification of a two-antigen fusion protein derived from the blood fluke *Schistosoma mansoni*. Ninth Annual, The Immunotherapies and Vaccine Summit (ImVacS) Boston August 11-14, 2014.
- 7) Recombinant fusion comprised of the two Schistosomal antigens, Sm14 and Sm29, provides significant protection against *Schistosoma mansoni* in murine infection model. Scientific Committee Coordinator, MEMBS 2014.
- 8) Successful detection, expression and purification of the alternatively spliced truncated Sm14 antigen of an Egyptian strain of *Schistosoma mansoni*.
- 9) Know your enemy! Fluoroquinolone resistance in Methicillin resistant *Staphylococcus aureus* isolates from Alexandria, Egypt. 18th international symposium on *Staphylococci* and staphylococcal infections

Sixth: - Attending conferences:

- 1) Biovision Alexandria, New Life Science: “Future Prospects”. 11-15 April 2010.
- 2) The 17th International Conference of the Egyptian Society for Medical Microbiology (ESMM) “New Modalities in Microbiology” 25-26 April 2010, Cairo, Egypt.
- 3) The 16th Conference (4th International) Medical Research Institute, Alexandria University “Advances in Medical Research Quality in Medical Education and Practice” 19th-22nd October 2010.
- 4) The International conference on “Challenges Facing Health” Bibliotheca Alexandrina– Alexandria –Egypt 7-8 November 2012.
- 5) The 17th Conference (5th International) Advances in Medical Research, “Obesity”. Medical Research Institute, Alexandria University. 13th -16th November 2012.
- 6) The 14th Arab International Conference on Material Science,” Materials for biomedical Applications”. Alex, Egypt, 1-3 December 2013.
- 7) BioVision Alexandria, New Life Science “The Next Decade” 7-9April 2014.

Seventh: Participating in a research project funded by Alexandria University under the title:

Development of potential vaccine candidates against *Schistosoma mansoni* using *Lactococcus lactis* as a novel delivery system” Research Enhancement Program of Alexandria University (Alex REP)

Eighth: Attending public lectures in the college.

Ninth: Published Research or research accepted for publication:

- 1) A M Khalil and M A El Nakeeb (1999): Comparative activity of Clotrimazole, Miconazole, Ketoconazole and Pharmaceutical preparations against multiresistant *Staphylococcus aureus* isolates. Alex J Pharm Sci; 13(2):97-100.

- 2) M A El Nakeeb, A M Khalil and N L Seffin (2003): Effect of Diclofenac, a non-steroidal anti-inflammatory compound, on the bacteriostatic activity of eight antimicrobial agents used in ophthalmology. *Alex J Pharm Sci* ;17(1):11-16.
- 3) M A EL Nakeeb, A M Khalil and N L Seffin (2003): Bactericidal activities of eight antimicrobial agents –diclofenac combinations against standard and ocular bacterial strains. *Alex J Pharm Sci* ;17(2):81-89.
- 4) M A EL Nakeeb, A M Khalil (2004): In vitro and in vivo evaluation of antimicrobial activity of *Melaleuca alternifolia* (Tea Tree) oil against *Staphylococcus aureus* clinical isolates. *Alex J Pharm Sci* ;18(1):33-40.
- 5) M A EL Nakeeb, H M Abou-Shleib, A M Khalil and M BH Bahey El-din. (2004): Susceptibility of *Staphylococcus aureus* clinical isolates against various antibiotics, selected antibiotic combinations and post-antibiotic effect. *Alex J Pharm Sci*;18(2):157-164.
- 6) M A EL Nakeeb, H M Abou-Shleib, A M Khalil and M BH Bahey El-din. (2005): Effect of beta-lactamase and Nor A inhibitors on the activities of ampicillin, ciprofloxacin and levofloxacin against *Staphylococcus aureus* clinical isolates. *Alex Pharm Sci* ;19(1):33-40.
- 7) A M Khalil. (2006): Comparative antimicrobial activity of five Macrolides and their combinations with EDTA, Colistin and Trimethoprim against clinical bacterial isolates. *N Egypt J Microbiol*; 14:258-279.
- 8) M. A.El-Nakeeb, H. M. Abou-Shleib, A.M.Khalil, N.M. El-Guink and Y. F. Mohamed. (2010): Effect of colistin on the in-vitro post-antibiotic activity and biofilm formation using pandrug-resistant clinical gram-negative isolates. *N.Egypt. J. Microbiol*; 25:33- 47
- 9) M. Saleh, A.M.Khalil and M. A.El-Nakeeb. (2011): Combined antifungal activities of nystatin and azoles against clinical isolates of *Candida* species. *Alex. J. Pharm. Sci.*;25(2):103-106
- 10) M. A.El-Nakeeb, H. M. Abou-Shleib, A.M.Khalil, H. G. Omar, O.M. El-Halfawy. (2011): In Vitro Antibacterial Activity of some antihistaminics belonging to different groups against multi-drug resistant clinical isolates. *Brazilian J. Microbiol.*;42:980-991

- 11) M. A.El-Nakeeb, H. M. Abou-Shleib, A.M.Khalil, H. G. Omar, O.M. El-Halfawy. (2011): Membrane Permeability alteration of some bacterial clinical isolates by selected antihistaminics. *Brazilian J. Microbiol.*;42:992-1000
- 12) M. A.El-Nakeeb, H. M. Abou-Shleib, A.M.Khalil, H. G. Omar, O.M. El-Halfawy. (2011): Reversal of antibiotic resistance in Gram-positive bacteria by the antihistaminic azelastine. *APMIS*; 120:215-220
- 13) M. A.El-Nakeeb, H. M. Abou-Shleib, A.M.Khalil, N.M. El-Guink and Y. F. Mohamed. (accepted 2014) Membrane Permeabilization of Colistin Towards Pan-Drug Resistant Gram-Negative Isolates. *Brazilian J. Microbiol*
- 14) M. A.El-Nakeeb, A.M.Khalil, A.F. Gasser. (2014): Microbiological Studies on Bacterial Isolates From Penicillins Filling Cleanroom. *N.Egypt. J. Microbiol*; 39:87-110
- 15) R. E. Ewaish, M. Bahey-El-Din, S. F. Mossallam, A.M.Khalil and H. M. Abou-Shleib. (2014): Successful detection, expression, and purification of the alternatively spliced truncated Sm14 antigen of an Egyptian strain of *Schistosoma mansoni*. *J. of Helminthology*;24:1-5
- 16) R. E. Ewaish, M. Bahey-El-Din, S. F. Mossallam, E. I. Amer, H. M. Abou-Shleib and A.M.Khalil. (2014): Combination of the two schistosomal antigens Sm 14 and Sm29 elicits significant protection against experimental infection. *Experimental parasitology*; 145:51-609)
- 17) Shereen F. Mossallam, Eglal I. Amer, Radwa E. Ewaish, Amal M. Khalil, Hamida M. Abou-Shleib and Mohammed Bahey-El-Din. (2015): Fusion protein comprised of the two schistosomal antigen, Sm14 and Sm 29, provides significant protection against *Schistosoma mansoni* in murin infection model. *BMC infectious Diseases*; 15:147
- 18) Nourhan. H. Fanaki, Hoda. M. Omar, Amal. M. Khalil and Eva. A. Edward (2018): Prevalence of Carbapenem resistant *Klebsiella* and *Proteus clinical isolates*. A real threat to the Egyptian Health Care System. *Int. J. Curr.Microbiol. App. Sci*: 7(4).
- 19) Alsequey M, Newton-Foot M, Khalil A, El-Nakeeb M, Whitelaw A, Abouelfetouh A. Association between fluoroquinolone resistance and MRSA genotype in Alexandria, Egypt. *Sci Rep*. 2021 Feb 19;11(1):4253. doi: 10.1038/s41598-021-83578-2. PMID: 33608606; PMCID: PMC7896087.
- 20) Attalla ET, Khalil AM, Zakaria AS, Baker DJ, Mohamed NM. Genomic characterization of colistin-resistant *Klebsiella pneumoniae* isolated from

intensive care unit patients in Egypt. *Ann Clin Microbiol Antimicrob.* 2023 Sep 9;22(1):82. doi: 10.1186/s12941-023-00632-9. PMID: 37689686; PMCID: PMC10492301.