



وحدة ضمان الجودة



Curriculum Vitae

personal Information

Name	Shaymaa Abdelmalek Mohamed Abdelhafez
Title	Ph.D. in Microbiology (Cairo University)
Date of birth	25/11/1984
Place of birth	Giza
Citizenship	Egyptian



Contact Information

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Educational Qualifications

From 2020 till now

College Attended: Nile University, Bioinformatics and machine learning.

Studying Bioinformatic professional diploma

From 2011 till 2015

College Attended: Cairo University, Faculty of Veterinary Medicine, Department of Microbiology and Immunology.

Through a STDF project entitled „production of monoclonal antibodies against Mycobacterium avium subsp. paratuberculosis“ Degree: Ph.D.

Major: Immunology and Molecular Biology



كلية الطب البيطري
جامعة القاهرة

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جامعة القاهرة

From 2008 till 2011

College Attended: Cairo University, Faculty of Veterinary Medicine, Microbiology and Immunology Degree: M.V.Sc.

Major: Immunology and Molecular Biology

From 2002 till 2007

College Attended: Cairo University, Faculty of Veterinary Medicine Degree: B.V.Sc.

Major: Veterinary Medicine

Academic Positions

Lecturer: from January 2016

Assistant lecturer: from 2011 to 2015

Job Description: - Giving lectures of Bacteriology, Mycology and Immunology to the 3rd year undergraduates on the practical course. - Giving training courses on Bacteriology, Mycology, Immunology and Molecular Biology which were arranged by the department.

Demonstrator: from 2008 till 2011

Job Description: - Giving lectures Bacteriology, Mycology and Immunology to the 3rd year undergraduates on the practical course

Thesis Title

- Ph.D. thesis entitled "Immunological studies on Mycobacterium avium subsp. paratuberculosis for improving the immunodiagnosis of Johne's disease", 2015.

- M.V.Sc. thesis entitled "Immunological and Molecular studies on Mycobacterium avium subsp. paratuberculosis", 2011.

Areas of experience

- Molecular biology including antibody engineering and phage display and usage of the produced libraries in diagnosis and treatment of many infectious and non-infectious diseases. - Studying of camel immunoglobulins (Nanobodies) (single heavy chain antibodies); nature and engineering in addition to studying the intracellular action which will solve many problems as cancer. - Immunological studies and proteomic analysis of many proteins and peptides as Microbial antigens for determination of most immunogenic bands which stimulate the immunity for protection. - Immunological studies and proteomic analysis of many proteins and peptides for improving the diagnostic tools as ELISA kits.

-- Immunization and dealing with different farm and lab animals as cattle, camels, mice, rabbits and rats - Preparation of killed and inactivated vaccines - Concentration and purification of proteins and immunoglobulins - SDS-PAGE, one and two dimensional electrophoresis - Visualization of proteins bands by Coomassie blue and Silver nitrate staining - Western blotting - Preparation of monoclonal antibodies - ELISA, CFT, double radial immunodiffusion and single radial immunodiffusion, slide and plate agglutination tests and passive hemagglutination test 3- Microbiological experiences: -



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Lab Biosafety and biosecurity - Isolation and identification of many bacteria, yeast and moulds - Biotyping , serotyping and genotyping of different microbial isolates. - Antibigram analysis
-Bioinformatics professional
-Fish and fisheries Microbiota and Metagenomics

Awards

Best Master Thesis Award 2011/2012 from Cairo University

Publication award 2020, Cairo University

Professional Qualifications

- Teaching skills (Live and online learning)
- Laboratory skills and professionalism (Microbiology-Immunology- Molecular biology)
- Computer skills (office 365- Excel and Power PI)
- Biostatistics
- Bioinformatics skills and professionalism
- Research fellowship

Publications

Mohamed Bakr, **Abdelmalek, S.**, Ashraf Suloma, Mohamed A. Awad and Saad Attia (2021). Effect of *Aeromonas sobria* infection on gills and skin histopathology in Nile tilapia reared under biofloc and clear water systems. *Egyptian Journal of Aquatic Biology & Fisheries*. (Accepted manuscript)

Abdelmalek, S., Hamed, W., Elsaid, A. (2021). Repurposing of available antiviral drugs against SARS-CoV-2 by targeting crucial replication machinery proteins. A molecular docking study. Egyptian Pharmaceutical J. (Accepted manuscript)

El-Rasikh, A. M., Farghali, H., Abdelrahman, H. A., Elgaffary, M., **Abdelmalek, S.**, Emam, I. A., Ghoneim, M. A., & Selim, S. A. (2021). The implication of autoantibodies in early diagnosis and monitoring of plasmonic photothermal therapy in the treatment of feline mammary carcinoma. *Scientific reports*, 11(1), 10441. <https://doi.org/10.1038/s41598-021-89894-x>

Abdelmalek, S., Kadry, M., Elshafiee, E. A., Hamed, W., Moussa, I. M., Al-Maary, K. S., Mubarak, A. S., Hemeg, H. A., & Elbehiry, A. (2019). Occurrence of *Salmonella* infection and antimicrobial susceptibility for local *Salmonella* isolates from different sources in a cross-sectional study. *Italian journal of food safety*, 8(4), 8525. <https://doi.org/10.4081/ijfs.2019.8525>.

Abdelmalek S., Elshafiee EA, Hamed W, Kadry M (2021). Use of quorum sensing gene SdiA as a molecular marker for *Salmonella* diagnosis. *Adv. Anim. Vet. Sci.* 9(1): 15-20.



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Abd El-malek S., K.F. Mohamed, R. Soliman, M. El Hariri (2015). Comparison of the sensitivity of different primers used for identification of Mycobacterium avium subsp. paratuberculosis isolates recovered from clinically suspected cases. International Journal of Science Technology and Management, 4(9), 1-8.

Abd El-malek S., K.F. Mohamed (2011). Detection of Mycobacterium avium subsp. paratuberculosis in fortified baby milk in Egypt. Intl. J., 2(1), 54-60.

Abd El-malek S., K.F. Mohamed (2011). Phylogenetic analysis of Mycobacterium avium subsp. paratuberculosis of some Egyptian isolates isolated from clinically infected dairy cattle. International Journal of Microbiological Research. 2(1), 49-53.

Abd El-malek S., K.F. Mohamed (2010). The use of IS900 PCR and ELISA for Detection of Mycobacterium avium subsp. paratuberculosis in raw cow milk in Egypt. European journal of Biological Science, 2(2), 39-45. 5-publication of my master dissertation at Lambert Publisher, 2015.

Conferences

- 1- 1st International Scientific Conference for Syndicate of Medical Laboratory Specialists entitled „The Future of Medical Analysis in Egypt“ at 10th of May 2013. The 3rd International Scientific Conference, from 15th to 18th of May 2011, entitled “All Environmental Factors Affecting Human Health”.

Mentorship

- 1- „Isolation and Identification of Bacterial Pathogens“ from 14th to 15th of October 2014 at Cairo University, Faculty of Veterinary Medicine, Center of Applied Analytical and Veterinary Studies
- 2- „Training on Microbiological Examination“ from 6th to 7th of June 2011 at Cairo University, Faculty of Veterinary Medicine, Center of Applied Analytical and Veterinary Studies.
- 3- “Advances in PCR Assay” from 26th to 28th of April 2011 at Biotechnology Center for Services and Research, Faculty of Veterinary medicine, Cairo University.
- 4- “Application of PCR for Diagnosis of Mycoplasma Infection” from 19th to 21st of April 2010 at Biotechnology Center for Services and Research, Faculty of Veterinary medicine, Cairo University.

Training courses



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- 1- „Antibody Engineering and Phage Display“ from 9th to 22nd of November 2015 at Cold Spring Harbor Laboratory, NY, USA
- 2- „Basic Techniques in Cell Culture“ held at the Medical Technology Center 8th to 10th of November 2009 .
- 3- „Academic test of English as a Foreign Language“ held at the center for foreign languages and professional translation on 21/12/2015
- 4- „Research Methodology, Ethics, Scientific Writing and Presentation Technology“ on May, 201

Computer skills

Excellent computer skills using the Microsoft Office suite of programs (International ICDL): • Word • Excel • Powerpoint • Access • Outlook • Internet Explorer

Language skills

Linguistic Skills: Arabic (Mother tongue), Excellent spoken English, Moderate French
• National/International TOEFL