

C.V.

PERSONAL DETAILS of Dr. Ahmed Mohammed Abd El Rahman Erfan

Surname	(A.M. Erfan)		
Title	Dr		
Gender	Male		
Address	13 th (A) Ein Shams St., Helmet El Zeitoun, Cairo, Egypt		
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Date of birth	Day 25	Mo 11	Yr 1982
		Place of birth	Cairo, Egypt.
Family Status	Married and have a son and a daughter		

EDUCATION

School/College/University/Other	Degree obtained	Dates (from-to)
Microbiology department, Faculty of Veterinary medicine, Cairo university.	PhD	2008-2012
Microbiology department ,Faculty of Veterinary medicine, Cairo university.	M.V.Sc.	2005-2008
Faculty of Veterinary medicine, Cairo university.	B.V.Sc. Grade: good The 18 th	1999-2004

MVSc. in Microbiology. Cairo University (Egypt). Thesis Title: "Molecular characterization of *Mycoplasma gallisepticum* recovered from avian sources ". Mentors: Prof. Dr. Salah Eldin Abd- El Kareem Selim and Prof. Dr. Mona Mehrez Ali

PhD. in Microbiology. Cairo University (Egypt). Thesis Title: "Differentiation between vaccinal and field strains of *Mycoplasma gallisepticum* by using real time PCR". Mentors: Prof. Dr. Salah Eldin Abd- El Kareem Selim and Jakeen Kamal Eljakee and Prof. Dr. Mona Mehrez Ali.

TRAINING Courses

Training attended /Technical skills acquired	Organization	Date
Training on Avian Influenza virus diagnosis	NAMRU3	1-15 february 2006
Training on Avian Influenza virus diagnosis	NVSL, Ames, Iowa, United states of America	May 2007
Trainer (Molecular biology) for vet. staff of RLQP and its provincial labs, EGYPT	RLQP and Damanhour, LUXOR, Dakahlia, Faium, Ismailia and Sharkia provincial labs	2008 till now
Training on Infectious salmon anemia virus diagnosis	NIFES, NFSA and national veterinary institute), Bergen, Norway	April 2009
Training on antigenic cartography of Avian Influenza	South east poultry research laboratory (SEPRL), Atlanta, Georgia, United states of America	September 2009
DNA synthethizing	OligoMaker ApS DNA/RNA Synthesiser etc. Copenhagen. Training held in RLQP	2011

Employment History Dates

Employer	Position	(from-to)
RIqp, Animal Health Research Institute (AHRI)	Head of Biotechnology unit	April 2010 till now
RIqp, Animal Health Research Institute (AHRI)	Researcher	May 2012
NIqp, Animal Health Research Institute (AHRI)	Assistant researcher	March 2009
CIqp, Animal Health Research Institute (AHRI)	Researcher assistant	2007- 2009
NIqp, Animal Health Research Institute (AHRI)	Analyst in virology and molecular biology units	2005- 2007
Private poultry Farm	Veterinarian	2004-2005

MEMBERSHIP OF PROFESSIONAL ASSOCIATION

1. Full Member of the (EVPA) Egyptian Veterinary Poultry Association, National branch of the World Veterinary Poultry Association (WVPA).
2. Animal Health Research Institute research magazine.
3. Assiut veterinary medical journal.

Presentations:

- 1- Oral Presenter about 'PCR and Real time PCR' in the conferences of the **National lab. For veterinary quality control on poultry production and its provincial labs (2010-2013).**
- 2- Oral presentation about 'Molecular characterization of *Mycoplasma gallisepticum* recovered from chicken and turkey flocks' in the **International congress on advancements of in poultry production in the middle east and African states. PAM congress 2013. Antalya, Turkey.**

FIELDS OF INTEREST

- a- Molecular biology researches
- b- Bacteriology, virology and serology researches
- c- Mycoplasma researches

Application of:

DNA sequencing
Antigen cartography
Real time PCR (Different methods and machines)
Conventional PCR
ELISA
Haemagglutination test
Haemagglutination inhibition test
Agar gel immunodiffusion
Egg inoculation for viral and bacterial isolation
Bacterial isolation and identification

APPOINTMENTS

- 1-Working in NLQP since 4/2005.
- 2-Planning for avian influenza prevention and control strategy.
- 3-Dealing with Avian influenza outbreaks since 2006.
- 4-Handling of compartmentalization project in Egypt (Sponsored by GOVS).
- 5-Handling of AIVEP project in Egypt (Sponsored by FAO).
- 6-Handling of live bird market surveillance project in Egypt (Sponsored by FAO).
- 7-Application of quality system in lab work.
- 8-Accreditation in ISO 17025 since 2005.
- 9-Working in poultry farms for 2 years.
- 10-Success in proficiency tests with **VLA** (England), **OIE lab** (Italy) and **FLI** (Germany) since 2008 till now.
- 10-Understanding and implementing the requirements of ISO/IEC 17025.
- 11-Internal auditor (certified) on different laboratory activities.

Publications

- 1) El-Sayed M Abdelwhab, **A. M. Erfan**, Christian Grund, Mario Ziller, Abdel-Satar Arafa, Martin Beer, Mona M Aly, Hafez M Hafez and Timm C Harder (2010). Simultaneous detection and differentiation by multiplex real time RT-PCR of highly pathogenic avian influenza subtype H5N1 classic (clade 2.2.1 proper) and escape mutant (clade 2.2.1 variant) lineages in Egypt. **Virology Journal**, 7:260 . doi:10.1186/1743-422X-7-260.
- 2) W. H. Kilany, A. Arafa, **A. M. Erfan**, M. S. Ahmed, A. A. Nawar, A. A. Selim, S. G. Khoulosy, M. K. Hassan, M. M. Aly, H. M. Hafez, and E. M. Abdelwhab. (2010). Isolation of Highly Pathogenic Avian Influenza H5N1 from Table Eggs After Vaccinal Break in Commercial Layer Flock. **J. Avi. Dis** 54:1115–1119, 2010.
- 3) El-Sayed M. Abdelwhab, Abdel-Satar Arafa, **A. M. Erfan**, Mona M. Aly, and Hafez M. Hafez (2010). Modified H5 Real-Time Reverse Transcriptase-PCR Oligonucleotides for Detection of Divergent Avian Influenza H5N1 Viruses in Egypt. **J. Avi. Dis** 54:1301–1305.
- 4) Walid H. Kilany , E.M. Abdelwhab , Abdel-Satar Arafa , Abdullah Selim ,Marwa Safwat , Ahmed A. Nawar , **A. M. Erfan**, Mohamed K. Hassan ,Mona M. Aly , Hafez M. Hafez. (2011). Protective efficacy of H5 inactivated vaccines in meat turkey poult after challenge with Egyptian variant highly pathogenic avian influenza H5N1 virus. **J. Veterinary Microbiology** 150: 28–34.
- 5) Abdel-Satar Arafa • Naglaa Hagag • **Ahmed Erfan** • Wessam Mady • Mohamed El-Husseiny • Amany Adel • Soad Nasef. (2012). Complete genome characterization of avian influenza virus subtype H9N2 from a commercial quail flock in Egypt. **Virus Genes**. 2012 Oct;45(2):283-94.
- 6) Eman M. Farghaly and **Ahmed M. Erfan**. (2012). Studies on some aerobic bacteria in ostriches in Egypt. **1st Conf. of An. Health Res. Inst. Assoc.**, December 2012. pp. 245 – 254.
- 7) Azhar, G. Shalaby; Mona, I. El Enbaawy; **Ahmed, M. Erfan** and Soad, A. Nasef. (2012). Studies on *Salmonella* species from migratory and native wild birds. **1st Conf. of An. Health Res. Inst. Assoc.**, December 2012. pp. 539 – 550.
- 8) Osman KM, Mehrez M, **Erfan AM**, Nayerah A. (2013). Salmonella enterica Isolated from Pigeon (*Columba livia*) in Egypt. **Foodborne Pathogens and Disease**. May 2013, Vol. 10, No. 5: 481-483.
- 9) Eman M. Farghly, **Ahmed M. Erfan**, Ahmed S. Helmei, Engy A. Hamed and E.M. Abdelwhab. (2013). Isolation and characterization of aerobic bacteria causing torticollis in rabbits. **Proc. of the 6th Wealth Research Conf. in the Middle East & North Africa**. Hurghada information center- 27-30 September (2013) - pp. 77 – 91.
- 10) Eman M. Farghaly; **Ahmed M. Erfan**; Heba Badr; Amany A. Ibrahim; Nayera M. Al-Atfeehy and Soad A. Nasef. (2013). Studies on some quinolone resistance of

salmonella strains of avian origin. **Proc. of the 6th Wealth Research Conf. in the Middle East & North Africa.** Hurgada information center- 27-30 September (2013) - pp. 92 – 110.

11) SAMAH EID AS. and **AHMED M. ERFAN. (2013).** CHARACTERIZATION OF *E. COLI* ASSOCIATED WITH HIGH MORTALITY IN POULTRY FLOCKS. **Assiut Vet. Med. J. Vol. 59** No. 139 October 2013

Ongoing research:

- 1- Studies on Duck viral hepatitis in Egyptian duck farms.
2. Molecular and Virulence characteristics of multi-drug resistant Salmonella enterica Serotypes Isolated from One- Day Old ducklings in Egypt.
3. Diagnosis of some cases of Poult enteritis mortality syndrome in Sharkia governorate.
4. Surveillance for Riemerella anatipestifer microorganism in duck and turkey flocks in Egypt.
5. Salmonella enterica serotypes isolated from squabs reveals multidrug resistance and a distinct pathogenicity gene repertoire.
6. Culture of Egyptian Highly Pathogenic H5N1 Avian Influenza viruses on different cells.
7. Salmonella enterica virulence gene repertoire and their antimicrobial resistance profiles in One-day old turkey poulters imported to Egypt.
8. Isolation and characterization of E.coli associated with high mortality in poultry flocks.
9. Bacterial And Molecular Studies On Pathogens Causing Food Poisoning isolated from chicken meat.
10. Study on infectious bronchitis disease in chicken farms in Egypt 2012.
11. Protection against H5N1 high pathogenicity avian influenza in chickens immunized with different recombinant and inactivated avian influenza vaccines.
12. Multi-drug resistant profile, Molecular and Virulence characteristics of Salmonella enterica Serotypes Isolated from One-Day Old Chicken.

13. Avian Influenza virus and Newcastle virus surveillance and characterization in broiler and layer chicken flocks in Egypt.

14. Epidemiology of feed borne infection in feed mills.

15. The role of lesser grain borer in transmission of microbial population to poultry & animal feed.

16. Phenotypic and Genotypic Characterization of Bacteria Causing Respiratory Diseases in Poultry.

17. Incidence of Salmonella *spp.* In Eggs Collected From Backyard Chickens .

Academic awards:

Award of the best research paper in the 1st conference of the Animal Health Research Institute Association conference (December, 2012).

Computer Proficiency:

Hold an ICDL certificate in 2012

Office -[Microsoft, Word, excel , Power Point].

Internet scales: very good.

Language Skills:

Native language: Arabic

Very good command of both written and spoken English (Graduated from Modern Language school).

12th level in TOIFEL programs.