

Arab Republic of Egypt
Ministry of Higher Education
Cairo University
Faculty of Veterinary Medicine



جمهورية مصر العربية
وزارة التعليم العالي
جامعة القاهرة
كلية الطب البيطري

Curriculum Vitae

Mohamed Mahmoud Mahmoud Zaki

CONTACT

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PERSONAL

Languages: Arabic (native), English and French

International experience: extensive in Saudi Arabia, USA and Portugal; also France, Canada, Syria, Turkey, Kuwait and Singapore. Also, lectured in 8 countries

Interests: Avian and human sciences.

ACADEMIC BACHGROUND

Post-doctor: Avian Medicine, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY, USA.

Ph.D. Veterinary Medical Sciences (minors: Avian Diseases), Cairo University, Egypt 1986

M.V.S. Veterinary Medical Sciences (minor: Avian Diseases), Cairo University, Egypt, NY, 1983

B.V.S. Animal Medicine and Surgery, Cairo University, Egypt 1979

ACADEMIC TITLE: Professor

JOB TITLE: Professor and Head Department (Until August 2013).

FIELD : Infectious Diseases.

SUB FIELD: Viral, bacterial and Parasitic Diseases. Immunology

EXPERTISE

1. Has a wide interest in Microbiology, Virology, Animal and Human Health, and particularly in **improving the linkage of animals and human health and well being**.
2. Has a particular experience in laboratories bio-safety and infective samples handling.
3. Has a wide experience in detection of pathogenic bacteria and viruses in biological samples including tissues, body fluids, swaps, exudates, etc..
4. Has a wide experience in detection of antibodies against viruses and bacteria in sera of infected individuals using recent techniques e.g. ELISA.
5. Has a wide experience in examination of samples for parasites (ecto- and endo-paraistes).
6. He is recognized as one of the leaders in Infectious Diseases, having published widely and conducted research ranging from fundamental studies with cultured cells and animal models.
7. He is the 1st to conceive and teach an academic trainings linking *Birds and Human Avian Influenza* at King Fahd Hospital in Al-Hasa, Eastern Province, Saudi Arabia.
8. Principle and co- investigators of 5 research projects dealing with environmental contamination with viruses and bacteria with their relationship to immunity that were funded by USA-AID and King Faisal University, KSA.
9. He is the 1st in his field awarded 54 credit hours from the Saudi Council of Medical Specializations.
10. He was the main speaker in the King Faisal Hospital Programs for continuous education for 2 years.
11. Attended 18 international conferences in Canada, England, Netherlands, Brazil, Singapore, Syria, Saudi Arabia and Kuwait.
12. His current research addresses the role of backyard birds in spreading Avian Influenza among village's communities in Egypt.

POSITIONS :

Position	Name and Location	From	To
Demonstrator	Department of Animal Medicine and Poultry, Faculty of Veterinary Medicine, Cairo University.	1979	1983
Assistant Lecturer	Department of Animal Medicine and Poultry, Faculty of Veterinary Medicine, Cairo University..	1983	1986
Lecturer	Department of Animal Medicine and Poultry, Faculty of Veterinary Medicine, Cairo University.	1986	1991
Assistant Professor	Department of Poultry Diseases, Faculty of Veterinary Medicine, Cairo University.	1991	1996
Professor	Department of Poultry Diseases, Faculty of Veterinary Medicine, Cairo University.	30/7/1996	2001
Professor	Department of Clinical Studies, College of Veterinary Medicine & Animal resources, King Faisal University	2001	2009
Professor	Department of Poultry Diseases, Faculty of Veterinary Medicine, Cairo University.	2009	2010
Professor and Head Department	Department of Poultry Diseases, Faculty of Veterinary Medicine, Cairo University.	August 2010	August 2013
Professor	Department of Poultry Diseases, Faculty of Veterinary Medicine, Cairo University.	August 2013	Till now

RESEARCH ACTIVITIES:

1. Published 37 research paper in the field of avian viral, parasitic and bacterial diseases (a list of publication is enclosed) in different national and international specialized scientific journals and conferences.
2. Supervised 27 Master and Ph.D. thesis of Avian diseases and Microbiology in Cairo University, Egypt. Also, supervised a Master thesis of Avian diseases in College of Veterinary Medicine and Animal Resources, King Faisal University, Saudi Arabia.
3. Co-investigator in a research project in Cairo University titled “**Effect of specified environmental factors on the immune system of chicks**” funded by USA under No. 345 NARP (*National Agricultural Research Projects*).
4. Awarded a five-month research fellowship funded by USA government in Department of Avian and Aquatic Animal Medicine, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York, USA, and worked on their research program on chicken infectious anemia from February, 1990 to July, 1990
5. Co-investigator in a research project during the period between 1993 and 1994 with the Serum and Veterinary Vaccines Production Unite, National Veterinary Serum and Vaccines Research Institute, Agriculture Research Center, Ministry of Agriculture, Egypt, to develop bivalent vaccine against infectious coryza of chickens. We succeeded in preparation a potent vaccine that produced and distributed to poultry farms since 1994 until now.
6. Co-investigator in a research projects in National Veterinary Serum and Vaccines Research Institute, Agriculture Research Center, Ministry of Agriculture, Egypt, since October 1997 to develop three potent vaccines against E.coli infection in chicken, paramyxovirus infection in pigeons and rabbit hemorrhagic viral enteritis.
7. Principal investigator of the research project # 6014 titled "**FIELD SURVEY ON THE INCIDENCE OF SOME IMMUNOSUPPRESSIVE VIRUSES AMONG BROILER FARMS IN EASTERN PROVINCE OF SAUDI ARABIA**" Started in March 2005 and ended at 2007 funded by Deanship of Scientific Research, King Faisal University, Saudi Arabia.
8. Co-investigator of the research project # 90050 titled "**STUDY ON THE INCIDENCE OF EGG DROP SYNDROME IN SOME LAYING FARMS IN EASTERN PROVINCE OF SAUDI ARABIA**" Started in March 2007 funded by Deanship of Scientific Research, King Faisal University, Saudi Arabia.
9. Co-investigator of the research project titled "**STUDY ON ASPERGILLUS INFECTION IN OSTRIC IN SAUDI ARABIA AND ITS IMPLICATIONS ON HUMAN HEALTH**" Started in March 2006 funded by Deanship of Scientific Research, King Faisal University, Saudi Arabia.

TRAINING COURSES :

1. Attend a training program at University of California Veterinary Diagnostic Laboratory System, Davis, California, USA in 16-24 June 1990. The training was conducted on the current diagnostic techniques utilized in virology section under supervision of Dr. Anthony Castro and Staff Research Associate Bruce Reynolds. A part of this training was a field visit to Nicholas Turkey Breeder Farms, accompanied by Dr. Sharon Hietala the Chief of Immunology Section in the laboratory, during which the very rigorous disease control practice and utilization of extensive laboratory support for their program were demonstrated.
2. Successfully participated in the International Cell Research Organization (**ICRO**) Training Course on “Molecular Response of Cells to Stress” that organized by and conducted in the Center of Experimental Cytology and Biomedical Institute of the University of Porto, Portugal during the period 11-23 October, 1992. ICRO is one of the organizations of United Nations Educational, Scientific and Cultural Organization (**UNESCO**). The course consisted of lectures and practical sessions that included: Oxidative stress; Professional phagocytes-section of oxygen and nitrogen radicals; Stress proteins and immunity; Free radicals and oxidative stress; Yeast gene expression; Cell cycle and the stress response; Stress response of yeast; Stress tolerance; Paper discussions. 13 students attended the course from 10 countries selected from 45 applicants.
3. Completed a training course on Coccidiosis and Coxistac[®] ELISA conducted and arranged by Animal Health Division of Pfizer-Egypt during September 1995. The training which was conducted by Dr. Vincent Guyonet (USA) included lectures and practical session on the use of ELISA system in detection (qualitative and quantitative) Salinomycin, antibiotic-anticoccidial, in poultry feed. New portable ELISA system produced by Neogen Company, USA was used in practical session.

APPLIED FIELD ACTIVITIES:

1. Participating in the different field activities carried out by The Center for Veterinary Analysis and Applied Studies, Faculty of Veterinary Medicine, Cairo University. Such activities include: diagnosis of disease problems in poultry samples received from different producing farms in Egypt, giving lectures on diseases of poultry in many training courses carried out for field veterinarians.
2. Participating as a trainer in the training courses of the Egyptian International Center of Agriculture (*EICA*) in every year since 1994 until 2001 by giving lectures on some parasitic Diseases of Ducks and Turkeys. The courses specialized in poultry production and disease control in different countries with special reference to tropical areas. Many veterinarians and agronomists attended such training courses from Africa, Asia and Latin America.
3. Writing a chapter about Chicken Infectious Anemia in Chickens in the 3rd edition (1993) of the book published by Center for Analysis and Veterinary Applied Studies, Faculty of Veterinary Medicine, Cairo University.
4. Writing a chapter titled "COCCIDIOSIS ETIOPATHOLOGY" in the manual of *Pfizer International Training Course on Poultry Coccidiosis*, Cairo, April 14-20, 1995. Also, making a presentation on the effect of coccidiosis on the nutritional status of chickens and participating in workshop organization. International speakers were participated in such course, which was attended by 35 trainees from Egypt, Kingdom of Saudi Arabia, Algeria, Syria, Yaman, Morocco and Turkey.
5. Participated as a trainer in the training courses that arranged by Giza Veterinary Authority for field practitioners in 1992, 1993 and 1994.
6. Participated as a trainer in the training courses that arranged by Al-Hasa Veterinary Authority, Eastern Province, Saudi Arabia for field practitioners during 2002-2009.
7. Participated in many field missions to provide technical assistance to farmers and projects of poultry in Giza and Assuit areas of Egypt's countryside from 1980 to 1994, and from 1996 until 2001.
8. Gave lectures on Poultry Diseases through Video-Conference to veterinarian teaching animal health to Agriculture High Schools students that conducted and arranged by Ministry of Education, Cairo, October 2000.
9. Member in the committee of production and evaluation of vaccines in the National Veterinary Serum and Vaccines Research Institute, Agriculture Research Center, Ministry of Agriculture, Egypt, since January 1993 until 2001.

CONFERENCES and SCIENTIFIC MEETINGS :

1. Presented two papers one of them on infectious coryza and the other one on infectious bursal disease with special reference to its effect of avian immune system in the **1st Annual Scientific Conference of the Egyptian Veterinary Poultry Association**, Cairo, Egypt 1987.
2. Participated in weekly seminars and chicken infectious anemia reunions at Department of Avian and Aquatic Animal Medicine, New York State College of Veterinary Medicine, Cornell University, USA during the period from February 1990 to July 1990.
3. Presented a paper about the severe outbreaks infectious bursal disease in Egypt during the scientific sessions of the **19th World Poultry Congress** that held at Amsterdam, The Netherlands 20-24 September 1992.
4. Presented papers in the scientific sessions of the **Science Weeks** which arranged by **The Supreme Science Council of Syrian Arab Republic** that conducted in different Syrian universities in 1992, 1993 and 1994. The papers were on the poultry diseases and nutrition-immunity inter-relationship. Many Arabic and international scientists in the field of Veterinary Medicine attended such science weeks.
5. Presented two papers concerning preparation and evaluation of infectious coryza vaccine and the role of Harderian gland in the avian immune system with special reference to infectious bursal disease in the **3rd Annual Scientific Conference of the Egyptian Veterinary Poultry Association**, Cairo, Egypt 1993.
6. Presenting a lecture on "Coccidiosis Etiopathology" in the **Pfizer International Training Course on Poultry Coccidiosis**, Cairo, April 14-20, 1995
7. Participated in the **1st Congress of Faculty of Veterinary Medicine, Alexandria University**, Alexandria, Egypt, September 1995, by presenting a study on Salinomycin (anticoccidial) efficiency in Egypt, Algeria and Morocco.
7. Presenting a paper concerning sudden death syndrome in chickens, in the **11th Congress of the World Veterinary Poultry Association** that held at Budapest, Hungary 18-22 August, 1997.
8. Presenting a paper concerning campylobacteriosis, in **International Conference on Veterinary Medicine and Human Health in the 21st Century** that held at Kuwait, Kuwait 19-21 October 1998.
9. Presenting a paper about characterization of *Haemophilus paragallinarum* using SDS-Page, in the **21st World Poultry Congress** that held at Montreal, Canada 20-24 August, 2000.

10. Presenting a paper titled "Strategy on Salmonella Control in Chickens for Protection Human in Saudi Arabia" in the **1st Meeting of Poultry Production Society in Saudi Arabia**, Riyadh 7-9 Marsh, 2004, Saudi Arabia.
11. Presenting a paper titled "Preventive measures adopted for personnel at a high risk to avian influenza (H5N1)" in the Conference of **Avian Influenza of Falcons and Poultry**, May 24th 2006, College of Veterinary Medicine and Animal Resources, King Faisal University, Saudi Arabia.
12. Presenting a lecture on "**Avian Influenza**" in the Scientific Meeting of Eastern Province Branch of Saudi Society for Medical Microbiology and Infectious Diseases, November 24, 2005, Khobar, Saudi Arabia.
13. Attended the **International Conference on Avian Influenza**, National Guard Officers Club, King Abdulaziz Medical City, Riyadh, Saudi Arabia, November 21-22, 2005.
14. Presenting a lecture on Avian Influenza in the **Mini Symposium on Avian Influenza held at Department of Continuing Education and Postgraduate Studies in King Fahad Hofuf Hospital**, Al Hasa, Saudi Arabia, November 23, 2005.
15. Presenting a lecture on Human at Risk for Avian Influenza in the **Mini Symposium on Avian Influenza held at Department of Continuing Education and Postgraduate Studies in King Fahad Hofuf Hospital**, Al Hasa, Saudi Arabia, January 31, 2006.
16. Attending the **2nd Avian & Pandemic Influenza Training Workshop** organized by the GCC Center for Infection Control and Saudi Society for Public Health in Collaboration with WHO, NAMRU-3 and CDC, Riyadh, Saudi Arabia, January 5-9, 2008.
17. Presenting a lecture on "Diagnosis and Control of Avian Influenza" in the **Workshop of Avian Influenza Control** organized by Saudi Poultry Production Society and Ministry of Agriculture, Riyadh, Saudi Arabia, January 25-26, 2009.
18. Presenting a paper on " Detection of pancreatic ductal carcinoma in chickens " in the **17th World Veterinary Poultry Congress**, Cancun, Mexico 14-18 August 2011
19. Presenting a paper on " Efficacy of some herbal feed additives on performance and control of cecal coccidiosis in broilers " in the **2nd International Conference on Asia Agriculture and Animal (ICAA 2012**, Singapore July 23-24, 2012