



Department of Veterinary Hygiene and Management
Faculty of Veterinary Medicine
Cairo University
Giza-12211, Egypt

CURRICULUM VITAE

I. PERSONAL DATA

Manal Moustafa Zaki Ahmed	
Place & Date of Birth:	Cairo, 28th November 1968
National ID:	26811280103124
Nationality	Egyptian
Marital status:	Married
Current address:	Pyramids Gardens, Giza, Egypt
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Email:	drmanalmoustafa2008@cu.edu.eg drmanal2013@gmail.com drmanalmoustafa2008@yahoo.com
Present occupation:	Professor of Veterinary Hygiene and Management
Field specialization:	Animal, Poultry and Environmental Hygiene
Work Address:	Department of Veterinary Hygiene and Management, Faculty of Veterinary Medicine, Cairo University, Giza- 11221, Egypt.

Languages/Special Skills

Arabic	■ Mother tongue	■ Excellent Reading	■ Excellent Writing
English	■ Very good Speaking	■ Excellent Reading	■ Excellent Writing
	Pass the TOEFL English course with a total of 534 in listening comprehension, structural written expression, and reading comprehension skills.		
Computer Skills	<ul style="list-style-type: none">• Excellent Window 2010 and office 365"PowerPoint and Word• Excellent Internet for research		
Personnel skills	<ul style="list-style-type: none">▪ Accepting responsibility with leadership ability▪ Well team working and time managing with positive attitude.		

II. ACADEMIC QUALIFICATIONS

1. Academic Education

1. **Ph.D.** in Poultry hygiene from Faculty of Veterinary Medicine Cairo University. Thesis specialty: "Hygienic studies on Mycoplasma in poultry Farms and Methods of Control" 2001
2. **M.Sc.** (Master of Veterinary Sciences) from Faculty of Veterinary Medicine, Cairo University. Thesis specialty: Epidemiological studies on Mycoplasma mastitis and methods of hygienic control 1997.
3. **Diploma** of Veterinary Microbiology and Immunology from Faculty of Veterinary Medicine, Cairo University 2002.
4. **B.Sc.** from Faculty of Veterinary Medicine, Cairo University

III. PROFESSIONAL EXPERIENCE

1. Occupations:

- Professor of Animal Hygiene & Management at the Faculty of Veterinary Medicine, Cairo University. Taught the lectures of the curricular poultry, animal hygiene and epidemiology for 4th and 5th years and the pre-final veterinary students at Faculty of Veterinary Medicine, Cairo University (from July 2011 till now).

- Assistant Professor of Animal Hygiene & Management at the Faculty of Veterinary Medicine, Cairo University. Taught the lectures of the curricular poultry, animal hygiene and epidemiology for 4th and 5th years and the pre-final veterinary students at Faculty of Veterinary Medicine, Cairo University (from 2006 till 2011).
- Lecturer of Animal Hygiene & Management at the Faculty of Veterinary Medicine, Cairo University: Taught both lectures and practical sessions of the curricular Poultry, animal hygiene and epidemiology for 4th and 5th years and the pre-final Veterinary students at Faculty of Veterinary Medicine, Cairo University (2001 - 2006).
- Teaching Assistant in the Department of Animal Hygiene & Management, Faculty of Veterinary Medicine, and Cairo University: Teaching the practical sessions for the Pre-final Veterinary students at the same college (1997-2001).
- Demonstrator in the Department of Animal Hygiene & Management, Faculty of Veterinary Medicine, and Cairo University: Teaching the practical sessions for the Pre-final Veterinary students at the same college (During the period between 1995-1997).
- Working as editorial assistant during the preparation of student books dealing with Animal Hygiene courses offered to the 4th and 5th year's students at the Faculty of Veterinary Medicine, Cairo University.

2. DIAGNOSTIC EXPERIENCES AND OTHER JOBS

- **Certified international Professional trainer at Central Unit for Training in Dependent Technology, Electronic Services Center, Supreme Council of Universities March 2021 till now.**
- **Certified international Professional trainer in Faculty and Leadership Development Centre that was held in FLDC since August 2017 till now**
Positive thinking; Problem solving and decision making; Self-esteem; Ethical guideline in using human and animals in research; communication Skills; Presentation skills; time and meeting management; CV writing; Interview skills; Professional Etiquette; Conference organization; Ethics of

the profession in university work; Leadership; Team working; Emotional stability, Emotional intelligence; Stress management.

- **International Certified trainer and member in the IA –CUC** (Institutional Animal Care and Use Committee), Cairo University since 2017 till now.
- **Trainer at Training and development Centre** ([Faculty of Agriculture, Cairo University](#)) since 2019 till now.
- **Executive member and Coordinator of the Unit of anti- harassment and anti-violence against women**, Cairo University from 2014 to March 2019.
- **Trainer at the Unit of anti- harassment and anti-violence against women, Cairo University** and organized and trained students and staff members since, 2016and till 2019.
- **Technical adviser and executive director** of the United Company covalent for livestock development since 2014 to 2017.
- **Advisory and manager of Veterinary quality control and Diagnosis Laboratory in SPF project, Agricultural Research Center, Ministry of Agriculture, Egypt in the interval from September 2001 and so far, as (2001- Currently)**. I have gained considerable experience in conducting tests to assess the efficiency of biosecurity programs and preventive measures as well as microbiological examination for water, bedding and microbial air loud inside and outside poultry houses. Also, serological testing of blood samples for birds and human as well as the isolation and classification of bacteria, fungi and mycoplasma tests of different samples.
- **Clinical pathologist** at the human hematology labs: Trained to examine and evaluate human blood, serum, organ tissue samples, testing liver, kidney functions and performing antibiograms (1992- 2007).
- **Performing DNA based molecular biology assays like PCR and serological tests as Q-ELISA and FAT at the PDRC Labs**, University of Georgia (2001-2002).
- **Microbiologist & Immunologists** at the Animal Research Institute: Performing all the microbiological and immunological assays on poultry tissues and by products (1993-1995).

3. ACADEMIC AWARDS

- Awarded the International Publication Award of Cairo University for the years 2009, 2010, 2011, 2012, 2013, 2014, 2015, and 2017, 2018.
- Certificate of thanks and appreciation for the outstanding effort and effective roles in Quality and Accreditation Unit at the Faculty of Veterinary Medicine - Cairo University 2015, 2017.
- Certificate of thanks and appreciation for my effort in the field of veterinary medicine and community service from the Society of Protection and Welfare of Donkeys and Mules in Egypt at the World Veterinary Day, 2014.
- Certificate of thanks and appreciation for the outstanding effort and effective roles in Graduation Celebration Day of the Faculty of Veterinary Medicine - Cairo University for the Year 2012-2013-2014.
- Certificate of thanks and appreciation for my effort in the field of veterinary medicine and community service from the Female Veterinary Syndicate Committee, 2012.
- Certificate of thanks and appreciation for the outstanding effort and effective roles in the training and development Unit at the Faculty of Veterinary Medicine - Cairo University.

4. THESIS SUPERVISION

1. Participation in the supervision of Master thesis, Faculty of Veterinary Medicine, Cairo University, entitled “evaluation of Nanoparticles and sod. Hypochlorite in the treatment of biofilm in some poultry farms” since 2020 and till now.
2. Participation in the supervision of Master thesis, Faculty of Veterinary Medicine, Cairo University, entitled “Impact of poor water quality on the occurrence of fish diseases in fresh water and marine aquaculture facilities in Egypt” since 2020 and till now.

3. Participation in the supervision of many graduations thesis projects in the faculty of Science and Biotechnology, MSA University since 2019 till now.
4. Participation in the supervision of Master thesis, Faculty of Veterinary Medicine, Cairo University, entitled "Infection control practices for veterinary pets clinics infected with or exposed to ringworm" since 2017 and till now
5. Participation in the supervision of Master thesis, Institute of African Research and Studies, Cairo University, entitled "Some affecting factors on Mastitis in Egypt and Tunisia - Applicable Studies on Milk Production", since 21/12/2004 up till December 2006.
6. Participation in the supervision of Ph.D. thesis, Institute of African Research and Studies, Cairo University, entitled "Environmental pollution and its effects on bio-safety in dairy farms in Egypt and Tunisia - Applicable Studies on Milk Production", since 21/8/2008 till 11/2018.
7. Participation in the supervision of Ph.D. thesis, Institute of African Research and Studies, Cairo University, entitled "Effect of some vegetables on glucose and lipid levels for diabetic rats in the Egyptian and Sudanian environments ", since 26/2/2008 till now.
8. Participation in the supervision of Ph. D thesis, Faculty of Veterinary Medicine, Cairo University, entitled "Evaluation of the environmental factors affecting the immune response of avian influenza vaccine" since March 2009 till 2013.
9. Participation in the supervision of Master thesis, Faculty of Veterinary Medicine, Cairo University, entitled "Bacteriological studies on Salmonella microorganism in Poultry" since 22-11-2009 and till 2012.
10. Participation in the supervision of Master thesis, Faculty of Veterinary Medicine, Cairo University, entitled" Identification of the most probable bacteria causing skin and gill infections in cultured and wild fish at different geographical areas in Egypt" since 21-12-2010 and till now.
11. Participation in the supervision of Master thesis, Faculty of Veterinary Medicine, Cairo University, entitled "Effect of saving light energy on the efficacy of young layer" since 2012 and till 2016.

5. REVIEWER AND EDITORIAL BOARD:

- Ecotoxicology and Environmental Safety (2015 – currently).
- International journal of Veterinary Science and Medicine (2016- currently).
- Journal of Advanced Research (2014- Currently).
- International journal of Agricultural Sciences (2010 – Currently).
- African Journal of biotechnology (2010 – Currently).
- African Journal of Pharmacology and Pharmacy (2010 – Currently).
- African Journal of Microbiology Research (2010 – Currently).
- Journal of Environmental Chemistry and Ecotoxicology (2010 – Currently).
- Journal of Toxicology and Environmental Health Sciences (2010 – Currently).
- Journal of American Science (2012- Currently).
- Global Research Journal of Medical Sciences (GRJMS) (2012- currently)
- INTERNATIONAL JOURNAL OF LIVESTOCK PRODUCTION (2012- CURRENTLY)
- Annual Review & Research in Biology (2012- currently)
- Interes journals (2013- currently)
- International Journal of Agricultural Economics and Extension (2012- currently)

6. Membership of Association:

- General Union of Veterinarians
- Member of Egyptian Society of Animal Welfare.
- Egyptian Society of Aquaculture.
 - Member of the Scientific Committee of Vet. CU. IACUC (Veterinary Medicine Cairo University Institutional Animal Care and Use Committee).

- Member of scientific research team for development of Lake Qarun, Al-Fayoum Governorate 2016-Current; for implementing a scientific strategic plan for solving aquatic Lake Qarun problems regarding isopod infestation.
- Member of Egyptian Society of Animal Welfare
- Member of the Scientific Committee of CU – IA CUC (Basic Science Committee)
- Member of the Executive Committee and Student Support Officer at the Unit of Anti- harassment and Violence against Women, Cairo University from 2015 till 2019.
- Member of the Board of Directors and Executive Director of United Covalent Company for Egyptian Veterinarian since 2014 till 2017.
- Member of Egyptian Society of Animal Reproduction and Fertility.
- Member of Society of Physiological Sciences and its Application.
- Member of Egyptian Society of Experimental Biology.
- Egyptian Society of Epidemiology
- Egyptian Rabbit Science Society
- Member of sport committee of the Staff members of Cairo University Club.
- Secretary of the Egyptian society of Environment and aquatic animal health.
- Member of Egyptian Society of Animal production.
- Member of the Scientific Committee of the Egyptian Veterinary Syndicate.

- Member of the improvement committee of the international journal of Faculty of Veterinary Medicine, Cairo University.
- Member of the organizing committee of preparing the celebration of graduation day, Faculty of Veterinary Medicine, Cairo University.
- Member of Training Committee to increase the qualification of Staff members, Heads, Employees and students, Faculty of Veterinary Medicine, Cairo University, and the vice president of the student affair section.
- Member of Unit of Planning and Development to increase the qualification of Staff members, Heads, Employees and students, Faculty of Veterinary Medicine, Cairo University, and the vice president of the student affair section.
- Member of Organizing Committee to keep animals' rights inside the faculty of Veterinary Medicine, Cairo University.
- Member of the improvement committee of the Laboratories and Studying Rooms of Faculty of Veterinary Medicine, Cairo University.

IV. TEACHING AND LEARNING ACTIVITIES

1. Teaching responsibilities

1.1. Undergraduate students

- Participation in theoretical and practical teaching for students of the 4th and 5th level, Department of Veterinary Hygiene and Management- Faculty of Veterinary Medicine- Cairo University, for the following courses:
 - Veterinary Epidemiology (402)

- Environmental Hygiene and Pollution (505)
- Animal Hygiene (506)
- poultry and aquaculture hygiene (507)
- Participation in theoretical and practical teaching of the same courses for students of the 4th and 5th level from Qatar and Libya in Arabic- in Department of Veterinary Hygiene and Management -Faculty of Veterinary Medicine, Cairo University.
- Participation in practical teaching of Animal hygiene Course in Arabic, for the faculty of Agriculture, Cairo, and Ain-Shams University till 2010.
- Participation in preparing the theoretical and practical notes for the same courses.
- Participation in the work of examinations, correction, and oral committees for these courses, Department of Veterinary Hygiene and Management- Faculty of Veterinary Medicine- Cairo University.
- Participation in summer training course (559) for students of the fifth level Department of Veterinary Hygiene and Management- Faculty of Veterinary Medicine - Cairo University.

1.2. Postgraduate students

- Participation in teaching Diploma, Master and Ph.D. courses for the post graduate students of Faculty of Veterinary Medicine- Cairo University for the following courses:
 - VHM 3327 (Combatting Epidemic Diseases), for Ph.D. students.
 - VHM 3328 (Incidence and spread of epidemic diseases), for Ph.D. students.
 - VHM 3329 (Advanced Animal Hygiene), for Ph.D. students.
 - VHM 3337 (prevention the occurrence and spread of epidemic diseases) for Master and Ph.D. students.

- As well as participation in the work of the examinations for these courses, Department of Veterinary Hygiene and Management- Faculty of Veterinary Medicine - Cairo University.

2. Learning skills (Participation in Training Courses and workshops):

A. Professional Training Courses:

1- University of Georgia:

- Advanced training program in Avian Mycoplasmosis (Bacteriological, serological and PCR techniques), College of Veterinary Medicine, Poultry Diagnostic and Research Center in the period of 16 October 2001 to February 22, 2002.

2-Cairo University:

- Immunology, Mycology, Bacteriology and Virology at the Department of Microbiology, Faculty of Veterinary Medicine, Cairo University in the period from November 2001 to November 2002.
- Hygiene of poultry, Control of infectious diseases, disinfectants and disinfection courses at the Department of Veterinary Hygiene and Management-Cairo University in the period from November 1997 to November 1998.
- Advanced Zoonosis "Special courses in bacterial, fungal viral and parasitic diseases at the Department of Zoonosis, Faculty of Veterinary Medicine, Cairo University in the period from April 1995 to April 1996.
- Infectious Diseases of the Udder and Calves at the Department of Internal Medicine, Faculty of Veterinary Medicine, Cairo University in the period from April 1995 to April 1996.
- Advanced general bacteriology at the Department of Microbiology, Faculty of Veterinary Medicine, Cairo University in the period from April 1995 to April 1996.
- Hematology at the Department of Physiology, Faculty of Veterinary Medicine, Cairo University in the period from March 1993 to April 1994.

- Clinical pathology at the Department of Clinical pathology, Faculty of Veterinary Medicine, Cairo University in the period from March 1993 to April 1994.

B. Academic training workshops in Faculty and Leadership Development Centre (FLDC), Cairo University, since 2005 till 2010 where, Attendance and meeting the standards required for completion of a training in the following courses:

- The training course entitled (Certified international professional trainer) under the supervision of Faculty and Leadership Development Centre that was held in FLDC, Cairo University with cooperation of the Missouri University, USA in the period from 7-14 April, 2017.
- The training course entitled (Ethic of using animal in research) under the supervision of Faculty and Leadership Development Centre that was held in FLDC, Cairo University with cooperation of the Akhn University, Germany in the period from 7-14 April, 2017.
- The attendance of the standards required for completion of a training course in “How to compete for a Research Fund “under the supervision of Faculty and Leadership Development Centre that was held in FLDC, Cairo University in the period from 11-13 October 2010.
- The training course entitled (Conference organization) under the supervision of Faculty and Leadership Development Centre that was held in FLDC, Cairo University in the period from 12-16 December 2009.
- Training course in “The skills of New Directions for Learning” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of 16 – 18 April 2007.

- Training course in “The skills of Teaching Evaluation” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of 26 – 28 March 2007.
- Training course in “The skills of Writing and Publishing the research internationally” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of 19 – 21 March 2007.
- Training course in “The skills of Using Technology in Learning” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of 12 – 14 March 2007.
- Training course in “The skills of computer and new techniques of learning” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of January 2007.
- Training course in “The skills of reactive Showing” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of 24-27 July 2005.
- Training course in “New Methods of Teaching” under the supervision of Faculty and Leadership Development Project that was held at FLDC, Cairo University in the period of 28-31 May 2005.
- Training course in the skills of reactive communication under the supervision of Faculty and Leadership Development Project that was held at Faculty and Leadership Development Center (FLDC), Cairo University in the period of 14-17 May 2005.

C. Attending and participating in training program of CUCQAE (Cairo University Center for Quality Assurance of Education) 2010-2017:

- Attend a training course "Preparation of an electronic course" in the period of 5/4 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Preparing course file" in the period of 3/4 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Banks Questions" in the period of 22/3 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Standard criteria for practical tests" in the period of 20/3 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Program accreditation and approval criteria" in the period of 2/3 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Field visit to control system and work" in the period of 22/2 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Field visit to accreditation of higher education institutions" in the period of 20/2 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Credit Hours System" in the period of 3/1 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.

- Attend a training course "Academic guidance in light of the adoption of educational institutions" in the period of 2/1 /2017 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Graduate studies, scientific research and educational activities" in the period of 29/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Students and Graduates" in the period of 27/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Crisis and disaster management" in the period of 21/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Quality management and development" in the period of 19/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Community participation and environmental development" in the period of 14/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Leadership, governance, organizational structure and management" in the period of 12/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Financial resources and financial facilities in support of the educational process" in the period of 6/12 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Annual report of course and program" in the period of 29/11 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.

- Attend a training course "program specification" in the period of 27/11 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "Course specification" in the period of 23/11 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course "preparing the self-study and the annual report of an educational institution within the framework of the new standards" in the period of 16/11 /2016 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course on Field visit to accreditation the Higher Institutions in the period of 16/2 /2015 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course on Community participation in the period of 9/2 /2015 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course on Graduate Studies and Scientific Research in the period of 28/1 /2015 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course on Leadership and Governance in the period of 19/1 /2015 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course on credibility and ethics in the period of 5/1 /2015 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course for the organizational structure and the administrative system in the period of 4/1 /2015 under the super vision of quality and accreditation ensuring Centre of Cairo University.

- Attend a training course for the preparation of statistical analysis of the questionnaires feedback in the period of 31/12/2014 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course for the preparation of questionnaires feedback in the period of 28/12/2014 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- Attend a training course for the preparation of the electronic course in the period of 17/12/2014 under the super vision of quality and accreditation ensuring Centre of Cairo University.
- The attendance of workshop entitled “How to write Examination paper and methods of evaluation” under the supervision of Quality Assurance & Accreditation Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 22- 1- 2012.
- The attendance of workshop entitles “Institutional capacity and educational effectiveness” under the supervision of Quality Assurance & Accreditation Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 11- 3- 2012.
- The attendance of workshop entitled “Strategic plan” under the supervision of Quality Assurance & Accreditation Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 19- 1- 2012.
- The attendance of workshop entitled “Course report and Academic program” under the supervision of Quality Assurance & Accreditation Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 16-1-2012.
- The attendance of workshop entitled “Societal participation and Academic monitoring” under the supervision of Quality Assurance & Accreditation

Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 9-1-2012.

- The attendance of workshop entitled “Credit hours” under the supervision of Quality Assurance & Accreditation Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 2-1-2012
- The training course entitled (Quality Standards in Teaching) under the supervision of Faculty and Leadership Development Centre that was held in FLDC, Cairo University in the period from 21-23 March, 2011.
- The attendance of workshop entitled “Societal Participation and Environmental Development” under the supervision of Quality Assurance & Accreditation Centre that was held in Ibn–Cina Hall at Faculty of Science- Cairo University during the period of 26-1-2011.
- Attending the Cessation of Dr. Esmail Ghetta “Education In 21th Century Curriculum for Excellence “at naqaae Centre in the period of 26-12-2010 under the supervision of Quality Assurance & Accreditation Centre.

D. Scientific Training Courses and workshops:

- Organize and attend international LAS course in laboratory animal science (Category A and B). The course was established by the collaboration between the Egyptian Association for Animal Research Advancement (EAARA), Utrecht University and Faculty of Science, Cairo University, which was delivered, by Prof. Dr. Vera Bumans and her colleagues from Utrecht University for 15 days including theoretical and practical training in the period from 11 to 22 November 2019.

- Attend the Current international good practice in the care and use of laboratory rodents & Establishing Guidelines for Animal Ethics Committees in Africa A “Train the Trainer” course for veterinarians and course leaders involved in education and training in laboratory animal sciences AND A collaborative workshop to develop Guidelines for establishing Animal Ethics Committees (IACUCs) in Africa that held in École Nationale de Médecine Vétérinaire de Sidi Thabet, Tunisia 04 – 08th March 2019.
- Organize and attend international LAS course in laboratory animal science (Category B). The course was established by the collaboration between the Egyptian Association for Animal Research Advancement (EAARA), Utrecht University and Faculty of Science, Cairo University, which was delivered, by Prof. Dr. Vera Bumans and her colleagues from Utrecht University for 15 days including theoretical and practical training in the period from 4 to 15 November 2018.
- Attending Cairo University Study Visit, United Kingdom 18 – 24 November 2018 (Glasgow 21-22 November - Exeter 22-23 November - London 23-24 November) The programme combined meetings with UK stakeholders, a conference, and visits to universities to show their models for anti-Harris unit against women.
- Participating the workshop titled "The definition and the requests of the tasks needed from the scientific committee of CU- IA CUC (to protect the ethics of animal care and use in scientific research) that was held in Department of Zoology, Faculty of Science, Cairo University under the supervision of CU – IA CUC on 15 February 2018.

- The attendance and organization of training course titled “How to establish a Vet. Clinic” under the supervision of Training and Development unit in the Faculty of Vet. Med. Cairo University at 10-11-2016.
- Attend the training course “How to combat violence and harassment against women “in the period of 1 – 3 March 2016 under the supervision of Unit of anti- harassment and violence against women, Cairo University.
- Organize and attend the training course and workshop for the company united covalent Livestock Development entitled: veterinary Monitoring programs in poultry industry - Concept and principals in the period from January 24 to February 17, 2015, at the company's headquarters in Maadi.
- The attendance of workshop entitled “Broiler Management and Application of in poultry farms and its evaluation” under the supervision of Training and Development unit in the Faculty of Vet. Med. Cairo University at 30-12-2013.
- The attendance of workshop entitled “References and Data Management Using EndNote X5 Software” under the supervision of both Faculty of Science, Cairo University at 12 -3-2012 and Training and Development unit in the Faculty of Vet. Med. Cairo University at 14-2- 2013.
- The attendance of Scientific seminar entitled “Biosecurity in Hatcheries and Poultry Farms ” under the supervision of Pro *vacs* company at Concorde El Salam in the period of 14-2- 2013
- The attendance of workshop entitled “Ethics of using animals in research” under the supervision of scientific committee of keeping animal rights in the Faculty of Vet. Med. Cairo University at 28-5- 2012.

- The attendance of workshop entitled “Application of biosecurity in poultry farms and its evaluation” under the supervision of scientific committee of Egyptian Veterinary Syndicate at 15-5- 2012.
- The attendance of workshop entitled “the secret of Power Point” under the supervision of scientific committee of Faculty of Vet. Med. Cairo University at 8- 4- 2012.
- The attendance of workshop entitles “Ethics in Science” under the supervision of DAAD Kairo Akademie that held in DAAD Kairo Akademie centre on 27 March 2012.
- The attendance and coordination of workshop entitled “Investigating the possible roles played by shrimp, freshwater crayfish and fish in transmission and spread of Avian Influenza (H5N1) at the Egyptian Territory” under the supervision of Scientific project of Avian influenza that held in Conference Centre, Faculty of Vet. Med. Cairo University at 15 – 16 February 2012.
- The attendance of workshop entitled “Climatic Change and Rural Development in Egypt: Challenges for Agricultural and Veterinarian Sciences “under the supervision of DAAD- German Academic Exchange Service, German Agency for International Cooperation), German Federal Ministry of Economic Cooperation and Development (BMZ)and Georg-August-University Gottingen, Germany, that held in Conference Centre, Cairo University from the period of 15-17 December 2011.
- The attendance of workshop entitled “Professional Women in a changing Egypt” under the supervision of Economic Integration of Women-MENA

Region (Econo Win), German Agency for International Cooperation), German Ministry of Economic Cooperation and Development (BMZ), that held in Conference Centre, Cairo University from the period of 11-12 December 2011.

- Supervision of the Cessation Titled “Plan Your Future” that was held at Faculty of Vet. Med., Cairo University in the period of 2-12-2010.
- Attending the meeting of Zoonotic commutes at El-Hekma house-El Kasr eleni – Cairo- Ministry of Health in the period of 2-11-2010.
- The attendance of workshop entitled “The Financial Process for the Scientific Research Projects” under the supervision of Research Committee of Cairo University that was held in Cairo University Convention Center during the period between 22- 26 December 2009.
- Participating in training of post-graduate students in the training course of “About increasing the Performance in Poultry Farms” that was held at Department of Vet. Hygiene and Management, Faculty of Vet. Med. Cairo University in the period of 27-30 November 2006.
- Participating in the scientific session entitled "Hygienic Measures Required for Control of Avian Influenza inside Poultry Farms "organized by Society of National Development, Giza, Egypt held in February 2006.
- Participating in training of post-graduate students in the training course of “Disinfectants and Disinfection in Poultry farms and Hatcheries” that was held at Department of Vet. Hygiene and Management, Faculty of Vet. Med. Cairo University in the period of 20-22 December 2005.

- Attending the scientific session entitled "Problems of Poultry Industry in Egypt and How to overcome it". Organized by Egyptian Society for Animal Management in 16 June 2004.
- The training course entitled "Production of Recombinant Vaccines and Diagnostic Proteins" that was held at the Biotechnology Center for Services and Research (B.C.S.R) Fac. of Vet. Med. Cairo University in the period of 6 – 11 March 2004.
- Training course entitled "Polymerase Chain Reaction and its different applications" at the Biotechnology Center for Services and Research (B.C.S.R), Faculty of veterinary Medicine, Cairo University in the period from 22 to 26 February 2004.
- The first regional training course on "Fundamental application of ultrasonography in veterinary medicine" at the Department of Internal Medicine, Faculty of Veterinary, Cairo university in the period from 6th to 10th of September 2003.

E. Conference attendance:

- Attending, participating virtually 11 ANREC Annual National Research Ethics Conference that held in 13th - 16th SEPTEMBER 2021 "FOSTERING RESEARCH INTEGRITY & RESPONSIBLE CONDUCT OF RESEARCH IN UGANDA AND THE REGION"
- Attending, participating, and organizing the scientific conference of Veterinary Hygiene and Management Department, Faculty of Veterinary Medicine, Cairo University 2019.
- Participating in "5th World Conference on Climate change and Global warming" that was held during May 23-24, 2018, at New York, USA with

review article titled " Review of Heat Stroke and Its Complications in Rabbit's productivity and performance".

- Participating in the AAALAC Regional Conference, 2018 entitled " Implementation of International Research Animal Care Practices" that was held in Cairo during the period from 22 to 24 April 2018 in collaboration with Cairo University IA CUC.
- Participating in "5th World Conference on Climate change and Global warming" that was held during May 23-24, 2018, at New York, USA with review article titled " Review of Heat Stroke and Its Complications in Rabbit's productivity and performance".
- Attending the 26th national conference of Egyptian Society of Fertility and Reproduction in Animal, Ghurdaka, Cairo, and 29th January - 1st Feb. 2018.
- Attending the 7th International Conference of Veterinary Research Division "Development of Animal Wealth: Challenges and Solutions". National research center (NRC), Giza, Egypt, 5-7th December 2017.
- Participating in international scientific conference "3rd Annual Congress on Pollution and Global warming" to be held during October 16-18, 2017, in Atlanta, Georgia, USA. With poster presentation of research paper titled; Assessment of footbaths in biosecurity programme I. Antibacterial Effectiveness of Foot Baths Commonly Used in Poultry Farms".
- Participating in the 26th Scientific Conference of Egyptian Society of Animal Reproduction and Fertility that was held in the period from 2 to 6 of February 2017.

- Attending the 2nd scientific conference of Fish Hygiene and Management Department, Faculty of Veterinary Medicine, Cairo University, July 2016.
- Attending the 1st scientific conference of Zoonoses department “One Health One World”, Faculty of Veterinary Medicine, Cairo University, May 2016.
- Attending the 2nd scientific conference of Microbiology and Immunology Department, Faculty of Veterinary Medicine, Cairo University, February 2016.
- Participating in Scientific Conference of the Faculty of Veterinary Medicine, Cairo University * Hot spots in Veterinary Medicine* that was held at the Conference Center of the Cairo University in the period of February 2016.
- Participating and organization of the 1st Job Fair of the united covalent company for animal wealth development (UCEV) that was held at the Conference Center of the Cairo University in the period of November 2015.
- Participating and Organizing the Scientific Conference of the Faculty of Veterinary Medicine, Cairo University * Improvement of both scientific courses and methods of studies * that was held at the Conference Center of the Faculty in the period 15June 2015.
- Participating in the International Scientific Conference of the Pathology Department – Faculty of Veterinary Medicine, Cairo University * towards global standards in veterinary diagnostic pathology in the middle east * that was held at the Movinpic Hotel & Conference Center in the period from 25 – 26 March 2015.
- Participating in the First International Scientific Conference of the Veterinary Hygiene and Management Department – Faculty of Veterinary Medicine, Cairo

University that was held at Sokhna Hotel & Conference Center in the period of October 2014.

- Participating and Organization of the World Veterinary Day under the sponsorship of Faculty of Veterinary Medicine, Cairo University; Egyptian Veterinary Syndicate; Society for the Protection and Welfare of Donkeys and Mules in Egypt and Brooke Hospital that was held at the conference Centre of Faculty of Veterinary Medicine, Cairo University in the period of 27 April 2013.
- Participating in the First International Scientific Conference of the Pathology Department – Faculty of Veterinary Medicine, Cairo University that was held at the Sheraton Dream land Hotel & Conference Center in the period from 25 – 27 April 2013.
- Participating in the International Scientific Conference (Use of Animal Alternative in Veterinary Medicine) that was held at the Cairo University Convention Conference Center in the period from 9 - 10 March 2013.
- Participating in Conference the entitled “Financial situation of Cairo University project of accreditation in all faculties” under the supervision of Quality Assurance & Accreditation Centre that held in Conference Centre, Faculty of Vet. Med. Cairo University at 20- 3- 2012.
- Participating in the International Scientific Research Virology Department Conference (Avian flu in Egypt) that was held at the Cairo University Convention Conference Center in the period from 4 - 5 March 2012.

- Lectured a lecture titled “bio-security on fish farms” during the session of the first annual training workshop sponsored by Egyptian society of Environment and aquatic animal health (September 2011).
- Participating in 11th International Tilapia Aquaculture Symposium (ISTA 8) at the Training Center, NRC, Dokki, Egypt (August 2011).
- Participating in the first International Forum for Scientific Research Conference that was held at the Cairo University Convention Conference Center in the period from 13 till 16 of December 2010.
- 3rd Egyptian Conference of Rabbit science, Faculty of Agriculture Library, from 30-31 October 2010.
- “Bio-security in fish farms” presented at the 4th Scientific Conference of Egyptian Society for Animal Management from 25 – 28 October 2010.
- “First record of Mycobacteriosis in the Dusky grouper (*Epinephelus marginatus*) from Mediterranean coastal shores of Marsa Matrouh province, Egypt” presented at the 4th Scientific Conference of Egyptian Society for Animal Management from 25 – 28 October 2010.
- Attending the scientific session entitled "Veterinary Medicine and Human Health". Organized by Egyptian Society for Animal Management from 25 – 28 October 2010.
- “The impact of global climatic changes on the aquatic environment” was presented at Urban Environmental Pollution Conference – Overcoming Obstacles to Sustainability and Quality of Life, from 20-23 July 2010. Boston. USA.

- 6th International Conference of Rabbit Production on Hot climate from 1-4 February 2010 that held at Faculty Of agriculture, Assuit University.
- 2nd Egyptian Conference of Rabbit science, Faculty of Agriculture Library, from 29-30 October 2009.
- Second International Conference of Faculty of Veterinary Medicine, Cairo University “Current Challenges and Future Prospects of Veterinary Medicine” Hurghada 19 - 22 October 2009.
- Participating in the 5th International Scientific Research and its Application Conference that was held at the Cairo University Convention Conference Center in the period from 22 till 24 of December 2009.
- Attending the Second International Conference of Animal Wealth Research in the Middle East and North Africa” (MENA) at Cairo International Conventional Center, Egypt, 24-26 October 2009.
- Participating in the 20th Scientific Conference of Egyptian Society of Animal Reproduction and Fertility that was held in the period from 2 to 6 of February 2008.
- Attending the First International Conference of Faculty of Veterinary Medicine, Cairo University “Zoonotic Diseases and Human Health” from 24 - 27 April 2007.
- Attending the scientific Conference entitled “The role of Veterinary Medicine in the Improvement of Animal, Poultry and Fish Wealth”. Organized by Egyptian Society for Animal Management from 30 – 31 October 2006.
- "Evaluation of TS-11 strain as a live vaccine against a Virulent R- Strain of *M. Gallisepticum* for prevention and Control of *M. Gallisepticum* in chicken" presented at the 18th Scientific Conference of Egyptian Society of Animal

Reproduction and Fertility that was held in the period from 29th of January till 1st of February 2006.

- “The effect of different types of litter material on broiler's performance” presented at the” First Scientific Conference of Egyptian Society of Experimental Biology” in collaboration with Faculty of Agriculture, Tanta University, Egypt in 26th of November 2005.
- The Eighth Scientific Conference of Faculty of Vet. Med., Cairo University in the period from 17-19 April 2005.

V. RESEARCH and SCIENTIFIC ACTIVITIES

1. Research Interest

General	Specific research field
Animal, poultry, aquatic, and environmental hygiene	<ul style="list-style-type: none"> - Aquatic ecosystem, biodiversity, aquaculture hygiene and management. - Ecotoxicology and biosafety. - Water quality, treatment and recycling. - Testing of microbicidal effectiveness of natural and synthetic compounds. - Biosecurity, Food safety and the safe production of safe animal, poultry, fish, beside their products. - Role of Wild life in disease spread among different environment niches. - Lowering contamination levels of mycotoxins and their uptake through food chain.

2. Projects

- Researcher at a 300 K – 18 months duration funded research project “The national disaster of marine fish mass mortalities: possible etiologies and proposed control strategies”. The project started at 2020. The project funded by the Science and Technology Fund Sector at Cairo University, Egypt.
- Researcher at a 300 K – 18 months duration funded research project “Cyanobacteria additives are promising tool to improve poultry production”. The project started at 2019. The project funded by the Science and Technology Fund Sector at Cairo University, Egypt.
- Researcher at a 260 K – 18 months duration funded research project “Epidemiological Studies on Isopod infestation among marine fishes in Egypt with preliminary control and prevention trials”. The project started at February 2017. The project funded by the Science and Technology Fund Sector at Cairo University, Egypt.
- Researcher at a 200 K – 18 months duration funded research project “Investigating the roles played by shrimp, freshwater crayfish and fish in the spread of Avian Influenza H5N1 under the Egyptian Territory”. The project started at February 2010. The project funded by the Science and Technology Fund Sector at Cairo University, Egypt.

3. Publications

- Mohamed I. El Sabry, Saber S. A. Hassan, **Manal M. Zaki**, Farid K. R. Stino 2021. Stocking density: a clue for improving behavior, welfare,

health, and productivity of quail (*Coturnix coturnix*) - Mini review. Tropical Animal Health and Production. In press.

- Mohamed I. El Sabry, **Manal M. Zaki**, Fatma A. Elgohary, and Mostafa Helal. 2021. Sustainable rabbit production strategies under the hot conditions in the southern Mediterranean region. WVJ Journal. In press.
- Hanan S. Khalefa, Dalia Ashraf, Elshaimaa Ismael, Mahmoud M. F. Waziry, Mennaallah S. G. Ali, **Manal M. Zaki**. 2021. The effect of alterations in water quality parameters on the occurrence of bacterial diseases in different aquatic environments". *Advances in Animal and Veterinary Sciences*.
- Eman M. Ismail; Mona Kadry; Esraa A. Elshafiee; Eman Ragab; Eman A. Morsy; Omar Rizk; **Manal M. Zaki**. Ecoepidemiology and potential transmission of *Vibrio cholerae* among different environmental niches: an upcoming threat in Egypt. *Pathogens* (ISSN 2076-0817) on 05 February 2021.
- Hamdy M.B.A. Zaki, **Manal M. Zaki**, Mahmoud M.M. Abdulla, Eman F. Abdel-Latif. 2021. Evaluation of Fatty Acid Indices and Fatty Acid Content Including Trans Fat of Different Fried Food Types Using Gas-Liquid Chromatography Technique. *Advances in Animal and Veterinary Sciences*. 9(6):887-894.
DOI <http://dx.doi.org/10.17582/journal.aavs/2021/9.6.887.894> ISSN (Online) | 2307-8316; ISSN (Print) | 2309-3331.
- Samah Elsaid Laban, Mohamed M. Mashaly, Aly Mahrous Aly, Nouran Essam Maher, **Manal M. Zaki**. Evaluation of Different Hygienic Practices in Slaughterhouses and its effect on Beef Meat Quality. *Journal of Advanced and Veterinary Science*. 2021.

- Hanan Saad, Elshaimaa Ismael, Dalia Ashraf, Mahmoud M. F. Waziry, Mennaallah S. G. Ali, **Manal M. Zaki**. Effect of alterations in water quality parameters on evoking of bacterial diseases in aquatic environment. Environmental Sustainability and Climate Change Conference that held during November 09-10, 2020.
- Fady Samir, Rania F. El Naggar, Mohamed M. Hamoud, **Manal M. Zaki**, Abdulrhman M. Gamal, Samah E. Laban, Shaimaa A. Nasr, ElShaimaa Ismael , Osama K. Zahran. Persistence of Newcastle Disease Virus Genotype II and Shedded Genotype VII in Poultry Farm Environment. Hosts and Viruses, 2019; 5(3): 26-34.
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- Assessment of footbaths in biosecurity programme I. Antibacterial Effectiveness of Foot Baths Commonly Used in Poultry Farms”. Abdulrahman M. Gamal, Iman Ismael, Elshaimaa Ismael, Samah Elsaid, **Manal M. Zaki**, Osama K. Zahran. “3rd Annual Congress on Pollution and Global warming” to be held during October 16-18, 2017, in Atlanta, Georgia, USA.
- Rania E. Morsi ' Ahmed M. Alsabagh, Shimaa A. Nasr, **Manal M. Zaki**. 2017. Multifunctional Nanocomposites of Chitosan, Silver Nanoparticles, Copper Nanoparticles and Carbon Nanotubes for Water Treatment: Antimicrobial Characteristics. *International Journal of Biological Macromolecules* 97 (2017) 264–269.
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