

## Curriculum Vitae

### Prof. Dr. Mohamed Abd El- Hameed Shalaby

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<b>Nationality</b>	: Egyptian
<b>Marital Status</b>	: Married
<b>Date of birth</b>	: March 5, 1943
<b>Place of birth</b>	: Aga, Dakahlya, Egypt.

#### **EDUCATION:**

- 1- Bachelor of Veterinary Medicine and Surgery, Cairo University (1967).
- 2- Doctorate in Veterinary Medicine; DVM (Virology), Cairo University (1972).
- 3- C.E.S. (Immunology), Faculty of Medicine, Vale De Marne University, France (1977).

#### **EMPLOYMENT HISTORY:** **(Post held and duration)**

- 1967-1968: Teaching assistant of zoonosis, High institute of public Health, Alexandria University.
- 1968-1972: Demonstrator of Virology, Dept. Microbiology, Faculty of Veterinary Medicine (FVM), Cairo University.
- 1972-1973: Assistant lecturer of Virology, Dept. Microbiology, FVM, Cairo University.
- 1973-1977: Lecturer of virology, Dept. Microbiology, FVM, Cairo University.
- 1977-1982: Associate professor of Virology and Immunology, Dept. Microbiology, FVM, Cairo University.

- 1981-1987: Professor of Virology, College of Veterinary Medicine and Animal Resources (CVMAR), King Faisal University, Saudi Arabia.
- 1982-Present: Professor of Virology and Immunology, Dept. Microbiology, FVM, Cairo University.
- 1983-1986: Head of Microbiology Department, King Faisal University, Saudi Arabia.
- 1989-1997: Director of Center for Analysis and Applied Studies (CAAS), FVM, Cairo University.

*Responsibilities and Achievements as CAAS director:*

- a) Participation in solving field problems through onsite investigation and Laboratory diagnosis of livestock and poultry diseases.
- B) Organizing 16 workshops and seminars in topics of veterinary importance including: eight concerned with major problems facing poultry industry in Egypt, three concerned with animal and poultry management, and the rest focused on diagnostic microbiology and virology approaches with emphasis on the recent Biotechnology-based techniques like PCR and hybridization. Beside the Egyptian trainees, candidates from Syria, Yemen, Tunisia, Lebanon, Jordan and Palestine shared in these training programs.

1997-2003: Chairman of Virology Dept., FVM, Cairo University.

*Achievements as Virology Dept. head:*

- a) Re-establishing the department laboratories (Research – Teaching) through funds from the Academy of Science and Technology, and the Cairo University.
- B) Acquisition of three research projects that improved the scientific, technical and personal capabilities in the department.
- C) Organizing four international workshops in molecular epidemiology and diagnosis of viral diseases.
- D) Establishment of novel systems in the department including hyperidoma technology and baculovirus vector expression system.

1997-2003: Technical consultant of United Biopharm company for marketing veterinary drugs, vaccines and diagnostics (Through this work, I gained experience in dealing with the growing private sector in animal industry, vaccine production, quality control, registration, and production/standardization of diagnostics).

2003-Present: Professor Emeritus, Virology Dept., FVM, Cairo University.

### **ACADEMIC ACTIVITIES:**

- 1- Carried the teaching responsibilities of virology and immunology courses for under graduate students at:
  - Faculty of Veterinary Medicine, Cairo University (1972-1980 and 1987-Present)
  - College of Veterinary Medicine and Animal Resources, King Faisal University, Saudi Arabia (1981-1986).
- 2- Carried the teaching responsibilities of advanced courses in the areas of virology and immunology for postgraduate students at:
  - Faculty of Veterinary Medicine, Cairo University (1972-1980 and 1987-Present)
  - College of Veterinary Medicine and Animal Resources, King Faisal University, Saudi Arabia (1981-1986).
  - Faculty of Veterinary Medicine, Suez Canal University.
  - Faculty of Veterinary Medicine, Beni Suief University.
- 3- Supervised 120 PhD and Master Thesis in the different fields of virology and immunology(e.g. diagnostic virology, viral immunology, viral vaccines, virus diagnosis and molecular virology).
- 4- Prepared the “Manual of Basic and Applied Immunology” for veterinary, medical, and biological science students.
- 5- Participated in the preparation of “Veterinary Microbiology Handbook” (1979-1980).
- 6- Prepared the “Laboratory Manual of Diagnostic Virology” for postgraduate students in veterinary and biomedical sciences (1990-1991).
- 7- Participated in the preparation of “Laboratory Manual of Virology” for students of Faculty of Veterinary Medicine, Cairo University (Two editions 1997 and 2003).
- 8- Participated in the preparation of “Notes on Special Virology” for students of Faculty of Veterinary Medicine, Cairo University (2005).

### **SCIENTIFIC AND SCHOLARY ACTIVITIES**

- 1976-1977: Research fellow, National School of Veterinary Medicine, Maisons Alford-France, and Faculty of Medicine, Paris (CES in Immunology).
- 1978-1979: Research fellow Alexander Von-Humboldt Foundation, Microbiology Dept., University of Munich, Germany (Research on parapox viruses).
- Sept.1979: International symposium on Human and Animal Influenza, Paris, France (Presentation on isolation of Influenza virus from migratory birds in Egypt).

- March 1980: Egyptian-Germany seminar on mortalities in newly born calves, Cairo and Assuit University (Presentation on Rotavirus infection in newly born calves in Egypt).
- Dec. 1980: Second International Conference on the effect of the important viral diseases on the development African and Middle East countries at Nairobi, Kenya (Two presentations on Newcastle disease virus and Rift valley fever viruses).
- April 1981: Training course on the uses of Electron Microscope in the study of viral disease of Medical importance at Electron Microscopy Unit, Ain-Shams University, and Cairo.
- Nov. 1982: Second meeting of Alexander Von-Humboldt Foundation for Humboldt fellows of the Middle East countries at Cairo, Egypt.
- Oct. 1983: Prepared a study on some zoonotic viral diseases with special reference to influenza, foot, Mouth Disease, and Newcastle disease viruses, as per request of the Federation of Arabic Scientific Research councils, Baghdad, Iraq. The study was presented at the First symposium on zoonotic diseases between man and animals in Rabat, Morocco.
- 1983: Meeting on standardization of Veterinary vaccines and Drugs, Secretary general of Arabic Gulf countries, Riyadh, Saudi Arabia.
- Jan. 1987: Senior researcher in the Egyptian-U.S. Cooperative program on Animal Disease of mutual interest.
- May 1991: Third International Buffalo congress, Varna, Bulgaria (Presentation on BVD and its immuno-suppressive effect on Buffalo immune system).
- July-Aug. 1991: Visiting professor at Puylab, poultry diagnostic Lab., Washington state University through the channel system financed by NARP.
- July 1991: The medical Association conference, Seattle, USA.
- Sep. 1991 – March 1992: Fulbright scholarship at Dept. Veterinary pathobiology, Texas A&M University, Texas, USA. During this period, I worked with Prof. Ian Tizard on immnostimulants and their mechanism of action and potential on disease resistance. In addition, I presented two lectures in Aims Iowa and Michigan Universities.
- Oct–Nov. 1991: USA Animal Health Research Meeting, San Diego, California, USA (Presentation on *corynebacterium cutis* as immunostimulant in cattle).
- Jan. 1992: South Eastern Meeting of Poultry and Egg. Association, Atlanta, Georgia, USA.
- Feb. 1992: Visiting professor at College of Veterinary Medicine, Ames Iowa University, Avian diseases laboratory, USDA, Michigan, USA, and Faculty of Veterinary Medicine, Montreal University Quebec, Canada.

- Sept-Nov. 1993: Visiting professor at Faculty of Veterinary Medicine, Montreal University to establish a channel system with Cairo university in biotechnology research on BVD vaccines and diagnosis of Rota viruses.
- Nov.1995: Workshop on the Molecular Diagnosis of Animal Viruses organized by Montreal University and Royal institute of Morocco.
- June 1996: All-Holland Dairy show through an invitation from Europon genes Co.
- Nov. 1996: Winter Dairy Show in Canada.
- Nov. 1996: Official visit to Semex Co., Canada, Artificial insemination centers at Agriculture Canada Dept.,and ILMS (International Livestock Management School).
- Nov-Dec. 1997: Invited speaker by Pfizer, USA to deliver Lectures on respiratory and enteric viral diseases of Cattle at Riyadh and Hufuf, Saudi Arabia.
- Jan. 1998: The 50<sup>th</sup>International poultry exhibition, Georgia, USA.
- Sept. 1998: Annual meeting of the American Animal Health Association.
- Sept-Oct. 1998: Official visit to Dept. of Veterinary Medicine, South Dakota state university, USA for cooperation on Molecular diagnosis of BVDV.
- Dec. 1998: Workshop on Molecular diagnosis and epidemiology of viral diseases (BVD) in collaboration with School of Veterinary Medicine, Hanover, Germany (Organizer and chairman).
- Feb. 1999: Invited speaker and consultant to deliver a series of lectures on vaccines, Failure of vaccination and virus's impact livestock production, and to investigate some problem facing Dairy and sheep farms in Saudi Arabia.
- Aug-Sep. 2000: Fellowship at the Institute of Virology, School of Veterinary Medicine, Hanover, Germany (funded by Alexander Von-Humboldt Foundation) for cloning and sequencing of BVDV isolated from buffaloes in Egypt.
- March2001: Official visit to the Ministry of Agriculture and Animal Resources, United Arab Emirates to consult establishment of vaccination and control program for infectious livestock viral diseases.
- March 2001: The 6<sup>th</sup>Annual Conference of the Egyptian Association of Immunologists.
- Nov. 2001: The 6<sup>th</sup> annual conference for animal production under arid conditions, UAE University, Al-Ain, UAE (Presentation on bovine ephemeral fever in camels).
- Jan-Feb. 2002: Chairman of the poultry vaccines session at the XII the International congress of World Veterinary Poultry Association, Cairo, Egypt (Presentation on biotechnology and development of viral vaccines).
- April 2002: Invited speaker by Vitoquinol Company for pharmaceutical and vaccines to deliver lectures on Modern Vaccines in Veterinary Medicine for veterinarians in UAE.

- Oct. 2002: The 7<sup>th</sup> scientific conference of Faculty of Veterinary Medicine, Cairo University (Keynote lecture on preparation of subunit vaccine for Rota and Corona Viruses using the Baculovirus System).
- Jan. 2003: Invited speaker to deliver a series of lectures on immunostimulants and their uses in veterinary medicine at the Dept. of Animal Wealth, Ministry of Agriculture, and UAE.
- Dec. 2003: Workshop on “Genetic engineering and genomics application” at Mubarak City for Scientific Research and Technology (Sponsored by the Academy of Science “US-Egypt partnership” Science and Technology agreement).
- April, 2004: Biovision Alexandria, Bibliotheca of Alexandria (future of biotechnology for developed and developing countries).
- July-Sep. 2004: Fellowship at the Institute of Virology, Faculty of Veterinary Medicine, Free university of Berlin, Germany (funded by Alexander von Humboldt foundation) for isolation and characterization of Borna disease virus from Arabian horses using ELISA and PCR assays.
- May 2005: First National Conference for Development of the scientific researches in Egypt (Sponsored by the Academy of Science and Technology, and Ministry of Higher Education).
- Dec. 2005: The second International conference of Scientific Research and its Application, Cairo University.
- June, 2006: The 4<sup>th</sup> International Veterinary Vaccines and Diagnostics Conference, Oslo, Norway (Two poster presentations on recombinant vaccines of rota and corona viruses).
- Nov-Dec. 2006: The 11<sup>th</sup> Annual Conference of the Egyptian Association of Immunologists, Sharm El-Sheikh, Egypt.
- March 2007: The Avian influenza Vaccine conference, Verona, Italy.
- Nov. 2008: The 11<sup>th</sup> conference of the Egyptian Association of Immunologists (Keynote lecture on activation and programming of adaptive immune responses by vaccine adjuvant).
- Oct-Dec. 2009: Fellowship at the Institute of Virology, University of Göttingen, Germany (funded by Alexander von Humboldt foundation) for epitope mapping of HBV using microarray technology.
- Nov. 2009: Training course on: GP MolBio Methods Course- DNA microarray Core Facility. Organized by Dept. of Biochemistry, Faculty of Medicine, University of Göttingen, Germany.

- Nov.2009: Invited speaker at the institute of Virology, University of Goettingen,Germany to present a lecture on: molecular considerations in the diagnosis of RVFV – Genetic fingerprinting of RVFV master seed.
- May2010: The 6<sup>th</sup>Annual Advances in Microarray technology conference, Dublin, Ireland.
- Nov. 2010: General Secretary of the 3<sup>rd</sup>international conference of the Egyptian Society of Virology, Cairo, Egypt (85 presentations and 4 keynote lectures).
- Dec. 2010: The 3<sup>rd</sup>scientific conference of Cairo University (Keynote lecture on exotic Arthropod born viral infection with special emphasis on Rift valley fever virus).
- Sept-Nov.2011: Fellowship at the Institute of Virology, University of Göttingen, Germany (funded by Alexander von Humboldt foundation) for developing a rapid system for detection of Foot and Mouth Disease Virus using recombinase polymerase amplification (RPA).
- Nov.2012: General Secretary of the 4<sup>th</sup>international conference of the Egyptian Society of Virology, Sharm El Sheikh, Egypt (81 presentations and 3 keynote lectures).
- July 2013: Official visit to the Institute of Virology, University of Goettingen, Germany to follow up the bilateral project, and to arrange for the field trip to apply the technique on site in two quarantine stations in Egypt.
- March2014: Field trip with the German counterpart to Hurghada and Safaga quarantine stations to apply the RPA technology on imported cattle.
- Dec.2014: Chairman of the 5<sup>th</sup> international conference of the Egyptian Society of Virology, Hurgada, Egypt (68 presentations and 7 keynote lectures).
- March 2015: The 25<sup>th</sup> Annual Meeting of the German Society for Virology (Poster presentation on Establishment of mobile laboratory for detection of foot and mouth disease virus and its use in the Egyptian desert).
- Sept. 2016: The 1<sup>st</sup>AITVM-STVM Conference on Tropical Animal Diseases and Veterinary Public Health, Berlin, Germany (Poster presentation on Field deployable rapid assay for the identification of the hemagglutinin gene of the H9N2 avian influenza virus).
- Nov-Dec. 2016: Chairman of the 6<sup>th</sup> international conference of the Egyptian Society of Virology, Hurgada, Egypt (74 presentations and 6 keynote lectures).
- August-end of October,2017: obtained a renewal fellowship from Alexander von Humboldt Foundation (Germany) as Guest Professor To Do A work research on: Improving the mobile diagnostic facilities at the department of Virology, Faculty of Veterinary Medicine, Cairo university, Egypt. And Goettingen University,Germany.
- September,16-27,2018,organiezed the first summer school with Cairo University and university of goettingen ,Germany and DAAD, Cairo, where we trained 24 pHd student from Africa ( Egypt, Sudan, Ethiopia, Nigeria, Ghana),Germany ,Italy

,Bengladesh and sri Lanka , our target to train the graduate students on imported and neglected infectious diseases: Joint research forces to fight global problems.

- September,16-20 attend the European Congress on Tropical and International Health in Liverpool, United Kingdom.
- November19-21,2019 attend and participate in Cairo Science Forum: Science Diplomacy and Recent Developments in Biology,Cairo ,Academy of Sciences I Gave a presentation on, Rabies: The need to establish a control strategy in Africa
- February,2020,Organized the First Consortium on Eradication and control of Rabies virus from Egypt with corporation of Cairo university ,WHO ,FAO and GOVS, AHRI, And Serum and Vaccine research Institute MOA
- November 25th,2020,Lead the first online symposiumon:COVID-19 pandemic: Current research and role of international collaboration, organized by the Egyptian Society of virology and University of Leipzig, Germany
- December 7th, 2021, Lead the seconded on line symposium: Update on COVID-19 Pandemic, organized by the Egyptian society of virology.(Topics of epidemiology. Genome ,vaccines and new methods for diagnosis have discussed)

#### **RESEARCH GRANTS:**

- 1- **Team member** of the Egyptian-American Project entitled **“environmental factors influencing the immune response of poultry”**(1987). The project aided in the development of a modern immunology laboratory at Microbiology Dept., Faculty of Veterinary Medicine, Cairo University.
- 2- **Team member** of the PL-480 Project of Egypt-US Cooperative program on Animal diseases of mutual interest. **The project aided in establishing the first modern and well-equipped virology laboratory at Virology Dept., Faculty of Veterinary Medicine, Cairo University.**(1987).
- 3- **Principle investigator** of the project entitled **“Neonatal Mortalities among newly born calves and lambs”** under MERC (Middle East Research Cooperation) of USAID (1997-2001); Budget 150,000 \$.
- 4- **Principle Investigator** of the project entitled **“The use of monoclonal antibodies and genetic engineered-proteins in the diagnosis and production of diagnostic Kits to infectious bronchitis and reovirus infection in chickens”**Funded by the Egyptian Academy of Science and Technology (1998-2002); Budget 100,000 \$.



- 5- **Co-Principle Investigator** of the project entitled **“Preparation Of TK<sup>-</sup>capripox virus recombinant vaccine expressing different immunizing proteins of bovine viral diarrhea virus to be used for immunization of cattle, sheep, goats and buffaloes against capripox Virus and pestivirus Infection”**Funded the Egyptian Academy of Science and Technology(1998-2003); Budget 300,000 \$.
- 6- **Principle investigator** of the project entitled **“Production of a combined engineered bovine rotavirus/corona virus subunit vaccine ”** Funded the Egyptian Academy of Science and Technology(2001-2006); Budget 200,000 \$.
- 7- **Principal Investigator** of the bilateral project entitled: **"Application of mobile recombinase polymerase amplification (RPA) for the rapid diagnosis of relevant viruses in veterinary medicine"** between Faculty of Veterinary Medicine, Cairo University and Institute of Virology, University of Goettingen. Germany. Funded by Alexander Von Humboldt foundation, Germany (2012-2014); Budget 65,000 Euros.
- 8-**Principal investigator** of the project entitled: **Development of a competitive internal positive control (CIPC) to improve the Avian H5N1influenza virus rapid detection molecularassay.** Funded by Cairo University(150.000 LE) from the period of April,2017 till first of May 2018.
- 9-**Principal investigator** of the RESEARCH GROUP LINKAGE:

**Implementation of portable sequencing technology for the rapid identification of respiratory viruses in poultry**

Between University of Leipzig-Germany and Cairo University, financed by Alexander von Humboldt Foundation with total 55,000 Euros. Starting from January 2022 until December 2023.

**MEMBERSHIP OF SCIENTIFIC COMMITTEES**

- 1- World Association of VeterinaryMedical Microbiologists, Immunologists and infectious diseases, Paris, France (Member; 1977-1979).
- 2- American Veterinary Association (Member; 1983-1990).
- 3- Egyptian Veterinary Medical Association (Member; since 1986).
- 4- Egyptian Association of Immunologists (Member of directory board; since 1992).
- 5- American Association of Veterinary Laboratory Diagnosticians (Member; since 1998).
- 6- Egyptian Association of Veterinary Epidemiology (Member; since 2009).

7- Egyptian Society of Virology (President; since 2013).

#### **MEMBERSHIP OF NATIONAL COMMITTEES**

- 1- Supreme Committee of Disease Control Policies, Ministry of Agriculture, Egypt.
- 2- Committee for National Encouraging Awards in Biology and Veterinary Medicine.
- 3- National Committee for Promotion of University Staff – Microbiology, Supreme council of Egyptian universities.
- 4- Committee for the Promotion of Scientific Staff at Animal Health Institute, Agriculture Research Center, Ministry of Agriculture, Egypt.
- 5- National Committee of biological Sciences, Academy of Science. Since 2014.

#### **Prizes:**

- 2002: State Encouragement Prize in Agriculture Sciences (Veterinary Medicine) from the Egyptian Academy of Science and Technology, Ministry of Higher Education and Scientific Research.
- 2006: Cairo University Merit Prize in Basic sciences (Virology and Immunology).