

Curriculum Vitae



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NATIONALITY : Egyptian.
DATE OF BIRTH : AGUST 3, 1951.
MARITAL STATUS : Married.

ACADEMIC Status :

1) B.V. Medicine and Surgery, June 1975; Fact. Vet. Med., Cairo University; Total Judgment "Very Good".

2) M.V.Sc., Fact. Vet. Med., Cairo Univ. Title of Master Thesis: "Studies on Rift Valley Fever Virus".

3) Doctor Med. Vet. From the Veterinary University of Hannover, Germany, with total Predicate: "Very Good"; Title of Doctor Thesis: "Die verwandtshaft ausgewaehlter Influenzaviren von Tier und Mensch" "The Relationship of Some Selected Influenza Viruses of Animal and Man".

WORKING EXPERIENCE :

- 1976-1979** : Demonstrator of Microbiology in the Dept. of Microbiology, Fact. Vet. Med., Cairo Univ.
- 1979-1980** : Promoted to teaching assistant of Virology, Dept. of Microbiology, Fact. Vet. Med., Cairo University.
- 1980-1985** : DAAD Candidate for doing Doctor work in Germany (Hanover and Hamburg).
- 1985-1990** : Lecturer of Virology and Immunology in the Dept. of Microbiology, Fact. Vet. Med., Cairo University.
- November 1990** : Assistant Professor of Microbiology (Virology) in the Same Department.
- 1991-1993** : Teacher of molecular biology topics at the Egyptian Medical Military Academy and supervised Master Thesis on Molecular Biology which was awarded there in 1993.
- November 1995**: Professor of Virology, Dept. of Virology, Fact. Vet. Med., Cairo University.
- 1994-2003** : Seconded to the Animal Health Department at the Public Authority for Agricultural Affairs and Fish Resources (PAAFR), State of Kuwait for work as virology specialist. Teacher in the Institute for Veterinary Assistants at the Public Authority for Applied Education, State of Kuwait.
- Aug. 2003 to October 2008** : Assigned to a job: Chairman of the Department of Virology, Fact. Vet. Med., Cairo University.
- First Nov. 2008** : Promoted to a Job as Vice Dean for Postgraduate Studies & Research to 3rd of August 2011

MEMBERSHIPS IN SCIENTIFIC SOCIETIES and Associations:

- 1) Member of the Egyptian Veterinary Medical Association, Cairo, Egypt, from 1975 till now.**
- 2) Member of Egypt Veterinary Syndicate.**
- 3) The American Association of Veterinary Laboratory Diagnosticians, 1993.**
- 4) Member of the Supreme Scientific Board for Zoonotic Diseases at the Ministry of Public Health, State of Kuwait, from 1995 to end of June 2003.**
- 5) Member of the Egyptian Association of Immunologists since September 2003.**
- 6) Member of the Editorial Board of the Egyptian Society of Virology (ESV) since 2004.**
- 7) Member of the Higher National Scientific Council, Egypt for control of Avian Influenza since 2005.**

Academic Work and Other Activities:

- 1) Taught the Virology and Immunology courses for the undergraduate students of Veterinary Medicine.**
- 2) Teaching responsibility for postgraduate students in Virology and Immunology in both Egyptian Veterinary and Medical Faculties.**
- 3) Prepared a laboratory Manual titled: Basic Exercises in Veterinary Virology. This manual was mainly for training courses in Vet. Virology for postgraduate students (1986).**
- 4) Shared in preparing a Manual of "Diagnostic Virology" for postgraduate students in Vet. and other biomedical studies (1990) .**

5) Participated as a senior investigator in joined American-Egyptian Project "216" on Rinderpest and allied diseases from October 1985 to October, 1990.

6) Participated also in the American-Egyptian Research Project (CAV MI 354 AN 03) on "The Effect of Specified Environmental Factors on the Immune System of Chickens" from October, 1988 till 1993 (Principal Investigator is Prof. Dr. Imail M. Reda) .

7) Peace Fellowship member in the Food Animal Health Research programme (FAHRP) in Ohio, Wooster, USA, and did some work on the production and characterization of Monoclonal Antibodies to different Bovine Coronaviruses, at the period from 10 th of September to 29th of January , 1990.

8) Did some cooperative investigation on the subcloning of VP1 gene of Food & Mouth Disease (FMD) virus in Plasmids (pBR 322 and pGEM) and used it as positive for the polymerase Chain Reaction (PCR), Kimron Veterinary Institute, Beit Degan, Israel 1990.

9) Did 7 months research programme at the University of Florida (from 9th of July 1993 to end of January, 1994) on the cloning and high level expression of msp1 α gene of *Anaplasma marginal* using PET-9a Vector. This mission has been executed within the frame of the New Initiative Component of National Agricultural Research Project (NARP), under project title: "*Control of Anaplasmosis and Babesiosis in Egypt Through Biotechnology*".

10) Prepared a study and manual on "*Strategic Plan for Controlling Microbiological Factors Affecting Quality of Animal Products in the State of Kuwait*". This study had been conducted in 1994-1995 in favor of the Animal Wealth Development Project in cooperation with the Kuwait Institute for Scientific Research (KISR) and sponsored by the Kuwait Foundation for the Advancement of Science (KFAS).

11) Represented State of Kuwait in the Regional Conference on "*Support for Rinderpest Surveillance in West Asia*" which was held in Sanaa, Yemen in 1998. This mission was in favor of the Joint FAO/IAEA collaboration programme for Global Rinderpest Eradication and within the frame of the Model Regional Project No. RAW/5/004.

12) Participated in the Organizing and Scientific Committees for the "*International Conference on Veterinary Medicine and Human*

Health in the 21st Century which was held in the State of Kuwait, October 19-21, 1998.

13) Presented lectures on some special topics like:

- a. ***"Role of Laboratory Services in Animal Disease Surveillance"***. This lecture has been given during a workshop on Animal Diseases held in the State of Kuwait in 1996 within the context of RADISCON "Regional Animal Disease Surveillance and Control Network" programme.
- b. ***"Foot and Mouth Disease, a Threatening Disease To Dairy Cattle in the State of Kuwait"***, Feb. 2001.
- c. ***"Epidemiology of Haemorrhagic Fevers in Animals"***, July 2002 in collaboration with the Supreme Scientific Board of Zoonotic Diseases, Ministry of Public Health, State of Kuwait.
- d. ***"Mad Cow Disease: A Newly Emerging Pathogen Threatening Human and Animal Health"***, it was a comprehensive lecture on Transmissible Spongiform Encephalopathy (TSE) given during leave-taking ceremony in the State of Kuwait, June 2003.
- e. ***"Rift Valley Fever: A Continuously Emerging Hazard Threatening Human and Animal Life"***, a lecture which was held at the National Research Center (NRC) on the 9th of September 2003, Egypt.
- f. ***"Avian Influenza: A Potential Threat To Human Health"***, a lecture which has been presented in the State of Kuwait, at the Public Authority for Agricultural Affairs and Fish Resources (PAAFR) , 21st of Feb. 2004. Same Lecture was given in a seminar on Avian Influenza held at the NRC, on the 10th of March 2004, Egypt.
- g. Scientific Consultancy to EgyVet – VACSERA, Ministry of Health & Population since November 2007.

Important Prizes and Certificates:

- 1. I have been awarded the National Encouraging Prize (of Prof. Dr. Sabban Virus Diseases Prize) for year 1992, from the Egyptian Academy of Science and Technology, Ministry of Higher Education and Scientific Research.**
- 2. Certificate of attendance of Course in "BASIC RADIATION SAFETY" for use of Radionuclides at the University of Florida, in August 1993.**
- 3. Certificate of attendance and completion of a practical training programme in "*Molecular Biology of Infectious Diseases*" accomplished at the University of Florida from July, 1993 to January, 1994.**
- 4. Certificate in RISK ANALYSIS for attending a two-week training programme in "*Risk Analysis for Animal Health*", Kuwait – April-May 2002.**

University Scholars List of Publication

Dr. Ahmed Abd El-Ghani El-Sanousi
Professor, Dept. of Virology, Faculty of Veterinary Medicine,
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N Yehia, F Eldemery, AS Arafa, A Abd El Wahed, Ahmed A. El Sanousi,
Reverse Transcription Recombinase Polymerase Amplification Assay for
Rapid Detection of Avian Influenza Virus H9N2 HA Gene. *Veterinary Sciences* 8 (7),
134, 2021.

OY Abido, MM Abotaleb, N Yehia, AH El-Deeb, AM Amer, Ahmed A. El-Sanousi
Protective efficacy of an inactivated vaccine against rabbit hemorrhagic
disease virus 2 prepared from a local isolate in Egypt. *VacciMonitor* 29 (3), 143-150, 2020

A Shawky, BM Ahmed, HM El-Makaky, Ahmed A. El-Sanousi
A matching multivalent vaccine candidate combining velogenic ndv
genotype vii and variant ibv protects chicken from virulent challenge and
eliminates virus shedding. *Adv. Anim. Vet. Sci* 8 (12), 1380-1387, 1 2020

**RAA Zaid, SS El-Mahdy, NA Sherif, SA Nassif, AA Mourad, HA Hussein, Ahmed
A. El-Sanousi**
Assessment of vector HVT-F vaccine in one-day-old chicks using different
vaccination programs and quantification of genome load in feathers and
immune organs. *International Journal of Veterinary Science* 9 (2), 182-188, 1 2020

DS Ibrahim, AA Elsanousi, AHE Deeb, A Arafa, AA Selim
Effect of avian influenza (Subtype H9N2) on the pathogenesis and
virulence of velogenic Newcastle disease virus in chicken under experimental
co-infection. *International Journal of Veterinary Science* 9 (1), 136-140, 2020

WA El-Fatah, BM Ahmed, MAA El-Khaleck, Ahmed A. El-Sanousi
Improved bivalent live and inactivated clone 30 and infectious bronchitis
virus vaccine. *International Journal of Veterinary Science* 9 (1), 50-57, 2020.

Radwan, M. M., A. H. El-Deeb, M. R. Mousa, A. A. El-Sanousi, and M. A. Shalaby,
"First report of fowl adenovirus 8a from commercial broiler chickens in Egypt: molecular
characterization and pathogenicity", *Poultry science*, vol. 98, issue 1: Poultry Science
Association, Inc., pp. 97-104, 2019.

Mansour, O. N. O., N. Hagag, M. A. E. H. Shahein, S. S. A. Hassan, A. A. El-Sanousi, and M. A. Shalaby, "Further Studies on MERS-Coronavirus in imported and local breeds of camels in Egypt", *Journal of Virological Sciences*, vol. 5, issue 1, pp. 35-45, 2019.

Walaa, A. E. - F., B. M. Ahmed, M. A. A. El-Khaleck, and A. A. El-Sanousi, "Improved Bivalent Live and Inactivated Clone 30 and Infectious Bronchitis Virus Vaccine", *Inter J Vet Sci: MEHRIA International Publisher*, pp. 1-8, 2019.

Bassam, R. H., H. A. Hussein, M. M. Amer, B. M. Ahmed, and A. A. El-Sanousi, "Molecular Characterization of VAR2 among IBV Infected poultry in Lebanon", *Journal of Virological Sciences*, vol. 5: ScopeMed, pp. 114- 123, 2019.

Ahmed, M. M. E., R. Soliman, J. E. Jakee, A. A. El-Sanousi, H. Amer, I. El-Sabagh, R. El-Redii, H. Talima, and W. Nazmy, "Preparation of Hybridomas Producing Monoclonal Antibodies against Aflatoxin B1 as a Tool to Control Hepatocellular Carcinoma", *International Journal of Pharmacology, Phytochemistry and Ethnomedicine*, vol. 13: SciPress Ltd, Switzerland, pp. 1-12, 2019.

Bassam, R. H., H. A. Hussein, M. M. Amer, and A. A. El-Sanousi, "Serosurveillance and Molecular Characterization of H9N2 Avian Influenza Virus in Lebanon", *Journal of Virological Sciences*, vol. 5: ScopeMed, pp. 124- 133, 2019.

Riham H. Bassam, Hussein A. Hussein, M. A. A. E. - S. M. A., "Serosurveillance and Molecular Characterization of H9N2 Avian Influenza Virus in Lebanon", *Journal of Virological Sciences*, vol. 5: pp. 124- 133, 2019.

Sayed, H., M. S. Madkour, H. A. Hussein, and A. A. El-Sanousi, "Shedding pattern of classical and variant strain of IB challenge virus in SPF and commercial layer vaccinated chicken with trivalent vaccine containing H9N2 AI, LaSota, classical M41 and var 2 IB viruses at 1, 3 and 7 months post vaccination", *Journal of Virological Sciences*, vol. 6, issue 1, pp. 39-45, 2019.

Aly, S. E., H. A. Hussein, A. M. Aly, M. H. Abdel-Baky, and A. A. El-Sanousi, *Assessment of in vitro potency of inactivated Newcastle disease oil-adjuvanted vaccines using hemagglutination test and blocking ELISA*, *Veterinary World*, 11 (9): 1222-1228, : Abstract, 2018.

Karim, S. M., S. Abdullah, A. A. Satar, H. A. Hussein, and A. A. El-Sanousi, "Molecular characterization of full fusion protein (F) of Newcastle disease virus genotype VIIId isolated from Egypt during 2012-2016", *Veterinary World*, vol. 11, issue July-2018: www.veterinaryworld.org, pp. 930-938, 2018.

Amer, A. M., A. I. Abd El Maksoud, M. A. Abdeen, A. Hamdy, H. A. Mabrok, M. M. Amer, and A. A. El-Sanousi, "Potency Of Titanium Dioxide Nanoparticles On Skin Wound Healing In Rats", *RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES*, vol. 9, issue 6: RJPBCS RESEARCH JOURNAL PHARMACEUTICAL, BIOLOGICAL & CHEMICAL SCIENCES ?, pp. 909-923, 2018.

AF Afify, BM Ahmed, S. A. S. A. A. E. - S. M. A. S., "First Isolation and identification of EHV-4 during abortion outbreak among Arabian horses in Egypt reflects an alteration in pathogenic potentiality of EHV-4", *J. of Virol. Sci.*, vol. 2: Egyptian Society of Virology, pp. 92-101, 2017.

Amany, A., A. A. Satar, H. A. Hussein, and A. A. El-Sanousi, "Molecular and antigenic traits on hemagglutinin gene of avian influenza H9N2 viruses: Evidence of a new escape mutant in Egypt adapted in quails", *Research in Veterinary Science: WB Saunders*, pp. 1-43, 2017.

Ali, Z. M., M. A. E. M. Hassan, H. A. Hussein, B. M. Ahmed, and A. A. El-Sanousi, "Protective efficacy of combined trivalent inactivated ISA 71 oil adjuvant vaccine against avian influenza virus subtypes (H9N2 and H5N1) and Newcastle disease virus", *Veterinary world*, vol. 10, issue 10: Veterinary World, pp. 1212, 2017.

Weidmann, M., T. Avcic-Zupanc, S. Bino, M. Bouloy, F. Burt, S. Chinikar, I. Christova, I. Dedushaj, A. El-Sanousi, and N. Elaldi, "Biosafety standards for working with Crimean-Congo hemorrhagic fever virus", *Journal of General Virology*, vol. 97, issue 11: Microbiology Society, pp. 2799-2808, 2016.

Samy, A. A., M. I. El-Enbaawy, A. A. El-Sanousi, S. A. Nasef, M. M. Naguib, E. - S. A. M. El-Whab, and H. Hikono, "Different counteracting host immune responses to clade 2.2.1.1 and 2.2.1.2 Egyptian H5N1 highly pathogenic avian influenza viruses in naïve and vaccinated chickens", *Veterinary Microbiology*, vol. 183, pp. 103-109, 2016.

Al-Shammari, Z. S., B. M. Ahmed, M. Haroun, A. F. Afify, A. A. El-Sanousi, and M. A. Shalaby, "A First Molecular Phylogeny of an Egyptian Equine Herpesvirus-4 Strain Derived from a Fetal Arabian horse", *J Vet Sci Med Diagn*, vol. 5, pp. 1-4, 2016.

Said, N. M., L. M. Omar, and A. A. El-Sanousi, "The Influence of Different Challenge Doses of Highly Pathogenic Avian Influenza on the Efficacy of Different Avian Influenza Vaccines", *American Journal of Microbiology and Biotechnology*, vol. 3, issue 3, pp. 18-22, 2016.

Samy, A., M. I. El-Enbaawy, A. A. El-Sanousi, S. A. Nasef, H. Hikono, and T. Saito, "Initiation and regulation of immune responses to immunization with whole inactivated vaccines prepared from two genetically and antigenically distinct lineages of Egyptian influenza A virus subtype H5N1", *Archives of virology*, vol. 161, issue 10: Springer

Vienna, pp. 2797-2806, 2016.

Naguib, M. M., N. Hagag, A. A. El-Sanousi, H. A. Hussein, and A. - S. Arafa, "The matrix gene of influenza A H5N1 in Egypt, 2006-2016: molecular insights and distribution of amantadine-resistant variants", *Virus genes*, vol. 52, issue 6: Springer US, pp. 872-876, 2016.

Awad, E. M., A. S. Arafa, A. H. El-Deeb, and A. A. El-Sanousi, "Molecular Studies on Infectious Bronchitis Virus Isolated from Broiler Chickens in Damietta Governorate, Egypt", *Zagazig Veterinary Journal (Zag. Vet. J.)*, vol. 44, issue 2, 2016.

Alyan, M. S., M. A. Shalaby, A. A. El-Sanousi, A. F. M. El-Sayed, and R. I. Shebl, "NEW TRENDS IN CANCER THERAPY AND ANTIVIRAL DRUG RESEARCH", *International Journal of Advanced Research*, vol. 4, issue 5: International Journal of Advanced Research (IJAR), ISSN 2320-5407, pp. 698-710, 2016.

Hussein, H. A., B. M. Ahmed, S. M. Aly, A. H. El-deeb, A. A. El-Sanousi, M. A. Rohaim, A. A. Arafa, and M. R. Gadalla, "Protective efficacy of a prime-boost protocol using H5-DNA plasmid as prime and inactivated H5N2 vaccine as the booster against the Egyptian avian influenza challenge virus.", *Acta virologica*, vol. 60, issue 3, pp. 307, 2016.

Yehia, N., A. - S. Arafa, A. A. E. Wahed, A. A. El-Sanousi, M. Weidmann, and M. A. Shalaby, "Development of reverse transcription recombinase polymerase amplification assay for avian influenza H5N1 HA gene detection", *Journal of Virological Methods*, vol. 223, pp. 45-49, 2015.

Al-Shammari, Z. S., M. Haroun, A. A. El-Sanousi, and M. A. Shalaby, "Equine herpesvirus-1 and 4: investigating the disease humoral immunity profile among some Native, Arabian and Foreign horses", *Egyptian Journal of Virology*, vol. 12, issue 1, pp. 29-34, 2015.

El-Zahed, M. E., A. Arafa, A. A. El-Sanousi, and Shalaby M.A, "Isolation and characterization of avian influenza from different species of ducks in delta region", *Egyptian Journal of Virology*, vol. 12, issue 1, pp. 1-9, 2015.

Khalil, A. A., H. A. Hussein, S. K. Tolba, and A. A. El-Sanousi, "Preparation and Evaluation of H9N2 Vaccine Adjuvated with Montanide ISA71 VG", *Global Veterinaria*, vol. 14, issue 5, pp. 670-674, 2015.

Samy, A. A., M. I. El-Enbaawy, A. A. El-Sanousi, A. S. A. El-Wanes, A. M. Ammar, H. Hikono, and T. Saito, "In-vitro assessment of differential cytokine gene expression in response to infections with Egyptian classic and variant strains of highly pathogenic H5N1 avian influenza virus", *International Journal of Veterinary Science and Medicine*, vol. 3, issue 1-2, no. 12, pp. 1-8, 2015.

Kilany, W. H., A. M.M, E. - S. A.A, and E. F. El-Khashab, "Comparative Study to Evaluate the Pathogenicity of six Selected H5N1 Egyptian Viruses Based on HA Gene Analysis and IVPI.", *Animal Health Research Journal*, vol. 1, issue 1, pp. 1-10, 2014.

Bassiouny, A. I., S. M. Soliman, H. A. Hussein, T. R. Aboelnaga, and Ahmed A. El-Sanousi, "Isolation of Camel Pox Virus in Egypt", *International Journal of Virology*, vol. 10, issue 2, pp. 150-156, 2014.

Hagag, N. M., A. Arafa, M. H. El-Husseiny, M. M. Aly, A. A. El-Sanousi, and M. A. Shalaby, "Molecular Characterization of Highly Pathogenic Avian Influenza H5N1 in Ostrich", *International Journal of Virology*, vol. 10, issue 2, pp. 103-111, 2014.

Hagag, N. M., A. Arafa, M. H. El-Husseiny, M. M. Aly, A. A. El-Sanousi, and M. A. Shalaby, "Molecular Characterization of PB2 Gene of Highly Pathogenic Avian Influenza H5N1 in Egypt", *International Journal of Virology*, vol. 10, issue 2, pp. 143-149, 2014.

Bazid, A. I., H. A. Hussein, S. S. Balal, A. A. El-Sanousi, and B. M. Ahmed, "Phylogenetic Analysis of Foot and Mouth Disease Virus Type O in Egypt (2009)", *International Journal of Virology*, vol. 10, issue 1, pp. 28-36, 2014.

Yousef, O. M., M. E. Raaey, T. E. H. shaarawy, A. A. El-Sanousi, and M. A. Shalaby, "Primary Screening Of Antiviral Potential Of Quercus Ilex (Wood) Extract Against BVDV, A Pestivirus Model Of Hepatitis C Virus", *International Journal of Virology*, vol. 10, issue 2, pp. 112-120, 2014.

Bassiouny, A. I., S. M. Soliman, H. A. Hussein, T. R. Aboelnaga, and A. A. El-Sanousi, "Sequence Analysis of Camel Pox Virus Isolated in Egypt", *International Journal of Virology*, vol. 10, issue 2, pp. 121-128, 2014.

Alyan, M. S., M. A. Shalaby, A. A. El-Sanousi, A. F. M. El-Sayed, and R. I. Shebl, "ANTIVIRAL AND ANTICANCER POTENTIALS OF SNAKE AND SCORPION VENOM DERIVATIVES", *Inventi Impact: Molecular Pharmacology: Inventi Journals (P) Ltd*, 2014.

Miniawy, H. M. F. E., K. A. Ahmed, A. A. El-Sanousi, M. S. M. Khattab, and others, "Effect of Aflatoxin Induced Immunosuppression on Pathogenesis of H9N2 Avian Influenza Virus", *Pak Vet J*, vol. 34, pp. 234-238, 2014.

Ahmed, B. M., H. A. Hussein, and A. A. El-Sanousi, "Immunogenicity of DNA Plasmid Expressing HA1 of (A/equine/Egypt/vrlcu/2008 (H3N8)) Equine-1 Influenza virus in Wistar Rat Model.", *International Journal of Virology*, vol. 10, no. 1, 2014.

Yousef, O. M., M. El-Raey, A. A. El Sanousi, and M. A. Shalaby, "In vitro Primary Evaluation of Antiviral Activity of Crude Extract of *Quercus ilex* L. Against Amantadine Resistant Orthomyxo virus.", *International Journal of Virology*, vol. 10, no. 1, 2014.

Kilany, W. H., A. M.M, E. - S. A.A, and E. F. El-Khashab, "Isolation and Identification of HPAI from Fertile Egg Derived from Broiler Breeder Farm after Natural Vaccination Breakage during 2010 in Egypt", *Animal Health Research Journal*, vol. 1, issue 3, pp. 6-16, 2013.

Kilany, W. H., M. M. Aly, A. A. El-Sanousi, and El-Khashab, "Protective Efficacy of Two Inactivated Vaccines against Challenge with 2008 and 2010 Representative HPAI Viruses under Field Condition", *Animal Health Research Journal*, vol. 1, issue 1, pp. 57-68, 2013.

Radwan, M. M., S. F. Darwish, I. M. El-Sabagh, A. A. El-Sanousi, and M. A. Shalaby, "Isolation and molecular characterization of Newcastle disease virus genotypes II and VIIId in Egypt between 2011 and 2012", *Virus genes*, vol. 47, no. 2: Springer, pp. 311-316, 2013.

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Hagag, N. M., A. Arafat, M. A. Shalaby, A. A. El-Sanousi, and M. M. Aly, "Comparative Detection of H5N1 Avian Influenza Virus Using Conventional RT-PCR and Real Time Rt-PCR.", *International Journal of Virology*, vol. 8, no. 2, 2012.

Hussein, H. A., A. H. El-deeb, B. M. Ahmed, and A. El-Sanousi, "Isolation and Characterization of H3N8 Equine Influenza Virus Associated with 2008 EI Outbreak in Egypt", *Egyptian J. Virol.*, vol. 8, no. 1: Egyptian Society of Virology, pp. 1-12, 2011.

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