



Curriculum Vitae

Omar Amen

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Education

Jan 2009- Dec 2013

Doctor of Philosophy in Poultry Diseases (*PhD*, thesis title: “*Phylogenetic Mapping of Avian Influenza (H5N1) in Egypt*”

Obtained via “Joint supervision” program in collaboration between:

- Department of Comparative Pathobiology, College of Veterinary Medicine, Purdue University, West Lafayette, IN, and
- Department of Poultry Diseases, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.

2005- 2008

Master of Veterinary Sciences (*M.Sc*, thesis title: “*Immunological Studies on Highly Virulent Avian Influenza (H5) in Some Avian Species*”

Department of Poultry Diseases, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.

1999- 2004

Bachelor of Veterinary Sciences (*BVSc*)

Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.

Work Experience

- Feb 2024-till now Professor and Head of department of avian and rabbits medicine, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.
- Feb 2019-Jan 2024 Assistant professor and Head of department of avian and rabbits medicine, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.
- Dec. 2015- Jan2019 lecturer Department of Poultry Diseases, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.
- 2014-Nov 2015 Adjunct faculty in Ivy tech community college, teaching Microbiology, Indiana, USA.
- Jan 2012 – Nov 2013 Visiting scholar Department of Comparative Pathobiology College of Veterinary Medicine, Purdue University, West Lafayette, IN. USA
- 2009- Till now Member in Molecular Biology Research unit, Assiut University, Assiut, Egypt
- July2008-Dec.2011 Member in CIQAP (Continuous Improvement and Qualifying for Accreditation Project) unit, Implementation team, Faculty of Veterinary medicine, Assiut University branch, Ministry of Higher Education, Egypt.
- June 2008 – Dec. 2011 Assistant lecturer Department of Poultry Diseases, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt.
- Dec. 2004 - May. 2008 Demonstrator (Teaching assistant) Department of Poultry Diseases Faculty of Veterinary medicine, Assiut University, Assiut, Egypt. Main activities and responsibilities: Taught lab classes, assisted and supervised undergraduate student laboratory experiments.

Scholarships, projects and awards

2018	Co-PI on Research project funded from Assiut University “The effect of Dietary zinc oxide and Silver Nanoparticles on Growth Performance, health status and meat quality of Broilers”
2011	Joint supervision Ph.D. scholarship, awarded by Missions Sector, Ministry of Higher Education, Egypt.
2011	PAROWN (The Partnership and Ownership initiative) short term scholarship, Ministry of Higher Education, Egypt.
2010 and 2011	Doctoral short term grant, Embassy of France in Egypt.
2009-2011	Co-PI in STDF project on Avian Influenza (H5) In upper Egypt.
2004	Academic excellence award, awarded by Assiut University, Assiut, Egypt.

Publications and proceedings

Peer-reviewed articles:

W. C. Wang, F. F. Yan, J. Y. Hu, **O. A. Amen**, and H. W. Cheng: Supplementation of Bacillus subtilis-based probiotic reduces heat stress-related behaviors and inflammatory response in broiler chickens, JAnim Sci. 2018 May 4;96(5):1654-1666.

Self-assembled tannic acid complexes for pH-responsive delivery of antibiotics: Role of drug-carrier interactions. SA Abouelmagd, NH AbdEllah, O Amen, A Abdelmoez, NG Mohamed. International Journal of Pharmaceutics 562, 76-85(2019)

Effect of zinc oxide nanoparticles on broilers’ performance and health status. UT Mahmoud, HS Abdel-Mohsein, MAM Mahmoud, OA Amen, Tropical Animal Health and Production 52 (4), 2043-2054(2020)

Vemula, S. V.; **Amen, O.**; Katz, J. M.; Donis, R.; Sambhara, S.; Mittal, S. K., Beta-defensin 2 enhances immunogenicity and protection of an adenovirus-based H5N1 influenza vaccine at an early time. Virus research 2013.

Ahmed O. , **Omar Amen**, Ekramy E. Sayed ahmed, Sai V. Vemula¹, Samuel Amoah³, Ian York, ShivaprakashGangappa, SuryaprakashSambhara*, Suresh: Adenovirus vector-based multi-epitope vaccine provides partial protection against H5, H7, and H9 avian influenza viruses, PLoS One. 2017 Oct 12; 12(10)

Aml A. Bakheet, **Omar Amen**, Sayed H.AL. Habaty, Samah F. Darwish: Prevalence of Staphylococcus aureus In Broiler Chickens with Special Reference to Beta-Lactam Resistance Genes in the Isolated Strains, AJVS. Vol. 57 (2): 25-33. April 2018

Zinc oxide nanoparticles prevent multidrug resistant Staphylococcus-induced footpad dermatitis in broilers. UT Mahmoud, MHA Darwish, FAZ Ali, OA Amen, MAM Mahmoud, Avian Pathology 50 (3), 214-226(2021)

U.T. Mahmoud, **O.A. Amen**, T.J. Applegate and H.W. Cheng: Brazilian Propolis Effects on Growth, Productivity Performance, Gut Characteristics and Physiological Changes in Broiler Chickens, International Journal of Poultry Science APR.2017 Volume: 16 | Issue: 5 | Page No.: 169-179

Mustafa Hamad· **Omar Amen** · Mohamed Mahmoud · Ola Hassanin · Mostafa Saif-Edin: Effectiveness of different avian influenza (H5) vaccination regimens in layer chickens on the humoral immune response and interferon alpha signalling immune marker, Vet Res Commun. 2018 Jun; 42(2):145-152.

Usama T. Mahmoud, Manal A. M. Mahmoud, Hosnia S. Abdel–Mohsein, **Omar A. Amen**: AGRIMOS® Prebiotics: Effect on Behavior, Performance, Cecal Microbial Population and Humeral Immunity in Broiler Chickens, Vol 8 No 3 (2018): July,49-59.

Amen O, Vemula SV, Zhao J, Ibrahim R, Hussein A, Hewlett IK, Moussa S, Mittal SK. Identification and characterization of a highly pathogenic H5N1 avian influenza A virus during an outbreak in vaccinated chickens in Egypt. Virus Res. 2015

DETECTION OF ANTIBIOTICS RESISTANCE GENES IN STAPHYLOCOCCUS AUREUS ISOLATED FROM POULTRY FARMS
OMAR AMEN 1 ABEER G. HUSSEIN 2; ASHGAN M. SAYED 2 and RAGAB S. IBRAHIM 1, Assiut Vet. Med. J. Vol. 65 No. 163 October 2019,

Serological And Antibacterial Characteristics of Salmonella Isolates From Chickens In Assiut, Egypt. A El-Mohsen, S El-Sherry, O Amen. Benha Veterinary Medical Journal 41 (2), 93-99, 2022

EPIDEMIOLOGICAL AND MOLECULAR STUDIES ON RIEMERELLA ANATIPESTIFER INFECTION IN DUCKS. D ABD ALRAHMAN AHMED, M SAIF ELDIN, R SAYED IBRAHIM,O Amen. Assiut Veterinary Medical Journal 67 (168), 61-74 (2021)

Maha I. Hamed, **Omar A.K.** Amen, Hassan Z. Rateb: Detection of Avian Influenza Virus H5N1 in Horses at Assiut Governorate, Egypt. JOURNAL OF ADVANCED VETERINARY RESEARCH, Vol 4, (2014)

EVALUATE THE EFFECT OF SOME PHYTOBIOTICS ON THE CONTROL OF NECROTIC ENTERITIS IN BROILERS CHICKEN :MOHAMED A. SAYED 1; MOSTAFA A. SHAHTA 1; MOHAMED H. KOTOB 2; NAGLAA M. ALI 3 USAMA T. MAHMOUD4, MANAL A.M. MAHMOUD 5 AND OMAR AMEN 1, Assiut Vet. Med. J. Vol. 69 No. 177 April 2023.

MOLECULAR IDENTIFICATION OF VIRULENCE GENES OF PATHOGENIC ESCHERICHIA COLI ISOLATED FROM BROILERS CHICKEN , HOSSAM A. ABD EL AZIZ 2; MOSTAFA A. SHEHATA 1; NAGLAA M. HAGAG 2; NAGLAA M. ALI 2 AND OMAR AMEN 1 , Assiut Veterinary Medical Journal,2022

Effect of Prebiotic on the Behavioural Patterns, Performance, Carcass Characteristics, Antibody Titer and Some Blood Parameters of Mule Ducks. UT Mahmoud, R Hassan, O Amen, G Abdel-Raheem, D Al-Rammamneh. SVU-International Journal of Veterinary Sciences 3 (1), 27-38(2020)

ROLE OF ESSENTIAL OIL FOR CONTROL OF AVIAN ASPERGILLOSIS IN EXPERIMENTALLY INFECTED CHICKENS. TY ABD EL MOTELIB, O AMEN. Assiut Veterinary Medical Journal 65 (163), 152-160, 2019

Effect of Dietary Zinc Oxide Nanoparticles On Growth Performance and Clostridium Perfringens Infection In Broiler Chickens, R. FAWAZI, R. S. IBRAHIM2, N. M. ALI1, U. T. MAHMOUD3 & O. A. AMEN2, Bulg. J. Vet. Med, 2021

In vitro effect of zinc oxide nanoparticles on Staphylococcus aureus isolated from Layer Chickens. F Mohamed, AAM Bakheet, U Mahmoud, OA Amen. SVU-International Journal of Veterinary Sciences 3 (2), 14-24 2(2020)

Abdelhady, H.A., Hussein, A.A. , Amen, O. and Galal, S.M. 2023. Genetic diversity, virulence profile of Campylobacter coli and Campylobacter jejuni isolated from poultry and human in Assiut governorate, Egypt. Journal of Advanced Veterinary Research. 14, 1 (Dec. 2023), 193-197.

Evaluating the Efficacy of Commercial Escherichia coli Killed Vaccine in Broiler Chickens, Omar Amen, Abeer H.M. El Hendy, Wael K. Elfeil, Abeer G. Hussein* Journal of Advanced Veterinary Research, 13 (6), 1037-1043 (2023)

Impact of dietary supplementation of organic acids on the growth performance and immunity in broilers fed low protein diets. G Abdel-Raheem, N Ibrahim, A Sayed, O Amen, E Mickdam. SVU-International Journal of Veterinary Sciences 5 (2), 31-44, 2022

EFFICIENCY OF FOUR DISINFECTANTS AGAINST EIMERIA TENELLA ISOLATES FROM EGYPTIAN CHICKENS (IN VITRO ASSESSMENT). S EL-SHERRY, M A ALY, M A SOLIMAN, M DARWISH, O AMEN. Assiut Veterinary Medical Journal 67 (169), 91-100, 2021

COMPARATIVE STUDY ON COMMERCIAL VACCINES AGAINST E. COLI IN BROILER CHICKENS. H Mohamed, O AMEN, M ABD ELAZEEM, M SAIF-EDIN. Assiut Veterinary Medical Journal 65 (161), 22-29 (2019)

IMPACTS OF PROBIOTICS WITH OR WITHOUT ORGANIC ACIDS AS DIETARY SUPPLEMENTS ON GROWTH PERFORMANCE, CARCASS QUALITY, DIGESTIBILITY, INTESTINAL DEVELOPMENT, AND GUT MICROBIOTA OF BROILER CHICKS, Mohamed Nabil Makled¹, Mariam Ahmed Eldeeb¹, Khaled Abouelezz¹, Omar Kamel Amen and Mohamed Ahmed Habib¹, Tropical and Subtropical Agroecosystems 26 (2023).

EVALUATION OF COMMERCIAL ESCHERICHIA COLI VACCINE IN BROILER CHICKENS: AHMED MANSOUR¹ , RAGAB S. IBRAHIM¹, NAGLAA M. ALI², ABEER H. M. EL HENDY³ AND OMAR A. AMEN¹, Assiut Vet. Med. J. Vol. 69 No. 176 January 2023.

INVESTIGATION ON ENTEROCOCCUS INFECTION IN BROILER CHICKENS: HESHAM AHMED HAMMAM 1; MOSTAFA ABDELMOTELEB SHEHATA 2; HEBATALLAH ABDELHALIM 1 AND OMAR AMEN 2, Assiut Vet. Med. J. Vol. 69 No. 176 January 2023.

The effect of betaine on broilers infected experimentally with *Clostridium perfringens*, Ghada A. E. Mohamed^{1*}, Naglaa M. Ali², Dena E. Torra³ and Omar Amen⁴, SVU-International Journal of Veterinary Sciences, 2022

EVALUATION OF THE EFFECT OF SOME ANTIOXIDANTS FOR CONTROLLING AFLATOXICOSIS IN BROILER CHICKENS: YASMIN ALI HASSAN SADIEK 1; TOLBA YOUNIS ABD ELMOTELIB¹; NASHWA HAMAD MOHAMED 2; ALAA ELDIN KAMAL YOUSSEF 3 AND OMAR AMEN¹, Assiut Vet. Med. J. Vol. 68 No. 175 October 2022.

NETB, A NEW TOXIN RELATED TO *CLOSTRIDIUM PERFRINGENS*-INDUCED AVIAN NECROTIC ENTERITIS IN BROILER CHICKENS. R FAROUK, O AMEN, A HASSAN, RS IBRAHIM. Assiut Veterinary Medical Journal 67 (171), 133-142, 2021

HUMORAL IMMUNE RESPONSE OF THE LOW PATHOGENIC AVIAN INFLUENZA (H9) VACCINES IN BROILERS REHAM, A. ABO EL-FADL 1; AWAD, A. IBRAHIM 2 AND OMER, A. AMEN 2, Assiut Vet. Med. J. (Special issue) 18th Sci. Cong. 2019.

ABDEL-MOHSEN, A. M., AMEN, O., IBRAHIM, R. S., ALI, M. F., HAMZA, M. A., & SADIEK, Y. (2024). EVALUATION OF ANTIVIRAL AND ANTIBACTERIAL ACTIVITY OF SOME ESSENTIAL OILS AGAINST NEWCASTLE DISEASE VIRUS, *SALMONELLA TYPHIMURIUM* AND *ESCHERICHIA COLI*. Assiut Vet. Med. J. (Special issue). 19th Sci. Cong. 2024.

DOHA ABD ALRAHMAN AHMED, SAMAH EL SAYED ALI ABODALAL, MOSTAFA SAIFELDIN, RAGAB S. IBRAHIM AND OMAR AMEN (2024). IDENTIFICATION AND CHARACTERIZATION OF THE CURRENTLY CIRCULATING RABBIT HEMORRHAGIC DISEASE VIRUS ISOLATES. Assiut Vet. Med. J. Vol. 70 No. 182 July 2024.

Proceedings:

Salem, B., **Amen, O.** and Mousa, S. Evaluation of H5N2 avian influenza killed vaccine in turkeys. Proceedings of Animal Wealth Conference, Syria, 2008.

The thirteenth scientific conference at the period from 23 to 25 November 2008.

Mousa, S.A. and **Amen, O.** (2010): H5N1 Infection in Domestic and Free Living Water Fowls in Nile River Canals in Villages in Upper Egypt, 147th AVMA Annual Convention, Atlanta.

Mousa, S.A. and **Amen, O.** (2010): Comparison of Results of Different Diagnostic Tests for H5N1 Avian Influenza Outbreaks, International Conference on Agricultural and Animal Science (CAAS) in Singapore.

Mousa, S.A. and **Amen, O.** (2011): Breaks of H5N1 avian influenza in previously vaccinated chicken flocks. Annual AAAP/AVMA meeting in St. Louis, USA.

Amen, O. and Mousa, S.A. (2011): Natural infection of H5N1 avian influenza in pet birds, 11th European AAV conference - 1st ECZM scientific meeting, MADRID.

Amen, O., Hayes, E; Vemula, S. V. and Mittal, S. K.,(2012): Development of a Broad Spectrum H5N1 Influenza Vaccine for Pandemic Preparedness, Purdue College of Vet Med's Summer Research program, Purdue uni. West Lafayette, USA.

Amen, O., Vemula, S. V. and Mittal, S. K.,(2013): Antigenic Analysis of Highly Pathogenic H5N1 Avian Influenza Viruses Causing Severe Outbreaks in Vaccinated Chicken in Egypt. SIGMA XI graduate student research awards competition,

Vemula, S. V.; **Amen, O.**; Katz, J. M.; Donis, R.; Sambhara, S.; Mittal, S. K.,(2013): Beta-defensin 2 enhances immunogenicity and protection of an adenovirus-based H5N1 influenza vaccine, AVMA Annual Convention, Chicago,IL, USA

O. A. Amen, U. T. Mahmoud, M. A. Abdel-Rahman, T. J. Applegate, and H. W. Cheng (2015) Effect of Brazilian propolis on some physiological changes in broiler chickens raised under heat stress. The International Poultry Scientific Forum, Georgia, Atlanta, USA

U.T. Mahmoud, **O. A. Amen**, D.H Saleh M. A. Abdel-Rahman, 2016 , The effects of Rayeb milk on performance, behavior and cecal lactobacilli count in broiler chickens during starter period, The seventh scientific conference .

Reham A . Abo El-fadel, Awad A. Ibrahim and **O. A. Amen**, Study on humoral immune response of low pathogenic avian influenza (H9) vaccines in chickens, The eighth scientific conference, from 5 to 7 November 2019.

Mohamed .A Soliman, **Omar Amen**, Mohamed Aly , In vitro assessment of efficiency of four coccidial disinfectants against Eimeria Tenella Oocyst, The eighth scientific conference , from 5 to 7 November 2019.

Trainings , conference and workshops:

- 2023 “MSD global poultry health training ,MSD animal health , GD academy, Amsterdam , Netherland.
- 2017 “Zoetis first ME diagnostic school, Lyon training center , from 22 to 24 August 2017 .
- 2011 “Avian influenza virus, sequencing and bio-informatic analysis” training, Institute of diagnostic Virology, OIE lab, Griefswald, Germany.
- 2010 “Avian influenza virus sequencing” training, Avian and Rabbit Virology-Immunology-Parasitology (VIPAC), ANSES (French Agency for Food, Environmental and Occupational Health and Safety), Ploufragan, France.
- 2010 “From gene to protein” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.
- 2010 “PCR principles and applications level 1” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.

- 2010 “Principles and applications of DNA sequencing and cloning” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.
- 2009 “PCR principles and applications level 1” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.
- 2006-2009 Qualifying Faculty Workshops, Quality control center, Assiut University, Assiut, Egypt. Topics covered: Communication skills, Legal and financial aspects, New teaching methodologies, Ethics and E-learning.
- 2009 “Proposal writing” workshop organized by DAAD(The German Academic Exchange Service), Cairo, Egypt.
- 2009 “Basic techniques in cell culture” workshop, Medical Technology Center, Alexandria University, Alexandria, Egypt. (3-5 May)
- 2009 “Basic molecular biology ,workshop, Medical Technology Center , Alexandria University, Alexandria , Egypt. (2-5 August)
- 2009 “Training on molecular techniques” workshop, KlinikfürVögel, Faculty of Veterinary medicine, University of Munich, Munich, Germany
- 2008 “ELISA, principles and applications” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.
- 2008 “Principles of biotechnology” workshop, biotechnology lab, genetics department, faculty of agriculture ,Assiut University, Assiut, Egypt.
- 2007 “PCR principles and applications” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.
- 2006 “Conventional PCR to Real-time PCR” workshop, Molecular Biology Research unit, Assiut University, Assiut, Egypt.

The eighth scientific conference of faculty of veterinary medicine Assiut university ,The importance of scientific research and community participation in developing livestock locally and regionally, from 5 to 7 November 2019

First Boehringer Ingelheim Annual Poultry Assembly On Epidemiology in MENA region from 9 to 13 October 2016, Berlin, Germany.

The seventh scientific conference of faculty of veterinary medicine Assiut university at the period from 6 to 8 December 2016.

The first WVPA-Africa meeting 2022 “ Avian influenza a threat for African production and trade , Marrakesh , Morocco .

The eleventh scientific conference of Egyptian veterinary poultry association at Porto , Marina 20 to 23 April 2019.

Poultry professional forum 2022, MSD animal health.

XXII Congress of the world veterinary poultry association (WVPA) , Verona, Italy, from 4 to 8 September 2023.

Scholarly outreach activities

Workshop:

June 1-3rd 2010: Seleem M. N., **Amen, O.**, Hamid, A. and Azim, W.: From Gene to Protein. (9 lectures, 12 hours lab training, 20 participants),. Molecular Biology Research Center, Assiut University, Egypt.

April 4-6th 2017: Real Time PCR & DNA Sequencing: Techniques and Applications (level2), Molecular Biology Research Center, Assiut University, Egypt.

March 14-16th 2017: Principles & Applications of PCR (level1), Molecular Biology Research Center, Assiut University, Egypt.

December 12-14th 2017: Gene Cloning (Recombinant DNA Technology), Molecular Biology Research Center, Assiut University, Egypt.

Nov. 30th - 1st Dec. 2016: Enzyme Linked Immuno-Sorbant Assay (ELISA) Principals & Different Applications, Molecular Biology Research Center, Assiut University, Egypt.