

CURRICULUM VITAE

Personal information

Name: Ibrahim Mohamed Eldaghayes
Place of Birth: Tripoli, Libya
Nationality: Libyan
Date of Birth: 26/02/1971
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Education

PhD, October 2005
University of Bristol, Faculty of Medical and Veterinary Sciences, Bristol, UK

Bachelor of Veterinary Science (B.V.Sc.), August 1994
Faculty of Veterinary Medicine, University of Tripoli, Tripoli, Libya

Working Experience

2006-Now

Staff Member at Department of Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Tripoli.

- Professor: Feb. 2017 – Now
- Associate Professor: Feb. 2013 – Feb. 2017
- Assistant Professor: Feb. 2009 – Feb. 2013
- Lecturer: Feb. 2006 – Feb. 2009

2017-Now

Scientific Advisor for the Libyan National Center of Animal Health.

2017-Now

Head of Staff Members Affairs Office, Faculty of Veterinary Medicine, University of Tripoli.

2015-2017

Head of Quality Assurance Department, Faculty of Veterinary Medicine, University of Tripoli.

2015

Consultant and Visiting Scientist (February - June) at the European Commission for the Control of Foot-and-Mouth Disease (EuFMD), Food and Agriculture Organization of the United Nations (FAO), in Rome, Italy.

Under the direct supervision of the Secretary, EuFMD Commission, AGAH, the consultant has worked directly with the EuFMD Secretariat and in close consultation with the other EuFMD Staff, Consultants and FAO Officers in Headquarters and the decentralised offices, assisting with Secretariat tasks and the fulfilment of EuFMD objectives.

Duties performed:

- Assist the management of Component 2.3 of the Mediterranean Animal Health Network (REMESA) of the EuFMD Work programme.
- Provided technical support to the work programme of the component 2.3 (REMESA), particularly to ensure the development of a Regional Risk Based Strategic Plan in North Africa and support with knowledge, experiences, expertise, the establishment of a regional vaccine-bank.
- Supported other activities connected to the Component 2.3 (REMESA) with the aim of: a) supporting surveillance systems, b) building capacity in clinical recognition, c) supporting emergency preparedness.
- Assist the development of activities included in Component 2.2 for the development of the National Risk Based Strategic Plan in Egypt and other countries.
- Assist with the provision of EuFMD training courses and other workshops.
- Support of organizing and coordinating meetings in preparation of agenda, technical working documents and meeting minutes.

2012-2014	Committee Member of the National Center of Animal Health (NCAH), Libya.
2011-2012	Head of Department of Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Tripoli.
2010	Visiting Scientist to the Institute for Animal Health, Compton, UK, for 6 months (January till June).
1998-2000	Demonstrator at the Faculty of Veterinary Medicine, University of Tripoli.
1994-1998	Practising as a veterinarian in a private clinic in Tripoli.
Specialism	Immunology and Virology.
Activities	<ul style="list-style-type: none">- Teaching Virology to the 3rd year students of the Faculty of Veterinary Medicine, University of Tripoli.- Teaching post-graduate courses to the post-graduate students at the Faculty of Veterinary Medicine, University of Tripoli.- Carrying out some researches in the microbiological lab.- As a committee member of the NCAH, with the director of the NCAH (CVO), were responsible of the animal health sector in Libya as well as the development and implementation of plans, programs and veterinary policies for Libya.- Cooperation with Italy (IZSLER lab in Brescia) and with EuFMD (FAO) in Rome, Italy in order to control FMD in Libya.- Participating in workshops and programmes that were held with the support of the FAO and OIE, for example:<ul style="list-style-type: none">- Develop a strategy to combat foot-and-mouth disease (EU-FMD, FAO, OIE)- Train the trainer in the area of FMD control.- To develop a Risk Based Strategic Plan for FMD in Libya with the help and support from the EuFMD.

- Development of the strategy for the NCAH (2014-2019) with the help for the OIE experts, Libyan CVO and NCAH committee members.
 - Improvement of veterinary laboratories in Libya.
- Visiting different areas in Libya and giving lectures on animal diseases and training of Libyan veterinarians.

Master Thesis Supervision

2015: Title: "Detection of Avian Influenza and Newcastle Disease Viruses Antibodies in Backyard Poultry in Tripoli, Libya". By: Emhemed A. Gedara.

2015: Title: "Detection of Avian Influenza and Newcastle Disease Viruses from Tracheal and Cloacal Swabs of Backyard Poultry in Tripoli City of Libya". By: Hesham Abdel Galil Essed.

Current Master Supervision:

Title: "Serological Survey of Foot-and-Mouth Disease Virus Serotypes in Ruminants in Libya". By: Fadheelah Areebi Abousreer.

Title: "Serological Survey of West Nile Virus in Horses and Dogs in Libya". By: Kholoud Khalid Yousef Bin Mustafa.

Experience and Courses

- Founder and Editor-in-Chief of the Open Veterinary Journal.
- Member of the Editorial Board of the E- International Scientific Research Journal.
- Member of a Libyan Expert Committee to prepare a "Strategy for the Progressive Control and Eradication of Peste des Petits Ruminants (PPR) and Other Priority Diseases of Small Ruminants (SRDs) for Libya (2019 -2030)".
- Learning and Teaching in Higher Education Module at the University of Southampton, UK, September/October, 2017.
- Organizing many courses on using EpiCollect software, a web and mobile app for the generation of forms (questionnaires) and data collections.
- Review of the online training course "Introduction to the Progressive Control Pathway" for Foot and Mouth Disease organized by Eu-FMD (FAO) during August-September 2016.
- FMD Real Time Training Course organized by Eu-FMD (FAO), Nakuru, Kenya, 21-25 January, 2013.
- Trainer for Good Management Practices for Highly Pathogenic Avian Influenza in Tripoli (February 2017) and Gharyan (May 2017) in Libya.
- Trainer for FMD Real Time Training Course for veterinarians in Libya.
- Libyan Veterinary Association.
- Libyan Veterinary Poultry Association.
- English Language courses and English for Academic Purposes Course at the University of Liverpool, UK (2001).
- Intensive Immunology Course at Oxford University (2001).
- Introduction to Sequence Analysis: GCG, at the Institute for Animal Health, Compton, UK (2002).
- An Introduction to Molecular Biology Software Course at the Institute for Animal Health, Compton, UK (2004).
- Poultry Health Course at the Institute for Animal Health, Compton, UK (2004).
- Member of Scientific Committee to study Fish Mortality Phenomenon in the Eastern Coast of Libya (2008).

Workshops

- Participating in a workshop organized by Health Security Partners, USA, on Strengthening Health Security Systems in Libya, that was held in Tunis on 24-26 February 2019.
- Participating as Trainer in the workshop organized by Food and Agriculture Organization of the United Nations (FAO) subregional Office for North Africa with the title "Epidemio-surveillance of Highly Pathogenic Avian Influenza, Rabies and Rift Valley Fever: Good Emergency Management Practices and Veterinary Communication" that was held on 28th January to the 1st of February 2019 in Tunis.
- Participating as Trainer in the workshop to Validate the National Peste des Petits Ruminants (PPR) Control and Eradication Strategy and Action Plan for Libya that was held on 28-30 August, 2018 in Tunis.
- Participating in the workshop with the title "Strengthening Enhancing Research for Africa Network (ERFAN) through the support of OIE Reference Laboratories/Collaboration Centres in the Arab Maghreb Union (AMU) Region" that was held on the 3-4 May, 2018 in Tunis.
- Participating in the workshop with the title "Defining Requirements for International Field Trials for Conventional and Next-Generation Foot and Mouth Disease Virus (FMDV) Vaccines and Diagnostics" that was held on the 10-12 June, 2014, at the Renaissance Washington, DC Dupont Circle Hotel, USA.
- Organizing and participating in two workshops during January and March 2014, organised by European Commission for the Control of Foot-and-Mouth Disease (EuFMD) in Tripoli to implement the Risk Based Strategic Plan to control FMD in Libya. 1st workshop in Tripoli, 26 - 30 January 2014 and the 2nd workshop in Tripoli, 23 - 27 March 2014.
- Organizing and participating in FMD Scientific Day in Tripoli in 30/3/2014, with participating of international FMD experts.
- Organizing and participating in two workshops during February and May 2015, organised by European Commission for the Control of Foot-and-Mouth Disease (EuFMD) in Nouakchott, Mauritania, to implement the Risk Based Strategic Plan to control FMD in Mauritania. 1st workshop in Nouakchott, 23 - 26 February 2015 and the 2nd workshop in Nouakchott, 4 - 7 May 2015.
- EuFMD Trainer in "FMD Outbreak Investigation – Training Day", Nouakchott, Mauritania on the 8th May, 2015.
- Workshop on regional veterinary policies to support trade. Paphos, Cyprus, 05 - 07 September 2012.

Publications, Meetings and Conferences

Ibrahim Eldaghayes and Omar A. Tarhuni. (1996). Field Study on Mastitis in Dairy Cows and its Economical Losses. 13th Congr s V t rinaire Maghr bin, p-20, 8th-10th May, Algeria.

Addulatif Asheg, Omar A. Tarhuni and Ibrahim Eldaghayes. (1997). Field Study on Commercial Layers Flocks Infected with Salmonellosis. 14th Maghrib Veterinary Congress, p-74, 6th-8th May, Tripoli – Libya.

Ibrahim Eldaghayes, Stephen M. Laidlaw, Liz Haygreen, Mike Skinner and Pete Kaiser. (2004). Use of Chicken Interleukin-18 as a Vaccine adjuvant with a Recombinant Fowlpox Vaccine fpIBD1. 7th International Veterinary Immunology Symposium. p-333, 25th-30th July, Quebec City, Canada.

Ibrahim Eldaghayes, Stephen M. Laidlaw, Liz Haygreen, Michael A. Skinner and Pete Kaiser. (2004). Use of Chicken Interleukin-18 as a Vaccine adjuvant with a Recombinant Fowlpox Vaccine fpBD1, a Subunit Vaccine Giving Partial Protection Against IBDV. 8th Avian Immunology Research Group Meeting. p-60, 4th-7th September, Munich, Germany.

Michael A. Skinner, Stephen M. Laidlaw, Ibrahim Eldaghayes, Pete Kaiser and Matthew G. Cottingham. (2005). Fowlpox Virus as a Recombinant Vaccine Vector for Use in Mammals and Poultry. *Expert Review of Vaccines*, 4(1): 63-76.

Ibrahim Eldaghayes, Lisa Rothwell, Andrew Williams, David Withers, Sucharitha Balu, Fred Davison and Pete Kaiser. (2006). Infectious Bursal Disease Virus: Strains That Differ in Virulence Differentially Modulate the Innate Immune Response to Infection in the Chicken Bursa. *Viral Immunology*, 19: 83-91.

Ibrahim Eldaghayes, Lisa Rothwell, Michael A. Skinner and Pete Kaiser. (2007). Kinetics of immune cells at the site of inoculation in the skin of chickens and the local immune response. 8th International Veterinary Immunology Symposium. p-192, 15th-19th August, Ouro Preto, Brazil.

Ibrahim Eldaghayes. (2008). Effect of Vitamins deficiency on Poultry Health and Immunity. 2nd AGRO-Libya, 24th June, Tripoli – Libya.

Ibrahim Eldaghayes, Bakr Elamary, Ali Saleem, Soleman O. Al-Garib, Omar A. Tarhuni, Abdulatif A. Asheg and Mohamed A.H. Al-Arabi. (2008). Effect of Increase Levels of Lysine, Threonine and Methionine on Antibody Production in Broilers Against Newcastle Disease Under Normal Conditions and Heat Stress. 13th Scientific Congress, Assuit University, p-277-292, 23rd-25th November, Assuit, Egypt.

Ibrahim Eldaghayes, Fatim El-Gammoudi, Omar Tarhuni, Mohamed Omar and Salah Azwai. (2009). First Report on Avian Tuberculosis in Pigeons in Tripoli. 26th Maghrib Veterinary Congress, p-19, 4th-5th May, Tripoli – Libya.

Abdulatif Asheg, Omar Tarhuni, Ibrahim Eldaghayes and Soleman Al-Garib. (2009). Effect of pH on Total Intestinal Bacterial Count. 26th Maghrib Veterinary Congress, p-19, 4th-5th May, Tripoli – Libya.

I Eldaghayes, L Rothwell, MA Skinner, P Kaiser. (2009). Persistence of recombinant fowlpox viruses in chicken tissues and the local immune response. *Veterinary Immunology and Immunopathology*, 128: 267-268.

Layla Al-Bassam, Ibrahim Eldaghayes, Omar Tarhuni and Ahmed Al-Dawek (2010). First Report on Pelger-Huet Anomaly in a Basinji Dog in Libya. *International Journal of Animal and Veterinary Advance*, 4: 130-134.

Ibrahim M. Eldaghayes, Mohamed A. Hamid, Sayed R. El-Attar and Abdoalwahab M. Kammon. (2010). Pathology of gout in growing layers attributed to high calcium and protein diet. E-International Scientific Research Journal 2(4): 297-302.

The 22nd Australian Poultry Science Symposium at the University of Sydney. 14-16 February 2011.

W.S. Soliman, S. Rezika Samira, Soleman Al-Garib, Osama El-Waer and Ibrahim Eldaghayes. (2011). Study on Grouper fish mortality phenomenon at the east coast Libyan area of the Mediterranean Sea with reference to bacteriological and parasitological examinations. New York Science Journal, 4(9): 6-14.

Ibrahim Eldaghayes, Stephen M. Laidlaw, Michael A. Skinner and Pete Kaiser. (2012). The 1st Regional STVM Conference. 18-21/06/2012, Phuket, Thailand.

Ibrahim Eldaghayes, Lisa Rothwell, Michael A. Skinner and Pete Kaiser. (2012). AIRG 2012: XII Avian Immunology Research Group Meeting. P-113, 28-31/08/2012, Edinburgh, United Kingdom.

Ibrahim Eldaghayes and Fatim El-Gammoudi. (2012). First report on avian tuberculosis in pigeon in Tripoli, Libya. RESEARCH OPINIONS IN ANIMAL & VETERINARY SCIENCES, 2(12): 596-599.

M.A.M. Sharif, M.E. Farhat, E.S. Kraim, N.A. Altrabulsi, A.M. Kammon, A.S. Dayhum and I.M. Eldaghayes. (2013). Ovine paratuberculosis: a confirmed case of Johne's disease in Libya. Open Veterinary Journal, 3(2): 131-134.

Abdulwahab Kammon, Tan Sheau Wei, Abdul Rahman Omar, Abdunaser Dayhum, Ibrahim Eldaghayes, Monier Sharif. (2013). Molecular Detection and Characterization of Infectious Bronchitis Virus from Libya. International Journal of Medical, Pharmaceutical Science and Engineering, 7(12): 689-691.

"Inter-Regional Consultative Meeting on FMD & PPR Situation Progress". This meeting was organised by World Organization for Animal Health (OIE) and Food and Agriculture Organization of the United Nations (FAO). Amman, Jordan, 2 - 4 March 2014.

"First Scientific Forum on FMD in Egypt". This meeting was held in Cairo, Egypt from 12-13 April, 2014.

Ibrahim Eldaghayes. 2014. FMD in Libya. Foot-and-Mouth Disease (FMD) / Swine Vesicular Disease (SVD) National Reference Laboratories (NRL) Meeting. 7-8 May, 2014. Woking, UK.

Sharif, M.A.M., Eldaghayes, I.M., Kammon, A.M. and Dayhum, A.S. (2014). Melanoacanthoma in a Dog: A Case Report. J. Vet. Sci. Technol. 5(2). <http://dx.doi.org/10.4172/2157-7579.1000167>.

Nick J. Knowles, Katarzyna Bachanek-Bankowska, Jemma Wadsworth, Valerie Mioulet, Begoña Valdazo-González, Ibrahim M. Eldaghayes, Abdunaser S. Dayhum, Abdulwahab M. Kammon, Monier A. Sharif, Santina Grazioli, Emiliana Brocchi, Saravanan Subramaniam, Bramhadev Pattnaik and Donald P. King. 2014. Outbreaks of foot-and-mouth disease virus in Libya and Saudi Arabia during 2013 due to an exotic O/ME-SA/Ind-2001 lineage. *Transboundary and Emerging Diseases Journal*. doi: 10.1111/tbed.12299.

Eldaghayes I., Dayhum A., Kammon A., Sharif M., Ferrari G., Sumption K., King D. P., Grazioli S. and Brocchi E. (2014). FMD in Libya and the control strategy. Open Session of the Research Group of the Standing Technical Committee of the European Commission for the control of Foot-and-Mouth Disease, Cavtat, Croatia, October 2014.

Emiliana Brocchi, Santina Grazioli, Giovanna Dho, Ibrahim Eldaghayes, Abdunaser Dayhum, Abdulwahab Kammon, Monier Sharif and Giancarlo Ferrari. (2014). Serological survey in Libya to assess FMD viruses circulation and vaccine immune response. Pg. 162-63, Open Session of the Standing Technical and research Committees of EuFMD, Cavtat (Croatia), 29-31 October 2014.

Ibrahim Eldaghayes. (2015). Presenting EuFMD during the 10th Joint Permanent Committee meeting of RMESA. Heraklion (Greece), 16-17 March 2015.

Ibrahim Eldaghayes. (2015). Presenting Component 2.3 Support to REMESA to assist national FMD risk management as part of the REMESA action plan. 41st EuFMD General Session. FAO Headquarters, Rome, Italy. 23-24 April, 2015.

Sharif, M.A.M., Alagab, M.M.A., Eldaghayes, I.M., Kammon, A.M., & Dayhum, A.S. (2015). Caprine Coccidiosis: An outbreak in the Green Mountain in Libya. *Journal of Veterinary Medicine and Animal Health*, 7(6): 229-233.

Abdulwahab Kammon, Alireza Heidari, Abdunaser Dayhum, Ibrahim Eldaghayes, Monier Sharif, Isabella Monne, Giovanni Cattoli, Abdulatif Asheg, Milad Farhat, and Elforjani Kraim. (2015). Characterization of Avian Influenza and Newcastle Disease Viruses from Poultry in Libya. *Avian Diseases*, 59(3): 422-430.

Jamela Elasough, Amer Elgerwi, Ibrahim Eldaghayes and Abubakr El-Mahmoudy. (2015). Residual evaluation of oxytetracycline in camel edible tissues in Tripoli region, Libya. *Current Research in Microbiology and Biotechnology*, 3(5): 718-724.

Eldaghayes I., Dayhum A., Kammon A., Sharif M., Ferrari G., Sumption K., King D. P., Grazioli S. and Brocchi, E. (2015). Control strategy of FMD in Libya and post-vaccination monitoring. Global Foot-and-Mouth Disease Research Alliance (GFRA) scientific meeting, Hanoi, Vietnam, 20-22 October 2015.

Dayhum A., Eldaghayes I., Kammon A., Sharif M., Ferrari G., Conchedda G., Cinardi, G., Sumption, K., King D. P., Grazioli S. and Brocchi E. (2015). FMD Serological Survey In Libya And The Circulating Viruses. *Global Foot-and-Mouth*

Disease Research Alliance (GFRA) scientific meeting, Hanoi, Vietnam, 20-22 October 2015.

Azwai, S.M., Alfallani, E.A., Abolghait, S.K., Garbaj, A.M., Naas, H.T., Moawad, A.A., Gammoudi, F.T., Rayes, H.M., Barbieri, I. and Eldaghayes, I.M. (2016). Isolation and molecular identification of *Vibrio* spp. by sequencing of 16S rDNA from seafood, meat and meat products in Libya. *Open Veterinary Journal*. 6(1): 36-43.

Garbaj, A.M., Awad, E.M., Azwai, S.M., Abolghait, S.K., Naas, H.T., Moawad, A.A., Gammoudi, F.T., Barbieri, I. and Eldaghayes, I.M. (2016). Enterohemorrhagic *Escherichia coli* O157 in milk and dairy products from Libya: Isolation and molecular identification by partial sequencing of 16S rDNA. *Veterinary World*. 9(11): 1184-1189.

Symaia M. AbdulJawad, Hiyam M. Zegallai, Emad M. Bennour, Ibrahim M. Eldaghayes, Fabrizio Rosso, Chris J. M. Bartels and Abdunaser S. Dayhum. (2016). SERO-EPIDEMIOLOGICAL STUDY OF FOOT AND MOUTH DISEASE IN LIVESTOCK IN WEST LIBYA. Open Session of the EuFMD. 26-28 October, 2016, Cascais, Portugal.

Ibrahim Eldaghayes, Abdunaser Dayhum, Abdulwahab Kammon, Monier Sharif, Giancarlo Ferrari, Christianus Bartels, Keith Sumption, Donald P. King, Santina Grazioli and Emiliana Brocchi. (2017). Exploiting serological data to understand the epidemiology of foot-and-mouth disease virus serotypes circulating in Libya. *Open Veterinary Journal*. 7(1): 1-11.

Rabia Alghazeer, Abdalla Elmansori, Moammar Sidati, Ftaim Gammoudi, Salah Azwai, Hesham Naas, Aboubaker Garbaj and Ibrahim Eldaghayes. (2017). *In Vitro* Antibacterial Activity of Flavonoid Extracts of Two Selected Libyan Algae against Multi-Drug Resistant Bacteria Isolated from Food Products. *Journal of Biosciences and Medicines*. 5: 26-48.

Abdulwahab Kammon, Paolo Mulatti, Monica Lorenzetto, Nicola Ferre, Monier Sharif, Ibrahim Eldaghayes and Abdunaser Dayhum. (2017). Biosecurity and geospatial analysis of mycoplasma infections in poultry farms at Al-Jabal Al-Gharbi region of Libya. *Open Veterinary Journal*. 7(2): 81-85.

Hesham T. Naas, Zaid Almajdoubi, Aboubaker M. Garbaj, Salah M. Azwai, Fatim T. Gammoudi, Said K. Abolghait, Ashraf A. Moawad, Ilaria Barbieri, Hanan L. Eshamah and Ibrahim M. Eldaghayes. (2017). Molecular Identification and Antibiogram of *Enterococcus* spp. Isolated on Enterococcus Selective Differential (ESD) Media from Meat, Meat Products and Seafood in Libya. *Journal of Microbiology, Biotechnology and Food Sciences*. 6(6): 1264-1268.

A. Dayhum, M. Sharif, I. Eldaghayes, A. Kammon, P. Calistri, M. L. Danzetta, D. Di Sabatino, A. Petrini, G. Ferrari, S. Grazioli, G. Pezzoni, E. Brocchi. (2017). Sero-prevalence and epidemiology of peste des petits ruminants in Libya. *Transboundary and Emerging Diseases Journal*. DOI: 10.1111/tbed.12670.

Mohamed Almeshay, Abubaker Gusbi, Ibrahim Eldaghayes, Riadh Mansouri, Mohammed Bengoumi and Abdunaser S. Dayhum. (2017). An epidemiological study on Peste des Petits Ruminants in Tripoli region, Libya. *Veterinaria Italiana*. 53(3): 235-242.

Aboubaker Garbaj, Said Abolghait, Aml Lawila, Salah Azwai, Hesham Naas, Ashraf Moawad, Fatim Gammoudi, Ilaria Barbieri, Salem Abureema and Ibrahim Eldaghayes. (2017). Molecular Identification, Prevalence and Antimicrobial Susceptibility Profile of *Cronobacter* spp. Cultivated on a Chromogenic Medium in Libya. *Journal of Molecular Microbiology*. 1(1): 8.

Hesham T. Naas, Mohamed M. Zurghani, Aboubaker M. Garbaj, Salah M. Azwai, Hanan L. Eshamah, Fatim T. Gammoudi, Said K. Abolghait, Ashraf A. Moawad, Ilaria Barbieri and Ibrahim M. Eldaghayes. (2018). *Bacillus cereus* as an emerging public health concern in Libya: Isolation and antibiogram from food of animal origin. *Libyan Journal of Medical Sciences*. 2(2): 56-61.

Katarzyna Bachanek-Bankowska, Antonello Di Nardo, Jemma Wadsworth, Valerie Mioulet, Giulia Pezzoni, Santina Grazioli, Emiliana Brocchi, Sharmila Chapagain Kafle, Ranjani Hettiarachchi, Pradeep Lakpriya Kumarawadu, Ibrahim M. Eldaghayes, Abdunaser S. Dayhum, Deodass Meenowa, Soufien Sghaier, Hafsa Madani, Nabil Abouchoaib, Bui Huy Hoang, Pham Phong Vu, Kinzang Dukpa, Ratna Bahadur Gurung, Sangay Tenzin, Ulrich Wernery, Alongkorn Panthumart, Kingkarn Boonsuya Seeyo, Wilai Linchongsubongkoch, Anthony Relmy, Labib Bakkali-Kassimi, Alexei Scherbakov, Donald P. King and Nick J. Knowles. (2018). Reconstructing the evolutionary history of pandemic foot-and-mouth disease viruses: the impact of recombination within the emerging O/ME-SA/Ind-2001 lineage. *Scientific Reports*. 8:14693 | DOI:10.1038/s41598-018-32693-8.

Abdulslam S. Mahmoud, Giovanni Savini, Massimo Spedicato, Federica Monaco, Irene Carmine, Alessio Lorusso, Tolari Francesco, Maurizio Mazzei, Mario Forzan, Ibrahim Eldaghayes and Abdunaser Dayhum. (2018). Exploiting serological data to understand the epidemiology of bluetongue virus serotypes circulating in Libya. *Veterinary Medicine and Science*, <https://doi.org/10.1002/vms3.136>.

Personal skills

Languages: Arabic and English

Computer: Word, Excel, PowerPoint, Outlook and internet