

CURRICULUM VITEA



1. Name: MAJED H. MOHAMMED

Position: Coordinator

Address: Scientific Research Center
Faculty of Science
University of Duhok, Kurdistan-Iraq

1.1 Personal Data:

Gender: Male

Religion: Muslim

Marital Status: Married

Date of Birth 21-04-1965

Citizenship: Iraqi

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majed65bag@hotmail.com
majed65bag@gmail.com

2. Academic Qualifications:

Degree Certification	University	Date	Area of Certification
PhD	University Putra Malaysia (UPM)	2010	Pathology and Molecular biology
M.Sc.	Baghdad University, Iraq	1993	Avian Diseases
B.Sc.	Baghdad University, Iraq	1989	Veterinary Medicine and Surgery

3. Dissertation and project work for degrees:

3.1 PhD dissertation “MOLECULAR CHARACTERISATION, ATTENUATION INACTIVATION OF VERY VIRULENT INFECTIOUS BURSAL DISEASE VIRUS FOR THE DEVELOPMENT OF TISSUE CULTURE BASED VACCINE

The project in my Ph.D. focused in attenuation and Inactivation Infectious Bursal Disease Virus (IBDV) in poultry. The IBDV attenuated by serial passages in two types of cell line Vero cells and DF-1 cells by using biosafety level 2 cabinets and Inactivated by Electrolysed Catholyte Anolyte and Binary Ethylenimin

3.2 MSc dissertation “THE EFFECT OF GUMBORO DISEASE ON THE INCIDENCE OF AIRSACCULITIS”

This study describes the pathological effect of IBDV on infections by *E. coli* strains

4. Employment History:

2014-2015

Coordinator in Scientific Research Center in tissue culture unit, Faculty of Science, University of Duhok, Kurdistan-Iraq, teaching virology and Biosafety, Biosecurity and bioethics and legal aspects of modern biotechnology in the faculty of health sciences, Duhok University

2011-2012

Post-doctoral Researcher, Virology, Pathology and Molecular biology, Dept. University of Putra Malaysia (UPM). Malaysia. My work in the laboratory includes the isolation and diagnosis of veterinary viruses by using tissue culture and molecular characterization by PCR and real time PCR. And also my job includes some of serological test like ELISA and Heam Agglutination (HA) and Heam Agglutination Inhibition (HI). As well as the isolation and characterization of bacteria in growth media and molecular characterization by PCR and real time PCR

2006

Teaching the Infectious Diseases (Bacteria, Viruses, Fungi, Parasites), Faculty of Veterinary Medicine, Baghdad University

1998 -2005

Teaching Assistant of Microbiology and Virology, Faculty of Veterinary Medicine, Baghdad University

1994 -1998

Demonstrator of the Infectious Diseases, Faculty of Veterinary Medicine, Baghdad University

5. Fellowships awards:

2007-2010

Graduated Research Fellowship (GRF) from UPM University

2009

Special Scheme Research Assistant (SSRA) from UPM University

2011-2012

Postdoctoral fellowship University Putra Malaysia

6. Professional Memberships:

A member of the Iraqi Association for the Infectious Diseases

A member of the Iraqi Society for Virology

A member of the Iraqi for Microbiology and Immunology

A member of Family Poultry Communication FAO

A member in international Biosecurity and Prevention Forum

7- Techniques:

-Lab skills:

-Microbiological culture

-DNA, RNA extraction and quantification.

-Performing Classic PCR.

-Gel Electrophoresis.

-Comparative viruses genome analysis and Phylogenetic analysis.

-ELISA

- Heam Agglutination (HA) and Heam Agglutination Inhibition (HI) test
- TCID₅₀ (Tissue Culture Infectious Dose)
- Cell culture and maintenance
- Virus pathogenicity: in-vitro and in vivo analysis
- Immuno-biological techniques: antigen and antibody production, extraction, and analysis
- Histopathology and Immunohistochemistry

8. Bioinformatics & Computer Skills

Working knowledge of common application software such as Word, Excel, PowerPoint, and statistical analysis:

ANOVA, T test, Chi square as well as Bioinformatics software for data analysis using the following programs: BioEdit and ClustalW.

9. Training and Workshops:

1. Workshop on preparation, maintenance and storage of animal cell lines on *4th -5th Dec. 2007 (attended)*
2. Introduction to electron microscopy on *27 Jul.-27 Sept. 2007 (attended)*
3. Hatchery vaccination workshop on *6th Mar. 2008 (attended)*
4. Sustainable livestock production: issues, challenges & opportunities on *25-27 May. 2008 (attended)*
5. Seminar on recent advances in animal health and production on *11th Apr. 2008 (attended)*
- 6- Animal health and human safety on *6-8 Dec. 2009 (attended)*
- 7- Workshop on poultry Coccidiosis and Necrotic enteritis on *12th May. 2009 (attended)*
- 8- Microbial genome assembly and gene expression with NGS technology_Genomax on *25th April 2012 (attended)*
- 9- 35th Seminar on recent advances in animal health and production on *13 June 2012 (attended)*
- 10- Best Practices in Laboratory Management Workshop – Prague, Czech Republic September 21 – September 24, 2015
- 11- Biosecurity SOP Workshop Kuala Lumpur, Malaysia 6-9 December, 2015

10. Publications

10.1 PATENT

Novel attenuated and inactivated tissue culture adapted infectious bursal disease vaccine against very virulent infectious bursal disease virus Infection, (submitted to Innovation and Commercialization Center UPM for patent submission)

10.2 Current Work Research Project

1. I am working now in cooperation with all of the Dr. Ted Thurn from U.S. Department of State CRDF-Global and also Dr. Natasha K Griffith, Director, High Containment Facilities University of California, Los Angeles the United States to build a new curriculum in biosafety and biosecurity in the first time in Iraqi Universities and I started this year with the medical colleges

2- Primary cell culture in biosafety research

10.3 Papers in Refereed Journals:

1- Mayada F. Hasoon*, Majed H. **Mohammed** and Jaladet M.S. Jubrael (2015). Use of primary quail embryo fibroblast cells for propagation and assay of avian viruses. *Malays. J. of Vet. Res.* 6(1): 9-20

2- **Mohammed** M.H., Balqees A. and Ismael I. (2014). Molecular Characterization of local Isolates of Infectious Bursal Disease Virus from Broiler Chickens in Iraq. *Malays. Appl. Biol.* 43(2): 97-103

3- **Mohammed** M.H., Abdel Ameer H. Zahid, Latif I. Kadhim, and Mauida F. Hasoon (2013). Conventional and Molecular Detection of Newcastle Disease and Infectious Bursal Disease in Chickens. *J. World's Poult. Res.* 3(1): 05-12

4- Aseel A. Saeed¹, Mayada F. Hasoon² and **Mohammed** M.H. (2013). Isolation and Molecular Identification of *Salmonella typhimurium* from Chicken Meat in Iraq. *J. World's Poult. Res.* 3(2): 63-67.

5- **Mohammed**, M.H., Hair-Bejo, M., Omar, A.R. and Aini, (2012). REPLICATION OF VERY VIRULENT INFECTIOUS BURSAL DISEASE VIRUS IN THE CHICK EMBRYO CHORIOALLANTOIC MEMBRANE CELLS. *Malaysia Applied Microbiology.* 4(1):47-50

6-- **Mohammed**, M.H., Hair-Bejo, M., Omar, A.R. and Aini, (2012). REPLICATION OF VERY VIRULENT INFECTIOUS BURSAL DISEASE VIRUS IN THE CHICKEN MESENCHYMAL STEM CELLS. *Journal of Advanced Biomedical and Pathological Research.* (2) 1-7

- 7- Mohammed, M.H., M. Hair-Bejo , A.R. Omar, Mauida, F. Hasoon, Amer Alazawy, Emad Adwar Abdul Ahad and I. Aini (2012).. REPLICATION OF INFECTIOUS BRONCHITIS VIRUS IN THE CHICKEN MESENCHYMAL STEM CELLS. *J. World's Poult. Res.* 2(3): 33- 36.**
- 8- Mohammed, M.H., M. Hair-Bejo , A.R. Omar, Mauida, F. Hasoon, Amer Alazawy, Emad Adwar Abdul Ahad and I. Aini. (2012). Molecular Changes of the Fusion Protein Gene of Chicken Mesenchymal Stem Cells–Adapted Velogenic Newcastle Disease Virus. *Journal of Advanced Biomedical and Pathological Research.* (2) 51-59**
- 9- Mohammed M.H, M. Hair-Bejo, A.R. Omar, I. Aini and Mauida F. Hasoon (2012). Immune Response to Killed Very Virulent Infectious Bursal Disease Virus by Water-Catholyte-Anolyte in Specific-Pathogenic-Free Chickens. *J. World's Poult. Res.* 2(2): 33- 36.**
- 10- Mohammed, M.H., M. Hair-Bejo , A.R. Omar, Mauida, F. Hasoon, Amer Alazawy, Emad Adwar Abdul Ahad and I. Aini. (2012). Pathogenesis of Infectious bronchitis virus in Infected Broiler Chickens. *Basrah of Veterinary Research.* (11)1:66-69.**
- 11- Mohammed, M.H. and Mauida, F. Hasoon (2012). Molecular Characterization of Avian Infectious Bronchitis Virus Strains Isolated in Malaysia During 2012. *Basrah of Veterinary Research*, vol. (11) 4.**
- 12- Mohammed M.H and Mauida F. Hasoon (2011).Immune Response to Inactivated Newcastle Disease Virus by Electrolysed Catholyte Anolyte and Binary Ethylenimine in Specific Pathogen Free Chickens. . *J. World's Poult. Res.* 1(1): 18- 21.**
- 13- Mohammed, M.H., Shalash, A., Zahed, A. (1994). Effect of infectious bursal disease virus on infections produced by *Escherichia coli* in broilers. *Iraqi Journal of Veterinary Medicine.* 18:211-216**
- 14- Mohammed, M.H., Shalash, A., Zahed, A. (1996). Effect of infectious bursal disease on the response of chickens to *Mycoplasma synoviae*. *Iraqi Journal of Veterinary Science.* 10: 95-103.**
- 15- Mohammed, M.H., Shalash, A., Zahed, A. (2000). The pathogenesis of and susceptibility to malabsorption syndrome in broilers. *IPA Journal of Agricultural Research.* 33: 148-155.**
- 16- Harith M., Amer K., Mohammed, M.H. (2003). Clinical chemistry and histological changes in broiler chicken infected with Malabsorption syndrome. *Iraqi Journal of Veterinary Medicine.*27: 173-182.**

10.4 Refereed abstracts, posters and presentations

- 1. Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I. (2008). Adaptation and propagation of very virulent infectious bursal disease virus of Malaysian isolate in mammalian cell line. In: *Proceeding of 29th Malaysian Society of Animal Production (MSAP) Annual Conference, 25-27 May 2008, Bayview Beach Resort, Penang.* P.36**

2. Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I. (2008). Adaptation and propagation of very virulent infectious bursal disease virus of Malaysian isolate in DF-1 cell line. In *Proceeding of 20th Veterinary Association Malaysia (VAM) congress, 15th 17th August 2008, Equatorial Hotel Bangi-Putrajaya*. P. 51

3. Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I. (2009). Efficacy of inactivated very virulent infectious bursal disease virus isolate of Malaysia in specific pathogenic free chickens. In *Proceeding of 21th Veterinary Association Malaysia (VAM) congress, 7-9th August 2009, the Legend, Water Chalets Port Dickson, Negeri Sembilan*. P.20

4- Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I. (2012). Replication of Very Virulent Infectious Bursal Disease Virus in the Chick Embryo Chorioallantoic Membrane Cells. *The World Congress on In Vitro Biology is an international congress held every four years. The 2012 World Congress will be held from Sunday, June 3 – Thursday, June 7, 2012 in Bellevue, Washington.*

5- Mohammed, M.H. and Mauida, F. Hasoon (2012). Molecular Characterization of Avian Infectious Bronchitis Virus Strains Isolated in Malaysia During 2012. *The 3rd Scientific International Conference in Veterinary Medicine on 13 – 14 Nov. 2012 in Basrah, Iraq.*

10.5 Genbank

1. Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I (2009). Accession number FJ824699 (IBD UPM0081T10 VP2 gene). In: GenBank – <http://www.ncbi.nlm.nih.gov/>

2. Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I (2009). Accession number FJ898322 (IBD UPM0081T15 VP2 gene). In: GenBank – <http://www.ncbi.nlm.nih.gov/>

3. Mohammed, M.H., Hair-Bejo, M., Omar, A.R. and Aini, I (2009). Accession number FJ898321 (IBD UPM0081T20 VP2 gene). In: GenBank – <http://www.ncbi.nlm.nih.gov/>

4. Mohammed, M.H., Balqees A. and Ismael I. (2015). Accession number KP742967.1 (IBD virus isolate IgT1 VP2 mRNA, partial cds). In: GenBank-<http://www.ncbi.nlm.nih.gov/>

10.6 Language proficiency:

Arabic: Native

English: very good