

CURRICULUM VITAE



Contact Information

Surname: HUSSEIN

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Personal Data

Date of birth: 4/6/1966

Place of birth: Algeria

Nationality: Egyptian

Marital status: Married and have two daughters and one son.

Educational Background

PhD: March, 2002 in the Field of Veterinary Medicine (Fish Diseases), Nippon Veterinary & Life Science University (formally: Nippon Veterinary and Animal Science), JAPAN. Dissertation title “*Studies on saprolegniasis in salmonids in Hokkaido.*”

M.Sc.: March 1992 in the field of Veterinary Medicine (Infectious diseases, Fish), Faculty of Veterinary medicine, CAIRO University, Beni-Suef Branch, Egypt. Dissertation title “*Some studies on gills affections of fresh-water fishes*”

B.Sc.: May 1988 in Veterinary Medicine, Faculty of Veterinary medicine, CAIRO University, Beni-Suef Branch. Egypt. (Grade: very good, Rank: Fourth).

Current Position:

Associate Professor, Department of Fish Diseases and Management, Faculty of Veterinary Medicine, Beni-Suef University, Beni-Suef, 62512, EGYPT.

Administrative Positions:

- Head of Fish Diseases & Management from September 2021 till September 2024.
 - Lead Technical Officer Consultant, TCP/EGY/3705, FAO Egypt. “TCP/EGY/3705 for Development of National Strategy on Aquatic Animal Health (NSAAH) within the Progressive Management Pathway to improve aquaculture Biosecurity (PMP/AB)” from 19th May, 2021 until 31st December 2021.
- Executive Director of Beni Suef University web site 2009.
- Deputy Director of the Project Portal 2009-2010.
- Project Manager Portal 2011.
- Certified Trainer in Faculty and Leaderships Development Center (FLDC), Beni-Suef University.

Employment History

Employer	Position	Dates (From – to)
Faculty of Veterinary Medicine, Beni-Suef University	Associate Professor in Dep. Fish Diseases & Management	October, 2007-now
Faculty of Veterinary, Cairo University, Beni-Suef branch*	Lecturer. in the Dep. Fish Diseases & Management	2002-2007
Division of Fish Diseases, Nippon Veterinary & Life Science University, Tokyo, JAPAN.	Post-Doc Researcher, Division of Fish Diseases, Nippon Veterinary & Life Science University, Tokyo, JAPAN	2004-2006
Division of Fish Diseases, Nippon Veterinary & Life Science University, Tokyo, JAPAN.	PhD student	1997-2002
Faculty of Veterinary, Cairo University, Beni-Suef branch	Ass. Lecturer. in the Fish Dep.	1992-1997
Fac. Vet. Med., Cairo Univ. Beni-Suef branch	Demonstrator of fish diseases, Dep. Of Internal Medicine & Infectious Dis.	1989-1992

* Beni Suef university has had separated from Cairo University since 2005

Membership of Professional Associations

Professional body	Level of membership	
Japan Society for the Promotion of Science (JSPS), Japan.	Member	2004
Member of the Japanese Society of Fish Pathology.	Member	1998
Member of the Japanese Mycological Society	Member	1999
Member of the European Association of Fish Pathologists.	Member	1999
Member of the Egyptian Veterinary Medical Association.	Member	2002
Member of the Egyptian Society for the Development of Fisheries Resources & Human Health	Member	2007

Attending Conferences & workshops

- Satisfactory completion of self-evaluation of higher education institutions 13-12-2009 to 17-12-2009.
- Satisfactory completion of Session of the external audit of institutions of higher education institutions 19-12-2009 to 23-12-2009.
- The International Arab African Fish Resources Conference & Exhibition “Sustainable use and management of aquatic resources”, Cairo, Egypt, 2007.
- Satisfactory completion of Training of Trainer workshop (**TOT**) FLDP, Assuit Uni. 2006.
- 6th Symposium on Diseases in Asian Aquaculture “Aquatic animal health: facing new challenges”, Colombo, Sri Lanka, 2005.
- KHV infection: Present Status and Future Prospects for Prevention, Tokyo, Japan, 2004.
- 11th Scientific Congress of the Faculty of Vet. Med. Assiut Uni. 2004.
- 1st Intern.Conf. Vet. Res. Div., NRC, Cairo, 2004.
- 12th Scientific Congress of the Japanese Society of Antimicrobial Agents, Osaka, 2001.
- 11th Conference of Research Projects of the Overseas Students, Nippon Medical School, Tokyo, JAPAN, 2000.
- 1st Conference of Japanese Society of Ornamental Fish, Tokyo, Japan 2000.
- The International Conference of the European Association of Fish Pathologists (EAFP), Rhodes, Greece, 1999.

Honors

- **Ph.D. Scholarship** from July 1997 to March 2002 as a governmental Scholarship awarded from The Ministry of Higher Education of Egypt to study in Japan.
- **Post-Doctoral Fellowship** in Nippon Veterinary and Life Science University from November 2004 to November 2006 awarded from *Japan Society for the Promotion of Science* (*JSPS*), Japan.

Training

Training attended / Technical skills acquired	Place	Dates (From – to)
Molecular biology, cloning, sequence analysis, DNA vaccination, and others	Nippon Veterinary & Life Science University (formally: Nippon Veterinary and Animal Science), JAPAN.	November 2004 to October 2006
Microinjection in fish embryos	Tokyo university of Marine Science and Technology	October 2005 to November 2005
Training of trainers ‘TOT’ for a research project of developing the capacity of faculty members and leaders.	Assiut University, Egypt	24-27/12/2006

Professional Activities

- Fish Diseases and Management of Aquaculture.
- Microbiological and Histopathological Techniques.
- Molecular biological and Cloning Techniques.
- Fish vaccines developments and fish vaccination.

Academic Activities

A) Teaching undergraduates students from 1990 till now many courses including the following topics:

- Outline of Fish Biology.
- Bacterial, Viral, Mycotic, Parasitic, and Miscellaneous diseases of fishes.
- Strategy of Aquaculture and Fish farming techniques.
- Methods of controls and prevention of Fish diseases.
- Practical and field training through scientific trips.
- Molecular diagnostic techniques including:
 - Gel electrophoresis, DNA and RNA manipulation, PCR and Multiplex PCR, Restriction enzymes handling, Cloning in bacteria, and Protein purification
 - Various techniques in Bacterial & Fungus isolation & Identification
- Traditional techniques and advanced techniques.
- Different serological techniques including:

- ELISA(Enzyme Linked Immunosorbent Assay), Haemagglutination inhibition, passive haemagglutination, agar gel precipitation test (AGPT), and IFA (immunofluorescent antibody technique).

B) Supervisor for postgraduate studies (Master and Ph D)

1. Master Degree:

- **Some studies on flavobacteriosis in freshwater fishes**

Supervisors: Prof. Manal Adel Ahamed Essa Head of Fish Dep., Faculty of Vet. Med. Beni- Suf Univeristy.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni- Suf Univeristy.

Dr. Mohamed Abdel Azziz Associate Prof. fish diseases and management, Fish Dis. Dep., Faculty of Vet. Med., Sohage University.

- **Some studies on mycotic affections in freshwater fishes**

Supervisors: Dr. Walead Hamdy Hassan Associate Prof , microbiology Dep., Faculty of Vet. Med., Beni- Suf Univeristy.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni Suf Univeristy.

- **Bacteriological characterization of Streptococci isolated from different sources**

Supervisors: Dr. Walead Hamdy Hassan Associate Prof. Microbiology Dep., Faculty of Vet. Med., Beni-Suf Univeristy.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni Suf Univeristy.

Dr. Ahmed El-sayed Abdel-ghany Associate Prof. of zoonosis Faculty of Vet. Med., Beni Suf Univeristy

- **Recent techniques for detection of bacterial pathogens causing septicemic syndrome in Egypt**

Supervisors: Dr. Walead Hamdy Hassan Associate Prof , microbiology Dep., Faculty of Vet. Med., Beni- sutf Univeristy.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni Suf Univeristy.

- **Contribution towards prevention and control of septicemic syndrome caused by Aeromonas hydrophila in cultured freshwater fish**

Supervisors: **Dr. Mortada Mohamed A. Hussein** Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni- Suf Univeristy.

Dr. Walead Hamdy Hassan Prof. Microbiology Dep., Faculty of Vet. Med., Beni Suf Univeristy

- **Application of different approaches toward vaccination against edwardsiellosis in sharp-toothed catfish**

Supervisors: Dr. Walead Hamdy Hassan Prof. of Microbiology Dep., Faculty of Vet. Med., Beni-Suef University.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni Suef University.

- **Safety managerial approaches for reducing diseases incidence inside fish Egyptian hatcheries**

Supervisors: **Dr. Mortada Mohamed A. Hussein** Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni Suef University.

Dr. Fatma Mostafa Mohamed Professor of Fish Diseases and Management, Faculty of Veterinary Medicine, Beni-Suef University

2. Ph D Degree:

- **Application of recent techniques for detection of some pathogenic bacteria in fresh and marine water fishes**

Supervisors: Dr. Walead Hamdy Hassan Associate Prof., microbiology Dep., Faculty of Vet. Med., Beni-Suef University.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni-Suef University.

- **Some studies on enterosepticemia caused by *Edwardsiella tarda* infections in freshwater fishes**

Supervisors: Prof. Manal Adel Ahamed Essa Head of Fish Dep., Faculty of Vet. Med. Beni-Suef University.

Dr. Mortada Mohamed A. Hussein Associate Prof. fish diseases and management, Fish Dep., Faculty of Vet. Med., Beni-Suef University.

Dr. Mohamed Abdel Azziz Associate Prof. fish diseases and Management, Fish Dis. Dep., Faculty of Vet. Med., Sohage University.

- **Some studies on mycotic affections of cultured freshwater fish in Fayoum Governorate**

Supervisors: Dr. Walead Hamdy Hassan Prof., microbiology Dep., Faculty of Vet. Med., Beni-Suef University.

Dr. Mortada Mohamed A. Hussein Associate Prof. and head of fish diseases and management Dep., Faculty of Vet. Med., Beni-Suef University

- **Contribution towards combating streptococcosis in marine fish**

Supervisors: **Dr. Mortada Mohamed A. Hussein** Associate Prof. Fish diseases and Management, Fish Dep., Faculty of Vet. Med., Beni-Suef University. Dr. Walead Hamdy Hassan Prof. Microbiology Dep., Faculty of Vet. Med., Beni Suef University

Dr. Hosam Yaseen Radwan Institute of Animal researches

- **Fungi affecting cultured crustaceans in Egypt**

Supervisors: Dr. Walead Hamdy Hassan Prof. of Microbiology Dep., Faculty of
Vet. Med., Beni-Suef University.

Dr. Mortada Mohamed A. Hussein Associate Prof. Fish diseases and
Management, Fish Dep., Faculty of Vet. Med., Beni Suef University.

Dr. Nadia Ahmed Abd El.Ghany Chief Researcher of Animal Health
Research Institute (AHRI) Agricultural Research Center (ARC)

C) Reviewing research articles and scientific paper for national and international
scientific journals such as:

- **Fish and shellfish immunology.**
- **North American Journal of Aquaculture.**
- **Aquatic Toxicology.**
- **Beni-Suef University Journal of Basic and Applied Sciences**

D) **Current research Activity**

- Deposition of new species of Oomycete named *Saprolegnia salmonis* sp.nov. Hussein et Hatai in the American type culture collection (ATCC) accession number [ATCC®](#) [MYA-399 TT](#)

- Deposition of *gab C* gene sequences for *Streptococcus iniae*, *Streptococcus dysgalactiae*, and *Lactococcus garvieae* in **GenBank** with access numbers as following:

[SI GQ912305](#) *Streptococcus iniae* **gab C** gene sequence Published

[SD GQ912306](#) *Streptococcus dysgalactiae* **gab C** gene sequence Published

[LG GQ912307](#) *Lactococcus garvieae* **gab C** gene sequence Published

- Deposition of *Aeromonas hydrophila* strain Egypt/BSN-15614 cytotoxic enterotoxin gene, *Aeromonas veronii* strain Egypt/BSN-23514 cytotoxic enterotoxin gene, *Aeromonas veronii* strain Egypt/BSN-19714 cytotoxic enterotoxin gene, partial cds, **GenBank** with access numbers as following:

[KU258045](#) *Aeromonas hydrophila* strain Egypt/BSN-15614.

[KU258046](#) *Aeromonas veronii* strain Egypt/BSN-23514.

[KU258047](#) *Aeromonas veronii* strain Egypt/BSN-19714.

- Deposition of *Saprolegnia australis* strain Egypt/BNS23528-GC, ITS gene *Achlya bisexualis* strain Egypt/ BNS02358-GC, ITS gene, partial sequence for **5.8S ribosomal RNA gene**, **GenBank** with access numbers as following:

[MT075633](#) *Saprolegnia australis* Egypt/BNS23528-GC

[MT075632](#) *Achlya bisexualis* strain Egypt/ BNS02358-GC

- Deposition of *Streptococcus iniae*, 2 strains, namely BNS 01718-BR and BNS 07718-BS, *lctO* gene, partial sequences, GenBank with acc. no. [MT086601](#) and [MT086602](#) .
- Deposition of *Lactococcus garvieae*, 2 strains, namely BNS 02718-BR and BNS 06718-BS, *16S* rRNA gene, partial sequences, GenBank Acc. no. [MT158668](#) and [MT158669](#) .

- Deposition of *Fusarium verticillioides*, 3 strains, namely BNS 1117, BNS 2117, and BNS 3117, ITS- 5.8 S ribosomal RNA gene, Genbank acc.no. [ON973077](#) , [ON973078](#) , and [ON973079](#) , respectively.

Current research interests

Employing molecular tools in field of fish diseases diagnosis, diseases surveillance, and vaccine development.

Other Skills

Languages:

Arabic: as a mother tongue.

English: (read, speak and writing "Excellent")

Japanese: (speak "good", read and writing "fair")

Computer: Using of several microcomputer applications and software i.e. Microsoft (Windows and Office), Statistics, internet (web design), Graphics (photoshop), and Multimedia software.

Reference:

Name	Contact address	E-mail/Tel
Prof. Dr. Magdy Fathey El-Kady Department of Poultry diseases	Faculty of Veterinary Medicine, Beni-Suef University, Beni Suef 62511, Egypt	mfelkady@yahoo.com Tel. :(+20) 0822-32-7982 Mobile:(+20) 1000-77-7840
Prof. Dr. Ahmed Mamdoh Elshrif Department of infectious diseases	Faculty of Veterinary Medicine, Beni-Suef Uni., Beni Suef 62511, Egypt	a.elshrif1964@gmail.com Tel. :(+20) 0822-32-7982 Mobile:(+20) 1113-39-9694

List of Publications - [Google scholar link](#)

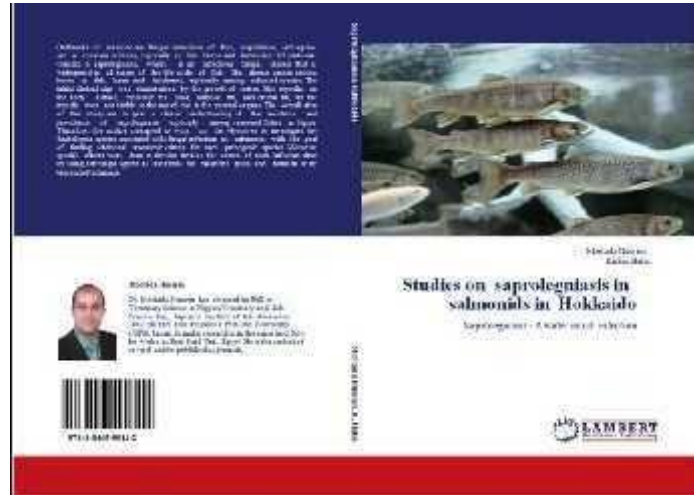
A) BOOKS:

Studies on saprolegniasis in salmonids in Hokkaido

Saprolegniasis – A water mold infection

[Mortada Hussein](#), [Kishio Hatai](#)

7 Dec. 2011; Edition: 1st Edition, Publisher: Lambert Academic Publishing, Germany, ISBN: 978-3-8465-9911-2



<https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-8465-9911-2/studies-on-saprolegniasis-in-salmonids-in-hokkaido>

B) Scientific papers:

1. **Hussein, M. M. A. and K. Hatai.** *Saprolegnia salmonis* sp. nov. isolated from sockeye salmon, *Oncorhynchus nerka*. *Mycoscience*, **40**, 385-389, **1999**.
2. **Hussein, M. M. A.; S. Wada and K. Hatai, A. Yamamoto.** Antimycotic activity of eugenol against selected water molds. *Aquatic Animal Health* **12**, 224-229, **2000**.
3. **Hussein, M. M. A.; K. Hatai and T. Nomura.** Saprolegniosis in salmonids and their eggs in Japan. *Journal of Wildlife Diseases* **37** (1), 204-207, **2001**.
4. **Hussein, M. M. A. and K. Hatai.** In vitro inhibition of *Saprolegnia* by bacteria isolated from lesions of Salmonids with saprolegniasis. *Fish Pathology* **36** (2), 73-78, **2001**.
5. **Hussein, M. M. A.; M. A. El-Feki; K. Hatai and A. Yamamoto.** Inhibitory effects of thymoquinone from *Nigella sativa* on pathogenic *Saprolegnia* in fish. *Biocontrol Science*, **7**(1), 31-35, **2002**.
6. **Hussein, M. M. A. and K. Hatai.** Pathogenicity of *Saprolegnia* species associated with outbreaks of salmonid saprolegniosis in Japan. *Fisheries Science* **68**, 1067-1072, **2002**.
7. **El-Feki, M.; K. Hatai and M. M. A. Hussein.** Chemotactic and chemokinetic of *Saprolegnia parasitica* toward different metabolites and fish tissue extracts. *Mycoscience*, **44**, 159-162, **2003**.

8. **Hussein, M. M. A. and W. H. Hassan.** Antibacterial activity of eugenol against selected fish pathogenic bacteria. Proc. The 1st Intern. Conf. Vet. Res. Div., NRC, Cairo, Egypt. pp. 356-364, February, **2004**.
9. **Hussein, M. M. A.** Contribution towards introduction of eugenol as a fish anesthetics in Carp, *Cyprinus carpio*, fish hatcheries in Egypt: Field trials. Proc. 11th Sci.Cong. Fac. Vet. Med., Assiut Univ., Egypt. **2004**
10. **Hussein, M. M. A. and K. Hatai.** Multiplex PCR for detection of *Lactococcus garvieae*, *Streptococcus iniae* and *S. dysgalactiae* in cultured Yellowtail. *Aquaculture Science* **54** (3), 269-274. **2006**
11. **Hussein, M. M. A. and K. Hatai.** Chronic mortalities in cultured yellowtail, *Seriola quinqueradiata* (Temminck and Schlegel) and amberjack, *Seriola dumerili* (Risso), during winter due to streptococcosis in southern Japan. *Egyptian journal of Aquatic Biology and Fisheries* **11** (3), 817-832. **2007**.
12. **Abd El Rahman, A. H.; Abd El Galil, M. A.; Kamel, H. H. and Hussein, M. M. A.** Effect of saprolegniosis on *Oreochromis niloticus*. *Egyptian journal of Aquatic Biology and Fisheries* **11** (3), 749-761. **2007**.
13. **M. M. A. Hussein, W. H. Hassan.** Efficacy of fosfomycin in controlling streptococcosis in Nile tilapia (*Oreochromis niloticus*). *Beni Suef Veterinary Medical Journal* **21** (1). 59-66. **2011**
14. **M. M. A. Hussein, W. H. Hassan, I. M. I. Moussa.** Potential use of allicin (garlic, *Allium sativum* Linn, essential oil) against fish pathogenic bacteria and its safety for monosex Nile tilapia (*Oreochromis niloticus*). *Journal of Food, Agriculture & Environment*. 11 (1): 696-699. **2013**.
15. **Hussein, M. M. A., Hassan W. H. Maha A. M.** Pathogenicity of *Achlya proliferoides* and *Saprolegnia diclina* (Saprolegniaceae) Associated with Saprolegniosis Outbreaks in Cultured Nile Tilapia (*Oreochromis niloticus*). *World Journal of Fish and Marine Sciences* **5** (2), 188-193. **2013**.
16. **Ebied, S. K. M., Ali, H. A., Hussein, M. M. A.** Studies on some pathogenic bacteria in cultured Nile tilapia (*Oreochromis niloticus*) with special reference to *Aeromonas hydrophila* and its sensitivity to different antimicrobial agents and some herbal extracts. *Animal Health Research Journal* **4** (1), 340-355. **2016**.
17. **M. M. A. Hussein, Walid H. Hassan, Mohamed O. Kamel.** Pathogenicity of *Aeromonas hydrophila* isolated from diseased sharp teeth catfish, *Clarias gariepinus*, with special reference to the lethality of its extracellular products. *Journal of Veterinary Medical Research*, **24** (1), 114-123. **2017**
18. **M. M. A. Hussein, Walid H. Hassan; A.M. A. El-Wkeel.** Multiplex PCR for simultaneous detection of 3 major fish pathogens incriminated in bacterial septicemic syndrome. *Journal of Veterinary Medical Research*, **24** (2): 440-449. **2018**.

19. **Mortada M. A. Hussein** , **Walid H. Hassan, Alaa Eldin Eissa, Soad S. A. Salama, Maha A. M. Sacran.** The potential effect of Trivir® (10% carvacrol) as an alternative antibacterial agent for controlling bacterial infections in the African catfish (*Clarias gariepinus*). *Egyptian Journal of Aquatic Biology & Fisheries*, 25(6): 433- 443. **2021**
20. **M. M. A. Hussein**, **AE Abdel-Ghany, H WH, SR Mohammed.** Public Health Hazards Related to Streptococci Species Isolated from Milk, Chickens and Fish. *Journal of Veterinary Medical Research* 29 (1), 27-37. **2022**
21. **MMA Hussein**, **WH Hassan, HA Yassen, AMA Osman.** Vaccination with bacterial ghosts of *Streptococcus iniae* and *Lactococcus garvieae* originated from outbreak of marine fish streptococcosis, induce potential protection against the disease in Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758). *Fish & Shellfish Immunology*, 141, 109008. **2023.**
22. **MMA Hussein**, **WH Hassan, NNA Abd El-Ghany, NH Ghanem.** Cumulative mortalities in white leg shrimp, *Litopenaeus vannamei* Boone 1931, cultured in biofloc system in Egypt reflected new record of *Fusarium verticillioides* infection. *Aquaculture International*, **2024.** <https://doi.org/10.1007/s10499-024-01513-4>.
23. **MM A Hussein**, **AAH Abd-El said, FMM Korn.** The Beneficial Effects of Using Some Natural Products for Prevention and Treatment of Saprolegniosis in Grass Carp Eggs and Fingerlings. *Egyptian Journal of Aquatic Biology & Fisheries*, 28(2), 343-372. **2024.** [10.21608/EJABF.2024.348262](https://doi.org/10.21608/EJABF.2024.348262).