



## Curriculum Vitae

### Dr. Marawan Adel Marawan

**B.V.SC, M.V.SC., Ph. D., lecturer of Infectious Disease  
Faculty of Veterinary Medicine, Benha university, Egypt**

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### *Personal Data*

**Full Name:** Marawan Adel Marawan Basuony.

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(Alternative) Marawanadel88@gmail.com.

**Nationality:** Egyptian.

**Birth date:** 15. 07. 1986

**Gender and Marital status:** Male & Married.

**Military status:** End military service at 1 \ 9 \ 2010.

**Personality description:** Hard worker, cooperative and self-dependent.

**Driving license:** Valid.

**Main field:** Veterinary infectious diseases (**Molecular biology of virus  
& bacteria and proteomics**).

## *Educational Background*

- 2008** Bachelor of Veterinary Medicine, faculty of veterinary medicine, Benha University
- 2012** Master of Veterinary Sciences, Animal Medicine Dep., Benha University **“Epidemiological studies on RVF disease in Egypt”**
- 2017** Ph.D. Channel system scholarship (**Egypt- Japan**) **“Molecular studies on bovine leukemia virus”**

## *Professional Positions*

- 2008 - 2012** Demonstrator in Animal Medicine Department, Benha University
- 2012 - 2014** Assistant Lecturer in Animal Medicine Department, Benha University
- 2014 - 2017** Member of governmental channel system mission for PhD at Japan
- 2017** Lecturer in Animal Medicine Depart., Benha University
- 2017-2020** Postdoctoral fellow from higher education government at the republic peoples of **China**

## *Carrier Objective, Research Area and Professional Techniques*

- To contribute relevant experience & education background to my working field.
- Real-time PCR, Conventional PCR and Electrophoresis
- Sequence data analysis
- Basic of bioinformatics
- Primer and probe sequence design
- DNA and RNA extraction
- Protein extraction, purification and proteomics Technique.
- Spectrophotometry
- Enzyme linked immuno-sorbent assay (ELISA)
- Hematological analysis
- Experimental Design consultant (designing experimental research).
- Virus isolation, titration and purification.

## *Post-doctoral Experience*

- Post-doctoral researcher in “**Key State Laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan City, Hubei Province 430070, China**” for 2 years during the period from March 1st, 2019 to February 28th, 2021.

## *Professional Societies and Associations*

- Member of the Sub-Association of Veterinarians at Qalyubia province.
- A member of Animal infectious diseases and prevention association in Japan since 2015.
- Member of the General Syndicate of Veterinarians at Cairo.
- A member of Egyptian Society of Cattle Diseases since 2006.
- A member of national Committee of Biological Science (ASRT, Egypt).
- Member of “**Reviewer board**” of ruminant science journal, ANAD PUBLISHING, India to review manuscript related to molecular biology from 2017 till 2019.

## *Language Skills*

| <b>Language</b> | <b>Reading</b> | <b>Speaking</b> | <b>Writing</b> |
|-----------------|----------------|-----------------|----------------|
| <b>Arabic</b>   | Excellent      | Excellent       | Excellent      |
| <b>English</b>  | Very good      | Very good       | Very good      |
| <b>French</b>   | fair           | fair            | fair           |

## *Computer and Internet Skills*

- International computer driver license (ICDL) certification (word, Access, excel, PowerPoint, internet, information technology, using the computer and managing files) 16/10/2012 SN. EGY001090721.
- Skillful Statistical analysis using Excel, SPSS
- Professional image using Adobe Photoshop.
- Preparation of Electronic book.

## *Activities in Faculty/University/Community*

| <b>Year</b>        | <b>Name of activity</b>   |
|--------------------|---|
| <b>2010-2014</b>   | Treatment of animal diseases in Vet Teaching hospital.  |
| <b>2010-2014</b>   | Treatment of animal diseases in surrounding community (through official convoys and field trips). |
| <b>(2009)</b>      | A member of CIQAP project.  |
| <b>2009-2014</b>   | Trainer for Veterinary doctors at the training centers and clinics.                               |
| <b>2015 – 2017</b> | Channel system scholarship to Japan for PhD.  |
| <b>2019 - 2021</b> | Postdoctoral fellow, Huazhong agriculture univ., China  |

## *Society and Environmental Development*

1. Participation in the activities of the second regional week for environmental protection in Qalyubia Governorate in June 2007
2. Participation in the activities of the fourth regional week for environmental protection in Qalyubia Governorate in June 2009.
3. Active participation in the free veterinary guideline convoys within the university's community service plan

4. Participation in clinical training for students of different grades and programs at the veterinary hospital in the college within the university's community service plan
5. Supervision of the college farm in accordance with the schedule established for the supervision of the scientific departments on the farm
6. Participation in the organization of job fairs organized by the Graduates Unit of the College during the period from 2017 to 2018
7. Participation in the field visits that were held according to the university's community service plan.
8. Member of the Committee on Community Service and Environmental Development Affairs.
9. Adviser to the student initiative "Vet United" to control infectious diseases and advance the role of veterinary medicine in community service from 2017 to 2019

### ***National Authority for Education Quality Assurance and Accreditation Activities***

1. Education quality coordinator of the Department of Animal Medicine, Faculty of Veterinary Medicine, Benha University, as part of the activities of applying for accreditation of the faculty.
2. Participation in the college accreditation from the National Authority for Education Quality Assurance and Accreditation in 2013
3. Coordinator for the "Academic Standards and Educational Programs" standard in the Quality Assurance Unit at the Faculty of Veterinary Medicine, Benha University, as part of the activities of applying for re-accreditation of the college.

4. Participation in writing the college's self-study as part of the activities of applying for re-accreditation of the college
5. Participation in the renewal of the college accreditation from the National Authority for Quality Assurance and Accreditation of Education in October 2020.

### *Professional Meeting and Conferences*

1. Attended and participated by a paper (**Epidemiological studies on RVF disease in Egypt**) in the first scientific conference for young youth researchers at the Faculty of Veterinary Medicine, Benha University, entitled "**Advances in Scientific Research**" on Sunday 31/3/2013.
2. Attending the 7th international conference of veterinary research division "**Development of animal wealth: Challenges and solutions**" National research center, Cairo, Egypt, December 2017.
3. Attended the Sixth Scientific Conference of the Faculty of Veterinary Medicine, Benha University, under the title "**The future prospective for veterinary medicine in sustainable development**" from July 31<sup>th</sup> to August 4<sup>th</sup> 2018 at Sharm El Sheikh.

### *Workshops, Training and Courses*

1. Attending a training course on "Practical Application of Sales and Marketing Skills" held at Cairo University from July 7<sup>th</sup> to August 2<sup>nd</sup>, 2007.
2. Attending a workshop in the international publication of scientific research to contribute to raising the international ranking of the university and college.
3. Attending a workshop in the strategic planning as one of the development goals in educational institutions.

4. Attending a workshop in the specifications of the exam paper in accordance with the academic standards and the intended learning outcomes.
5. Attending a workshop in intellectual property rights and their role in developing scientific research
6. A training course entitled "Polymerase Chain Reaction" on the devices in the biotechnology unit in the central laboratory of the Faculty of Veterinary Medicine, in the period from January 26<sup>th</sup> to 28<sup>th</sup>, 2014
7. Attending a workshop entitled "Advanced Techniques in Pathology", held at the Faculty of Veterinary Medicine, Beni Suef University, from 4 to 8 May 2014
8. Attending a training course entitled "International Strategic Prevention of Animal Infectious Diseases" held at the Animal Disease Control Center at University of Miyazaki, Japan, in November 2015
9. Attending a workshop in introduction about the Egyptian Knowledge Bank (EKB), which was held at the Faculty of Veterinary Medicine, Benha University on February 7<sup>th</sup>, 2018
10. Attending a training course organized by Cairo DAAD Academy under the title "How to present the scientific data" on November 13<sup>th</sup>, 2018.
11. Attending a training course organized by Cairo DAAD Academy under the title "Writing a Research Proposal for Post-Doc" on December 17<sup>th</sup>, 2018.
12. Attending a workshop entitled "Surgical and irreversible sterilization of animal ", which was given by Dr. Jay Ko, Professor at the University of Illinois, USA, and held at the Faculty of Veterinary Medicine, Benha University on December 19<sup>th</sup>, 2018.
13. A training course in self-assessment and its role in developing the quality of the educational process from 12<sup>th</sup> to 14<sup>th</sup> February 2019



**14.**A training course entitled "PCR and RT-PCR and its applications in diagnosis of diseases and genetic improvement" at the Central Laboratory, Faculty of Veterinary Medicine, Benha University in February 2019.

### ***Capacity Training Courses of Staff Supported by Benha University***

- 1.** A course on Financial and legal aspects of academic work from 15 to 17 June 2009
- 2.** A course on self-assessment and external review from January 21 to 23, 2012
- 3.** Word processing course for computer skills from January 21 to 23, 2012
- 4.** A course on E. uses of the computer and file management in the period from January 17 to 19, 2012.
- 5.** A course on Statistical Analysis in the period from January 17 to 19, 2012.
- 6.** A course in communication skills with different learning methods from January 24 to 26, 2012
- 7.** Excel course for computer skills from January 24 to 26, 2012.
- 8.** Laboratory safety course from 21 to 22 November 2018
- 9.** A course on competitive research projects from November 21 to 22, 2018
- 10.**A course on organizing scientific conferences from January 29 to 31, 2019
- 11.**A course on managing websites from 5 to 7 February 2019
- 12.**A course on self-assessment and external review from 5 to 7 February 2019
- 13.**Advanced PowerPoint Course on February 28, 2019
- 14.**ICDL license at 2012.

## *Research Projects*

1. Ecosmart Alternative Control Strategies against *T. annulata* and its Tick Vectors.  
LEAP-Agri Call - Research and Innovation for food and nutrition security and sustainable agriculture in Africa and Europe. (**Running 2018**).
2. Prevalence and molecular diagnosis of bovine leucosis in Kalybia governorate.  
National project funded by Benha university (**Finished**).

## *Scientific Excellence*

- Obtaining many certificates of appreciation on the Scientific Excellence Day organized by Benha University in the field of scientific research and international publication 2017-2021.

## *List of Publications*

1. Ihsanullah Shirani, **Marawan A. Marawan**, Najibullah Rahimi, Ali Dawood and Aizhen Guo (2021). "Comparative Genomic Diversity of *Clostridium Difficile* during Sequential Recurrences of Infections: A Review". *Innovations in Microbiology and Biotechnology* Vol. 2, 3, Page 47-5 doi.org/10.9734/bpi/imb/v2/13949.
2. **Marawan A Marawan**, Mingliang Deng, Chen Wang, Yingyu Chen, Changmin Hu, Jianguo Chen, Xi Chen, Huanchun Chen, Aizhen Guo (2021). "Characterization of BoHV-1 gG-/tk-/gE-Mutant in Differential Protein Expression, Virulence, and Immunity" *Veterinary sciences*, 8 (11), 253.

3. **Marawan A Marawan, Abdulaziz Alouffi, Suleiman El Tokhy, Sara Badawy, Ihsanullah Shirani, Ali Dawood, Aizhen Guo, Mashal M Almutairi, Fahdah Ayed Alshammari, Abdelfattah Selim (2021).** "Bovine Leukaemia Virus: Current Epidemiological Circumstance and Future Prospective" *Viruses* 13 (11), 2167.
4. **Ihsanullah Shirani, Hui Zhang, Gang Zhao, Siyi Lu, Marawan A Marawan, Ali Dawood, Yingyu Chen, Xi Chen, Jianguo Chen, Changmin Hu, Huanchun Chen, Aizhen Guo (2020)** "In Silico Identification of Novel Immunogenic Secreted Proteins of *Mycoplasma bovis* from Secretome Data and Experimental Verification" *Pathogens* 2020, 9, 770;
5. **Ihsanullah Shirani, Marawan A. Marawan, Najibullah Rahimi, Ali Dawood (2020).** Comparative genomic diversity of *Clostridium difficile* during recurrences of infections *Advances in Animal and Veterinary Sciences*. 8 (11): 1194-1202.
6. **Eman A. Manaa, Marawan A. Marawan, Abdelhamed Abdelhady , Abdelfattah Selim (2020)** Association between Bovine Leukemia Virus Infection, Reproductive Performance and Milk Production in Water Buffaloes and Dairy Cattle in Egypt. *Advances in Animal and Veterinary Sciences*. 8 (11): 1109-1113.
7. **Muhammad Zubair, Shafii Abdullahi Muhamed, Farhan Anwar Khan, Gang Zhao, Harish Menghwar, Muhammad Faisal, Hui Zhang, Xifang Zhu, Muhammad Asif Rasheed, Yingyu Chen, Marawan A. Marawan, Huanchun Chen and Aizhen Guo (2020).** "Identification of 60 secreted proteins for *Mycoplasma bovis* with secretome assay" *Microbial Pathogenesis* 143 (2020) 104135.
8. **Muhammad Zubair, Farhan Anwar Khan, Harish Menghwar, Muhammad Faisal, Muhammad Ashraf, Muhammad Asif Rasheed, Marawan A.**

**Marawan, Ali Dawood, Yingyu Chen, Huanchun Chen and Aizhen Guo (2020).**” Progresses on bacterial secretomes enlighten research on Mycoplasma secretome” Microbial Pathogenesis 144 (2020) 104160

- 9. Abdelfattah Selim, Marawan A. Marawan, Abdel-Fattah Ali, Eman Manaa and Hassab Allah AbouelGhaut (2019).** “Seroprevalence of bovine leukemia virus in cattle, buffalo, and camel in Egypt” Tropical animal health and production. <https://doi.org/10.1007/s11250-019-02105-8> ISSN 0049-4747.
- 10. Mahmoud A. Y. Helal, Marawan A. Marawan and Halla E.K. El Bahgy (2019).** “Clinico-biochemical and Electrocardiographic Changes in Cattle Naturally Infected with Lumpy Skin Disease” AJVS 60 (1): 40-47.
- 11. Halla E. K. El Bahgy, Hala K. Abdelmegeed and Marawan A. Marawan (2019).** “Serological and molecular studies on BTV in small ruminants at risk area in Egypt post- BT outbreak in Libya” Assiut Vet. Med. J. Vol. 65 No. 163.
- 12. Halla E. K. El Bahgy, Hala K. Abdelmegeed and Marawan A. Marawan (2018).** “Epidemiological surveillance of bovine viral diarrhea and rift valley fever infections in camel” Veterinary World, 11(9): 1331-1337.
- 13. Abdelghany Hefnawy; Mahmoud A.Y. Helal; Marawan A. Marawan; Rania Abo- Sakaya And Halla E.K. El Bahgy (2018).** “Molecular Study of FMD Infected Egyptian Buffalo Calves with Reference to Electrocardiography and Cardiac Biomarkers as Prognostic Tools” Assiut Vet. Med. J. Vol. 64 No. 159 134-143.
- 14. Khater, H. F., A. M. Ali, G. A. Abouelella, M. A. Marawan, M. Govindarajan, K. Murugan, R. Z. Abbas, N. P. Vaz and G. Benelli (2018).** "Toxicity and growth inhibition potential of vetiver, cinnamon, and lavender essential oils and their blends against larvae of the sheep blowfly, *Lucilia sericata*." International journal of dermatology ;57(4):449-457

- 15. Marawan, M. A., H. Mekata, T. Hayashi, S. Sekiguchi, Y. Kirino, Y. Horii, A.-M. M. Moustafa, F. K. Arnaout, E. S. M. Galila and J. Norimine (2017).**  
"Phylogenetic analysis of env gene of bovine leukemia virus strains spread in Miyazaki prefecture, Japan." *Journal of Veterinary Medical Science* 79(5): 912-916.
- 16. Marawan, M. A., M. Abdel-moneim, F. K. Arnaout and M. El Sayed (2016).**  
"Partial BLV RNAs are Present in Plasma Exosomes of BLV Infected Animals"  
*Journal of Ruminants Science* 5(2): 133-142.
- 17. Marawan, A., M. H. Ebied, E. Galila, A. I. Youssef and K. Z. Hassan (2012).**  
"Epidemiological studies on Rift Valley fever disease in Egypt." *Benha Veterinary Medical Journal* 23(1): 171-184.

## *Scientific Books*

- Participate in the following books:

### **Infectious Diseases of Farm Animals**

1. Volume I: Infectious Diseases of Equines, Camels and Pet Animals
2. Volume II: Infectious Diseases of Cattle, Buffaloes, Sheep, and Goats
3. Volume III: Practical Notes in Infectious Diseases

## *References*

**1. Professor: Junzo Norimine (DVM, PhD).**

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Faculty of agriculture, University of Miyazaki, Gakuen-Kibanadai, Nishi 1-1,  
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**2. Prof. Aizhen Guo, (DVM, PhD).**

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