



## CURRICULUM VITAE

### PERSONAL INFORMATION

**Name:** Alaa Hussein Ahmed Ibrahim

**Date of birth:** Dec 7, 1998

**Place of birth:** Qalyubia, Egypt

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**Military Status:** Finished

**Marital Status:** Single



### CURRENT INSTITUTIONAL AFFILIATION

- Title:** Demonstrator of Virology.
- Office:** Department of Virology, Faculty of Veterinary Medicine, Benha University.
- Address:** Moshtohor, Toukh - 13736, Qalyubia, EGYPT.

### EDUCATIONAL QUALIFICATIONS

Conferring Institution	Degree	Field	Year
Faculty of Veterinary Medicine, Benha University, EGYPT	Bachelor of Veterinary Medicine (B.V.M.) "Excellent"	Veterinary Medicine	2022
Faculty of Veterinary Medicine, Benha University, EGYPT	Master student of virology	Veterinary Medicine	2023 - Present

### ACADEMIC APPOINTMENTS

Institution	Position	Date
Faculty of Veterinary Medicine, Benha University, EGYPT	<i>Demonstrator</i> at Virology Department	Nov 2022 - Present

### SCIENTIFIC INTERESTS

- Interaction between different animal viruses and host cells.
- Diagnostic methods and vaccine development for animal viruses.
- Serological and molecular studies of veterinary oncogenic viruses in Egypt.
- Poultry Diseases.
- Control and manage poultry field problems
- Research.
- Avian Immunity.
- Molecular Biology.

1. Monitor and manage the health status of poultry flocks to ensure optimal productivity and welfare.
2. Diagnose and treat diseases in coordination with production teams.
3. Design and implement vaccination and medication programs.
4. Conduct post-mortem examinations and laboratory investigations when needed.

## **RESEARCH EXPERIENCE**

### **Methodological skills:**

1. Aware of biosafety rules in the BSL-2 lab.
2. Isolation, identification, and titration of different viral samples.
3. Propagation and testing of viruses in specific pathogen-free eggs (SPF).
4. Handling of different tissue culture lines.
5. Perform a wide range of virological techniques (Hemagglutination "HA" test, Infectivity titration test, and plaque assay).
6. Perform serological analysis such as (Hemagglutination inhibition test "HI", Serum neutralization test "SNT", and ELISA).
7. Using immunoprecipitation techniques to analyze the interaction between viral proteins.
8. Wide knowledge of molecular biology techniques (genome extraction, Real-time PCR, phylogenetic analysis, and protein analysis)
9. Evaluate the efficacy and potency of the final vaccine product.
10. Blood sampling from the chicks' wing or jugular vein.
11. Oro-pharyngeal, tracheal, and cloacal swabs collection.
12. Designing experiments with specific emphasis on targeted parameters.
13. Follow-up experiments.
14. Illustrate research findings.
15. Data collection through recent research.
16. Bioinformatics knowledge and GenBank accessibility.
17. Scientific writing and data interpretation.
18. Microsoft Office (Word, PowerPoint, and Excel).
19. Presentation skills.
20. Oral and written communication skills.

### **Aims:**

1. Aim to be one of the best virology professors.
2. Aim to learn more.

## **COURSES & TRAINING**

<b>Training</b>	<b>Institution</b>	<b>Date</b>
Methods of Laboratory Diagnosis Certification	Faculty of Veterinary Medicine, Benha University, EGYPT	Aug 2021
Biosafety in Labs and Biological Waste Management Certification	Faculty of Veterinary Medicine, Benha University, EGYPT	May 2024
Applications of Next Generation Sequencing in Cancer Biology	National Cancer Institute, EGYPT	Nov 2024

## TEACHING EXPERIENCE AND OTHER INSTITUTIONAL ACTIVITIES

- Virology practical curriculum for undergraduate students.
- Summer training for junior and senior students.
- Seminars in virology and avian viral diseases.
- Organization of the 7<sup>th</sup> International Scientific Conference, Faculty of Veterinary Medicine, Benha University "Climate Change and the Future of Animal Wealth, "Challenges and Prospects" - Jul 2022.

## HONORS AND AWARDS

- **Recognized as Ideal Soldier 2023 for exemplary service and dedication:** The Egyptian Armed Forces.
- **Graduated with Honors:** *Faculty of Veterinary Medicine, Benha University.*

## LANGUAGE

**Arabic:** Native.

**English:** Very good (Both writing and speaking).

**French:** Beginner.