

Dr. Heba Allah Mohamed Dowidar



Lecturer in Microbial and Immunological Sciences

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Date of Birth: 17/02/1988

Professional Profile

Distinguished academician and educator with specialized expertise in Bacteriology, Mycology, and Immunology, supported by a robust background in curriculum development, laboratory instruction, and academic mentorship. Demonstrated proficiency in integrating clinical relevance with theoretical principles, and a sustained commitment to cultivating scientific inquiry and analytical precision among students in the biomedical and health sciences. Recognized for dynamic lecturing, evidence-based pedagogy, and sustained contributions to program enhancement, academic quality assurance, and institutional advancement.

Academic Credentials

- **Doctor of Philosophy (Ph.D.)** in Bacteriology, Immunology, and Mycology
Faculty of Veterinary Medicine, Mansoura University – 2020
- **Master of Science (M.Sc.)** in Bacteriology, Immunology, and Mycology
Faculty of Veterinary Medicine, Kafr El-Sheikh University – 2015

- **Postgraduate Diploma** in Bacteriology, Immunology, and Mycology
Faculty of Veterinary Medicine, Kafr El-Sheikh University – 2012
- **Postgraduate Diploma** in Biochemistry and Molecular Biology
Faculty of Veterinary Medicine, Mansoura University – 2024
- **Bachelor of Veterinary Medical Sciences (B.V.Sc.)**
Mansoura University – 2009

Leadership and Administrative Experience

Chair, Department of Medical Laboratory Technology

- Provided strategic leadership to a multidisciplinary team of academic and administrative staff, with a primary focus on curriculum enhancement, instructional quality, and institutional alignment.
- Oversaw departmental operations, including the allocation of teaching responsibilities, faculty performance evaluations, and the facilitation of research and scholarly activities.
- Represented the department in council deliberations, contributing to institutional policy formulation and governance.

Head of Examinations, Department of Medical Laboratory Technology

- Supervised the administration of 36 departmental examinations, including schedule design, committee coordination, and quality assurance of assessment outcomes.
- Maintained strict confidentiality and academic integrity throughout the examination lifecycle.
- Managed academic misconduct cases in accordance with institutional regulations and ethical standards.

Chair, Institutional Accreditation Standards Committee (2015 Revision)

- Led a cross-departmental team in the comprehensive review and documentation of compliance with updated institutional accreditation standards.
- Coordinated evidence collection, internal audits, and final reporting for reaccreditation processes.

Program Coordinator, Medical Laboratory Technology

- Oversaw academic planning, course scheduling, and accreditation compliance for the program.
- Served as the primary liaison between students, faculty, and administrative units to ensure program integrity and effectiveness.

Supervisor of Graduation Projects

- Provided mentorship and scholarly supervision to senior students during the research, development, and defense of their final-year projects.

Academic and Pedagogical Contributions

- Designed and supervised practical laboratory sessions, equipping students with critical technical competencies in clinical microbiology and immunology.
- Led the periodic revision of course content to reflect current scientific advancements and regulatory standards.
- Developed a wide array of instructional materials, including laboratory manuals, visual presentations, and interactive case studies.
- Delivered didactic lectures and hands-on instruction across foundational and advanced subjects in the microbial and biomedical sciences.
- Demonstrated fluency with educational technologies and digital presentation platforms to enhance learning engagement.
- Provided individual academic advising and career guidance, supporting students' educational and professional trajectories.

Academic Appointment

Lecturer

Department of Medical Laboratory Sciences

Higher Institute of Technology for Applied Health Sciences, Badr Institute for Science and Technology – Cairo, Egypt

October 2021 – Present

Delivering advanced theoretical and practical instruction to undergraduate students in the Medical Laboratory Technology program. Contributed to curriculum design, laboratory coordination, and interdisciplinary teaching across core and elective modules.

Courses Instructed

- **General Microbiology (Level 1)**
Fundamental microbial biology, including classification, structure, metabolism, and host-pathogen interactions. *(4 semesters)*
- **Basic Bacteriology (Level 2)**
Bacterial morphology, physiology, genetics, antimicrobial resistance, and diagnostic techniques. *(4 semesters)*
- **Systemic Bacteriology (Level 2)**
Clinically significant bacterial infections, laboratory identification, and evidence-based diagnostics. *(4 semesters)*

- **Basic Immunology (Level 2)**
Innate and adaptive immunity, immunopathology, hypersensitivities, and host defense mechanisms. (4 semesters)
- **Parasitology I & II (Level 2)**
Life cycles, pathogenesis, diagnostics, and control strategies for protozoa, helminths, and arthropods. (4 semesters each)
- **Virology (Level 3)**
Viral replication, structure, clinical virology, disease mechanisms, and laboratory diagnostics. (3 semesters)
- **Mycology (Level 3)**
Fungal taxonomy, pathogenic species, clinical syndromes, and culture-based identification. (3 semesters)
- **Infection Control and Sterilization**
Principles of sterilization, disinfection, and biosafety in laboratory and healthcare settings. (3 semesters)
- **Medical Terminology**
Core vocabulary and clinical language foundations for effective communication in healthcare. (3 semesters)

Publications

1. **Ecological prevalence, genetic diversity, and multidrug resistance of *Salmonella enteritidis* recovered from broiler and layer chicken farms**
Poultry Science
<https://www.sciencedirect.com/science/article/pii/S0032579123008398>
2. **In-water *Bacillus* species probiotic improved water quality, growth, hemato-biochemical profile, immune regulatory genes and resistance of Nile tilapia to *Aspergillus flavus* infection**
Aquaculture International
<https://link.springer.com/article/10.1007/s10499-024-01503-6>
3. **Dietary supplementation with fermented prebiotics and probiotics increases growth, immunity, and histological responses in *Litopenaeus vannamei* challenged with *Vibrio parahaemolyticus***
Aquaculture International
<https://link.springer.com/article/10.1007/s10499-024-01704-z>
4. **Virulence genotyping profiles of cefazolin-resistant *Yersinia enterocolitica* isolated from milk and milk products in Egypt**
Egyptian Journal of Veterinary Sciences
https://ejvs.journals.ekb.eg/article_294715.html
5. **Molecular isolation and identification of multidrug-resistant *Escherichia coli* from milk, meat, and related products**
Journal of Advanced Veterinary Research
<https://www.advetresearch.com/index.php/AVR/article/view/1267/754>
6. **Load of coliforms and fecal coliforms in dairy desserts in Aswan City**
International Journal of Life Science Research Archive

<https://sciresjournals.com/ijlsra/content/load-coliforms-and-fecal-coliforms-dairy-desserts-aswan-city>

7. **Virulence genes and antibiotic resistance patterns of *Bacillus cereus* isolated from Egyptian milk, milk powder, and ice cream**
Journal of Advanced Veterinary Research
<https://www.advetresearch.com/index.php/AVR/article/view/1276/750>
8. **Virulence genotyping and antimicrobial resistance profiles of *Yersinia enterocolitica* isolated from meat and meat products in Egypt**
Brazilian Journal of Biology
<https://www.scielo.br/j/bjb/a/94PCgY6V8cC7mZ6B5DGpNfN/abstract/?lang=en>
9. **Molecular detection of isolated *Bacillus cereus* from certain meat products**
Kafrelsheikh Veterinary Medical Journal – 2015

Scientific Conferences

- The 8th International Conference of ESES – *Scientific Research and Sustainable Development*, Suez Canal University
- Annual Conference for Postgraduate Studies and Applied Research – *Scientific Alliances and Contemporary Challenges*, Suez Canal University
- The 6th Scientific Conference for Food Health, Safety, and Technology, Faculty of Veterinary Medicine, Zagazig University
- The 7th Scientific Conference on Food Safety – *Human and Food Health*, Faculty of Veterinary Medicine, Zagazig University
- The 10th International Scientific Conference, Faculty of Veterinary Medicine, Mansoura University

Professional Development and Workshops

- Strategic Planning
- Program and Course Descriptions
- Self-Assessment in Accordance with Updated Accreditation Standards
- Techniques for Preparing Self-Study Reports
- Effective Teaching and Learning Strategies
- Examination Systems and Student Assessment Methods

Certificates and Training Courses

1. Training Course on the Approved Clock Hour System
2. Training Course in Scientific Department Quality Assurance
3. Training Course in International Scientific Publishing
4. Training Course in Information Systems and Technology

5. TOEFL Certificate – Score: 566

References / Referees

Prof. Gamal Abd El-Gaber Mohamed Younis

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