

Nada Mohamed Elmayah

ASSISTANT LECTURER, MICROBIOLOGY

**Damietta, Egypt | 01030027798 | nelmayah@horus.edu.eg ,
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Objective

Early-career researcher in **nanobiotechnology and microbiology**, with a strong focus on **nanoparticle-based drug delivery systems** and **antimicrobial activity against multidrug-resistant bacteria**. Experienced in academic teaching, research coordination, and international scientific networking.

Education

Ph.D. in Sciences (Microbiology) - Damietta University, Faculty of Science **(Registered 2023)**

Thesis title | **Synergistic Effect of Some Nanoparticle-Based Drug Delivery Systems Against Some Multi-Drug-Resistant Bacteria**

(final stage; degree award expected within one month)

MSc in Sciences (Microbiology) - Damietta University, Faculty of Science **(2021)**

Thesis title | **Biosynthesis of Nanoparticles by some Marine Microorganisms and their Antimicrobial Activity against some Pathogenic Microorganisms**

B.Sc. in Sciences at the Faculty of Science – Damietta University. **(2013-2017)**

Microbiology and Chemistry | Grade: Very Good

Experience

- **August 2024 – Present** **Assistant Lecturer | Faculty of Technology for Applied Health Sciences, Horus University**
 - **Medical Laboratories Department & Basics Sciences**

Experience in academic work, academic advising, scientific research, control, and examination works.
- **July 2021 – till Now** **Office Director | Vice President of Horus University, Dean's Office of the Faculty of Pharmacy.**
 - Responsible for administrative transactions at the office of the Vice President of Horus University and the Dean of the Faculty of Pharmacy.
- **January 2021 to July 2021** **Employee | Dean's Office of the Faculty of Physical Therapy.**
- **2018 to 2019** **Coordinator | the scientific creativity center for new Damietta - faculty of science.**

Publication

- **Elmayah, N.M.,** Abou-Dobara, M.I., Baka, Z.A.M. *et al.* A novel green synthesized ZnO-based antimicrobial nanocomposite: synergistic action, in vitro cytotoxicity, and molecular docking studies of ceftazidime, metformin, and chitosan against multidrug-resistant *Salmonella enterica*. *Microb Cell Fact* (2026). <https://doi.org/10.1186/s12934-026-02934-x>
- **Elmayah, Nada M., et al.** "Response Surface Method for Optimizing the Biosynthesis of Silver Nanoparticles Using *Talaromyces stipitatus* and Their Antimicrobial Activity." *Jordan Journal of Biological Sciences* 15.3 (2022).

Activities

Memberships and Committees

- **The American Society for Microbiology, Membership Type:** Global Outreach - Contributing Membership / **Expire:** 2026-12-31 **ID:** 200542953
- **Member of the African Society of Laboratory Medicine (ASLM),** Membership Level: Friends of ASLM
- Member of the **Scientific Research Ethics Guide Preparation Committee,** Horus University.
- **Active Member** | Scientific Research Unit, Horus University.
- **Board Member** | Entrepreneurship and Training Center, Horus University.
- **Coordinator** | Child University Program, Horus University.
- **Coordinator** | Horus Medical Scientific Research Club, Faculty of Medicine, Horus University.
- **Member** of the Committee for Community Service, Environmental Development, Student Affairs, and Education, AHST-HUE
- **Founder & Supervisor** | Scientific Association for Applied Health Sciences, Horus University.
- **Co-Supervisor** | Student activity: Life Pioneers, Faculty of Medicine, Horus University.
- **Co-Supervisor** | Student activity: Enactus, Horus University.
- **Facilitator** | Scientific Assembly of the Pharmacy Student Union (EPSF-HUE), Horus University.
- **Additional Coordinator,** USAID Egypt Pioneers and Scientists Program (pend).

Workshops & Events Coordination:

- **Coordinator,** "Principles of Ethics of Scientific Research", SRU, Horus University, 2024.
- **Coordinator,** "Exploring Opportunities in Grants & Projects", Horus University, 2024.
- **Coordinator,** "MEXT Scholarship", Horus University, 2024.
- **Supervisor,** HUE 1st Job Fair, Faculty of Pharmacy, 2022.
- **Coordinator,** "Microbiology Day", Faculty of Pharmacy, 2023 & 2024.
- **Official Website** maintenance and updates for the Faculty of Technology for Applied Health Sciences, Faculty of Pharmacy, and Scientific Research Unit, Horus University.
- Creation and management of the Faculty of Pharmacy & Faculty of Technology for Applied Health Sciences **social media pages,** Horus University.
- Organizer for various student courses, camps, and events, including *welcoming and graduation parties.* And Supervision of scientific trips.
- External missions and supervision as part of the faculty delegation:
 - *Family and Community Awareness Program,* affiliated with Al-Azhar and the Ministry of Youth and Sports in Hurghada.

Achievements & Volunteer Work:

- **Ideal Student**, Faculty of Science, Damietta University, 2016-2017.
- Speaker at an event for high school students, Life Maker Charity.
- Founder & Leader, Smile Team student activity, Faculty of Science, Academic years 2015/2016 and 2016/2017.
- Member, Students' Union, Vice President of Social and Trips Committee, 2015-2016.

Skills & Abilities

- **Language skills:**
 - Arabic: mother language
 - English level: Very good writing, speaking, reading, and listening.
 - TOEFI course: Center for Public Service, Faculty of Education in Damietta, score:665. (2020, .2023) , local
- **Computer skills:**
 - Excellent knowledge of Microsoft® Office, good user of Design Expert, Prezi
 - Design and preparation of promotional materials, documents, photos, events, and certificates (proficient in image editing software). Good user of AI tools.
- **Interpersonal skills:**

Excellent organizational skills, flexibility, teamwork, and leadership abilities.

Courses, workshops, and training

- TOT "taring of teenier.", **Supreme Council of Universities, Egypt, 2025**
- Complete "Early Career Researchers Academy" organized by the Egyptian Knowledge Bank and Clarivate. The academy, consisting of seven programs and twenty-one modules, was organized between **April and October 2025**, targeting topics around scientific research, publication ethics, and academic-industry collaborations.
- Module "International Networking" within the framework of the DAAD Kairo Akademie (DKA) on 06. Juli 2025
- Workshop: "Exploring Opportunities in Grants & Projects ", Horus University. 2024
- Workshop: "MEXT Scholarship ", Horus University. 2024
- Workshop: "Using Microsoft Teams application powered by AI ", Horus University. 2024.
- Module: "Strategic leadership ", **DAAD Kairo Akademia. 2023**
- Attending seminars and workshops about the quality of education and accreditation of educational institutions.
- Course: "First Aid", Horus University, 2023.
- Medical analysis course, Advanced Academy, Cairo.
- Workshop: "Nutrition", Delta University, 2018.
- Workshop: "Drug Resistance", Delta University.
- Workshop: " Water analysis " in the faculty of science, Damietta
- Workshop: " Safety of laboratories" in the faculty of science, Damietta

- Workshop: " Spreading scientific awareness and setting goals" in the faculty of science, Damietta, 2015.
- Injaz Egypt Innovation Camp- Business Leadership, 2015.
- First aid course at Al-Azhar College Hospital, Damietta, 2016.
- Workshop: " How to make scientific research ", 2016.
- Summer training at the General Organization for Export and Import Control - Damietta Port.
- Summer training at Dumyat laboratory, 2016.
- Summer training at drinking water and sewage company - Damietta, 2016.

Reference

- **Prof. Dr. Eman R. Elbendary** (Vice President of Horus University-Egypt and Dean of Faculty of Pharmacy)
E-Mail Address: eelbendary@horus.edu.eg, **phone: 01005174242**
- **Prof. Dr. Mohamed I. Abou-Dobara** (Dean of the Faculty of Science, Damietta University)
E-Mail Address: aboudobara@gmail.com, **phone: 01224704250**
- **Prof. Noha Kamel** (Dean of the Faculty of Applied Health Sciences Technology, Faculty of Science, Horus University)
E-Mail Address: nkamel@horus.edu.eg