

CURRICULUM VITAE

Merna Saad Zoweil

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Web of Science: NWH-3139-2025



Academic Degree

2025 – Present Doctor of Philosophy in Industrial Pharmacy, Faculty of pharmacy, Cairo University.

2023 – 2025 Master of Science in Pharmaceutical Technology - Title: Formulation and Characterization of drug loaded nanocarriers in skin delivery of cosmeceuticals, **June 2025**, Faculty of Pharmacy, German University in Cairo.

2017 – 2022 Bachelor of Pharmaceutical Sciences, Faculty of Pharmacy, German University in Cairo (Excellent with Honors).

2012 – 2017 International General Certificate of Secondary Education (IGCSE), Arab Academy for Science and Technology and Maritime Transport (International Educational Program (IEP)), Alexandria (Ranked third in Class), Alexandria, (2012-2017).

Awards and Achievements

- **Best Teaching Assistant** for the academic year 2022-2023, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University.
- Third prize winner, “**The Third Eye on China**” Short Video Competition, Lianyungang, China, August 2023.
- **Cosmeceutical innovation award** in the 8th International Conference of Arab Pharmacists, **AIPC 2024**, 20th April 2024.

Career History and Professional Experience

Titles

- Assistant Lecturer of Pharmaceutics, Faculty of pharmacy and drug technology, Egyptian Chinese University (1/6/2025-till present).

- Teaching Assistant at Department of Pharmaceutics, Faculty of pharmacy and drug technology, Egyptian Chinese University (2023-2025)

Academic Activities

- Member of 5th year control for undergraduates for final written exams, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (2023 – 2025).

-Academic advisor for 5th year students, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (2023-2025).

Research interest

Cosmeceuticals, Nanotechnology, Skin Diseases, Topical Formulations, Dermal and Transdermal drug delivery and skin care therapeutics.

Research Activities

1-Publications

1- **Zoweit, M.** (2025). Enhancing Resveratrol Delivery: A Nanotechnological Approach. *Translational Health Sciences*, 1(1), 40-51. doi: 10.21608/ths.2025.345020.1004.

2- **Zewail, Merna S., Engy Sherin Hassan Ahmed, and Dina Louis Nassif.** 2025. "Azelamist: An Invasome-Based Spray for Enhanced Dermal Delivery of Azelaic Acid." *Journal of Advanced Research* 74: S1–2. doi:10.1016/j.jare.2025.06.050.

2- Peer Reviewer

Merna has reviewed 3 review articles verified on web of science site:

<https://www.webofscience.com/wos/op/peer-reviews/summary>

3- Conferences

- Poster Presentation “**From Formulation to Efficacy: Delivery of Sustained-Release Dapsone via Patches for Concealment and Healing of Acne in Preclinical Studies**”, The Eighth International Conference of Arab Pharmacists, AIPC 2024, 20th April 2024.

- Poster Presentation “**Azelamist: An Invasome-Based Spray for Enhanced Dermal Delivery of Azelaic Acid.**”, 12th International Scientific Conference “Innovations in pharmacy profession and advancing research,” Faculty of pharmacy, Cairo University, 5 and 6 May 2025.

- Attendee of the 4th **Edition of Africa Health ExCon**, 25-27 June 2025, Cairo, Egypt

4- Research and Statistical Analysis Programs

1. **ZEISS ZEN Blue software** for fluorescence-based imaging and analysis of biological samples.
2. **Graph Pad Prism analysis program** for biostatistics analysis, scientific graphing, and curve fitting.
3. **Reference manager software** to handle references and full-text documents, and citations while writing thesis and articles.
4. **Mendeley program** to handle and share references as well full-text documents, and citations while writing thesis and articles.

5- Research Experience and Techniques

1. **Malvern Zetasizer** for particle size and zeta potential analysis.
2. **UV-Vis spectrophotometer** for quantitative drug analysis.
3. **Probe sonication** for nanocarrier formulation.
4. **Cooling centrifuge** for temperature-controlled sample separation.
5. Performed skin permeation studies using **Franz diffusion apparatus**.
6. **pH meter** calibration and sample pH measurement

7. **Vortex mixer** for sample homogenization
8. Experienced in solvent evaporation using **rotary evaporator (Rotavap)**
9. **Writing review articles.**

Teaching activities

1-Teaching Courses	
Universities	Course
Egyptian Chinese University	Scientific Writing
	Physical Pharmacy
	Pharmaceutics I
	Pharmaceutics II
	Pharmaceutics III
	Pharmaceutics IV
	Biopharmaceutics and pharmacokinetics
	Cosmetics
	Pharmaceutical Technology I
	Pharmaceutical Technology II
	Advanced Drug Delivery Systems

2-Teaching Experience and Skills

- Develop and **deliver courses to students in the specified discipline areas of study, considering and aiming to achieve the three (3) fundamental university standards: Teaching, Research, and Services.**
- Deliver **clear and logical online theoretical part of laboratories** that help the students to understand the point of each lab, as well as make the content easy to follow and recall.
- Proficient in delivering both in-person and online lab sessions, which is essential for engaging students and making the practical component more interactive. This approach not only motivates students to participate actively but also enhances their understanding and success. It enables the integration of instructional videos and demonstrations using platforms such as Zoom and Microsoft Teams.
- **Teaching & research experience**, particularly in a laboratory environment.

- Demonstrates a strong understanding of contemporary educational and industry trends, along with the emerging challenges associated with specialized content areas, particularly in cosmetic formulations.
- Demonstrated ability to deliver **excellent presentations for large and small groups**.
- **Maintain relationships with students** that foster a conducive learning environment.
- Assist in the development and preparation of practical session slides to support hands-on learning.
- Evaluate student progress/achievement and is responsible for the timely overall assessment of the student's work within assigned laboratories.
- **Excellent communication skills** (oral, written, presentation)
- **Proficiency in English** (oral and written)
- **Intermediate level of French** (oral and written)

3-Courses

- Online Certified Course about “**Effective Teaching Skills**” by faculty and leadership center at Cairo University (FLDC), (2024).
- Online Certified Course about “**Critical Thinking**” by faculty and leadership center at Cairo University (FLDC), (2024).
- Online Certified Course about “**Research Ethics**” by faculty and leadership center at Cairo University (FLDC), (2024).
- Online Certified Course about “**Interactive Electronic Courses**” by faculty and leadership center at Cairo University (FLDC), (2024).
- Online Certified Course about “**Sustainable Development in University Education**” by faculty and leadership center at Cairo University (FLDC), (2024).
- Online Certified Course about “**Artificial Intelligence in Education**”, (2024).
- Certified Online Webinar about “**Transition from Pharmaceutical Technology Education to manufacturing**”, Drug Manufacturing Unit, Cairo University, (2024).
- Certified Training titled “**Nano Drug Delivery**”, Nawah Scientific, (1st and 2nd February 2025).

- Certified Online Workshop about “**Basic Requirements for GMP-1**”, Drug Manufacturing Unit, Cairo University, (2025).
- Online AI course, “**AI for medical professionals: practical skills for real world impact**”, sponsored by Meridian HealthCare Scientific Office, Mena.

Training internship

- Two weeks of training (summer camp) at Jiangsu Ocean University, Jiangsu, China, 2023.
- Training at El Farouk Pharmacy, Alexandria, 2021.

Extracurricular Activities

- Speakers’ Coach at Tedx Youth @Alexandria, (2012-2015).