

Curriculum Vitae

Name: Michael Magdy Farag Abd-Elmalak
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Education

• Academic Degrees

PhD

Doctor of Philosophy degree in Pharmaceutics, “A pharmaceutical study on targeted drug delivery systems for a drug with low permeability.” Faculty of Pharmacy, Cairo University (2020).

Master

Master degree in Pharmaceutics, “A pharmaceutical Study on modified drug delivery systems containing a short acting drug.” Faculty of Pharmacy, Cairo University (2017).

Bachelor

Bachelor degree in Pharmaceutical Sciences, Faculty of Pharmacy, Cairo University with general grade Excellent with Honors (2012)

• Research interest

1. The development of novel targeted delivery systems for cancer.
2. Controlling and manipulating drug release to coincide physiological needs.
3. Drug delivery of herbal extracts & proteins.
4. Developing local pharmaceutical industry by following LEAN manufacturing.
5. The development of cosmeceuticals.

Teaching

	Course Title
Undergraduate theoretical courses (Pharm D program)	106 Pharmaceutics II
	PT607/PTC606 Pharmaceutical technology
Undergraduate theoretical courses	PTC505 Pharmaceutical Dosage Forms III
	PT505 Pharmaceutics III
	PT505 Dosage forms II

Career History and Professional Experience

Titles

- Member of the “Performance Appraisal and Quality Assurance Unit at Faculty of Pharmacy, Cairo University” (PAQU-PHARM), **2019 – 2021**.
- Consultant, Advanced Research Center, **January 2021- now**.
- Vice coordinator of the clinical program, Faculty of Pharmacy, Cairo University **September 2021- now**.
- Head of academic advising for PharmD clinical, Faculty of Pharmacy, Cairo University **September 2021- now**.
- Member of technical office for study schedules, Faculty of Pharmacy, Cairo University **September 2022- now**.
- Member of curriculum developing committee, Faculty of Pharmacy, Cairo University **June 2023- now**.

Awards

- International publication awards, Cairo University (2017,2018,2020)
- Best PhD thesis award for the year 2020 in the 10th international conference of Faculty of Pharmacy- Cairo university.

Publications and Presentations

(ORCID: 0000-0002-9718-3741, Scopus Author ID: 57197787108)

• Publications

1. Michael M. Farag, Nevine S. Abd El Malak, Soad A. Yehia. Controlled buccal patches of Zaleplon using melt granulation technique: An approach to overcome early morning awakening. **Journal of Drug Delivery Science and Technology**. 2018 Feb 1;43:439-45.
2. Michael M. Farag, Nevine S. Abd El Malak, Soad A. Yehia. Zaleplon loaded bi-layered chronopatch: a novel buccal chronodelivery approach to overcome circadian rhythm related sleep disorder. **International journal of pharmaceutics**. 2018 May 5;542(1-2):117-24.
3. Michael M. Farag, Nevine S. Abd El Malak, Soad A. Yehia, Mohamed A. Ahmed. Sonocomplexation as an effective tool to enhance the antitumorigenic effect of metformin: Preparation, in vitro characterization, molecular dynamic simulation & MiaPaCa-2 cell line hypoxia evaluation. **Journal of Drug Delivery Science and Technology**. 2020 Oct 1;59:101968.
4. Farag MM, Abd El Malak NS, Yehia SA, Ahmed MA. Hyaluronic Acid Conjugated Metformin-Phospholipid Sonocomplex: A Biphasic Complexation Approach to Correct Hypoxic Tumour Microenvironment. **International Journal of Nanomedicine**. 2021;16:1005.
5. Farag MM, Louis MM, Badawy AA, Nessem DI, Elmalak NS. Drotaverine Hydrochloride Superporous Hydrogel Hybrid System: a Gastroretentive Approach for Sustained Drug Delivery and Enhanced Viscoelasticity. **AAPS PharmSciTech**. 2022 Jul;23(5):1-2.

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6. Farag, M.M., El-Sebaie, W., Basalious, E.B. *et al.* Darifenacin Self-assembled Liquid Crystal Cubic Nanoparticles: a Sustained Release Approach for an Overnight Control of Overactive Bladder. *AAPS PharmSciTech* **24**, 120 (2023).
7. Farag MM, El-Nassan HB, Mery H, Eltanany BM, Galal MM, Wadie W, El-Tanbouly DM, Khattab MA, Rashed LA, ElMeshad AN. Comparative pharmacodynamic study delineating the efficacy of amantadine loaded nano-emulsified organogel via intranasal versus transdermal route in rotenone-induced Parkinson's disease rat model. *Journal of Drug Delivery Science and Technology*. 2023 Jul 15:104765.

• Poster Presentations

1. Michael M. Farag, Nevine S. Abd-Elmalak and Soad A. Yehia. “Controlled buccal films of Zaleplon using melt granulation technique: An approach to overcome middle of the night awakening”, **8th International Scientific Conference of Faculty of Pharmacy Cairo University** on "Pharmacy in Egypt: Ensuring Access to Health", Cairo, 22 April, 2017.
2. Asmaa S. Omara, Nevine S. Abdelmalak, Shahira F. El Menshawe, Michael M. Farag and Doaa S. Hamad. “Linagliptin loaded novasomes as a complementary treatment for Alzheimer's disease: in-vitro characterization, statistical optimization and ex-vivo permeation study. **2nd International Conference for School of Pharmacy - Newgiza University**. “Roadmap for Pharmacy Professions: Challenges & Opportunities”, 6th of October, 22 June, 2023.

Workshops

• Trainer

1. **Introduction to cosmetic products and cosmeceuticals.** SCITA student activity, January 2016 at Kasr alainy.
2. **Prospecting untraditional careers for pharmacy students.** SCITA student activity. January 2017 at Kasr alainy.
3. **Traceability of standard,** Advanced research center. May 2021.
4. **Good clinical practice,** Advanced research center. June 2021.
5. **Business continuity plan,** Advanced research center. January 2022.
6. **Risk assessment,** Advanced research center. August 2022.

• Trainee

1. **June-August, 2008:**
Presentation skills workshop by Dr. Mohamed El Bayady, district manager **LEO Pharma**.
Communication skills workshop by Dr. Khaled El Haddad, HR & development manager **Roche**.
Negotiation skills workshop by Dr. Khaled El Haddad, HR & development manager **Roche**.
2. **July, 2009:**

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- Marketing, Sales, Business, Communication, Interpersonal** courses & workshops at the Smart Village certified by **University of Cambridge**.
3. **September, 2013:**
Credit hours system at Faculty leadership development center, **Cairo University**.
 4. **January, 2014:**
Using technology in teaching at Faculty leadership development center, **Cairo University**.
 5. **August, 2014:**
Financial and Legal Aspects of University Business at Faculty leadership development center, **Cairo University**.
 6. **September, 2014:**
Scientific Research Ethics at Faculty leadership development center, **Cairo University**.
 7. **February, 2015:**
Organizing scientific conferences at Faculty leadership development center, **Cairo University**.
 8. **May, 2015:**
International Publication of Scientific Research at Faculty leadership development center, **Cairo University**.
 9. **July, 2017:**
Examination and student assessment systems at Faculty leadership development center, **Cairo University**.
 10. **July, 2018:**
Statistical analysis in vital experiments at Faculty leadership development center, **Cairo University**.
 11. **July, 2018:**
Quality standards in the teaching process at Faculty leadership development center, **Cairo University**.
 12. **February, 2019:**
Time and meetings management at Faculty leadership development center, **Cairo University**.
 13. **August, 2019:**
Learning based on problem solving at Faculty leadership development center, **Cairo University**.
 14. **October, 2019:**
Critical thinking at Faculty leadership development center, **Cairo University**.
 15. **October, 2020:**
Basics of blended learning at Faculty leadership development center, **Cairo University**.
 16. **May, 2021:**
Preparation of assessments for staff in medical sector (online) by Measurement and assessment center, **Ministry of higher education**.
 17. **July, 2021:**
Good clinical practice (online) by **NIDA Clinical Trials Network**.
 18. **February, 2023:**

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Entrepreneurship at Faculty leadership development center, **Cairo University**.

19. **March, 2023:**

Mobile applications as a part of Fundamentals of Digital Transformation Certificate, **Cairo University**.

20. **August, 2023:**

Management of work stress at Faculty leadership development center, **Cairo University**.

Computer skills & software

1. ICDL.
2. Microsoft Word, Excel, Powerpoint.
3. MestReNova.
4. SPSS Statistics.
5. Design Expert.
6. Molecular Operating environment.
7. ChemDraw & Chem3D.
8. Blackboard platform.
9. Google classroom.
10. Moodle platform.
11. Microsoft Teams.
12. E-learning platform.
13. R-software.
14. WinNonlin software.
15. SIS-informatique.