

Curriculum Vitae

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Education

- **Academic Degrees**

Bachelor of pharmacy, 1986, Faculty of Pharmacy Cairo University

Master of pharmaceutics, 1994, Faculty of Pharmacy Cairo University

PhD of pharmaceutics Assistant Professor, 2001, Faculty of Pharmacy Cairo University

Associate Professor, 2013, Faculty of Pharmacy Cairo University

Professor, 2020, Faculty of Pharmacy Cairo University

- **Research interest**

Interested in researches concerning pharmaceutical technology and formulation

Teaching

	Course Title
Undergraduate Courses (General Program)	111 Biopharmaceutics and Pharmacokinetics

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Undergraduate Courses (Clinical Program)

PT 609 Biopharmaceutics and Pharmacokinetics

Postgraduate Courses

2015 Advanced drug delivery systems taught to students of diploma of industrial pharmacy & to students of premaster of pharmaceutics

Career History and Professional Experience

Titles

General Syndicate of Pharmacists, Cairo Syndicate of Pharmacists.

Teaching activities: 1- Pharmaceutics Courses for third and fourth year Pharmacy students, (old system), Faculty of Pharmacy Cairo University

2-Pharmaceutics Courses for second year Pharmacy students, Faculty of Pharmacy, Ahram Canadian University

Students activities:

- 1) Supervision of the summer training of pharmacy students
- 2) A member of academic advisors for clinical program undergraduate students from 2015

Academic activities:

a) Seminars attended:

- 1- The E learning concept & Development of E learning curricula, 2008
- 2- Risk and Crisis Management and Contingency Plan, 2010
- 3- Seminars concerning defense for master and PhD degree for post graduate students

b)Workshop attended:

- 1- Curriculum Design 2007
- 2- Student Evaluation 2009
- 3- Quality Assurance System in Higher Educational Institutes 2010
- 4- High Technology utilization in teaching 2010
- 5- Lactose in Tableting Technology Sponsored by Meggle Group Wasserburg

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Megglesstrasse, Germany, 2010

6- Formulating with Roquette's Excipients Sponsored by Roquette, Lestrem, France, 2010

7- Time management 2013

8- Acquiring good skills in presentation 2013

9- Stability and Bioequivalence Guidelines for the Pharmaceutical Products in the Egyptian market 2013

10- HPLC Method Development and Validation 2014

10- The credit hour system 2014

11- Generic Pharmaceutical Products in the Egyptian Market: registration requirements 2014

11- University code of ethics 2015

12- Designing Scientific Posters sponsored by DAAD Akademie 2015

13- Regulatory and Technical Aspects for Successful Comparative in Vitro dissolution study 2015

14- Creative thinking 2016

15- Citation managers software 2017

16- Microsoft word in thesis writing 2017

17- Statistical analysis 2017

18- Eudragit® advanced seminar 2017

19- Essentials of Pharmacovigilance Practice An Overview 2018

20- Helping Student to Learn 2018

21- SciVal: A Tool for Evidence based Research Planning 2018

22- Constructive Assessment for Learning in DAAD Akademie 2018

23- Statistical Data Analysis using SPSS Software 2018

24- Biomedical Research Methodology: Need for Evidence-Based Health Practice and Technology 2019

25- Introduction to the Modern Knowledge Cycle: Promoting Research Capabilities (Hosted by Elsevier) 2019

26- Cell Press Excellence in Publishing: Discover, Network, and Practice (Hosted by Elsevier) 2019

27- Mindfulness in the Laboratory- an Approach to Stress Relief and Research-life 2019

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28- Statistics in Research 2019

29- Fundamentals of Photoshop: Towards Designing a Graphical abstract 2019

Awards

1. Best publication award from Faculty of Pharmacy Cairo University, 2011

2. AAPS award for the publication entitled: In vitro and in vivo evaluation of hydroxyzine hydrochloride microsponges for topical delivery for being the most downloadable article 2013

3. Award from Cairo University for international publication in 2011

4. Award from Cairo University for international publication in 2013

5. Award from Cairo University for international publication in 2017

6. Award from Cairo University for international publication in 2018

7. Award from the Japanese Scientific Society for the article published in Biological and Pharmaceutical Bulletin 2020 volume 43 (2) for being a featured article and has been added to the home page of the journal under the heading of featured articles

Publications and Presentations

1. Controlled Release Theophylline Delivery Systems using Eudragit RS 100 Die Pharmazie, 53(8), 556-558, (1998)
2. Photostabilization of sunscreen oil through preparation of a free-flowing powder Journal of Microencapsulation, 28 (3): 159-163, (2011)
3. In vitro and in vivo evaluation of hydroxyzine hydrochloride Microsponges for topical delivery AAPS PharmSciTech, 12 (3): 989-1001, (2011)
4. Zero-order release profile of metoclopramide hydrochloride sublingual tablet formulation Pharmaceutical Development and Technology, early online 1-7, (2012)
5. Microencapsulation of hydroxyzine hydrochloride by thermal phase separation: in vitro release enhancement and in vivo pharmacodynamic evaluation Pharmaceutical Development and Technology, 18 (1): 196-209, (2013)
6. Optimization for glimepiride dissolution enhancement utilizing different carriers and techniques Journal of Pharmaceutical Investigation, 43 (2):115-131, (2013)

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7. Furosemide loaded superporous hydrogel composite as a controlled release device: different strategies for drug loading
Journal of Pharmaceutical Research and Opinion, 3(6): 28-35, (2013)
8. The impact of amorphisation and spheronization techniques on the improved *in vitro* & *in vivo* performance of glimepiride tablets
Journal of Advanced Pharmaceutical Bulletin 7(4), 557-567, (2017)
9. The potential of synergism between ultrasonic energy and Soluplus® as a tool for solubilization and dissolution enhancement of a poorly water soluble drug. A statistically based process optimization
Journal of Drug Delivery Science and Technology 43, 343-352, (2018)
10. Intranasal surface-modified mosapride citrate-loaded nanostructured lipid carriers (MOS-SMNLCS) for treatment of reflux diseases: In vitro optimization, pharmacodynamics, and pharmacokinetic studies
AAPS PharmSciTech 19 (8), 3791- 3808, (2018)
11. A new design for a chronological release profile of etodolac from coated bilayer tablets: In-vitro and in-vivo assessment
Journal of Advanced Research 15, 37-47, (2019)
12. The impact of bioceramic nanocarriers on the intranasal delivery of zaleplon nanoscale powder through new adsorption techniques: Improvement in bioavailability and hypnotic effect
Journal of Drug Delivery Science and Technology 55, 101375, (2020)
13. New intranasal cross-linked mosapride xyloglucan pluronics micelles (MOS-XPMs) for reflux esophagitis disease: *In-vitro* optimization and improved therapeutic efficacy
Journal of Advanced Research <https://doi.org/10.1016/j.jare.2020.01.013> in press
14. The potential of intranasal delivery of nanocrystals in powder form on the improvement of zaleplon performance: in-vitro, in-vivo assessment. J of Drug Development and Industrial Pharmacy, 47(2), 268–279, 2021
<https://doi.org/10.1080/03639045.2021.1879834>
15. The Potential of a Site-Specific Delivery of Thiamine Hydrochloride as a Novel Insect Repellent Exerting Long-Term Protection on Human Skin: In-vitro, Ex-vivo Study and Clinical Assessment. J of Pharmaceutical Sciences, 110(11), 3659-3669, 2021, <https://doi.org/10.1016/j.xphs.2021.07.017>

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16. A New Crystal Engineering Technique for Dissolution Enhancement of Poorly Soluble Drugs Combining Quasi-emulsion and Crystallo-co Agglomeration Methods. Iranian Journal of Pharmaceutical Research (2020), 19 (2): 219-235

17. An ultrasonographic assisted investigation for the enhancement of duodenal/cecal motility of mosapride through a surfactant-based triple solid dispersion: *In-vitro*, *in-vivo* assessment of tablet formulation. Journal of Drug Delivery Science and Technology 65 (2021) 102657

18. Architecting novel multilayer nanosponges for co-administration of two drugs managing high-risk type II diabetes mellitus patients suffering from cardiovascular diseases. International journal of biological macromolecules 220 (2022) 1429- 1443

19. Hemostatic Alginate/Nano-Hydroxyapatite Composite Aerogel Loaded with Tranexamic Acid for the Potential Protection against Alveolar Osteitis. Journal of pharmaceutics 14 (2022) 2255