

CURRICULUM VITAE

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Personal Information

Name:EnasMostafa Mohamed Elmowafy

Nationality:Egyptian

Date and Place of Birth:3 September 1980, Cairo, Egypt

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Academic Record

Associate Professor (November 2019 to present), Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Ph.D. in Pharmaceutical Sciences (August. 2014) Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, AinShams University, Cairo, Egypt.

Thesis title: Mucosal Drug Delivery Systems of An Antidiabetic Drug.

M.Sc. in Pharmaceutical Sciences(August. 2008) Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Thesis title: Pharmaceutical Studies on Famotidine in Gastro-retentive Systems.

B.Sc., of Pharmaceutical Sciences (excellent degree with honors) (May 2002)Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Professional Experience

Nov. 2019 to present Associate professor, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Research interests include Advanced drug delivery technology, formulation, biodegradable particulate systems, biomaterials, nanotechnology, nasal delivery, pulmonary delivery, ear delivery, topical drug delivery, vesicular delivery systems, ocular delivery systems, dendrimers, lipid based delivery systems, cancer targeted delivery systems, protein delivery, nanocomposites.

Sep. 2008–Sep. 2014 *Assistant Lecturer of Pharmaceutics*, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Nov. 2002–Sep. 2008 *Lab. Instructor*, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Language Skills

Arabic: Mother Language

English: Fluent speaking and writing

German: Very good speaking and writing

Teaching and Course Coordination Responsibilities

For Undergraduates

- Pharmacy Orientation
- Biopharmaceutics and Pharmacokinetics
- Dosage form design
- Pharmacy Law
- OTC medications
- Physical Pharmacy

For Postgraduates

- Differential Scanning Calorimetry and FTIR principles
- Quality by Design
- Vascular targeting
- Bone targeting
- Pharmaceutical Reviewing

Other Professional Experience

- 1-Supervision of students' researches and summer projects.
- 2- Participation in the preparation of practical notes and course specifications of first year till fourth year courses.
- 3- Supervision of the credit hour students' graduation project in the academic years 2014/2015 entitled "Effective approaches for brain targeting".
- 4- Supervision of the credit hour students' graduation project in the academic year 2017/2018 entitled "Nanoparticles: Breathing life into cancer patients and spreading love".

Training courses

Certified from FLDC (Faculty and Leadership Development Center), Ain Shams University:

- 1- Effective communication skills.

- 2- The use of technology in teaching.
- 3- Competitive research projects skills.
- 4- Ethics of scientific research.
- 5- Scientific papers publications.
- 6- Effective presentation skills.
- 7- Proper student assessment and exam preparation.
- 8- Quality standards in the teaching process
- 9- Ethics of academic profession
- 10- Legal and Financial aspects of the academic profession
- 11- Managing a research team

Awards

- The international publishing award from Ain Shams University (2008, 2009, 2014, 2016, 2019, 2020, 2021, 2022)
- Certificates of merit from the Quality Assurance Unit, Faculty of Pharmacy, Ain Shams University for excellence in teaching:
 - a) Pharmacy orientation course for the regular program (academic year 2015/2016)
 - b) Pharmacy orientation and biopharmaceutics courses for the regular program (academic year 2016/2017)
 - c) Biopharmaceutics and pharmacokinetics and dosage form design courses for the credit hour system (academic year 2016/2017)
 - d) Biopharmaceutics and pharmacokinetics and dosage form design courses for the credit hour system (academic year 2019/2020)
 - e) Biopharmaceutics and pharmacokinetics and dosage form design courses for the credit hour system (academic year 2020/2021)
 - f) Biopharmaceutics and pharmacokinetics and dosage form design courses for the credit hour system (academic year 2021/2022)
- Best poster award for graduation project in the academic year 2017/2018 entitled "Nanoparticles: Breathing life into cancer patients and spreading love".

Conferences

1-The eighth strategic conference of Ain Shams University, Egypt, 1-3 April 2019

Poster presentation entitled: "Tailoring lipid polymer hybrid nanoparticles for controlled size for possible drug delivery"

Mohamed Hamdi, Hend Mohamed Abdel-Bar, **Enas Elmowafy**, Gehanne Awad

2-The 21st Scientific Congress of the Association of Colleges of Pharmacy in the Arab World (2nd ICPASU), Egypt, 13-15 November 2018

Poster presentation entitled: "Exploring the Potential of Thermo-Responsive Star-Shaped Poly(Oligoethylene Glycol) Copolymer-Based Gels for Risedronate Nasal Delivery"

Mahmoud E. Soliman, **Enas Elmowafy**, Luca Casettari, Cameron Alexander

3- The 34th Conference of Egyptian pharmaceutical Society, Egypt, 23-24 December 2017

Attendance

4-1st International Pharma Conference -Helwan University, Egypt, 1-2 October 2017

Attendance

5-The 8th International Scientific Conference of Faculty of Pharmacy-Cairo University, Egypt, 22 April 2017

Poster presentation entitled: "Suitability of macroporous foam powder microparticles for gastroretention of an insulinotropic drug"

Mahmoud E. Soliman, **EnasElmowafy**, AbdulfattahAlmogerbi, Samar Mansour, Abdelhameed El Shamy

6-The 17th Scientific Congress of the association of colleges of pharmacy in the Arab world, Ain Shams University, Egypt, 14-16 October 2014.

Oral presentation entitled: "Nasal polysaccharides-glucose regulator particulate systems: formulation and antidiabetic activity"

7-19th International Symposium on Microencapsulation, 9-11 September 2013, Pamplona, Spain.

Poster presentation entitled: "Optimization of a mucoadhesive mucosal delivery system of a poorly water soluble insulinotropic drug"

EnasElmowafy, Rihab Osman, GehanneAwad, Abdelhameed El Shamy

8-The 1st FUE International conference on Pharmaceutical sciences, Cairo, Egypt, 13-15 April 2013

Attendance

Publications

1-**Elmowafy, E. M.**,Awad, G. A., Mansour, S., & El-Shamy, A. E. H. A. (2008). Release mechanisms behind polysaccharides-based famotidine controlled release matrix tablets. *AAPS PharmSciTech*, 9(4), 1230-1239.

2-**Elmowafy, E. M.**,Awad, G. A., Mansour, S., & El-Shamy, A. E. H. A. (2009). Ionotropically emulsion gelled polysaccharides beads: preparation, in vitro and in vivo evaluation. *Carbohydrate polymers*, 75(1), 135-142.

3-**Elmowafy, E.**, Osman, R., El-Shamy, A. E. H. A., &Awad, G. A. (2014). Nasal polysaccharides-glucose regulator microparticles: Optimization, tolerability and antidiabetic activity in rats. *Carbohydrate polymers*, 108, 257-265.

4-**Elmowafy, E.**, Osman, R., El-Shamy, A. H., &Awad, G. A. (2014). Nanocomplexes of an insulinotropic drug: optimization, microparticle formation, and antidiabetic activity in rats. *International journal of nanomedicine*, 9, 4449.

5-**Elmowafy, E. N. A. S.**, Osman, R. I. H. A. B., El-Shamy, A. E. H. A., &Awad, G. A. (2014). Stable colloidal chitosan/alginate nanocomplexes: Fabrication, formulation

optimization and repaglinide loading. *International Journal of Pharmacy and Pharmaceutical Sciences*, 6(2), 520-5.

6- M. Soliman, **Elmowafy E.**, Almogerbi A., holayel S., El Shamy A. (2015). Dual buoyant/mucoadhesivemacroporous polypropylene microparticles for gastric delivery of repaglinide. *International Journal of Drug Delivery*; 7

7-**Elmowafy, E.**, Osman, R., & AH Ishak, R. (2017). Polymer-based novel lung targeted delivery systems. *Current pharmaceutical design*, 23(3), 373-392.

8-Soliman, M. E., **Elmowafy, E.**, Casettari, L., & Alexander, C. (2018). Star-shaped poly (oligoethylene glycol) copolymer-based gels: Thermo-responsive behaviour and bioapplicability for risedronate intranasal delivery. *International journal of pharmaceuticals*, 543(1-2), 224-233.

9-**Elmowafy, E. M.**, Tiboni, M., & Soliman, M. E. (2019). Biocompatibility, biodegradation and biomedical applications of poly (lactic acid)/poly (lactic-co-glycolic acid) micro and nanoparticles. *Journal of Pharmaceutical Investigation*, 1-34.

10-Perinelli, D.R., Petrelli, D., Vitali, L.A., Vllasaliu, D., Cespi, M., Giorgioni, G., **Elmowafy, E.**, Bonacucina, G. and Palmieri, G.F., (2019). Quaternary ammonium surfactants derived from leucine and methionine: Novel challenging surface active molecules with antimicrobial activity. *Journal of Molecular Liquids*. (in press).

11-**Elmowafy, E.**, Abdal-hay, A., Skouras, A., Tiboni, M., Casettari, L., & Guarino, V. (2019). Polyhydroxyalkanoate (PHA): applications in drug delivery and tissue engineering. *Expert review of medical devices*, (just-accepted).

12-**Elmowafy, E.**, Gad, H., Biondo, F., Casettari, L., & Soliman, M. E. (2019). Exploring optimized methoxy poly (ethylene glycol)-block-poly (ϵ -caprolactone) crystalline cored micelles in anti-glaucoma pharmacotherapy. *International journal of pharmaceuticals*.

13-**Elmowafy, E.**, & Soliman, M. E. (2019). Losartan-chitosan/dextran sulfate microplex as a carrier to lung therapeutics: Dry powder inhalation, aerodynamic profile and pulmonary tolerability. *International journal of biological macromolecules*.

14- **Elmowafy, E.**, Cespi, M., Bonacucina, G., & Soliman, M. E. (2019). In situ composite ion-triggered gellan gum gel incorporating amino methacrylate copolymer microparticles: a therapeutic modality for buccal applicability. *Pharmaceutical Development and Technology*, 24(10), 1258-1271.

- 15- **Elmowafy, E.**, El-Gogary, R. I., Ragai, M. H., & Nasr, M. (2019). Novel antipsoriatic fluidized spanlastic nanovesicles: In vitro physicochemical characterization, ex vivo cutaneous retention and exploratory clinical therapeutic efficacy. *International Journal of Pharmaceutics*, 568, 118556.
- 16- **Elmowafy, E.**, El-Derany, M. O., Biondo, F., Tiboni, M., Casettari, L., & Soliman, M. E. (2020). Quercetin loaded monolaurate sugar esters-based niosomes: Sustained release and mutual antioxidant—hepatoprotective interplay. *Pharmaceutics*, 12(2), 143.
- 17- Hamdi, M., Abdel-Bar, H. M., **Elmowafy, E.**, Al-Jamal, K. T., & Awad, G. A. (2020). An integrated vitamin E-coated polymer hybrid nanoplatfrom: A lucrative option for an enhanced in vitro macrophage retention for an anti-hepatitis B therapeutic prospect. *PloS one*, 15(1), e0227231
- 18-Hamdi, M., Abdel-Bar, H. M., **Elmowafy, E.**, El-Khouly, A., Mansour, M., & Awad, G. A. (2021). Investigating the internalization and COVID-19 antiviral computational analysis of optimized nanoscale zinc oxide. *ACS omega*, 6(10), 6848-6860.
- 19-Mansour, M., **Elmowafy, E.**, & Gad, H. A. (2021). Intranasal versus intraperitoneal Myrj 59-stabilized cubosomes: A potential armamentarium of effective anti-diabetic therapy. *Colloids and Surfaces B: Biointerfaces*, 199, 111534.
- 20- Tiboni, M., **Elmowafy, E.**, El-Derany, M. O., Benedetti, S., Campana, R., Verboni, M., ... & Casettari, L. (2022). A combination of sugar esters and chitosan to promote in vivo wound care. *International Journal of Pharmaceutics*, 616, 121508.
- 21-Gad, H. A., Mansour, M., Abbas, H., Malatani, R. T., Khattab, M. A., & **Elmowafy, E.** (2022). “Plurol will not miss the boat”: A new manifesto of galantamine conveyance. *Journal of Drug Delivery Science and Technology*, 74, 103516.
- 22- Hamdi, M., **Elmowafy, E.**, Abdel-Bar, H. M., ElKashlan, A. M., Al-Jamal, K. T., & Awad, G. A. (2022). Hyaluronic acid-entecavir conjugates-core/lipid-shell nanohybrids for efficient macrophage uptake and hepatotropic prospects. *International Journal of Biological Macromolecules*, 217, 731-747.
- 23- Lamie, C., **Elmowafy, E.**, Attia, D. A., Elmazar, M. M., & Mortada, N. D. (2022). Diversifying the skin cancer-fighting worthwhile frontiers: How relevant are the itraconazole/ascorbyl palmitate nanovectors?. *Nanomedicine: Nanotechnology, Biology and Medicine*, 43, 102561.

- 23- Lamie, C., **Elmowafy, E.**, Ragaie, M. H., Attia, D. A., & Mortada, N. D. (2022). Assessment of antifungal efficacy of itraconazole loaded aspasomal cream: comparative clinical study. *Drug delivery*, 29(1), 1345-1357.
- 24- **Elmowafy, E.**, Pavoni, L., Perinelli, D. R., Tiboni, M., Casettari, L., Cespi, M., ... & Bonacucina, G. (2022). Hyperlipidemia control using the innovative association of lupin proteins and chitosan and α -cyclodextrin dietary fibers: food supplement formulation, molecular docking study, and in vivo evaluation. *European Food Research and Technology*, 248(12), 2977-2993.
- 25- Magdy, M., **Elmowafy, E.**, Elassal, M., & Ishak, R. A. (2022). Localized drug delivery to the middle ear: Recent advances and perspectives for the treatment of middle and inner ear diseases. *Journal of Drug Delivery Science and Technology*, 103149.
- 26- **Elmowafy, E.**, El-Derany, M. O., Casettari, L., Soliman, M. E., & El-Gogary, R. I. (2022). Micelle-core/chitosan-shell (chito-micelles) enriched with gamma oryzanol: physical-chemical features, safety, translational nephroprotective potential and emphasis on sirtuin-1 associated machineries. *International Journal of Pharmaceutics*, 122482.
- 27- Magdy, M., **Elmowafy, E.**, El-Assal, M. I., & Ishak, R. A. (2022). Engineered triamcinolone acetonide loaded glycosomes as a novel ear delivery system for the treatment of otitis media. *International Journal of Pharmaceutics*, 628, 122276.

Book Chapters

- 1-Nasr, M., **Elmowafy, E.**, & Soliman, M. E. (2019). The evolution of dendrimers to composite dendrimers: a review of the state of the art. *Nanoparticles in Pharmacotherapy*, 217-249.
- 2- **Elmowafy, E.**, El-Marakby, E. M., Gad, H. A., & Gad, H. A. (2022). Delivery Systems of Plant-Derived Antimicrobials. In *Promising Antimicrobials from Natural Products* (pp. 397-442). Springer, Cham.