

## CURRICULUM VITAE



**Name** Salma Mahmoud Mohammed Mohyeldin  
**Citizenship** Egyptian  
**Gender** Female  
**Current Job** Lecturer at Industrial Pharmacy Department - Alexandria University - Egypt

### Contact Information:

**Address:** Faculty of Pharmacy, Alexandria University, Industrial Pharmacy Department, Sultan Hussien street, El-Azarita, Alexandria, Egypt..

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### Education:

#### **Bachelor's Degree in Pharmaceutical Sciences: Class 2011.**

Alexandria University - Egypt.  
Grade: Excellent with Honour

**M.Sc. in Pharmaceutical Sciences, Industrial Pharmacy, Alexandria University, Egypt, 2016.**  
Thesis Title: "Potential applications of Nanotechnology in non-invasive drug delivery".

**PhD in in Pharmaceutical Sciences, Industrial Pharmacy, Alexandria University, Egypt, 2021.**  
Thesis Title: "Applications of Nanotechnology for Improving the Pharmaceutical Performance of Selected Drug(s)".

### Language:

**English:** Fluent.  
**Arabic:** Native language

### Education & Academic Background:

#### **I-Undergraduate:**

**Period:** September 2006 – July 2011  
**University:** Faculty of Pharmacy, Alexandria University, Alexandria – Egypt.  
**Degree:** Bachelor's Degree in Pharmaceutical Sciences, July 2011  
**General Grade:** Excellent with Honour.

**Rank:** The 15 out of 1400 qualified students.

**Description:** The Pharmaceutical Sciences program in Egypt consists of five years period. All the studies in Egyptian Universities are in English Language.

## II-Postgraduate:

- A. General courses for master's degree** September 2011 – July 2012  
Alexandria University, Alexandria – Egypt.
- B. Special courses for master's degree** September 2012 – July 2013  
Alexandria University, Alexandria – Egypt.
- C. Master's degree in industrial pharmacy** Faculty of pharmacy, Alexandria University, Alexandria – Egypt.  
Description: Credit hours System.  
Thesis: "Potential Applications of Nanotechnology in Non-Invasive Drug Delivery" Feb. 2012 – April 2016.
- D. Special courses for PhD** September 2016 – July 2017  
Alexandria University, Alexandria – Egypt.
- E. PhD in Industrial pharmacy** Faculty of pharmacy, Alexandria University, Alexandria – Egypt.  
Description: Credit hours System.  
Thesis: "Applications of Nanotechnology for Improving the Pharmaceutical Performance of selected Drug(s)" Feb..2017 – October 2021.

## Work Experience:

- A. Demonstrator** Sept. 2011 – Aug 2016  
Industrial pharmacy Department, Faculty of Pharmacy, Alexandria University, Alexandria – Egypt.
- B. Assistant lecturer** Aug 2016 – Dec. 2021  
Industrial pharmacy Department, Faculty of Pharmacy, Alexandria University, Alexandria – Egypt.
- C. Lecturer** Dec. 2021- till current time  
Industrial pharmacy Department, Faculty of Pharmacy, Alexandria University, Alexandria – Egypt.

### **Computer Skills:**

Computing with good command of MS Word, Excel, PowerPoint, Endnote, GraphPad prism, Minitab, and IT knowledge.

### **Teaching Experience:**

A demonstrator in the Industrial pharmacy department, faculty of pharmacy, Alexandria university, responsible for classroom management of Industrial Pharmacy sessions for undergraduate students (Bachelor degree), including preparation of theoretical background, conducting lectures during these sessions and evaluation of student's performance.

### **Research Experience:**

I'm interested in pharmaceutical nanotechnology and non-invasive drug delivery systems with a particular emphasis on tailoring liposomes and nano-carriers for various drugs through different routes of administration. I'm highly experienced in elaboration and appraisal procedures and techniques of nano- and micro-sized pharmaceutical carriers among them; nanoliposomes, nanoparticles, nanocrystals, nanocapsules, microporous silica and micelles. Mathematical optimization and assessment of delivery systems covers various routes of administration such as oral, transdermal and inhalation is considered an area of my specialty.

### **Research Interests:**

- Nanotechnology.
- Brain targeting via nasal route.
- Cancer therapy.
- Lung Cancer.
- Non-invasive routes.
- Pulmonary drug delivery.
- Oral drug delivery.

### **Awards:**

- Reward of Alexandria University for publication in top 10% of pharmacy and pharmacology journal rank (ISI, 2013): Journal of controlled release, 2014; 187: 183-197
- Reward of Alexandria University for publication in the top 20 % of pharmacy and pharmacology journal rank (ISI, 2016): Int. J. Pharm., 2016;501:167-179.
- Reward of Alexandria University for publication in the top 20 % of pharmacy and pharmacology journal rank (ISI, 2016): Int. J. Nanomedicine. 2016;11:2209-2222.
- Reward of Alexandria University for publication in the top 10 % of pharmacy and pharmacology journal rank (ISI, 2016): Expert Opinion on Drug Delivery. 2016;13:1049-1064.
- Reward of Alexandria University for publication in the top 10 % of pharmacy and pharmacology journal rank (ISI, 2019): Int. J. Nanomedicine. 2019; 14: 9089–9112.

### **Oral Presentations:**

- Salma Mohyeldin "Nanosuspension"

Seminar conducted at the Faculty of Pharmacy. Alexandria University, under supervision of Prof. Nazik Elgindy. Feb. 2013.

- Salma Mohyeldin **“Inhaled polymeric nanoparticles”**  
Seminar conducted at the Faculty of Pharmacy. Alexandria University, under supervision of Prof. Ferial Elkhwas. July 2013.
- Salma Mohyeldin **“Recent Advances on Central Nervous Systems”**  
Seminar conducted at the Faculty of Pharmacy. Alexandria University, under supervision of Prof. Nazik Elgindy. Feb. 2017.
- Salma Mohyeldin **“Advances in Porous Carriers for Tailoring the Drug Delivery”**  
Seminar conducted at the Faculty of Pharmacy. Alexandria University, under supervision of Prof. Wael Samy. June. 2017.
- Salma Mohyeldin **“Nanopsychiatry: The role of Nanoparticles in the Management of Psychiatric Disorders ”** Seminar conducted at the Faculty of Pharmacy. Alexandria University November 2018.

### **Training courses and workshops:**

- International Publication of Scientific Research, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, July 9-10, 2012.
- Decision-making and Problem-solving, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, December 24-25, 2014.
- The Credit Hour System, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, May 11-12, 2015.
- References Management System, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, May 23 -24, 2015.
- Competitive Research Projects, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, September 7 - 8, 2015.
- Quality Standards in Education, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, September 9 - 10, 2015.
- Design of Experiments and Statistical Analysis (SPSS), Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, March 11 – 14, 2017.
- E-learning, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, April 5 – 6, 2017.
- Quality Standards in Teaching, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, April 12 - 13, 2017.
- Principles of Quality Management and Patient Safety in Health Care Institutions, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, April 26 - 27, 2017.
- Rights and Responsibilities of Faculty Staff Assistants, Faculty and Leadership Development Center (FLDC), Alexandria, Egypt, May 14 – 15, 2017.

## Conferences:

- Nazik A. Elgindy, Salma M. Mohyeldin and Mohammed M. Mehanna, **Comparative Human Skin Permeation Study on nanocarriers for potential Transdermal Delivery of Progesterone**, 6th Int. Conf. on Nanotechnology: Fundamentals and Applications, August 2016, Budapest, Hungary.
- Nazik A. Elgindy, Salma M. Mohyeldin, Mohamed M. Mehanna, **Spray dried Rifampicin nanocomposites as a promising technology for TB therapy**, European Advanced Materials Congress, EAMC, August 2017, Stockholm, Sweden.
- Nazik A. Elgindy, Salma M. Mohyeldin, Wael M Samy, Doaa Ragab, **Oral biocompatible mucopentrating lipospheres as a promising platform for improved depression management**, International Conference on Medical, Biological, and Pharmaceutical Sciences, ICMBPS, July 2019, Zurich, Switzerland.

## Peer reviewed journal publications:

- Mohammed M. Mehanna, Salma M. Mohyeldin, Nazik A. Elgindy, **Respirable nanocarriers as a promising strategy for antitubercular drug delivery**, Journal of controlled release, 2014; 187: 183-197.
- Nazik A. Elgindy, Mohammed M. Mehanna, Salma M. Mohyeldin, **Self-assembled nano-architecture liquid crystalline particles as a promising carrier for progesterone transdermal delivery**. International Journal of Pharmaceutics, 2016;501:167-179.
- Salma M. Mohyeldin, Mohammed M. Mehanna, Nazik A. Elgindy, **The relevancy of controlled nanocrystallization on rifampicin characteristics and cytotoxicity**, International Journal of Nanomedicine, 2016;11:2209-2222.
- Salma M. Mohyeldin, Mohammed M. Mehanna, Nazik A. Elgindy, **Superiority of Liquid Crystalline Cubic Nanocarriers as Hormonal Transdermal Vehicle: Comparative Human Skin Permeation-Supported Evidence**, Expert Opinion on Drug Delivery, 2016;13:1049-1064.
- Mohammed M. Mehanna, Salma M. Mohyeldin, Nazik A. Elgindy, **Rifampicin-Carbohydrate Spray-Dried Nanocomposite: A Futuristic Multiparticulate Platform for Pulmonary Delivery**, International Journal of Nanomedicine, 2019;14:9089-9112.
- Salma M Mohyeldin, Wael M Samy, Doaa Ragab, Doaa A Abdelmonsif, Rania G Aly, Nazik A Elgindy, **Precisely Fabricated Sulpiride-loaded Nanolipospheres with Ameliorated Oral Bioavailability and Antidepressant Activity**, Int J Nanomedicine. 2021; 16: 2013–2044.
- Salma M Mohyeldin, Wael M Samy, Doaa Ragab, Doaa A Abdelmonsif, Rania G Aly, Nazik A Elgindy, **Hybrid lipid core chitosan-TPGS shell nanocomposites as a promising integrated nanoplatform for enhanced oral delivery of sulpiride in depressive disorder therapy**, Int. J of Biological Macromolecules 2021;188: Pages 432-449.

- Mona H Ibrahim, Marwa F Harras, Shaimaa K Mostafa, Salma M Mohyeldin , Omkulthom Al Kamaly , Najla Altwaijry., Rehab Sabour , **Development of novel cyanopyridines as PIM-1 kinase inhibitors with potent anti-prostate cancer activity: Synthesis, biological evaluation, nanoparticles formulation and molecular dynamics simulation**, Bioorg Chem. 2022 Sep 5;129:106122.