

## **Personal data**



**Name** Dina Ahmed Mahmood Selim.  
**Date of Birth** 28<sup>th</sup> October 1982  
**Place of Birth** Alexandria  
**Nationality** Egyptian  
**Languages** Arabic: Mother tongue  
English: Fluent  
French: Fluent  
**Social state** Married with an 12 years old son and a 6 years old daughter  
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## Academic Achievements

1. I was awarded the Degree of Doctor of Philosophy in Pharmaceutical Sciences “PHARMACOGNOSY”, thesis based, in February 2015 from the Faculty of Pharmacy/ Alexandria University/ Egypt .

The PhD degree required the complete fulfillment of three parts:

- First semester's exams in the following courses :
  - Selected topics in natural products
  - Recent approaches in spectral analysis
  - Seminar II (entitled quality control of natural products)
- Second semester's exams in the following courses :
  - Advanced courses in chromatography
  - Quality control of pharmaceutical products
  - Seminar I (entitled antioxidants from edible plant and marine sources)
  
- A research titled ' Metabolomic analysis of some natural products commercialized in the Egyptian pharmaceutical market' .

2. I was awarded the Degree of Master in Pharmaceutical Sciences “PHARMACOGNOSY”, thesis based, on 2/6/2009 from the Faculty of Pharmacy/ Alexandria University/ Egypt .

The Master's degree required the complete fulfillment of three parts:

1. Exams in general courses.
2. Exams in specialized courses:
3. A research titled ' Phytochemical Investigation of Some Plants of Genus *Astragalus* grown in Egypt' .

3. I was awarded the Bachelor degree in Pharmaceutical Sciences with general grade Excellent from the Faculty of Pharmacy/ Alexandria University/ Egypt in August 2004.

4. Language and computer exams:

- a. Local TOEFL exam; December 2014 with general grade V. Good
- b. IELTS exam; July 2005 (Overall score 8/9)
- c. Fulfillment of DELF (International French Exam); June 2005
- d. ICDL Certificate, February 2012

## **Working Experience**

1. I have been working as a lecturer in the Pharmacognosy Department, Faculty of Pharmacy/ Alexandria University/ Egypt from March 2015 till present.
2. I worked as an assistant lecturer in the Faculty of Pharmacy/ Alexandria University/ Egypt from June 2009 till January 2015.
3. I worked as a teaching assistant and demonstrator in the Faculty of Pharmacy/ Alexandria University/ Egypt from September 2004 to June 2009. The job description included preparing practical sections and teaching them to students of pharmacognosy, phytochemistry and applied pharmacognosy from the first to last year graduating students.
4. I was trained in the Quality Assurance Department in Novartis Pharmaceutical Company in Cairo/ Egypt from 27/ 7/ 2003 to 31/ 7/ 2003.

## **Postgraduate research experience**

I am totally experienced with different techniques of isolation of components from natural sources and their analysis qualitatively and quantitatively using multivariate and univariate analytical approaches. I have been extensively in direct contact with different chromatographic and spectroscopic techniques (TLC, CC, MS, IR, NMR, GC, HPLC, UV and others).

-While I was preparing for my Master's degree, I carried out a research composed of three parts:

### Part I

Phytochemical investigation of the roots of *Astragalus kahiricus* DC.

Nine compounds were isolated from the different extracts of the roots of *Astragalus kahiricus* DC.

### Part II

Quantitative determination of Astragaloside I and Astrasieversianin II in the alcoholic extracts of the roots of *Astragalus spinosus* Forssk. and *Astragalus kahiricus* DC. respectively by a validated High Performance Liquid Chromatography (HPLC) method.

### Part III

Antimicrobial, antiprotozoal and cytotoxic activities testing of some of the isolated saponins.

***The most important results of this research were presented in the AAPS (American Association of Pharmaceutical Sciences) international conference held in Los Angeles in November 2009.***

-While I was preparing for my PhD degree, I carried out a metabolic profiling research composed of two parts:

## Part I

### Stability studies on some selected plants

Here, the stability of thirteen selected plants was explored using multivariate qualitative analytical techniques (principal component analysis and hierarchical clustering analysis) in linkage to TLC analysis, followed by their expiry date determination using a quantitative univariate approach with aid of three robust statistical methods: parametric, non-parametric and weighted regression lines.

## Part II

### Quality assessment of garlic using multivariate analysis

Here, multivariate qualitative analytical techniques (principal component analysis and hierarchical clustering analysis) were adopted in linkage to TLC, UV and IR analyses to classify garlic samples according to their dosage forms and geographical allocations, and to classify garlic oils according to their method of preparation.

**Courses and workshops attended on education and research**

No	Title of Workshops	Date	Venue
1	Effective teaching	May 7-12, 2005	Faculty and Leadership Development Center (FLDP) Faculty of Nuring, Alexandria University, Egypt
2	Thinking skills	June 13-15, 2006	FLDP, Faculty of Nuring, Alexandria University, Egypt
3	Preparing and writing manuscripts for international publication	January 17-19, 2009	FLDP, Faculty of Nuring, Alexandria University, Egypt
4	Communication skills	February 17-19, 2009	FLDP, Faculty of Nuring, Alexandria University, Egypt
5	University code of ethics	February 21-23, 2009	FLDP, Faculty of Nuring, Alexandria University, Egypt

			University, Egypt
6	Use of technology in teaching	April 7-9, 2009	FLDP, Faculty of Nuring, Alexandria University, Egypt
7	Teaching Skill Improvement Workshop- Nizwa University	January 2010	Al-Shaba Hall, Nizwa University, Oman
8	Strategic Planning for the center of Excellence in Pharmacy Education, Research and training (CEPRT)	January 2010	Nizwa University, School of Pharmacy, Room 33-29
9	Conference organization	February 12-14, 2011	FLDP, Faculty of Nuring, Alexandria University, Egypt
10	Quality standards in the education process	February 15-17, 2011	FLDP, Faculty of Nuring, Alexandria University, Egypt
11	Managing time and meetings	February 19-21, 2011	FLDP, Faculty of Nuring, Alexandria University, Egypt

12	Competing for research funds	February 22-24, 2011	FLDP, Faculty of Nuring, Alexandria University, Egypt
13	Research Ethics	February 26-28, 2011	FLDP, Faculty of Nuring, Alexandria University, Egypt
14	The credit hours system	March 1-3, 2011	FLDP, Faculty of Nuring, Alexandria University, Egypt
15	How to develop a project proposal	July 2-4, 2013	Hilton Green Plaza Hotel, Al Karnak Hall, Alexandria, Egypt
16	University legal and financial aspects	May 10-11, 2017	FLDP, Faculty of Nuring, Alexandria University, Egypt
17	Designing and developing the digital content	June 10-11, 2017	FLDP, Faculty of Nuring, Alexandria University, Egypt
18	Principles of quality management and patient safety in health care institutions	June 14-15, 2017	FLDP, Faculty of Nuring, Alexandria University, Egypt



19	International publishing of research	June 19-20, 2017	FLDP, Faculty of Nuring, Alexandria University, Egypt
20	Funded research implementation and research team management	June 21-22, 2017	FLDP, Faculty of Nuring, Alexandria University, Egypt
21	Evidence based medicine and guidelines	August 16-17, 2017	FLDP, Faculty of Nuring, Alexandria University, Egypt

## Publications and other activities

1. Jamila A. Al-Mahrezi, Jamal Nasser Al-Sabahi, Mohammed Sohail Akhtar , Dina Selim and Afaf Mohammed Weli (2011) Essential oil composition and antimicrobial screening of *Launaea nudicaulis* grown in Oman. *IJPSR*, (12): 3166-3169.
2. Afaf Mohammed Weli, \* , Dina Selim, Mohammad Sohail Akhtar , Jamal Nasser Al-Sabahib , Qasim Al-Riyamia , Zakia Mubarak Al-Sulimia , Samera Suliman Adi Al-Salmania , Basema Obaida, Suliman Al-Khanjaric (2011) Phytochemical investigations and antimicrobial screening of *Coleus aromaticus* grown in Oman. *EJEAFChe*, 10(11): 3083-3090.
3. Marwa Mubarak AL Oraimi , Jamal Nasser Al-Sabahi , Afaf Mohammed Weli 1\*, Dina Selim , Mohammad Sohail Akhtar , Qasim Al-Riyami , Suliman Al-Khanjari (2012) Chemical Composition of Essential Oil of *Tecurium mascatenses* Bois Grown in Oman. *Jeobp* 15 (5) : 822 – 826.
4. Rasha M. Allam, Dina A. Selim, Asser I. Ghoneim, Mohamed M. Radwan, Salwa M.Nofal, Amani E. Khalifa, Ola A. Sharaf, Soad M. Toaima, Aya M. Asaad, Nadia A. El-Sebakhy (2013) Hepatoprotective effects of *Astragalus kahiricus* root extract against ethanol-induced liver apoptosis in rats. *Chinese Journal of Natural Medicines*, 11(4): 0354–0361.
5. Mohamed A Korany, Marwa S Moneeb, Dina A Selim, Nadia A EL Sebakhy and Aya M Asaad. Comparative study of Linear Regression Methods: Parametric, Non-Parametric and Weighted on Densitometric Kinetic Stability Studies on Extracts of Some Plants; *Journal of Planar Chromatography* 29 (2016) 2, 1-7.
6. Poster presentation: “Quality Assessment of Garlic Using Multivariate Analysis” in the International Conference of Pharmaceutical and Medical Sciences, Suez Canal University, in Cairo, April 2017.

7. Eman Shawky and Dina A. Selim. Evaluation of the effect of extraction solvent and organ selection on the chemical profile of *Astragalus spinosus* using HPTLC-multivariate image analysis; *Journal of Chromatography B* 1061-1062 (2017), 134-138.
8. Alexandria University Awards for Excellence in Scientific Publications in March 2017.
9. Eman Shawky and Dina A. Selim. Rapid authentication and quality evaluation of *Cinnamomum verum* powder using near infrared spectroscopy and multivariate analysis. *Planta Med. Planta medica* 84 (2018), 1380-1387.
10. Alexandria University Awards for Excellence in Scientific Publications in August 2018.
11. Training visiting students from Algeria in summer 2018.
12. Poster presentation: "Rapid Discrimination and Quality Evaluation of *Cinnamon* species Powders Using Near Infrared Spectroscopy and Multivariate Analysis " in the International Conference of the School of Pharmacy, Kuwait University (KIPC) in Marina Hall, Kuwait, April 2019.
13. Eman Shawky and Dina A. Selim. NIR spectroscopy-multivariate analysis for discrimination and bioactive compounds prediction of different *Citrus* species peels. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 219 (2019), 1-7.
14. Eman Shawky, Rasha M. Abu El-Khair, Dina A. Selim. NIR spectroscopy-multivariate analysis for rapid authentication , detection and quantification of common plant adulterants in saffron (*Crocus sativus* L.) stigmas. *Food Science and Technology* 122 (2020), 109032.
15. Dina A. Selim, Eman Shawky , Rasha M. Abu El- Khair. Detection and quantification of active pharmaceutical ingredients as adulterants in *Garcinia cambogia* slimming preparations using NIR spectroscopy

combined with chemometrics. *Records of Pharmaceutical and Biomedical Sciences* (accepted), 4 (1) (2020), 62- 71.

16. Participating as speaker in a workshop on cardiovascular disorders, February 2010, University of Nizwa, Nizwa, Oman.
17. Attending a symposium on Endocrine and Metabolic disorders, May 2010, University of Nizwa, Nizwa, Oman.