

# Samah Moustafa El Sohafy

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01111663399, Alexandria, Egypt.

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## Academic Qualifications

- Doctor of Philosophy degree of Pharmaceutical Sciences (Pharmacognosy), Alexandria University. **(2013)**
- Thesis Title “Phytochemical investigation of some Study of some Egyptian plants that could be used for hepatic disorders”.
- Master’s degree of Pharmaceutical Sciences (Pharmacognosy), Alexandria University. **(2005)**  
Thesis Title “Evaluation of *Psidium guajava* leaves family Myrtaceae as a raw material for pharmaceutical industry”.
- Center of Islamic Culture, Islamic Affairs Ministry, Egypt. **(2005)**
- Bachelor’s degree of Pharmaceutical Sciences, Faculty of Pharmacy, Alexandria University **(Excellent Distinct with Honor). (2000)**
- E. G. C. (El Nasr Girls’ College), Thanawya amma certificate. **(1995)**

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## Work Experience

### Administrative Experience

- February 2023 – present: Dean Assistant, Faculty of Pharmacy, Alexandria University.
- April 2022 – present: Deputy Vice Dean of of Graduate Studies and Research, Faculty of Pharmacy, Alexandria University.
- October 2022 - present: Founder of the green cycle project (a community activity aiming at increasing the greenery and applying recycling in the premises of our faculty).
- March 2022 – present: Organizing Committee Head of “International Conference on Pharmaceutical and Healthcare Sciences; PHS 2022” [Organizing Committee – PHS \(phs-eg.com\)](#).
- June 2020 – Present: Coordinator of Crisis and Disasters Committee at the Faculty of Pharmacy, Alexandria University.

- October 2021 – present: Vice President of Financial Committee – Clinical department.
- 2021 / 2022: Fourth year Examination Control President.
- 2020 / 2021: First year Examination Control President.
- 2019 / 2020: First year Examination Control Vice President.
- December 2020 – present: Co-PI of a Competitive Excellence Project of Higher Education Institutions under the name of “Development of Herbal Extraction Unit for the production of Standardized Herbal Products for Human Use”.

## **Academic Experience**

- October 2020 - present: Associate Professor Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
  - Preparation and development of course curriculum.
  - Lecturing Pharmacognosy courses for second year Pharmacy students.
  - Lecturing Phytotherapy course for 8<sup>th</sup> semester Clinical Pharmacy students.
  - Supervising Pharmacognosy laboratories for undergraduate students.
  - Preparation of final assessment exams, grading exam papers and preparation of class statistical reports.
  - Supervising postgraduates’ theses.
  - Lecturing post graduate students (Msc students’ course “Spectral and chemical characterization of natural products”).
  - Academic supervision of PharmD and PharmD Clinical students.
- December 2013 – September 2020: Lecturer, Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
  - Preparation and development of course curriculum.
  - Lecturing Pharmacognosy courses for second year Pharmacy students.
  - Lecturing Phytotherapy course for 8<sup>th</sup> semester Clinical Pharmacy students.
  - Supervising Pharmacognosy laboratories for undergraduate students.
  - Preparation of final assessment exams, grading exam papers and preparation of class statistical reports.
  - Lecturing post graduate students (Msc students’ course “Spectral and chemical characterization of natural products”).
  - Supervising post graduate theses.
- July 2006 - November 2013: Assistant Lecturer, Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
  - Preparing and teaching practical sessions (Pharmacognosy, phytochemistry and applied pharmacognosy) engaging learners in individual and cooperative learning activities that help them develop their knowledge, skills, understanding and attitudes for learning.
  - Preparation of final practical assessments final exam result sheets.
  - Supervision of students’ practical pharmacy field training.

- January 2001 - June 2006: Demonstrator in the Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
  - Preparing and teaching practical sections (Pharmacognosy, phytochemistry and applied pharmacognosy).
  - Final assessments and preparation of final exam result sheets.

### **Committees Membership**

- April 2022 – present: Deputy Vice Dean of Graduate Studies and Research, Faculty of Pharmacy, Alexandria University.
- June 2020 – Present: Coordinator of Crisis and Disasters Committee at the Faculty of Pharmacy, Alexandria University.
- March 2020 – Present: Member of Community & Environment Services, Faculty of Pharmacy, Alexandria University.
- October 2019 – Present: Member of Students and Educational Affairs Committee.

### **Research Experience**

- December 2020 – present: Co-PI of a Competitive Excellence Project of Higher Education Institutions under the name of “Development of Herbal Extraction Unit for the production of Standardized Herbal Products for Human Use”.
- Editorial board member and a Reviewer in several peer review journals:
  - Biomedicine and Pharmacotherapy (4.545, WOS).
  - Journal of Physiology & Pharmacology (2.644, WOS).
  - South African Journal of Botany (1.792, WOS).
  - VEGETOS, Springer.
  - International Journal of Pharmacy and Pharmaceutical Sciences (IJPPS).
  - UK Journal of Pharmaceutical and Biosciences (UKJPB), Science Asia.
  - Studies in Natural Products Chemistry (Bioactive Natural Products), Elsevier Science Publishers.
  - Journal of Pharmacognosy and Natural Products.
  - Insight knowledge Network.
- Conducted research covering various aspects of the following topics:
  - Isolation of chemical constituents
  - Structure elucidation
  - Metabolomic studies of medicinal plants
  - Chemometrics
  - Tissue culture
  - Herbal Drug analysis
  - Botanical Studies

- Herbal drug Monograph
- Hepatoprotective activity
- Microbiological activity
- Antioxidant activity
- Quality control of Phytopharmaceuticals

## Theses Supervision

- 1- Nada Sabry, **“Phytochemical and biological investigation of some edible plants of genus Brassica and genus Raphanus”** Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
- 2- Yara Barakat, **“Phenotypic and Genotypic characterization of Klebsiella pneumonia isolated from intensive care units in Alexandria and their potential eradication using synthetic and natural compounds”** Department of Microbiology and Immunology, Faculty of Pharmacy, Alexandria University.
- 3- Merna Mohy Eldin Abou Khatwa **“Impact of gum acacia on gut-derived uremic toxins in chronic kidney disease patients in Alexandria, Egypt”** Department of Pharmacy Practice, Faculty of Pharmacy, Alexandria University.
- 4- Mariam Mahmoud Metwally, **“Phytochemical and biological investigation of selected *Ficus* plants growing in Egypt”** Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
- 5- Mariam Mohamed El Attar, **“Phytochemical Investigation of *Eriobotrya japonica* (Thunb.) Lindl. (Loquat) cultivated in Egypt”** Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
- 6- Seif Asser Abou-Haif Master Thesis, **“Green techniques in comparison to conventional ones for the extraction of chemical constituents of *Ginkgo biloba* L. and *Curcuma longa* L.”** Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
- 7- Nada Abdel Salam Ghazali, **“Occurrence and Production of Rutin of some Egyptian Plants as a Raw Material for Pharmaceutical Industry”** Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.
- 8- Safaa Yassin Gaber, **“Phytochemical study of some cultivars of *Annona squamosa* L. cultivated in Egypt”** Department of Pharmacognosy, Faculty of Pharmacy, Alexandria University.



## Book Series

Facebook page:

[Muslim Stories | Facebook](#)



Author of “Muslim Stories” ... A children stories series that teaches all quality morals to children. The stories are written in Arabic and translated to English. They are published as a printed version and are also available as Google books.

- 1- Show me how to pray
- 2- Save the turtles
- 3- Let's camp on the beach <https://play.google.com/store/books/details?id=TszpDwAAQBAJ>
- 4- Show me how to perform wudhu <https://play.google.com/store/books/details?id=3cipDwAAQBAJ>
- 5- The fishing trip <https://play.google.com/store/books/details?id=bCvoDwAAQBAJ>

## Training Courses

- **Digital Marketing**, Qodwatech, Egyptian Ministry of Communications and Information Technology (2021).
- **Experimental Design and Statistical Analyses Systems “Spss”**, Faculty of Leadership and Development Center (FLDP), Alexandria University (2020).
- **Palliative Care Medicine**, Faculty of Pharmacy, Alexandria University (2020).
- **Flipping Classroom and Web-2 tools**, Faculty of Pharmacy, Alexandria University (2018).
- **Legal and Financial Aspects in University**, Faculty of Leadership and Development Center (FLDP), Alexandria University (2018).
- **International Publishing of Research**, Faculty of Leadership and Development Center (FLDP), Alexandria University (2017).
- **Funded Research Implementation and Research Team Management**, Faculty of Leadership and Development Center (FLDP), Alexandria University (2017).
- **Designing and Developing the Digital Content**, Faculty of Leadership and Development Center (FLDP), Alexandria University (2017).
- **Pharmacy Education in Gulf Region: Forecasting the Pharmacy Practice Needs**, DUPHAT 2016, Dubai (March 2016).

- ***Clean Working and Safe Handling***, DUPHAT 2016, Dubai (March 2016).
- ***How to Measure Competencies in Our Students***, DUPHAT 2016, Dubai (March 2016).
- ***Quality Control of Medicinal and Herbal Medicinal Products***, DUPHAT 2016, Dubai (March 2016).
- ***International Publishing of Research***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2013).
- ***Student Evaluation and Examination Techniques***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2012).
- ***Quality Standards in The Education Process***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2012).
- ***Organizing Scientific Conferences***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2012).
- ***Ethical Conduct and Code of Ethics***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2012).
- ***Effective Teaching***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2006).
- ***Research Methodology***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2006).
- ***Communication Skills***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2006).
- ***Thinking Skills***, Faculty of Leadership and Development Center (FLDP), Alexandria University (2006).
- First Aid course at the Egyptian Red Crescent Society, (summer 1998).
- ***High Performance Liquid Chromatography*** (HPLC), Department of Pharmaceutical Analytical Chemistry, Alexandria University, (2003).
- ***High Performance Thin Layer Chromatography*** (HPTLC), Central Lab, Faculty of Pharmacy, Alexandria University, (2002).

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## Scientific Publications

1. Metabolomics and chemometrics depict the changes in the chemical profile of white lupine (*Lupinus albus* L.) bioactive metabolites during seed germination.

S. M. Shams Eldin, E. Shawky, D. A. Ghareeb, **Samah M. El Sohafy**, S. M. Sallam. *Food Chemistry*, 418 (2023) 135967.

2. A green extraction approach using natural deep eutectic solvents enhances the in-vivo bioavailability of curcuminoids from turmeric extracts

S. A. Abouheif, S. M. Sallam, **Samah M. El Sohafy**, F. F. Kassem, E. Shawky  
*Industrial Crops & Products*, 189(2022) 115790.

3. Optimization of terpene lactones and ginkgolic acids extraction from *Ginkgo biloba* L. leaves by natural deep eutectic solvents using experimental design and HPTLC-MS analysis.

S. A. Abouheif, S. M. Sallam, **Samah M. El Sohafy**, F. F. Kassem, E. Shawky.  
*Microchemical Journal*, Jan 2022, 176 (2022)107246.

4. Assessment of seasonal variation of the bioactive oleuropein in *Olea europaea* L. leaves cultivated in Saudi Arabia.

M. H. Alqarni, M. A. Salkini, P. Alam, M. T. Alanazi, M. S. Abdel-Kader, **Samah M. El Sohafy**.  
*Acta Chromatographica*, Jun 2021, DOI: 10.1556/1326.2021.00905.

5. Differential anti-inflammatory biomarkers of the desert truffles *Terfezia clavaryi* and *Tirmania nivea* revealed via UPLC-QqQ-MS-based metabolomics combined to chemometrics.

E. Shawky, R. S. Darwish, K. M. Nassar, R. M. Rashad ElSayed, D. E. Hussein, **Samah M. El Sohafy**.  
*LWT-food Science and Technology*, Jun 2021, 150 (2021) 111965.

6. Determination of the effect of germination on the folate content of the seeds of some legumes using HPTLC-mass spectrometry-multivariate image analysis

S. M. Sallam, E. Shawky, **Samah M. El Sohafy**.  
*Food Chemistry*, Volume 362 (2021) 130206.

7. Metabolomics approach provides new insights into the immunomodulatory discriminatory biomarkers of the herbs and roots of Echinacea species.

S. M. Shams Eldin, E. Shawky, S. M. Sallam, N. El-Nikhely, **Samah M. El Sohafy**.  
*Industrial Crops and Products*, Vol. 168, 113611, September 2021.

8. Effect of ontogeny on the content of the hallucinogenic alkaloids atropine and scopolamine in the different organs of some Solanaceae plants.

**Samah M. El Sohafy**, E. Shawky, S. M. Sallam.



*Natural Product Research*, August 2020.  
DOI: 10.1080/14786419.2020.1800698.

9. Chemical profiling and biological screening with potential anti-inflammatory activity of *Callisia fragrans* grown in Egypt.

**Samah M. El Sohafy**, R. A. Nassra, G. D'Urso, S. Piacente, and S. M. Sallam.  
*Natural Product Research*, July 2020.  
DOI: 10.1080/14786419.2020.1791113.

10. Phytochemical investigation and cytotoxic activity of *Hedera helix* ssp *rhizomatifera* leaves.

**Samah M. El Sohafy**, S. M. Shams Eldin, R. A. Nassra, S. M. Sallam.  
*Records of Pharmaceutical and Biomedical Sciences*, 4 (2), 68-77, 2020.

11. Untargeted and targeted chemical profiling for efficacy-directed discrimination of *Hedera helix* L. subspecies using HPTLC- image analysis and HPTLC/MS.

E. Shawky, **Samah M. El Sohafy**.  
*Industrial Crops and Products*, Vol. 145, 111980, March 2020.

12. Profiling of acetylcholinesterase inhibitory alkaloids from some *Crinum*, *Habranthus* and *Zephyranthes* species by GC–MS combined with multivariate analyses and in silico studies.

E. Shawky, **Samah El Sohafy**, J. P. de Andrade, W. Borges.  
*Natural Product Research*, April 2019.  
DOI: 10.1080/14786419.2019.1598989.

13. Total polyphenolic content and antioxidant activity of *Silubum marianum* cultures grown on different growth regulators.

H. Mekky, **Samah El Sohafy**, R. Abu El-khair, A. El Hawiet.  
*International Journal of Pharmacy and Pharmaceutical Sciences*, Vol 9, Issue 4, 2017.

14. Cornigerin, a new sesqui-lignan from the hepatoprotective fractions of *Cynara cornigera* L.

**Samah M. El Sohafy**, A. M. Metwally, A. A. Omar, M. Amer, M. M. Radwan, M. S. Abdel Kader, S. A. El Toumy, M. A. ElSohly.  
*Fitoterapia*, Dec; 115:101-105, 2016.



15. Cornigerin, A new lignan from the hepatoprotective active fractions of *Cynara cornigera*.

A.M. Metwally, A.A. Omar, M. E. Amer, M. I. Abou Shoer, S. A. El Toumy, M. M. Radwan, M. A. ElSohly, **Samah M. El Sohafy**.

12th Annual Oxford International Conference on the Science of Botanicals. (ICSB) April 15th-18th , 2013, University of Mississippi, University, MS, USA.

*Planta Medica*, 79(5), P57, March 2013.

16. Evaluation of the hepatoprotective activity of some plants belonging to the tribe Cynareae growing in Egypt.

**Samah M. El Sohafy**, S. I. Alqasoumi, A. M. Metwally, A. A. Omar, M. Amer, S. A. El Toumy and M. S. Abdel-Kader.

*Journal of Medicinal Plants Research*, Vol. 7, Issue7, February, 324-328, 2013.

17. Monograph of Psidium guajava L. leaves.

A. M. Metwally, A. A. Omar, N. M. Ghazy and F. M. Harraz, **Samah M. El Sohafy**.

*Pharmacognosy Journal*, Vol 3, Issue 2 , April, 89-104, 2011.

18. Phytochemical investigation and antimicrobial activity of Psidium guajava L. leaves.

A. M. Metwalli, A. A. Omar, F. M. Harraz, **Samah M. El Sohafy**.

*Pharmacognosy Magazine*, Vol 6, Issue 23, Jul-Sep, 216-222, 2010.

19. Quantification of flavonoids of Psidium guajava L. preparations by Planar Chromatography (HPTLC).

**S. M. El Sohafy**, A. M. Metwalli, F. M. Harraz and A. A. Omar.

*Pharmacognosy Magazine*, Vol 4, Issue 17, Jan-Mar, 61-66, 2009.

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## Awards

DUPHAT 2016

**THIRD BEST PROFESSIONAL POSTER AWARD**

**“Tribe Cynareae and Liver Disorders”**

**S. M. El Sohafy**, A. M. Metwally, A. A. Omar, M. M., Amer.

## Publication Awards

Several of my publications have been awarded by the Alexandria University:

- Differential anti-inflammatory biomarkers of the desert truffles *Terfezia clavaryi* and *Tirmania nivea* revealed via UPLC-QqQ-MS-based metabolomics combined to chemometrics.
- Determination of the effect of germination on the folate content of the seeds of some legumes using HPTLC-mass spectrometry-multivariate image analysis
- Metabolomics approach provides new insights into the immunomodulatory discriminatory biomarkers of the herbs and roots of Echinacea species.
- Effect of ontogeny on the content of the hallucinogenic alkaloids atropine and scopolamine in the different organs of some Solanaceae plants.
- Chemical profiling and biological screening with potential anti-inflammatory activity of *Callisia fragrans* grown in Egypt.
- Untargeted and targeted chemical profiling for efficacy-directed discrimination of *Hedera helix* L. subspecies using HPTLC- image analysis and HPTLC/MS.
- Profiling of acetylcholinesterase inhibitory alkaloids from some *Crinum*, *Habranthus* and *Zephyranthes* species by GC–MS combined with multivariate analyses and in silico studies.
- Cornigerin, a new sesqui-lignan from the hepatoprotective fractions of *Cynara cornigera* L.
- Phytochemical investigation and antimicrobial activity of *Psidium guajava* L. leaves.

## Conferences

1. Organizing Committee Head of “International Conference on Pharmaceutical and Healthcare Sciences; PHS 2022” [Organizing Committee – PHS \(phs-eg.com\)](http://phs-eg.com).
2. “Multidisciplinary approaches in pharmaceutical sciences”, Pharos University, 11-12/3/2020 (Poster Presentation).
3. International Conference on Pharmaceutical and Healthcare Sciences "PHS 2019, 6-7/11/2019.

4. **S. M. El Sohafy**, A. M. Metwally, A. A. Omar, M. M., Amer. Tribe Cynareae and Liver Disorders.

DUPHAT 2016. **THIRD BEST PROFESSIONAL POSTER AWARD.**

5. A.M. Metwally, A.A. Omar, M. E. Amer, S. A. El Toumy, Mohamed M. Radwan, Mahmoud A. ElSohly, M. S. Abdel Kader, **S. M. El Sohafy**.

J Pharma Care Health Sys 2015, 2:4. Biologically guided fractionation of the hepatoprotective plant *Onopordum alexandrinum* Boiss. growing in Egypt.

European Pharma Congress, Valencia, Spain, August 25-27, 2015.

6. A.M. Metwally, A.A. Omar, M. E. Amer, M. I. Abou Shoer, S. A. El Toumy, Mohamed M. Radwan, Mahmoud A. ElSohly, **S. M. El Sohafy**.

Cornigerin, A new lignan from the hepatoprotective active fractions of *Cynara cornigera*.

12th Annual Oxford International Conference on the Science of Botanicals. (ICSB), University of Mississippi, MS, USA. April 15th-18th , 2013.

Planta Medica, Thieme Medical Publishers (Germany), 79(5), P57, March 2013.

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**Google Scholar:** <https://scholar.google.com/citations?user=MFxMIksAAAAJ&hl=ar&oi=ao>

**Orcid iD:** 0000-0003-0444-4963

**Scopus Author ID:** 35302534100

### Languages

- English:  
**TOEFL:** June 2021.  
**Local TOEFL:** May 2013.  
**English for Academic Purposes** (Pharmacy): 2001.
- French: Good basic Knowledge.

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### Computer skills

Excellent computer skills including MS Office applications.

ICDL Certificate: April 2012.

## Interests and activities

**Sports:** Tennis (1985-present), Handball (1990-2000), PADI certified open water diver (2021).

**Arts:** Drawing, Oil painting, Handmade Creates, Photographing. (Participated in several exhibitions at Sporting Club, faculty of Pharmacy, Kasr Eltazawok and L'Atelier d' Alexandrie).

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## Community activities

October 2022 - present: Founder of the green cycle project (a community activity aiming at increasing the greenery and applying recycling in the premises of our faculty).

July 2021 – Present: Coordinator of the National Campaign for Plasma Collection at the Faculty of Pharmacy, Alexandria University.

June 2020 – Present: Coordinator of Crisis and Disasters Committee at the Faculty of Pharmacy, Alexandria University.

March 2020 – Present: Member of Community & Environment Services, Faculty of Pharmacy, Alexandria University.

One of founders of **JADE** [Junior Association of Demonic X-E.G.C.] 1997 that serves the E.G.C. graduates and the whole society, doing charity work and organizing social and sports events.

Membership in Old E.G.C. Association.

Membership in APMF[Association des medecins francophones].

Membership in L'Atelier de Alexandrie.

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## Volunteer experience

Organizer in several pharmaceutical conferences and events at Faculty of Pharmacy, Alexandria University.

Organizer in The Fourth Rheumatic Heart Disease Children's Day (a charity festival in 1996 celebrated at E.G.C.).

Organizer in BSLA [Basketball Summer League in Alexandria] as a member of JADE in cooperation with Rotract club and APMF where:

- BSLA 1 on behalf of Rheumatic Heart Diseased children, 1997.
- BSLA 2 on behalf of Kidney Diseased children, 1998.
- BSLA 3 on behalf of Rheumatic Heart Diseased children, 1999.
- BSLA 4 on behalf of Leukemic children, 2000.