

Name: **Samira Sobhy Aly Aly Elfar**

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Professional Summary

Assistant Lecturer in Pharmacognosy with over 6 years of academic and research experience in natural products chemistry and bioactive compound discovery. Strong expertise in extraction, isolation, and structural characterization of secondary metabolites. Experienced in laboratory supervision, scientific writing, and academic teaching.

Education

Master of Science (MSc) in Pharmacognosy – 2025

Faculty of Pharmacy, Tanta University, Egypt

Bachelor of Pharmaceutical Sciences – 2019

Faculty of Pharmacy, Tanta University, Egypt

Grade: Excellent with Honors (91.3%)

Academic Experience

Assistant Lecturer (Teaching Assistant)

Department of Pharmacognosy, Faculty of Pharmacy, Tanta University

2020 – Present

Research Experience

- Conduct research in natural products chemistry with emphasis on medicinal plants and bioactive compounds
- Perform extraction, isolation, and purification of secondary metabolites
- Apply chromatographic and spectroscopic techniques for compound analysis
- Participate in structure elucidation of natural compounds
- Work with compounds including flavonoids, biflavonoids, and sterols
- Experience with LC-HRMS for metabolite profiling and analysis
- Experience with NMR spectroscopy
- Contribute to scientific writing and manuscript preparation
- Collaborate in multidisciplinary research environments

Research Interests

- Plant secondary metabolites
- Isolation and characterization of bioactive plant compounds
- Synergistic interactions between plant derived compounds and antibiotics
- Interest in exploring natural products as potential sources for drug discovery and pharmacological applications
- Antioxidant, anti-inflammatory, neuroprotective, Antiviral and pharmacological activities of natural products

Publications

- Published research article in Journal of Advances in Medicine and Pharmaceutical Research (JAMPR)

El-Far, S. S., El-Sherbeni, S. A., Ragab, A. E., & Ibrahim, S. M. (2025). Comparative Preliminary Phytochemical and Biological Investigations on *Encephalartos kisambo* Faden & Beentje and *Encephalartos ferox* G. Bertol. Cultivated in Egypt. *Journal of Advanced Medical and Pharmaceutical Research*, 118-126.

Technical & Research Skills

- Natural Product Chemistry with focus on bioactive compounds
- Extraction, isolation, and purification of natural compounds
- Chromatographic techniques (TLC, column chromatography, preparative methods)
- Experience with LC-HRMS for metabolite profiling and analysis
- Experience with structure elucidation of natural compounds
- Experience with NMR spectroscopy
- General spectroscopy techniques (UV, IR)
- Isolation and identification of flavonoids, biflavonoids, and sterols
- Basic knowledge of photochemistry
- Data analysis and interpretation of chemical structures

Software Tools

Mnova – NMR and spectroscopy data analysis

ChemDraw – Chemical structure drawing and documentation

Mendeley – Reference management and scientific literature organization

Zotero – Reference management and citation tool

Microsoft Office (Word, Excel, PowerPoint)

Online teaching and learning platforms

Teaching Responsibilities

- Deliver undergraduate practical laboratory sessions in Pharmacognosy.
- Supervise student laboratory work and ensure compliance with safety protocols.
- Prepare teaching materials, presentations, and practical manuals.
- Participate in student assessment, exams, and grading.
- Provide academic advising and mentoring to undergraduate students.

Teaching & Academic Skills

- Laboratory instruction and supervision
- Student assessment and evaluation
- Curriculum support and academic coordination
- Academic mentoring

Soft Skills

- Strong communication and presentation skills
- Time management and multitasking
- Teamwork and academic collaboration

- Attention to detail and analytical thinking

Languages

Arabic: Native

English: Upper-Intermediate (B2)

German: Basic (A1)