

Mai H. El-Naggar

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Academic Qualifications

February 2018

Ph. D. in Pharmaceutical Sciences (Pharmacognosy), Mansoura University, Egypt.

Dissertation title: “**Modulation of Chemical Structure and Biological activity of the Alkaloid Ricinine**”

May 2014

M. Sc. in Pharmaceutical Sciences (Pharmacognosy), Mansoura University, Egypt.

Dissertation title: “**Isolation, Derivatization, and Biological Evaluation of Gingerol Derivatives**”

July 2010

B. Sc. in Pharmaceutical Sciences (**excellent with honor general cumulative grade, 88.37%**), Mansoura University, Egypt.

Employment history

Current position
(**March 2018 - Present**)

Lecturer at Pharmacognosy department, faculty of Pharmacy, Sohag University.

October 2014 - March 2018

Assistant lecturer at Pharmacognosy department, faculty of Pharmacy, Sohag University.

August 2011- October 2014

Pharmacist at Osman Ahmed Osman governmental hospital.

Publications

- 1- **El-Naggar, M. H.**; Elgaml, A.; Abdel Bar, F. M. and Badria, F. A. (2018). "**Antimicrobial and antiquorum-sensing activity of Ricinus communis extracts and ricinine derivatives**" Natural Product Research: 1-7.
- 2- **El-Naggar, M. H.**; Mira, A.; Abdel Bar, F. M.; Shimizu, K.; Amer, M. M. and Badria, F. A. (2017). "**Synthesis, docking, cytotoxicity, and LTA4H inhibitory activity of new gingerol derivatives as potential colorectal cancer therapy**" Bioorganic & Medicinal Chemistry 25(3): 1277-1285.
- 3- Abdel Bar F. M.; **El-Naggar M. H.** and Badria F. A.; (2015). "**Gingerols: New Therapeutics Applications**" LAP LAMBERT Academic Publishing, Germany.
- 4- Ibrahim, A. S.; Sobh, M. A.; Eid, H. M.; Salem, A.; Elbelasi, H. H.; **El-naggar, M. H.**; AbdelBar, F. M.; Sheashaa, H.; Sobh, M. A. and Badria, F. A. (2014). "**Gingerol-derivatives: emerging new therapy against human drug-resistant MCF-7**" Tumor Biology 35(10): 9941-9948.
- 5- Badria, F. A.; **El-Naggar, M. H.**; Abdel Bar F. M. and Amer M. M.; (2014). "**New Gingerol Derivative and Other Related Compounds from Zingiber officinale**" Journal of drug discovery and therapeutics 2(13): 53-59.

Teaching and research interest

Pharmacognosy, natural product chemistry, phytochemistry, medicinal chemistry, protein chemistry, molecular modeling and drug design

Research Skills

- Isolation and purification of natural products using various chromatographic techniques.
- Structural elucidation and identification of natural compounds using different spectroscopic techniques as IR, MS, 1D, and 2D NMR.
- Semi-synthesis and chemical derivatization of natural compounds.
- Virtual screening of new molecules for estimation of their ADME and toxicological properties using different software and web tools such as Molinspiration, and Osiris Data Warrior software.
- Evaluation of target-ligand binding affinity using different docking software.

Teaching and work experience

- Teaching and demonstrating the following practical courses for undergraduate students in Faculty of Pharmacy, Sohag University:
 - Botany and Medicinal Plants (PG111) for 1st year students.
 - Pharmacognosy-1 (PG212) and Pharmacognosy-2 (PG223) including study of leaf, flower, wood and bark for 2nd year students.
 - Pharmacognosy-3 (PG314) and Pharmacognosy-4 (PG325) including study of seed, fruit, herb & subterranean organs and chemistry of unorganized drugs for 3rd year students.
 - Chemistry of natural products-1 (PG416) and Chemistry of natural products-2 (PG427) including chemistry of volatile oil, carbohydrates, alkaloids, and resin.
 - Phytotherapy and chromatography.
- Preparing the practical exams for the previously mentioned courses.
- Participating in the planning for the practical experimental sessions that included organizing student timetables and ordering necessary chemicals and glassware.

Computer Skills

- Computer Assisted Drug Design (CADD) and using docking programs as AutoDock Vina, Maestro suite of software (Schrödinger) and MOE.
- Using PyRx 0.8 program (<http://pyrx.sourceforge.net/>) as virtual Screening software for Computational Drug Discovery
- Using PyMol molecular graphics system (www.pymol.org) for visualization.
- Using SnapGene software
- Using ChemOffice software suite.

Training attended and certificates

June 2018

TOEFL iBT, Test of English as Foreign Language, (score 88).

May 2016

Completed and passed the online course of “**Medicinal chemistry: the molecular basis of drug discovery**” offered by **Davidson college** through edx.

May 2016

Workshop on “**How to Use the Egyptian knowledge bank**”

April 2016

“**Computational techniques in drug design and discovery**” workshop held in the faculty of Pharmacy, Assiut University.

March 2016	TOEFL iBT , Test of English as Foreign Language, internet-based test.
April 2015	“Time and meetings management” course offered by FLDP (Faculty and Leadership Development Projects), Sohag university.
March 2015	“Communication skills in various teaching methods” course offered by FLDP (Faculty and Leadership Development Projects), Sohag university.
February 2015	“Preparing the university instructor” training course offered by College of Education, Sohag University.
January 2015	Endnote course offered by ICTP (Information Communication Technology Projects), Sohag university.
September 2012	“Computer Molecular Modeling and Drug Discovery” workshop held in the Faculty of Pharmacy, Mansoura University, Egypt.

Professional association membership

(2011 - present)	Member of the Egyptian Pharmacists Syndicate
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References

Farid A. Badria	Professor of Pharmacognosy, Faculty of Pharmacy, Mansoura University, Egypt. Phone number: 01001762927 Email: faridbadria@gmail.com
Fatma M. Abdel Bar	Assistant Professor of Pharmacognosy, Faculty of Pharmacy, Mansoura University, Egypt. Phone number: 01007536700 Email: fatma_maar@yahoo.com
Mohamed S. Abdelqader	Vice Dean of Faculty of Pharmacy for Education and Student Affairs, and assistant Professor of Pharmacognosy, Faculty of Pharmacy, Sohag University, Egypt. Phone number: 01016800578 Email: msaladin2002@yahoo.com