Ereny M. Abdelmalek

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D.O.B 08/05/1988

ACADEMIC EDUCTAION AND QUALIFICATION

PhD in pharmaceutical sciences, 2021, **specialization:** Chemistry of the natural products, joint system supervision between **National center of Natural Product Research** (NCNPR), University of Mississippi, MS, USA and Faculty of Pharmacy, Assiut University, Assiut, Egypt **(Oct. 2018- Dec. 2020)**.

Thesis title "Phytochemical and biological study of *Callistemon citrinus* skeel belonging to family Myrtaceae cultivated in Egypt".

Master degree in pharmaceutical sciences, 2016, **specialization**: Chemistry of the natural products, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

Thesis title "Pharmacognostical study of *Chorisia speciosa* belonging to family Bombacaceae cultivated in Egypt".

Bachelor degree in pharmaceutical sciences and chemistry with honors, 2010, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

ACADEMIC EMPLOYMENT

Lecturer at Faculty of Pharmacy, Pharmacognosy department, Assiut University, Assiut, Egypt. (Sep 2021)

Lecturer assistant at Faculty of Pharmacy, Pharmacognosy department, Assiut University, Assiut, Egypt. (Jan 2021 to Aug 2021)

Visiting scholar at National center of Natural Product Research (NCNPR), University of Mississippi, MS, USA (Oct 2018 to Dec 2020)

Lecturer assistant at Faculty of Pharmacy, Pharmacognosy department, Assiut University, Assiut, Egypt. (May 2016 to Sep 2018)

Demonstator at Faculty of Pharmacy, Pharmacognosy department, Assiut University, Assiut, Egypt. (Dec. 2010 to Apr 2016).

RESEARCH INTERESTS

Exploration of biodiversity for novel drug lead discovery, plant extraction and fractionation, isolation and structure elucidation of natural products of medicinal significance, studies on the structure and biochemistry of biological products, and evaluation of the biochemical effects of these active constituents.

RESEARCH EXPERIENCE

- Well trained for isolation, identification, structure elucidation, synthesis and evaluation of biologically active metabolites from natural sources including plants, fungi, and marine organisms.

- Good experience in the area of glycan and glycoside natural products drug discovery as well as NMR spectroscopy.

- Well trained to do the 1D and 2D-NMR experiments using different NMR equipment including:

  - Bruker Avance DRX spectrometer at 400-600 MHz (^{1}H) and 100-150 MHz (^{13}C), Germany.

Structural elucidation of these isolated compounds was done using 1D- (^{1}H- & ^{13}C-NMR), 2D- (^{1}H^{1}H-COSY, NOESY, ROESY, TOCSY, HMQC, HSQC & HMBC) NMR techniques together with HRESIMS. The obtained data was handled using Mnova NMR software.

Different research projects led to exposure to NMR pattern of diverse classes of compounds including monterpene glycosides, sterols, triterpenoidal aglycones, triterpenoidal saponins, flavonoidal aglycone and glycosides, phenyl propanoid glycosides, phenolics and quinolone alkaloids.

Bioassay guided fractionation of the used plant extracts augmented the isolation of the bioactive compounds, in which some of the isolated compounds were found to be active.

TEACHING EXPERIENCE

- **Practical courses;** Pharmacognosy-1-3, Phytochemistry -1&2, and applied Pharmacognosy-1&2, for the students of Faculty of pharmacy, Assiut university, Assiut, Egypt (Grades 1 through 4).

- Phytochemistry-1and 2, for the students of Faculty of pharmacy, Assiut University, Assiut, Egypt (Grade 3, semesters 5 and 6).

AWARDS

- Joint system supervision scholarship from the Egyptian Ministry of Higher education, 2018

GRANTS

- Research fund project from Assiut University, Faculty of Pharmacy, clinical fund, 2021.

CONFERENCES

^{18}th Annual Oxford International Conference on the Science of Botanicals, April 8th - 11th 2019. Chemical constituents of *Callistemon citrinus*. Poster presentation.

The American Society of Pharmacognosy Annual Meeting, July 13 th - 17 th 2019. Phytochemical and biological studies of *Callistemon citrinus*. Poster presentation.

^{13}th International Pharmaceutical Sciences Conference Pharmaceutical research and drug industry in light of Egypt's vision for sustainable development 2030, November 18 th-19 th.

PUBLICATIONS

- Abdelmalek EM, Zulfiqar F, Albadry MA, Khan SI, Meepagala KM, Ramadan MA, Darwish FM, Assaf MH, Ross SA. 2021. In silico and in vitro studies of isolated constituents from *Callistemon citrinus* leaves: anti-microbial potential and inhibition of iNOS activity. Phytochemistry, 186(11):112745.

- Abdelmalek EM, Ramadan MA, Darwish FM, Assaf MH, Mohamed NM, Ross SA. 2021. *Callistemon* genus- a review on phytochemistry and biological activities. Medicinal Chemistry Research, 30(5), 1031–1055.
- Nasr EM, Assaf MH, Darwish FM, Ramadan MA. 2018. Phytochemical and biological study of *Chorisia speciosa* A. St. Hil. Cultivated in Egypt. Journal of Pharmacognosy and Pharmacology, 7(1), 649-656.
- Ramadan MN, Darwish FM, Assaf MH, Nasr EM. 2016. Macro-and micromorphology of the leaf, stem, stem bark and fruit of *Chorisia speciosa* A. St. Hil cultivated in Egypt. Bulletin of Pharmaceutical Sciences. Assiut, 39 (1), 1-25.

LANGUAGES

Arabic: Fluent

English: Very good

COMPUTER SKILLS

Awarded a certificate of international computer driving license (ICDL).

Office (Word, Excel, PowerPoint)

Mnova NMR software