

Mai A.M. Ahmed

Full name: Mai Abdelhadi Mohamed Ahmed

Current position: Associate Professor of Natural Products Chemistry at Faculty of Pharmacy, Assiut University, 71526, Egypt.

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Education:

PhD in Pharmaceutical sciences, Phytochemistry of norditerpenoid alkaloids from *Aconitum* and *Delphinium* (University of Bath, UK, 2016)

MSc in Pharmaceutical sciences, Pharmacognosy, A Pharmacognostical Study of *Chrysanthemum carinatum* L., Family: Compositae (Assiut University, Egypt, 2010).

B.Sc. in Pharmaceutical Sciences. (Assiut University, Egypt, 2004)

Research interests

My main interest remains in the field of natural products chemistry focusing on isolation and purification of bioactive specialized metabolites from plants, fungi or marine origin using different chromatographic techniques, followed by their unambiguous structural elucidation using NMR spectroscopy and Mass spectrometry.

Optimizing extraction methods to ensure the highest yield and stability of the compounds of interest are achieved. Using Bruker 400 and 500 MHz NMR machines, analysing and processing NMR data using Topspin and Mnova software. Separation and purification of secondary metabolites e.g., flavonoids,

norditerpenoid alkaloids, saponins, and iridoids using different chromatographic techniques e.g., HPLC, open column chromatography and TLC/MS interface.

Teaching/Administrative experience

Teaching Pharmaceutical analysis in Department of Pharmacy and Pharmacology, University of Bath, UK. Demonstrated experiments and supervised practicals and workshops for undergraduate students on several analytical tools such as NMR, IR, UV, and Mass Spectroscopy. Examination invigilation ensuring correct procedures and processes were followed (2012-2016)

Teaching Pharmacognosy and Phytochemistry workshops for 1st, 2nd, 3rd and 4th grade Pharmaceutical Science students, Faculty of Pharmacy, Assiut University, Egypt (2005-2011)

Grants

Research grant from Faculty of Pharmacy, Assiut University 2021

A postdoctoral mission was awarded by the Egyptian Government (2020)

A fully funded PhD scholarship was awarded by the Egyptian Government (2012-2015)

Publications

Exploring the efficacy of various wheat bran extracts in promoting burn wound healing: A comparative analysis.

Journal of Ethnopharmacology, 2024

DOI: [org/10.1016/j.jep.2023.117174](https://doi.org/10.1016/j.jep.2023.117174)

Diverse Glycosides from *Gardenia latifolia* with Antiviral Activity and Chemosystematic Significance. Revista Brasileira de Farmacognosia, 2022

DOI: [10.1007/s43450-022-00335-w](https://doi.org/10.1007/s43450-022-00335-w)

Evaluation of *Rheum palmatum* rhizomes available in Jordanian markets and investigation of its potential use in cosmetics. Bulletin of Pharmaceutical Sciences. Assiut, 2022

DOI: [10.21608/BFSA.2022.124762.1303](https://doi.org/10.21608/BFSA.2022.124762.1303)

In vivo investigation of the potential hypoglycemic activity of *Pennisetum setaceum*: Justification of the traditional use among Jordanians. Research Journal of Pharmacy and Technology, 2022

DOI: [10.52711/0974-360X.2022.00533](https://doi.org/10.52711/0974-360X.2022.00533)

A review of the cosmetic use and potentially therapeutic importance of hyaluronic acid.

Journal of Applied Pharmaceutical Science, 2022

DOI: [10.7324/JAPS.2022.120703](https://doi.org/10.7324/JAPS.2022.120703)

Anti-inflammatory and cytotoxic specialised metabolites from the leaves of *Glandularia x hybrida*. Phytochemistry, 2022, 195, 113054.

DOI: [10.1016/j.phytochem.2021.113054](https://doi.org/10.1016/j.phytochem.2021.113054)

Loganin-type iridoids as chemotaxonomic markers in *Glandularia gooddingii* (Briq.) Solbrig. *Phytochemistry Letters*, 2021, 44, 68–73. 2021, 44, 41-48.
DOI: 10.1016/j.phytol.2021.04.003

Interplay of Biochemical, Genetic, and Immunohistochemical Factors in the Etio-Pathogenesis of Gastric Ulcer in Rats: A Comparative Study of the Effect of Pomegranate Loaded Nanoparticles Versus Pomegranate Peel Extract. *Frontiers Physiology*, 2021, 12:649462.
DOI: 10.3389/fphys.2021.649462

Anti-inflammatory activity of the food plant *Calligonum polygonoides* L. flavonoids targeting NF-κB. *Bulletin of Pharmaceutical Sciences. Assiut*, 2020, 43 (2), 157-164.
DOI: 10.21608/BFSA.2020.127408

Macro and micro morphological studies of the stem, leaf, and inflorescence of *Chrysanthemum carinatum* L. cultivated in Egypt. *Bulletin of Pharmaceutical Sciences. Assiut*, 2010, 33 (2), 141-168.
DOI: 10.21608/BFSA.2010.147034

Conference Attendance:

4th Forum for Women in Research. University of Sharjah, UAE. 30th – 31st August 2023.
Exploration of *Glandularia* loganin-type iridoids as antiviral agents against herpes simplex virus type II. (Online participation).

Assiut University 11th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, 11th-12th April 2018. p*K*_a Determination by NMR (Poster Presentation).

The Academy of Pharmaceutical Sciences Conference, Nottingham, UK, 7th - 9th September 2015.
Norditerpenoid Alkaloids from *Delphinium elatum* (Poster presentation).

The Academy of Pharmaceutical Sciences Conference, Nottingham, UK, 7th - 9th September 2015.
Identification of an Aconitine Artefact in Alcoholic Extracts (Poster presentation).

Drug Discovery and Design, Frankfurt, Germany, 11th - 13th August 2015. Identification of an Aconitine Artefact in Alcoholic Extracts (Oral presentation).

The Academy of Pharmaceutical Sciences Conference, Hatfield, UK, 8th - 10th September 2014. Different HPLC Columns in Aconitine Analysis (Poster presentation).

International Conference on Drug Discovery and Therapy, Dubai, UAE, 10th - 12th February 2014.
Stability of Aconitine in Alcoholic Extracts (Poster presentation).

The Academy of Pharmaceutical Sciences Conference, Edinburgh, UK, 2nd - 4th September 2013.
Stability of Aconitine in Alcoholic Extracts (Poster presentation).

Microscopy and analysis conference, Bath, UK, 9th January 2013. (Attendance).

Seminars and webinars

Journal Selection and the Dangers of Poor Editorial Quality (July 6, 2023)

Method development for solid phase extraction with steroid analytes (May 17, 2023)

Open Access for Egypt” Webinar by EKB, STDF and Springer Nature (May 30, 2022)

Exploiting selectivity in HPLC and UHPLC (Reading, UK, July 24, 2013)

Exploring the power of eluent pH in method development (Reading, UK, July 24, 2013)

HPLC/UHPLC column care and maintenance (Reading, UK, July 24, 2013)

HPLC instrument basics and troubleshooting (Reading, UK, July 24, 2013)

Training courses and workshops

Grants and Research Projects Workshop (Technology Innovation Commercialization Office (TICO - Assiut University, October 5, 2022)

HPTLC course, Certificate ID 6116ACE0CFCC8 (HPTLC Association, online August 2021)

Liquid Chromatography Mass Spectrometry (LC-MS) (NAWAH, online August 2021)

Nuclear Magnetic Resonance (NMR): Advanced level (NAWAH, online August 2021)

Fundamentals of Digital Transformation (Word Processing- Presentations- Mobile app) (Central Unit of IT Training, July 2021)

Conference Organization (FLDC, Assiut University, online July 2021)

Quality Standards in Teaching (FLDC, Assiut University, online February 2021)

Electronic References Management using Mendeley (Virtual medical academy, February 2021)

Technicalities of Design and Conduct Scientific Research (FLDC, Assiut University, January 2020)

Publication of Research in International Journals (FLDC, Assiut University, December 2019)

Statistical analysis in scientific research (Assiut University, Egypt, September 27-29, 2016)

Strategic planning (Assiut University, September 25-26, 2016)

Inside cancer: how genes influence cancer development (University of Bath, UK, June 2016)

<http://www.futurelearn.com/statements/5x5m3dw>

Reading for academic writing-for the sciences (University of Bath, UK, November 4, 2015)

Planning and writing a thesis and preparing for the viva (University of Bath, UK, June 2, 2015)

Teaching introduction (for postgraduates who teach) (University of Bath, UK, February 26, 2014)

Literature searching: Embase and Pubmed (University of Bath, UK, April 12, 2013)

Literature searching: Scifinder (University of Bath, UK, February 22, 2013)
Fire safety training by Chubb (University of Bath, UK, March 19, 2012)
Introduction to Endnote X7 (University of Bath, UK, March 14, 2012)
Referencing, plagiarism and copyright (University of Bath, UK, March 9, 2012)
Plagiarism-Workshop (University of Bath, UK, February 29, 2012)
Literature searching: Scifinder (University of Bath, UK, February 2, 2012)
Academic integrity training and test (University of Bath, UK, February 2011)
Intensive workshop on excellence of Teaching (Assiut University, Egypt, October 2006)
Intensive workshop on preparation of an Excellent Teacher (Assiut University, Egypt, October 2005)

References

Dr Ian S. Blagbrough (PhD Supervisor)
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Dr Lidia K. Al-Halaseh
Associate Professor
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Languages:

Arabic: native
English: fluent
French: fair

Interests: I like baking