

Shaimaa Fayez Ali

Associate Professor of Pharmacognosy and Natural Products Chemistry
Faculty of Pharmacy, Ain-Shams University, Cairo, Egypt



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Date of birth: 25.01.1988 in Cairo, Egypt

Scopus h-index: 19 (accessed on 7 October 2026)

Scopus publications: 57

Scopus citations: 953

<https://www.scopus.com/authid/detail.uri?authorId=57197856859>

Google scholar h-index: 21 (accessed on 7 October 2026)

Google scholar citations: 1185

<https://scholar.google.com/citations?user=NCFzVBsAAAAI&hl=en>

Research gate h-index: 20

Research gate citations: 1079

Research gate publications: 59 (accessed on 7 October 2026)

<https://www.researchgate.net/profile/Shaimaa-Fayez/research>

Education

04/2016 – 11/2019

PhD degree (summa cum lauda)

Doctor of natural sciences (Dr. rer. nat.) (lab of Prof. Gerhard Bringmann, Institute of Organic Chemistry, University of Würzburg, Germany)

Thesis title: "Isolation, structural elucidation, and biological evaluation of Naphthylisoquinoline alkaloids from two African *Ancistrocladus* species"

2012 – 2015

M.Sc. degree

Master of pharmaceutical sciences (Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University, Cairo, Egypt)

Thesis title: "Phytochemical and biological study on *Markhamia lutea* (*Markhamia platycalyx*) Family Binoniaceae"

2005 - 2010

B.Sc. degree

Bachelor of pharmaceutical sciences, Faculty of Pharmacy, Ain-Shams University, Cairo, Egypt
Cumulative grade: Excellent with honour

Professional experience

September 2021 – January 2022

Part time / visiting lecturer at Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, Heliopolis University, Cairo, Egypt.

April 2020 – present

lecturer at Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University, Cairo, Egypt.

Practical skills

Handling with chromatographic and spectroscopic techniques such as HPLC, GC, UV, IR, polarimeter, NMR, ECD as well as hyphenated techniques such as LC-MS/MS and GC-MS

NMR metabolomics in plant and food research

Structural elucidation of natural products using 1D and 2D NMR techniques

Poster designs

Writing manuscripts, scientific articles, and projects

Software skills

MestReNova

ChemDraw

CorelDraw

XCalibur

MZmine

GNPS and molecular networking

Network pharmacology

Office (Microsoft word, powerpoint, excel)

Language skills

Arabic (mother language)

English (fluent spoken and written)

German (B1 spoken and written)

Teaching courses

Undergraduate courses

- Pharmacognosy (subtopics include marine chemistry and optimum nutrition courses)
- Phytochemistry and chemistry of natural products (subtopics include alkaloid chemistry and glycosides chemistry)
- Chromatography (subtopics include gas chromatographic analysis of natural products)
- Quality control of herbal products

- Phytotherapy and herbal medicine

Postgraduate courses

- Structural elucidation of natural products using 1D and 2D NMR techniques
- Marine derived natural products

Academic activities

- Member of the e-learning unit of the Faculty of Pharmacy, Ain-Shams University
- Member of the quality assurance unit and accreditation unit of Faculty of Pharmacy, Ain-Shams University
- Head of the quality assurance unit of Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University (from 2020 to 2022)
- Head of purchasing unit of the Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University (from 2023-2024)
- The organizer of the annual scientific conference of the Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University
- Supervising master and Ph.D students (a total of 3 master students and 3 doctoral students)
- Participating in developing and updating pharmacognosy, phytochemistry, and phytotherapy related courses
- Supervising internship students at the Department of Pharmacognosy, Faculty of Pharmacy, Ain-Shams University.
- Supervising the graduation projects of bachelor students of Faculty of Pharmacy, Ain-Shams University (21-22 and 23-24 Pharm D Clinical students and 24-25 Pharm D students)
- Participating in scientific workshops and conferences

Funded projects

- Participant in the funded project from STDF named "Sustaining the capacity of the Drug Discovery and Development Research Center's laboratories" in 2022.
- Researcher in the funded project from STDF named "From waste to wellness: Valorizing food by-products to generate health promoting plant extracts targeting gut metabolism" in 2025