Curriculum Vitae

Dr. /Ghada Ismail EL-Shahat Ali Attia



Personal information

Name: Ghada Ismail EL-Shahat Ali Attia

Nationality: Egyptian

Birth date: Decamber 25th, 1972 (Asiut)

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Degrees Obtained

May 1995: Bachelor's degree of Pharmaceutical Sciences (very good honor degree) from the Faculty of Pharmacy, Tanta University, Egypt.

February 28th, 2002: Master's degree of Pharmaceutical Sciences (Pharmacognosy), from the Faculty of Pharmacy, Tanta University, Egypt.

Decamber 29th, 2010: Doctor of Philosophy in Pharmaceutical Sciences (Pharmacognosy) from Faculty of Pharmacy, Tanta University, Egypt.

Septamber 24th, 2022: Associate Professor of Pharmacognosy from Faculty of Pharmacy, Tanta University, Egypt.

Employment Record

February 1st, 1997: Instructor at the Department of Pharmacognosy, Faculty of Pharmacy, Helwan University, Egypt.

March 1st, 1998: Instructor at the Department of Pharmacognosy, Faculty of Pharmacy, Tanta University, Egypt.

March 28th, 2002: Assistant lecturer at the Department of Pharmacognosy, Faculty of Pharmacy, Tanta University, Egypt.

February 9th, 2011- present: Lecturer at the Department of Pharmacognosy, Faculty of Pharmacy, Tanta University, Tanta, Egypt.

October 31st, 2022: Associate Professor of Pharmacognosy, Faculty of Pharmacy, Tanta University, Egypt.

Administrative Positions

- Member of the council of the Pharmacognosy Department**,** Faculty of Pharmacy, Tanta University **(**May 2011- till now).
- Member of the environment and community service committee, representing the Pharmacognosy Department (September 2012- August 2014).
- Member of the undergraduate students affairs committee, representing the Pharmacognosy Department (September 2014).
- Secretary of the council of the Faculty of Pharmacy, Tanta University (September 2016-August 2017).
- Coordenator of the learning outcomes assessment standard (the 9th standard)-Quality team- Clinical Pharmacy, Faculty of Pharmacy, Tanta University (Novamber 2017-2020).
- Member of the libraries committee, representing of the Pharmacognosy Department (August 2018-August 2020, and from February 2022- till 2026).
- Member of the council of the Faculty of Pharmacy, Tanta University **(**Septamber 2026-till now).

Membership of Scientific and Academic Societies

- Member of the Egyptian Pharmaceutical Society (1995-Present).
- Member of the Edetorial Board of Journal of Pharmaceutical Chemistry & Chemical Science (2022-Present).

Teaching Experience and Teaching-Related Activities

- Preparation, teaching, and assessment (both oral and written examinations) of several courses e.g., Medicinal Plants, Pharmacognosy and Phytochemistry to undergraduate Pharm D Pharmacy students, Faculty of Pharmacy, Tanta University, Egypt.
- Preparation, teaching, and assessment (both oral and written examinations) of several courses (e.g., Medicinal plants, Pharmacognosy-1, Pharmacognosy-2, and Phytochemistry-1) Clinical Pharmacy students at the Faculty of Pharmacy, Tanta University, Egypt.
- Preparation, correction, and assessment of examinations of Pharmacognosy department courses at the exact time.
- Preparation, teaching, and assessment (both oral and written examinations) of some courses for postgraduate student's e.g: new horizons of Pharmacognosy and supervising seminars to postgraduate pharmacy students affiliated to Pharmacognosy Departments at the Faculty of Pharmacy, Tanta University.
- Development and renewing courses, including the practical and written notes, which is teaced by the Department.
- External examiner for the undergraduate courses of Pharmacognosy at the Faculties of Pharmacy of several Egyptian government and private universities.
- Aidding in preparation of course specifications, assessment of examination`s paper and external reviewer reports for Pharmacognosy courses at
- Coordinator of activate e-learning course (Practical Medicinal Plants) for prepharmacy students 2012/2013.

Research interests and experience

Research interests include the microbial biotransformation of different xenobiotics (especially coumarin compounds), separation and identification of the isolated metabolites through variable spectroscopical methods (1D NMR, 2D NMR, mass analysis). Furthermore, in *vitro* biological evaluation of the isolated pure metabolites.

The use of traditional and modern chromatographic techniques in separation of different secondary metabolites from medicinal plant extracts and the identification of the isolated metabolites through variable spectroscopical methods (1D NMR, 2D NMR, mass analysis). Variety

of in *vivo* and in *vitro* biological tests were attimped for measurement of the antioxidant, anti-inflammatory, cytotoxic, hepatoprotective and anti-ulcear activities of these plant extracts.

Nowaday, I am supervising Master theses interested in separation of endophytes of medicinal plants and its identification via morphological, microscopical and moleculer characterization. Furthermore, separation with identification of the endophetic metabolites through variant chromatographic and spectroscopic techniques.

The following list framed the puplished research in my field of interest:

- Biotransformation of coumarins by *Cunninghamella elegans*.
- Biotransformation of furanocoumarins by *Cunnninghamella elegans*.
- GC-MS Analysis of petroleum ether extract and volatiles of *Cycas revoluta* Thunb growing in Egypt.
- A new cytotoxic and antioxidant amentoflavone monoglucoside from *Cycas revolute* Thunb growing in Egypt.
- Phytochemical and biological investigation of *Urtica urens* L. growing in Egypt.
- Triterpenoids from the aerial parts of *Anabasis articulata* (Forssk) Moq: gastroprotective effect in vivo with in silico studies, cytotoxic and antimicrobial activities.
- Promising antifungal activity of *Encephalartos laurentianus* De wild against *Candida albicans* clinical isolates: In vitro and in vivo effects on renal cortex of adult albino rats.
- Anti-biofilm impact of *Anabasis articulata* (Forssk) Moq. total methanol extract against *Pseudomonas aeruginosa* clinical isolates.
- LC-MS/MS metabolomics profiling of *Glechoma hederacea* L. methanolic extract; *in vitro* antimicrobial and *in vivo* with *in silico* wound healing studies on *Staphylococcus aureus* infected rat skin wound.

Supervision of Thesis

A. <u>These are under supervision and yet not given the degree:</u>

1- Isolation, secondary metabolites, and biotransformation reaction by endophytic fungi from *Datura stramonium* cultivated in Egypt (Master`s degree, April 2021).

2- Bioactive secondary metabolities from endophytic fungi isolated from order brassicales cultivated in Egypt. (Master`s degree, Febrawary, 2024)

3- Phytochemical and biological studies on *Pistacia weinmanniifolia* J. Poiss. Ex Franch, Family Anacardiaceae cultivated in Egypt. (June, 2026)

B. <u>These are completed:</u>

1- Phytochemical and Biological Investigation of *Cycus reveluta* Thumb growing in Egypt (2012 -2016).

2- Phytochemical and Biological Investigation of *Anabasis articulata (*Forssk) Moq growing in Egypt (2016 -2021).

3- Phytochemical and biological studies on *Typha domingensis* Pers. growing in Egypt (2021-2024).

4- Biotransformation study of some simple bioactive compounds containing purine nucleus (2018- 2024).

5- A phytochemical and biological study of *Atriplex portulacoides* L. Family Amaranthaceae growing in Egypt (2019- 2025).

6- Bioactive secondary metabolites from endophytic fungi isolated from *Hyoscyamus muticus* cultivated in Egypt (2021- 2025).

7- Phytochemical and biological studies on *Delonix decaryi* (R.Vig) Capuron Family Fabeacea cultivated in Egypt (2021- 2026).

8- Substrate specificity in bioconversion of anthraquinones (2017- 2026)

LIST OF PUBLICATION

1. Biotransformation of furanocoumarins by *Cunnninghamella elegans*, Bulletin of Faculty of Pharmacy, Cairo University, 53(1), 1-4 (2015)
2. Biotransformation of coumarins by *Cunninghamella elegans*, African Journal of Pharmacy and Pharmacology, 10(8), (2016).
3. GC-MS Analysis of petroleum ether extract and volatiles of *Cycas revoluta* Thunb growing in Egypt, Inventi Rapid Planta Act, 2016, 1-5 (2016).
4. A new cytotoxic and antioxidant amentoflavone monoglucoside from *Cycas revolute* Thunb growing in Egypt, Journal of Pharmaceutical Sciences and Research, 8(5), 343 (2016).
5. Phytochemical and biological investigation of *Urtica urens* L. growing in Egypt, International Research Journal of Pharmacy, 9, 25-35 (2018).

6. Triterpenoids from the aerial parts of *Anabasis articulata* (Forssk) Moq: gastroprotective effect in vivo with in silico studies, cytotoxic and antimicrobial activities. Natural Product Research, 36(16), 4076-4084 (2021).
7. Anti-Biofilm Impact of *Anabasis articulata* (Forssk) Moq. Total Methanol Extract Against *Pseudomonas aeruginosa* Clinical Isolates, Journal of Advanced Medical and Pharmaceutical Research, 3, 29-35(2022).
8. LC-MS/MS metabolomics profiling of *Glechoma hederacea* L. methanolic extract; *in vitro* antimicrobial and *in vivo* with *in silico* wound healing studies on *Staphylococcus aureus* infected rat skin wound, Natural Product Research (2022). https://doi.org/10.1080/14786419.2022.2108421.
9. Promising antifungal activity of *Encephalartos laurentianus* De wild against *Candida albicans* clinical isolates: In vitro and in vivo effects on renal cortex of adult albino rats, Fungi, 8, 426 (2022).
10. Fungal Screening of Some Natural Bioactive Purine-based Alkaloids for Efficient Biotransformation, Journal of Advanced Medical and Pharmaceutical Research, 5, 113-120 (2024).
11. GC- MS Analysis and Antimicrobial Activity of *Typha domingensis* Pers. Aerial Parts, Journal of Advanced Medical and Pharmaceutical Research, 6, 10-21 (2024).
12. The use of the white biotechnology toolkit to edit natural purines for studying their anticancer activity via mTOR pathway, Bioorganic Chemistry, 59, 108391 (2025).
13. Atriplex portulacoides L. derived phytochemicals mitigate acetic acid induced colitis in rats via orchestrating Nrf2/Keap1 signalling and LncRNAs gene expression, Inflammopharmacology (2026). https://doi.org/10.1007/s10787-026-02332.
14. Biotransformation-guided production of quinalizarin as an antibacterial agent against *Acinetobacter baumannii*, Applied Microbiology and Biotechnology, 110(249), 1-18(2026).
15. GC-MS analysis and biological Investigations of *Delonix decaryi* (R. Vig.) Capuron leaves, Journal of Advanced Medical and Pharmaceutical Research, **7**, 73-84 (2026).
16. Unlocking the Biocatalytic Potential of Fungi: Selective Transformation of Anthraquinone into Anthrone and 1-Hydroxyanthraquinone, Journal of Advanced Medical and Pharmaceutical Research, 7, 140-146 (2026).

Conferences and Scientific Meetings Attended

1. Sonbol F., EI-Shami, I., Mahmoud I.; Nasra M. and **Attia Gh**. Investigation of the antimicrobial and antitumor potential of some plants used in Egyptian folk medicine. Poster in the 10th International Conference of Microbiology, Faculty of Medicine, Tanta University and the Egyptian Society for Medical Microbiology, Cairo, Egypt. March 14-15, 2002.
2. Poster in the 1st International Pharmaceutical Sciences Conference, Pharmacy Education and Community Expectations, Faculty of Pharmacy, Tanta University, Tanta, Egypt
   November 18th-19 th, 2009.
3. Attendance in the First PAU International Conference on Advances in Pharmaceutical Science.Pharos University, Alexandria, Egypt.
   October 27th-29th, 2015.
4. Attendance in Conference of New Avenues in Health Care: Pharmacy & Egypt Vision 2030. Scientific Conference of Faculty of Pharmacy, Tanta University, Tanta, Egypt.
   March 5th-6th, 2022.

Scientific Research Arbitration

Peer reviewer of scientific articles puplished at Journals of:

- Natural Product Research
- Advances in Medical and Pharmaceutical Sciences
- Pharmacutical Research International

Training Courses Attended

1. **IT Coarse –1st level** (December 1996), Faculty of Commerce, Tanta University.
2. **Special Program in Internet** (Septamber 23rd, 1999), held at University information Network center, Tanta University**.**
3. **Special Program in 2nd computer training for graduate students** (April 20th, 2002), held at of Faculty of Commerce, Tanta University.
4. **Intensive English Language Program**, (July 14th- Septamber 14th, 2002), held at Faculty of Education, Tanta University.
5. **University teacher Preparation Cycle** (March 28th- April 20th, 2004), held at Faculty of Education, Tanta University.

6. **Thinking** (Decamber 1st-5th, 2004), held at the international center for faculty and leadership development (TICFLD), Tanta University.
7. **Scientific Research** (Decamber 25th-28th, 2004), held at the international center for faculty and leadership development (TICFLD), Tanta University.
8. **Scientific Publication** (February 2nd-4th, 2010), held at the international center for faculty and leadership development (TICFLD), Tanta University.
9. **University administration** (February 16th-18th, 2010), held at the international center for faculty and leadership development (TICFLD), Tanta University.
10. **Quality Standers of Teaching Process** (March 23rd-25th, 2010), held at the international center for faculty and leadership development (TICFLD), Tanta University.
11. **Strategical Planning** (July 10th-12th, 2012), held at the international center for faculty and leadership development (TICFLD), Tanta University.
12. **Methods of Evaluation and Exams to Measure Learning Outcomes** (March 13th, 2013), held at the University quality assurence center (TQAC), Tanta University.
13. **TOEFL iBT™** – Internet based test (April 21st, 2017), total score: 62, certificate No.1118163002187, at AMIDEAST Center- Alexandria- Egypt.
14. **High Perfrmance Liquid Chromatography** (Decamber 4th, 2019), held at the pharmaceutical services center (PSC), Faculty of Pharmacy, Tanta University.
15. **Prepering Competitive Research Project** (June 1st-2nd, 2021), online course, the international center for faculty and leadership development (TICFLD), Tanta University.
16. **Code of Ethics** (June 16th-17th, 2021), online course, the international center for faculty and leadership development (TICFLD), Tanta University.
17. **Time and Conference Management** (June 21st-22nd, 2021), online course, the international center for faculty and leadership development (TICFLD), Tanta University.
18. **Student Assessment and Evaluation** (July 3rd-4th, 2021), online course the international center for faculty and leadership development (TICFLD), Tanta University.
19. **Conference Organization** (July 7th-8th, 2021), online course, the international center for faculty and leadership development (TICFLD), Tanta University.
20. **Disasters and Crises Managment** (July 10th-11th, 2021), online course, the international center for faculty and leadership development (TICFLD), Tanta University.
21. **Computer-Aided Drug Design** (October 5th-6th, 2021), held at the pharmaceutical services center (PSC), Faculty of Pharmacy, Tanta University.

22. **Digital Transformation** (May 9th -10th, 2022), online workshop, the international center for faculty and leadership development, Tanta University.

References:

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