

Ghada Mahmoud Ahmed Abbas

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Nationality Egyptian

EDUCATION

Mansoura University, Faculty of Pharmacy: Pharmacognosy Department, Mansoura, Egypt.

• **PhD. in Pharmacognosy, June 2021.**

- Thesis Title: **A study of *Cynara scolymus* as a potential source for bioactive compounds**
- Supervisor: Prof. Ahmed A.A. Gohar
- Co-Supervisor: Prof. Mohamed-Farid I.M. Lahloub and Dr. Amal Salam
- Relevant Courses: Plant Biotechnology, biotransformation, and Applied Spectroscopy.

Mansoura University, Faculty of Pharmacy: Pharmacognosy Department, Mansoura, Egypt.

• **M.Sc. in Pharmacognosy, May 2014.**

- Thesis Title: **Chemical Study of Phenolic Antioxidants from *Morus nigra*.**
- Supervisor: Prof. Dr. Mohamed-Farid I.M. Lahloub
- Co-Supervisor: Prof. Dr. Ahmed A.A. Gohar, and Dr. Fatma M. Abel-Bar
- Relevant Courses: A special course in Spectroscopy and Plant tissue culture, Statistics, Physical chemistry, and Instrumental chemistry.

Mansoura University, Faculty of Pharmacy, Mansoura, Egypt

• **B.Sc. in Pharmaceutical Sciences 2006, (Very Good with honor)**

- Relevant Courses: Pharmacognosy, Phytochemistry, Biochemistry, Pharmacology, Pharmaceutics, Microbiology, Organic Chemistry, Inorganic Chemistry, Medicinal Chemistry, Analytical Chemistry and Physical Chemistry.

RESEARCH INTERESTS

- Phytochemistry, Drug discovery, Spectroscopy, Chromatography, Plant biotechnology, Plant tissue culture, Secondary metabolites elicitation, Integrative Bioinformatics, Structural Bioinformatics, Anticancer, and Antioxidants.

RESEARCH EXPERIENCE

- Drug discovery from natural sources especially plants.
- Isolation of bioactive plant constituents using chromatographic techniques (column chromatography using different stationary phases as silica, reversed phase and Sephadex).
- Structural elucidation of new natural products of promising biological activity, especially polyphenolics, using different spectroscopic techniques (UV, IR, 1D and 2D-NMR).
- Processing of NMR data by ACD NMR Processor and MastReNova software.
- Interpretation of the results of different spectroscopic techniques.
- Assessment of the plant crude extract, fractions and pure isolated compounds as: Antioxidant, Cytotoxic and Antiproliferative agents.
MTT assay, especially for hepatocellular carcinoma and breast cancer.
- Semi-synthesis.
- Plant Tissue Culture technique.
- Plant Biotechnology.
- Elicitation of plant secondary metabolites.

TEACHING INTERESTS

- Pharmacognosy, Phytochemistry, Plant biotechnology, Biotechnology and its applications and Pharmacotherapy.

PUBLICATIONS

1. Abbas GM, Abdel Bar FM, Sallam A, Elgamal RM, Lahloub M-FI, Gohar AA. *In vitro* Callus Culture of *Cynara cardunculus* subsp. *scolymus*: A Biosystem for Production of Caffeoylquinic Acid Derivatives, Sesquiterpene Lactones, and Flavonoids. *Plant Biosystems*. 2022; 156(4): 865-874.
2. Abbas GM, Sallam A, Bar FMA, Lahloub MF, Gohar AA. A New Cynaropicrin Derivative from *Cynara Scolymus* L. *Records of Natural Products*. 2020;15:103-10.

3. Abdel Bar FM, Abbas GM, Gohar AA, Lahloub MI. Antiproliferative activity of stilbene derivatives and other constituents from the stem bark of *Morus nigra* L. *Natural product research*. 2020;34(24):3506-13.

4. Abbas GM, Abdel Bar FM, Baraka HN, Gohar AA, Lahloub M-F. A new antioxidant stilbene and other constituents from the stem bark of *Morus nigra* L. *Natural product research*. 2014;28(13):952-9.

WORK UNDER PROGRESS

- Metabolomic and phytochemical studies of some Egyptian plants.

WORK EXPERIENCES

- Lecturer of Pharmacognosy, Faculty of Pharmacy, Horus University, New Damietta, from October 2021 till now.
 - Teaching Medicinal plants, Pharmacognosy-1, Pharmacognosy-2, and Phytochemistry-2 courses for undergraduate students.
 - Preparing exams for the courses mentioned before.
 - Participating in organizing student timetables, quality assurance works, ordering necessary chemicals and glassware and control works.
 - Acting as a supervisor for academic advisors.
 - Acting as a supervisor for graduation projects.
 - Acting as a supervisor for different student activities.
- Visiting lecturer, Faculty of Science, Damietta University, Fall 2022-2023.
 - Teaching Applications of Biotechnology in Medicine and Pharmaceutical industry and Biotechnology for Secondary Products.
- Assistant lecturer of Pharmacognosy, Faculty of Pharmacy, Horus University, New Damietta, from October 2016- September 2021.
 - Teaching practical Medicinal plants, Pharmacognosy-1, Pharmacognosy-2, Phytochemistry-1 and Phytochemistry-2 courses for undergraduate students.
 - Preparing the practical exams for the courses mentioned before.
 - Participating in organizing student timetables, quality assurance works and ordering necessary chemicals and glassware.
 - Acting as an academic advisor for undergraduate students.
 - Acting as a supervisor for summer training.
 - Acting as a supervisor for teaching assistants.
 - Acting as a co-supervisor for graduation projects.
 - Acting as a supervisor for different student activities.

- External research assistant- Department of Pharmacognosy- Faculty of Pharmacy- Mansoura University from 2016 till June 2021.
- External researcher- Department of Pharmacognosy- Faculty of Pharmacy- Mansoura University from 2009- 2014.
- A pharmacist in Damietta General Hospital, from 2007- September 2016.
- A clinical pharmacist in ICU unit, from 2015- September 2016.
- A clinical pharmacist in Damietta General Hospital, from 2013- September 2016.
- A pharmacist in Agyad pharmacy, 2007.
- Medical convoys from 2008- 2011.
- Community Pharmacist Trainee Jul., 2004-Sep., 2006.

HONORS and AWARDS

Ideal pharmacist of Damietta from Damietta Pharmacist Syndicate, 2018 and 2023.

PRESENTATIONS and Workshops

- **“Plant Tissue Culture & its applications”** presented as a training workshop for staff and teaching assistants of Pharmacognosy department at Horus University, 28th Dec, 2022.
- **"MesterNova: a complete guide for 1D and 2D NMR data processing"** presented as a training course for staff and teaching assistants of Pharmacognosy department at Horus University, February, 2021.
- **"Teaching assistants' duties"** presented as a training course for new demonstrators at Horus University, February, 2018.
- **"Clinical Pharmacy"** presented at the first clinical pharmacy conference in Damietta General Hospital, August, 2014.
- **"Drug Information Centers"** presented as a training course for clinical pharmacists in Damietta General Hospital, June, 2014.

OTHER EXPERIENCES

- Participated in 8th Euro-Mediterranean Conference (BioNat-8), 5-7 Oct 2023.
- Participated in “Basic principles of modern vaccinology” scientific talk, Faculty of Pharmacy, Helwan University, 10th October, 2022.
- Participated in “Marine natural product drug leads for development of ‘host directed therapies’ to manage 21th century pandemics” scientific talk, Faculty of Pharmacy, Helwan University, 30th Sep., 2022.

- Participated in “Grant Writing” workshop, Nature Research Academy Egyptian Knowledge Bank & STDF 25th July 2022.
- Participated in “Writing a Research Paper” workshop, Nature Research Academy, Egyptian Knowledge Bank & STDF, 17th July 2022.
- Participated in “Professional Scientific Oral Presentations: How to Craft Captivating Slides” online webinar, Egyptian Knowledge Bank and CABI, 13th July, 2022.
- Participated in “Using Design Expert Software for analytical Method Development” workshop during The 3rd International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, Mansoura University, 28th, 29th August., 2022.
- A speaker at The 3rd International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, Mansoura University, 31st August., 2022.
- Winning the second place in the 10th Scientific Conference for Pharmacy Students, Faculty of Pharmacy, Mansoura University, 1st August, 2022.
- Participated as a supervisor in The 4th Student Conference of Damietta University, 11, 12 May, 2022.
- Attended online series of lectures (Precision medicine for cancer) presented by professor/ Daniel Thomas, Adelaide Medical school, The University of Adelaide, Stanford Cancer Institute, Stanford school of medicine Dec. 2021 to Mar., 2022.
- Attended “Statistical analysis skills” workshop, University Development center, Mansoura University, 8th , 9th Dec., 2019.
- Attended “Ethics of Scientific Research” workshop, University Development center, Mansoura University, 13th, 14th October, 2019.
- Attended The First Joint Egyptian- Italian Workshop on Innovative Scientific Research, National research center, Egypt, 4th- 5th Feb., 2019.
- Attended workshop training in Nuclear Magnetic resonance Spectroscopy delivered by Prof. Hussein El-Subbagh, NMR Unite, Mansoura University, July 2018.
- Attended lecture entitled "Obtaining New Pharmacophores from Extreme Environments" delivered by Prof. Marcel Jaspars, University of Aberdeen, at Mansoura University, May 2018.
- Received the ERC qualification of Basic Life Support (BLC), European Resuscitation Council, Horus University in Egypt, January 2018.
- Attended the Principles of Real Time PCR& Gene Expression workshop, Center of Excellence of Molecular and Cellular Medicine, Faculty of Medicine, Suez Canal University, Feb., 2018.
- Contributed to the arbitration of The Local Scientific Exhibition for students (INTEL ISEF), Damietta, December 2017.
- Attended the High Performance Liquid Chromatography (HPLC) workshop, 9-10 Aug., Institute of Biotechnology, Suez Canal University, 2017.
- Participated in organization of the 5th. and 6th. Scientific Conferences of Pharmacy in Damietta, Oct., 2017, 2018.

- Contributed to the establishment of The Pharmacognosy Department- Faculty of Pharmacy- Horus University in Egypt, 2016.
- Participated in the First Pharmaschool International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, Mansoura University, Feb., 2016.
- Participated in Computational Chemistry and Molecule Modeling workshop during First Pharmaschool International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, Mansoura University, Feb., 2016.
- Pharmacotherapy American Board preparatory course, Pharmacy syndicate, Damietta, from Sep., 2014 till Sep., 2015 (144 hours).
- Training course in Total Quality Management, Jan., 2015.
- Participated in The First Mansoura Annual Conference of Clinical Pharmacy, Nov., 2015.
- Participated in The Scientific Conferences of Pharmacy in Damietta, Nov., 2015, Nov., 2014 and Oct., 2013.
- Contributed to the establishment of The Clinical Pharmacy Department in Damietta General Hospital, 2013.
 - Participated and passed Practical Clinical Pharmacy Training, Dar El-Shefa Hospital, Cairo-Egypt, 23/4/2014– 22/5/2014.
- Practical Clinical Pharmacy Training, Active Training Company, Feb.-Mar, 2013
- Participated in The First Scientific Conference of Damietta General Hospital, Sep., 2012.
- Course in clinical pharmacy- Mansoura University, Jul.-Sep., 2006
- Course in first aid- Faculty of Nursing, April, 2004.
- Community Pharmacist Trainee Jul., 2004-Sep., 2006.

SKILLS AND ABILITIES

- Dynamic, Creative and self-motivated.
- Fast Learning.
- Understand personalities rapid and well.
- Adapting with hard circumstances with smart solutions.
- Enthusiasm and challenging spirit .
- Active listener.
- Active and hard team worker.
- Target achiever and time manager.

OTHER SKILLS

Computer:

- Windows, Microsoft Office and Internet
- International Computer Driving License (ICDL), 2009.

Language:

- English: Excellent fluency in its four skills, IELTS, 2017 (Overall: 6), TOEFL ITP, 2014 and Language of Instruction in BSc, MSc, and PhD Programs.
- Arabic: The Mother Tongue

PROFESSIONAL MEMBERSHIPS

- Egyptian Syndicate of Pharmacists.

INTERESTS

- Reading, Swimming, Drawing and Surfing the Internet.

COMMUNITY SERVICES

- Participation in medical convoys.
- Effective collaboration with Khair Domiat, a local charity organization, in its different activities like distributing food among the needy, pandemic support programs, supporting patients, and visiting and supporting children's shelters.
- Participation in the “Say no to drugs” campaign as students’ activity at Horus University.

REFERENCES

Available Upon Request