





Rania Mohamed Ahmed Kamal

Manial El-Roudah, Cairo, Egypt

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Education:

Faculty of Pharmacy Cairo University PhD "Pharmaceutical Sciences (Pharmacognosy)" Title: A Pharmacognostical Study of <i>Cupressus arizonica</i> Greene, <i>Cupressus lusitanica</i> Mill. and <i>Pinus canariensis</i> C.Sm. Cultivated in Egypt	4/2024
<p><u>Summary of thesis:</u> Chemical composition, phytochemistry, and pharmacological evaluation of three coniferous plants cultivated in Egypt. The research involved:</p> <ul style="list-style-type: none">• Literature review of phytochemicals and biological activities.• GC-MS analysis of essential oils and in-vivo evaluation using an IMQ-induced psoriasis model.• In-vitro assessment for cholinesterase inhibition and antioxidant activity.• Bioassay-guided fractionation against <i>Acinetobacter baumannii</i> lipolytic activity, with LC-QTOF-MS/MS metabolomic profiling and multivariate analysis.	
Faculty of Pharmacy Cairo University Master's degree "Pharmaceutical Sciences (Pharmacognosy)" Title: A Pharmacognostical Study of <i>Aloe thraskii</i> Baker Cultivated in Egypt"	11/2019
<p><u>Summary of thesis:</u> Phytochemical and biological investigations of <i>Aloe thraskii</i> Baker. The research involved:</p>	

<ul style="list-style-type: none"> • Conduction of genetic profiling, phytochemical screening, proximate analysis, and LC/MS metabolite profiling of <i>Aloe thraskii Baker</i>. • Isolation of major constituents: β-sitosterol derivatives, orientin, and isoorientin. • Reporting of flavonoid glycosides in this species for the first time. • Demonstrating potent in-vitro cytotoxic, anti-inflammatory, and antioxidant activities. • Demonstrating significant in-vivo anti-rheumatic, hepatoprotective, and antioxidant effects. • Correlation of biological activities with phenolic content through chemical investigation. 	
Faculty of Pharmacy Cairo University Pre-Master's "Pharmaceutical Sciences (Pharmacognosy)" GBA (3.47)	2016
Faculty of Pharmacy Cairo University Bachelor's degree "Pharmaceutical Sciences" Excellent with honor (ranked 14)	2014
Gehan Al-Sadat Secondary School, Cairo Thanawia Amma (Egyptian Secondary Certificate) 98%	2009

Work Experiences:

Faculty of Pharmacy, Cairo University Coordinator of the Occupational Health and Safety Committee of Pharmacognosy Department	2/2025-Present
Faculty of Pharmacy, Cairo University Coordinator of Quality System of Pharmacognosy Department	9/2024-Present
Faculty of Pharmacy, Cairo University Lecturer Pharmacognosy department	7/2024-Present
Faculty of Pharmacy, Cairo University Academic Advisor for students (class 2023-2027)	1/2024-Present
Faculty of Pharmacy, Heliopolis University- part-time Lecturer Pharmacognosy department	2/2025-5/2025
Faculty of Pharmacy, Cairo University Teaching Assistant Pharmacognosy department	2/2020-7/2024
Faculty of Pharmacy, Cairo University Coordinator assistant at Performance Appraisal and Quality Assurance Unit	2017-2018

Faculty of Pharmacy, Cairo University Demonstrator Pharmacognosy department	11/2015-2/2020
Salem Pharmacies, Manial El-Roudah branch, Cairo Community Pharmacist	3/2015-12/2015
New Pharmacy, Maadi branch, Cairo Community Pharmacist	11/2014-2/2015

Teaching experience:

Undergraduate courses (General Program and PharmD) [Faculty of Pharmacy, Cairo University]:

- Theoretical course of Botany and Medicinal Plants for first-year students
- Theoretical course of Aromatherapy and phytotherapy for fifth-year students
- Practical courses of Botany and Medicinal Plants for first-year students
- Practical courses of Pharmacognosy I for first-year students
- Practical course of Pharmacognosy II for second-year students
- Practical courses of Phytotherapy and aromatherapy for fourth-year students
- Practical courses of Natural Products and Quality Control for fifth-year students

Undergraduate courses (General Program and PharmD) [Faculty of Pharmacy, Heliopolis University]:

- Theoretical course of Pharmacognosy I for first-year students

Undergraduate courses (Clinical Program) [Faculty of Pharmacy, Cairo University]:

- Theoretical course of Botany and Medicinal Plants for first-year students
- Practical courses of Botany and Medicinal Plants for first-year students
- Practical courses of Pharmacognosy I for first-year students
- Practical courses of Phytotherapy and aromatherapy for fifth-year students

Postgraduate courses:

Diploma of Different chromatographic techniques used in qualitative and quantitative studies of phytoconstituents

Publications:

Mohsen, E., El Fishawy, A.M., Salama, A., Elgohary, R., Refaat, A., Elgamal, A.M., Younis, I.Y., **Kamal, R.M.** (2025). Unveiling the gastroprotective effect of the ethyl acetate fraction of *Cordia africana* Lam. roots against ethanol-induced gastric ulcer and *Helicobacter pylori*. *Journal of Ethnopharmacology*, 348, 119841. <https://doi.org/10.1016/j.jep.2025.119841>.

Kamal, R. M., Sabry, M. M., Younis, I. Y., El-Halawany, A. M., & Hifnawy, M. S. (2024). The in vitro evaluation of cholinesterase inhibition and the antioxidant effect of *Cupressus arizonica*

Greene, *Cupressus lusitanica* Mill. and *Pinus canariensis* C. Sm. aerial parts. *Tropical Journal of Natural Product Research*, 8(2), 6192-6196.

Kamal, R. M., Sabry, M. M., El-Halawany, A. M., Rabie, M. A., El Sayed, N. S., Hifnawy, M. S., & Younis, I. Y. (2024). GC-MS analysis and the effect of topical application of essential oils of *Pinus canariensis* C. Sm., *Cupressus lusitanica* Mill. and *Cupressus arizonica* Greene aerial parts in Imiquimod–Induced Psoriasis in Mice. *Journal of Ethnopharmacology*, 318, 116947.

Kamal, R. M., & Sabry, M. M. (2024). Egyptian Coniferous Plants: *Pinus canariensis*, *Cupressus lusitanica*, and *Cupressus arizonica*: Phytochemical Review, Biological Potentials, and Future Prospects. *Egyptian Journal of Chemistry*, 67(1), 541-561.

Kamal, R. M., Sabry, M. M., Aly, Z. Y., & Hifnawy, M. S. (2021). Phytochemical and In-Vivo Anti-Arthritic Significance of *Aloe thraskii* Baker in Combined Therapy with Methotrexate in Adjuvant-Induced Arthritis in Rats. *Molecules*, 26(12), 3660.

Conference attendance and presentations:

- Attended 17th Breast Gynecological & Immunooncology International Cancer Conference BGICC 1/2025
- A poster presentation entitled "Pharmacognostical study of *Aloe thraskii* Baker Cultivated in Egypt" during 5th FUE International Conference of Pharmaceutical Sciences at Royal Maxim Palace Kempinski, First Settlement, Cairo, Egypt, 1/2019.

Training Experiences:

- Training in Ali and Ali Pharmacies, Kasr-Elaini branch, Cairo (Summer 2013).
- Training at "Seif Group" pharmacies branch " El Manial " (7,8/2013.)
- Training visit in VACSERA Laboratories, (8/2013).
- Training visit at "EPICO" company under the regulation of Students Union in FOPCU, (9/2012).

Training Courses and Workshops:

- Completed the training period for the "Digital Egypt Pioneers Initiative" Depi, organized by the Ministry of Communications and Information Technology. (Data analysis track) 11/2024-5/2025

- Attended an online FOPCU 12th International Scientific Conference's workshop about "Mastering AI for Professionals: From Prompt Engineering to Practical Applications"
5/2025
- Attended a workshop about "Technology talk: Using AI to communicate with your research article"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
12/2024
- Attended a workshop about "The Magic of Creating Videos By AI tools"
(www.edu-online.me)
12/2024
- Attended a webinar about "Top Demo common Mistakes by Dr. Heba Othman"
12/2024
- Attended a workshop about "The role of Network Pharmacology in advancing drug discovery, Hands-on Training"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
11/2024
- Attended a workshop about How to use Microsoft ClassPoint in Education
(www.classpoint.io)
11/2024
- Completed the ALX AICE program (8-week), AI career essentials through ALX Africa
11/2024
- Attended level one of "Creative teacher Diploma" for developing creative teaching skills
(Egyptian Syndicate, Neqabty, EduCareers and Kaif)
10/2024
- Attended a webinar about "Writing proposals for funding research: applying for grants, seeking industrial collaboration"
(Drug Manufacture Unit)
5/2024
- Attended a webinar about "Metabolomics: a Bridge between Chemistry and Biology in Drug Discovery and Development"
(Natural Products Research and Innovation Centre (NaPRic))
4/2024
- Attended a workshop about "Harnessing the Power of Artificial Intelligence in health care: Optimizing NLP and Generative AI Pipelines from Pre-training to Fine-tuning"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
3/2024
- Attended different courses
(Faculty and Leadership Development Center at Cairo University "FLDC")

2015-2025

- Anti-Corruption methods
- Exams and student evaluation systems
- International Publishing of Scientific Research
- Critical Thinking
- Essentials of integrated education
- The credit hour systems
- University code of ethics
- Use of technology in teaching
- Legal and financial aspects in the University environment
- Total quality management of Health care
- Interactive electronic courses

- Attended JoVE webinar: Bringing Text to Life
(Performance Appraisal and Quality Assurance Unit at FOPCU)
10/2021
- Attended a workshop about "Mendeley: citation manager"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
2/2020
- Attended a workshop about Statistics: Introduction to Graphpad prism
(Performance Appraisal and Quality Assurance Unit at FOPCU)
12/2019
- Attended a workshop about "Fundamentals of Photoshop: Towards Designing a Graphical Abstract"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
11/2019
- Attended a workshop about "Analysis of NMR spectra using Mestrenova software"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
3/2018
- Attended a workshop about "Microsoft Word in Thesis Writing"
(Performance Appraisal and Quality Assurance Unit at FOPCU)
2/2017
- Completed an English conversation course (two levels for two months) British Council
branch "El Agouza"
10,11/ 2014
- Attended SOF "Science Of The Future " conference about “Biological Weapons, gene
therapy, music therapy, drug design”
FOPCU
4/2014

- Attended “OTC as it should be level 2” Course with Dr Ahmed-Elgwely
Cairo
8/2013
- Attended “Biotechnology, Science, Career and Business Conference”
FOPCU
7/2012
- Attended sessions of "FOPCU Career Center" about Clinical and community pharmacy
FOPCU
11/2012
- Attended a workshop about “Achieve Communication and soft skills”
FOPCU
10/2012
- Attended a workshop about “Rush 3: Communication and soft skills”
FOPCU
10,11/2012
- Participated in a project team for drug profile "tri hexy phenidyl" in the third year under the supervision of Prof. Dr. Azza Agha "Dean of Faculty of Pharmacy Cairo university"
FOPCU
2012

Social works:

Helped in organizing medicines for medical convoys, and clothes for aid convoys, and helped the blind by writing books using Microsoft Word to prepare them for printing in Braille (Resala Charity Organization), Egypt.

Skills:

Computer skills:

- Fundamentals of Digital Transformation Certificate (FDTC), 2022
- ICDL Certified, 2009.
- Good Knowledge of Win XP, Word, PowerPoint, and Excel.
- Search engines and the Internet.

Other skills:

- Data analysis
- Time management
- Problem solving
- Data analysis
- Teamwork

-Critical thinking

Languages:

Arabic: mother tongue

English: Intermediate to upper intermediate

-“TOEFL” certified from The Center for Foreign Languages and Professional Translation with a score of 553 marks.

-The EF Standard English Test (EF SET) with a score of 56/100 (B2 level, upper intermediate).