



REHAB FIKRY

Associate professor

CONTACT

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INTERESTS

Natural Products Chemistry
Advanced Spectroscopic Techniques
for Organic Structures Identification.
Phytochemistry and pharmacognosy

LANGUAGES

English: Excellent (reading, writing, and verbal).
Arabic: Native Language

SKILLS

Research
• Separation and purification of organic compounds using chromatographic techniques.

EDUCATION

Doctor of Philosophy in Pharmaceutical Science,
Pharmacognosy Department
Faculty of Pharmacy/ Cairo University

Titled

"Chemical constituents and Pharmacological activities of certain *Cassia* species Family Fabaceae"

2015

Master Degree in Pharmaceutical Sciences,
Pharmacognosy Department
Faculty of Pharmacy/ Cairo University.

Titled

Phytochemical & Biological Investigation of *Cassia bicapsularis* L. Family (Leguminosae) growing in Egypt"

2007

Bachelor of Pharmacy
Faculty of Pharmacy/ Cairo University
Accumulative Degree: Very Good (Honour)
2002

WORK EXPERIENCE

2024 - Current

Associate professor-Pharmacognosy Department-ECU

2021 - 2024

Associate professor-Chemistry of Natural Products Department-National Research Centre

2020-2024

Part time Pharmacognosy Lecturer at faculty of pharmacy, Egyptian Chinese University

2019- 2020

Part time Pharmacognosy Lecturer at faculty of pharmacy, Heliopolis University for sustained development.

2018-2019

Part time Pharmacognosy Lecturer at faculty of pharmacy, Heliopolis University for sustained development, for the second semester.

2018-2019:

Part time Pharmacognosy Lecturer and practical supervision at faculty of pharmacy, Al-Ahram Canadian University.

- Identification of organic compounds using advanced NMR techniques (COSY, NOESY, HMBC, HMQC). Computer
- ICDL license
- Software Applications (ChemBioDraw).

REFERENCES

- Prof. Dr. Ezz Eldin ElKhrisy,
Researcher Professor
National Research Centre,
Chemistry of Natural product
Department, Pharmaceutical and
Drug Industries Research Division,
El-Tahrir Street, Dokki, Giza, Egypt,
P.O. Box: 12622. E-mail:
ezzelkhrisy@yahoo.com
- Prof. Mahmoud Ibrahim Nassar,
Researcher Professor
National Research Centre,
Chemistry of Natural product
Department, Pharmaceutical and
Drug Industries Research Division,
El-Tahrir Street, Dokki, Giza, Egypt,
P.O. Box: 12622. E-mail:
mnassar_eg@yahoo.com
- Prof. Dr. Seham Elhawary.
Professor of Pharmacognosy
Pharmacognosy Department
Faculty of Pharmacy, Cairo
University El-Kaser El-Anii Street,
Cairo, Egypt. E-mail:
seham.elhawary@yahoo.com

Since Dec. 2015

Researcher at National Research Center- Department of Natural Compounds Chemistry, Pharmaceutical and Drug Industries Research Division.

Since Dec. 2007

Assistant Researcher at National Research Center- Department of Natural Compounds Chemistry.

Since September 2003

Researcher Assistant at National Research Center- Department of Pharmacognosy.

Since May 2003

Pharmacist at National Research Center- Department of Pharmacognosy

Since May 2002

Pharmacist at The Chemical Industries Development Company (CID), In Quality Control Department.

PUBLICATIONS

2007

Volatile Constituents of *Cassia bicapsularis*. Journal of Essential Oil Bearing Plants 2007; 10 (4): 278-281. Ataa Said, Mohamed Aboulfotouh, Mohamed Sobhi, Rehab Fikry & Olga Tzakou.

2015

Phenolic Metabolites and some Pharmacological Activities of *Cassia renigera* Benth. Current Science International 2015; 4 (1): 164-171. Rehab F. Taher, Mahmoud I. Nassar, Sayed A. El-Toumy, Seham A. El-Hawary, Samia Abdel-Wahab, Rania F. Ahmed and Ezzel-Din A. El-Khrisy.

2018

Essential Oils Constituents of Aerial Parts of *Cyperus capitatus* L. and *Cyperus difformis* L. Grown Wild in Egypt. Journal of essential oil-bearing plants JEOP 2018; 20 (6): 1659 –1665. Abd El-Nasser G. El Gendy, Ahmed M. Abd El-Gawad, Rehab F. Taher, Ezz El-Din A.M. El-Khrisy, Elsayed A. Omer & Abdelsamed I. Elshamy.

2019

***Cakile maritima* Scop. Extracts Inhibit CaCo2 and HeLa Human Carcinoma Cell Growth: GC-MS Analysis of an Anti-Proliferative Extract. Pharmacogn J. 2019; 11(2):258-266. Elsayed Omer, Abdelsamed Elshamy, Rihab Taher, Walaa El-Kashak, Joseph Shalom, Alan White, Ian Cock.**

2019

Role of ashwagandha methanolic extract in the regulation of thyroid profile in hypothyroidism modeled rats. *Molecular Biology Reports Mol Biol Rep* 2019; 46(4):3637-3649. Khaled G. Abdel-Wahhab, Hagar H. Mourad, Fathia A. Mannaa, Fatma A. Morsy, Laila K. Hassan, Rehab F. Taher.

2019

Selective Regulation of B-Raf Dependent K-Ras/Mitogen-Activated Protein by Natural Occurring Multi-kinase Inhibitors in Cancer Cells. *Frontiers in oncology* 2019; 9: 1220. Ahmed I. Abd El Maksoud, Rehab F. Taher, Ahmed H. Gaara, Eman Abdelrazik, Omar S. Keshk, Khaled A. Elawdan, Salwa E. Morsy, Ahmed Salah and Hany Khalil

2020

Artichoke Phenolics Confer Protection Against Acute Kidney Injury. *Revista Brasileira de Farmacognosia* 2020; 30: 34–42. Abdelsamed I. ElshamyHeba M. I. AbdallahAbdel Razik H. FarragYlenia RiciputiFederica PasiniRehab F. TaherMona A. RaslanPaul W. ParéEmail authorMohamed-Elamir F. Hegazy

2020

UPLC-qTOF-MS Phytochemical Profile and Antiulcer Potential of *Cyperus conglomeratus* Rottb. Alcoholic Extract. *Molecules* 2020, 25, 4234. Abdelsamed I. Elshamy, Abdel Razik H. Farrag, Iriny M. Ayoub, Karam A. Mahdy, Rehab F. Taher, Abd El-Nasser G. El Gendy, Tarik A. Mohamed, Salim S. Al-Rejaie, Yasser A. El-Amier, Ahmed M. Abd-ElGawad and Mohamed A. Farag

2021

HPLC–ESI/MS profiling, phytoconstituent isolation and evaluation of renal function, oxidative stress and inflammation in gentamicin-induced nephrotoxicity in rats of *Ficus spragueana* Mildbr. & Burret. *Biomedical Chromatography* 2021;e5135. [wileyonlinelibrary.com/journal/bmc](https://doi.org/10.1002/bmc.5135) <https://doi.org/10.1002/bmc.5135>. Rehab F. Taher, Mona A. Raslan, Marwa A. Masoud, Mahmoud I. Nassar, Mona E. Aboutabl.

2021

Influence of *Melissa officinalis* methanolic extract on hyperthyroidism in a rat model. *Egyptian Pharmaceutical Journal* [Downloaded free from <http://www.epj.eg.net> on Wednesday, June 16, 2021, IP: 156.214.183.224]. Fathia A. Mannaa, Khaled G. Abdel-Wahhab, Laila K. Hassanb, Rehab F. Taherc, Fatma A. Morsy, Nevein N. Fadl.

2021

Metabolomic profiling of *Sansevieria trifasciata* hort ex. Prain leaves and roots by HPLC-PAD-ESI/MS and its hepatoprotective effect via activation of the NRF2/ARE signaling pathway in an experimentally induced liver

fibrosis rat model. Mona A. Raslan, Rehab F. Abdel-Rahman, Hany M. Fayed, Hanan A. Ogaly, Rehab F. Taher.

2021

Two new flavonoids and anticancer activity of *Hymenosporum flavum*: invitro and molecular docking studies. Journal of Herbal Medicine Pharmacology. Rehab F. Taher, Ahmed A. Al-Karmalawy, Ahmed I. Abd El Maksoud, Hany Khalil, Amr Hassan, Ezzel-Din A. El-Khrisy, Walaa A. El-Kashak.

2021

Cordyline fruticosa (L.) A. Chev. leaves: isolation, HPLC/MS profiling and evaluation of nephroprotective and hepatoprotective activities supported by molecular docking. New Journal of Chemistry. Mona A. Raslan, Rehab F. Taher, Ahmed A. Al-Karmalawy, Dalia El-Ebeedy, Angham G. Metwaly, Nourhan M. Elkateeb, Aml Ghanem, Reem A. Elghaish, Ahmed I. Abd El Maksoud.

2023

Metabolites Profiling and Bioassays Reveal *Bassia indica* Ethanol Extract Protective Effect against Stomach Ulcers Development via HMGB1/TLR-4/NF- κ B Pathway. Antioxidants. Zeinab A. El-Gendy, Rehab F. Taher, Abdelbaset M. Elgamal, Ahmed Serag, Azza Hassan, Gehad A. Abdel-Jaleel, Mohamed A. Farag, Abdelsamed I. Elshamy

2023

Symbiotic Antidiabetic Effect of *Lactobacillus casei* and the Bioactive Extract of *Cleome droserifolia* (Forssk.) Del. On Mice with Type 2 Diabetes Induced by Alloxan. Chemistry & Biodiversity. Ahmed I. Abd El Maksoud, Ahmed A. Al-Karmalawy, Dalia El-Ebeedy, Aml Ghanem, Yasmin Rasheed, Ibrahim A. Ibrahim, Reem A. Elghaish, Amany Belal, Mona A. Raslan, Rehab F. Taher

2024

Chemical components and antioxidant potential of essential oil of *Rhanterium epapposum* growing in sandy habitat in Saudi Arabia: In silico study on cytochrome P450 1A1 and xanthine oxidase. Journal of Essential Oil Bearing Plant. Ahmed M. Abd-ElGawad, Rehab F. Taher, Ahmed F. Essa, Souid Aymen, Samah A. El-Newary, Tushar C. Sarker, Abd El-Nasser G. El Gendy, Abdulaziz M. Assaeed, Basharat A. Dar & Abdelsamed I. Elshamy

2024

Protective effects of *Euphorbia heterophylla* against testicular degeneration in streptozotocin-induced diabetic rats in relation to phytochemical profile. PLOS ONE. Ahmed M. Nagy, Heba A. Fahmy, Mohamed M. Amin, Mohamed F. Abdel-Hameed, Rehab F. Taher, Alaa M. Ali, Sherif M. Afifi, Tuba Esatbeyoglu, Mohamed A. Farag,

Abdelsamed I. Elshamy.

2024

In vivo anti-ulceration effect of *Pancreatium maritimum* extract against ethanol-induced rats via NLRP3 inflammasome and HMGB1/TLR4/MYD88/NF- κ B signaling pathways and its extract metabolite profile. Plos One. Rehab F. Taher, Eman M. Abd El ghany, Zeinab A. El-Gendy, Mai M. Elghonemy, Heba A. Hassan, Gehad A. Abdel Jaleel, Azza Hassan⁵, Tushar C. Sarker, Ahmed M. Abd-ElGawad, Mohamed A. Farag, Abdelsamed I. Elshamy.

2024

Moringa stenopetala leaf extract improves the efficacy of doxorubicin in the breast cancer therapy by suppressing the expression of MDR-1, Raf-1, and Top-II. Natural Product Research. Mahmoud A. Al-Saman, Rehab F. Taher, Osama M. Abonama, Ibrahim A. Ibrahim, Ahmed G. Soliman, Hafsa Nour El-Din Abd El-Kader Ebrahim, Nada Elguindy & Ahmed I. Abd El Maksoud.

2025

Undescribed diterpenes from *Euphorbia mauritanica* L. as modulators of the breast cancer resistance: Mechanistic and in silico studies. Phytochemistry. Ahmed F. Essa, Mai M. Elghonemy, Rehab F. Taher, Rasha M. Allam Abdelsamed I. Elshamy.

2025

Flavonoid-rich *Deverra tortuosa* extract mitigates ethanol-induced gastritis via modulation of cytokine networks, oxidative pathways, and mucosal immunotoxicity. Tissue and Cell. Mohamed F. Abdelhameed, Rehab F. Abdel-Rahman, Mosab Gad, Heba A.S. El-Nashar, Asmaa S. Abd Elkarim, Abdelsamed I. Elshamy.

2025

Investigating the antimicrobial and antiviral activities of *Astragalus spinosus* (Forssk.) Muschl.: biological assessments and in silico studies. Journal of Biomolecular Structure and Dynamics. Ahmed A. Al-Karmalawy, Yasser A. El-Amier, Shaza M. Elhousseiny, Haidy A. Abbas, Radwan Alnajjar, Mohamed M. Khalifa, Faten Farouk, Abdulrahim A. Alzain & Rehab F. Taher.

2025

Hepatoprotective action of *Sonchus oleraceus* against paracetamol-induced toxicity via Nrf2/ KEAP-1/HO-1 pathway in relation to its metabolite fingerprint and in silico studies. Plos One. Mohamed F. Abdelhameed, Marawan A. El-Baset, Amira R. Khattab, Rehab F. Taher,

Mohamed A. El-Saied⁵, Asmaa S. Abd Elkarim⁶, Ahmed F. Essa⁴, Ahmed A. El-Rashedy, Mohamed A. Farag, Hiroshi Imagawa¹¹, Abdelsamed I. Elshamy, Ahmed M. Abd-ElGawad.

2025

Chemical profile of *Ficus lyrata* bark extract and its therapeutic effect on non-alcoholic fatty liver disease via regulating oxidative stress, inflammation and hepatic lipogenesis. Chemical profile of *Ficus lyrata* bark extract and its therapeutic effect on non-alcoholic fatty liver disease via regulating oxidative stress, inflammation and hepatic lipogenesis. BMC Complementary, Medicine and Therapies. Amria Mamdouh Mousa, Rehab Fikry Taher, Nermin Mohamed El-Sammad, Esraa Aly Balabel, Elham Mohamed Youssef, Ahmed Hassan Afifi, Sahar Samir Abdel-Rahman, Nayera Anwar and Sherien Kamal Hassan.

2025

The Molecular Mechanisms Underlying the Antineoplastic Profile of Vitexin 2''-O- α -L Rhamnopyranoside From *Cordyline australis* (G.Frost.): Isolation and Constituent Profiling. Archiv der Pharmazie. Mona A. Raslan, Marwa M. Mounier, Rehab F. Taher.

CONFERENCES AND POSTERS:

- Attendance of the 6th International conference of pharmaceutical and drug industries research division with poster presentation
- Poster: HPLC/MS/MS identification of polyphenolic constituents of two *Cassia* species.
- Attendance of a workshop on 'clinical skills' from Nursing Training & continuing Education Center
- Attendance of a training course in G.M.P & Management of commodity inventory control from Drug Holding Company training center.
- Attendance of a workshop on Oncology by Scita in the National Toxicity Centre.
- Attendance of a workshop on Recent trends in natural product and medicinal plants research, National Research Center.
- Attendance of a workshop on Advances & challenges in pharmacognosy researches: A look to future, National research center.
- Contribution as an organizer in the 1st NRC-Grenoble INP international conference on science and sustainable development.
- Attendance of a workshop on Towards supporting the role of woman in science in developing countries.

-A member in the organization for women in science for the developing world.

-Attendance of a workshop in spectroscopic techniques for natural products analysis at Heliopolis university organized by NAPRECA.

-Contribution as speaker to the college of Biotechnology annual scientific conference 'Biotechnology as one of the emerging technologies'

-Attendance of a symposium of 'Importance of natural compounds as potential drug precursors'

-Attendance of 12th International Scientific Conference of Faculty of Pharmacy, Cairo University "Innovations in Pharmacy Profession and Advancing Research" and poster presentation

-Attendance of 9th Arab International Pharmacy Conference AIPC2025

PROJECTS:

- **Member in project: Hepatoprotective components from plants and soft coral (2016-2019)**
- **Member in project: Ameliorative Effects of Lagerstroemia tomentosa and Ficus lyrata Extracts and their Nano Crystalline Cellulose on Obesity-Related Nonalcoholic Fatty Liver Disease Induced by High Fat Diet in Rats. (2020-2022)**

PI in project: Hepatoprotective activity of certain Sansevieria species cultivated in Egypt (2019-2022)

- **Co-PI in project: Family Crassulaceae as potential anti-inflammatory agents (2022-2024)**
 - **Member in project: Assessment of the gastroprotective effects of Sedum reflexum aerial part extract and its nano-formulation against ethanol induced gastric ulcer in rats (2022-2024)**
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