



Islam Ramadan Refai Sweify

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ABOUT ME

I'm working as assistant lecturer at the Medicinal Chemistry Department, Faculty of Pharmacy, Assiut University. I'm interested in the design and synthesis of organic compounds with potential biological activities. Mostly antimicrobial and anticancer agents and molecular modeling.

EDUCATION AND TRAINING

B. Pharm. Sci., Assiut University, July 2020

Faculty of Pharmacy

City: assiut | Country: Egypt

M.Sc. Pharm. Chem., Assiut University, July 2026

Faculty of Pharmacy

City: assiut | Country: Egypt

WORK EXPERIENCE

Medicinal Chemistry Department-Faculty of Pharmacy-Assiut University – assiut, Egypt

Assistant lecturer

[22/07/2026 – Current]

RESEARCH INTERESTS

Research interests

- Design and synthesis of organic compounds of potential biological activities.
- Chemical and biochemical modifications of lead compounds to maximize biological activity and reduce toxicity.
- Design, synthesis, and investigation of heterocyclic compounds with diverse biological effects. Mostly anticancer and antimicrobial agents.
- Molecular modeling and computer-aided drug design.
- Correlating the chemical descriptors & physicochemical parameters with biological activities quantitatively (QSAR studies).

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s): English

SKILLS

scientific skills

Use and interpret NMR, IR, MS, and other Spectrophotometric data. / Use different chromatographic techniques (TLC, CC) in synthesis and purification of compounds / Use UV-VIS spectrophotometer (single and double beam) in investigation of drug-metal chelation / Use Molecular Operating environment (MOE) software for Computer-Aided drug design / Use windows processor with different chemistry programs as CS ChemOffice

GRANTS

STDF

M.Sc. Research Grant – STDF Postgraduate Support Grant (Call 3)

Science, Technology & Innovation Funding Authority (STDF), Egypt

Project ID: 50880

Awarded a competitive research grant to support my Master's research project in Medicinal Chemistry.

PUBLICATIONS

[2026]

Crystal structure and computational study of a multifunctional 3-Spiro-2-oxindole derivative: Ethyl 4-[2-(2'-oxospiro[1,3-dioxolane-2,3'-indol]-1'(2'H)-yl)acetamido]benzoate

Journal Name: Journal of Molecular Structure | Publisher: Elsevier

[2026]

Ligand-based design and synthesis of novel 3-spiro-2-oxindoline derivatives as potent VEGFR-2 inhibitors with antiproliferative activity and cell cycle arrest

Journal Name: Bioorganic Chemistry | Publisher: Elsevier