



Fatma Alzahraa Mohamed

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ABOUT MYSELF

I am currently working as an Assistant Lecturer in the Department of Medicinal Chemistry, Faculty of Pharmacy, Assiut University. My research interests focus on the design and synthesis of organic compounds with potential biological activities. In particular, I am involved in the development of anticancer, antitubercular, and antimicrobial agents, as well as molecular modeling and computer-aided drug design (CADD).

EDUCATION & TRAINING

- **B. Pharm. Sci., Assiut University, June 2020**
- **M.Sc. Pharm. Chem. (Assiut University; under the following title "Design, Synthesis, and Computational Validation of Novel Benzothiazole Derivatives as Anticancer Agents Targeting VEGFR-2")**

WORK EXPERIENCE

- **Medicinal Chemistry Department-Faculty of Pharmacy-Assiut University**

Assistant lecturer

Research interests

- Design and synthesis of organic compounds with potential biological activities.
- Chemical and biochemical modification of lead compounds to optimize biological activity and minimize toxicity.
- Design, synthesis, and biological evaluation of heterocyclic compounds with diverse pharmacological properties, particularly anticancer, antitubercular, and antimicrobial agents.
- Molecular modeling and computer-aided drug design (CADD), including the application of Molecular Operating Environment (MOE) software.
- Quantitative structure-activity relationship (QSAR) studies and the correlation of chemical descriptors and physicochemical parameters with biological activities.

LANGUAGE SKILLS

MOTHER TONGUE(S): Arabic

OTHER LANGUAGE(S): English

SKILLS

- **scientific skills**

Technical Skills

- Interpretation of NMR, IR, MS, and other spectroscopic data.
- Application of chromatographic techniques (TLC and column chromatography) for the synthesis and purification of organic compounds.
- Operation of single- and double-beam UV-Vis spectrophotometers for drug-metal chelation studies.
- Molecular modeling and computer-aided drug design (CADD) using Molecular Operating Environment (MOE) software.
- Proficiency in ChemOffice/ChemDraw and other chemistry-related software packages.