CURRICULUM VITAE

PERSONAL DATA

Name	Amal Ali AL-Mutairi
Nationality	Saudi
Position	Riyadh, Saudi Arabia
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EDUCATION

Year	Academic Degree	Institution
2003	Bachelor of Science in Chemistry - College of Science	King Saud University
2010	Master of Science in Chemistry - College of Science - Department of Chemistry	King Saud University
2019	PhD in Chemistry - College of Science - Department of Chemistry	King Saud University

WORK EXPERIENCE

Period	Position	Address
2011	Teaching Assistant	Imam Mohammad Ibn Saud Islamic University
2012-2019	lecturer of organic Chemistry	Imam Mohammad Ibn Saud Islamic University
2020	Assistant Professor of organic Chemistry	Imam Mohammad Ibn Saud Islamic University

RESEARCH INTERESTS

- Preparations of organic compounds with medical applications
- Preparation of friendly organic compounds

PUBLICATIONS

1 - Ultrasonic assisted synthesis of some new heterocycles based on pyrazolone moiety, Journal of Saudi Chemical Society (2010): 287-299.

2 - Syntheses and crystal structures of two adamantyl substituted 1,2,4-triazole-5- thione N-Mannich bases. Acta Crystallog. E, Crystallogr. Commun. 2017, E73, 1135-1139.

3 - Synthesis, Antimicrobial, and Anti-Proliferative Activities of Novel 4-(Adamantan-1-yl)-1-arylidene-3- thiosemicarbazides, 4-Arylmethyl N -(Adamantan-1-yl) piperidine-1- carbothioimidates, and Related Derivatives. Molecules. 2019, 24, 4308

4- Synthesis and Structure Insights of Two Novel Broad-Spectrum Antibacterial Candidates Based on (E)-N'-[(Heteroaryl)methylene]adamantane-1-carbohydrazides. Molecules. 2020, 25, 1934

5- Crystal structure of 1-(adamantan-1-yl)-3- aminothiourea, C11H19N3S, Zeitschrift für Kristallographie-New Crystal Structures , 2020,235 (5), 1115-1117.

6- Interplay of weak intermolecular interactions in two Schiff's bases with organic fluorine derived from 5-nitrothiophene-2-carboxaldehyde: Crystal structures, DFT calculation and in vitro evaluation of bioactivities. Journal of Molecular Structure,2020, 1221,128883

7- Quantitative analysis of hydrogen and chalcogen bonds in two pyrimidine-5-carbonitrile derivatives, potential DHFR inhibitors: an integrated crystallographic and theoretical study, RSC Adv., 2020, 10, 36806

8- Crystallographic and Theoretical Exploration of Weak Hydrogen Bonds in Arylmethyl N′-(adamantan-1-yl)piperidine-1-carbothioimidates and Molecular Docking Analysis, ACS Omega 2021, 6, 41, 27026–27037.

9-Reactivity properties and adsorption behavior of a triazole derivative – DFT and MD simulation studies, Journal of Molecular Liquids, 2021, 341,117439.

10- Investigation of the electronic properties of solvents (water, benzene, methanol) using IEFPCM model, spectroscopic investigation with docking and MD simulations of a thiadiazole derivative with anti-tumor activities, Journal of Molecular Liquids, 2022, 438,118061.

11- QSAR Evaluations to Unravel the Structural Features in Lysine-Specific Histone Demethylase 1A Inhibitors for Novel Anticancer Lead Development Supported by Molecular Docking, MD Simulation and MMGBSA, Molecules, 2022, 27, 4758.

12- Synthesis and Antimicrobial, Anticancer and Anti-Oxidant Activities of Novel 2,3-Dihydropyrido[2,3-d]pyrimidine-4-one and Pyrrolo[2,1-b][1,3]benzothiazole Derivatives via Microwave-Assisted Synthesis, Molecules 2022, 27, 1246.

13- QSAR, Molecular Docking, MD Simulation and MMGBSA Calculations Approaches to Recognize Concealed Pharmacophoric Features Requisite for the Optimization of ALK Tyrosine Kinase Inhibitors as Anticancer Leads, Molecules 2022, 27, 4951.

14 - Mechanistic Analysis of Chemically Diverse Bromodomain-4 Inhibitors Using Balanced QSAR Analysis and Supported by X-ray Resolved Crystal Structures, Pharmaceuticals 2022, 15, 745.

15- Spectroscopic, Docking and MD Simulation Analysis of an Adamantane Derivative with Solvation Effects in Different Solvents, Polycyclic Aromatic Compounds, 2022, 1-13

16- Spectroscopic, electronic structure, molecular docking, and molecular dynamics simulation study of 7-Trifluoromethyl-1H-indole-2-carboxylic acid as an aromatase inhibitor, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 280 (2022) 121530

17- Isolation Cellulose Nanofibers from Date-Palm Tree Leaflets (Phoenix dactylifera L.) by Ball-Milling Technique, Journal of Applied Sciences, Journal of Applied Sciences, 22, 2022, 241-247

18. Green electro-organic synthesis of a novel catechol derivative based on o-benzoquinone nucleophilic addition. New Journal of Chemistry, 47(1), 2023, 131-139.

19. Green Chemistry in Organic Synthesis: Recent Update on Green Catalytic Approaches in Synthesis of 1, 2, 4-Thiadiazoles. Catalysts, 12(11), 2022, 1329.

20. Pharmacophore Synergism in Diverse Scaffold Clinches in Aurora Kinase B. International Journal of Molecular Sciences, 23(23), (2022), 14527.

21. Design, Synthesis and Pharmacological Evaluation of 2-(3-Benzoyl-4-Hydroxy-1, 1-Dioxido-2H-Benzo [e][1, 2] thiazin-2-yl)-N-(2-Bromophenyl) Acetamide as Antidiabetic Agent. Drug Design, Development and Therapy, 2022, 4043-4060.