Curriculum vitae

PERSONAL INFORMATION:

Yasser Mohamed Omar Mohamed

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QUALIFICATIONS:

May 2024	**PhD student in Chemistry and Forensic Sciences.** University of Bradford, UK Synthesis and biological evaluation of novel glycomimetics
Feb. 2018	**Master's degree in Pharmaceutical Sciences (Organic Chemistry)** Assiut University, Egypt. Thesis title: "Synthesis and anti-tumor activities of new hybrid molecules containing 1,3,4-Thiadiazole and 1,3-Thiazolidine-4-one bearing Benzylidene and Isatin Moieties"
June 2012	**Bachelor's degree in Pharmaceutical Sciences (B.Sc.)** Excellent with Honor degree Faculty of Pharmacy, Assiut University, Egypt.

EMPLOYMENT HISTORY:

Mar.2018 to present	**Assistant lecturer** Department of Pharmaceutical Organic Chemistry, Faculty of Pharmacy, Assiut University, Egypt.
Dec. 2013 to Feb. 2018	**Teaching Assistant** Department of Pharmaceutical Organic Chemistry, Faculty of Pharmacy, Assiut University, Egypt.
July 2013 to Nov. 2013	**Researcher at National Research Centre** Department of Hormones, Cairo, Egypt.
Dec. 2012 to June 2013	**R&D Specialist** T3A Industrial Company, Assiut, Egypt.

LABORATORY SKILLS AND TECHNIQUES

Through my PhD, previous studies and work experience in the industry, I have developed various laboratory skills and learnt different techniques. These include:

- Synthesis of various classes of organic compounds (heterocyclic, sugar, carbosugar and steroids), Do the necessary purification (flash chromatography, preparative TLC, HPLC or recrystallisation) and analysing of the organic compounds using different spectroscopic techniques (NMR, IR, Mass and optical rotation).
- Protein production: starting from the transformation of the plasmid to different E.Coli strains, performing expression trials and large-scale production.
- Protein purification using ÄKTA system (IMAC, hydrophobic interaction, Gel filtration, anionic and cationic interaction chromatography).
- Site-directed mutagenesis and designing the primers using SnapGene software.
- Using YASARA and MOE software for homology modelling and docking studies.
- Cell culture and perform anti-tumour screening for the synthetic organic compounds.

PERSONNEL SKILL

- Good communication skills gained through my experience as a researcher and Teaching assistant.
- Effective leadership and management skills gained through leading a research group of undergraduate students at Assiut University and co-supervising a Biomedical Sci student in his final year project.
- Teamworking skills gained through participating in different research projects (ex., Working with Prof. Tarek Aboul-Fadl Mohamed and Dr Abu-Baker M. Abdel-Aal in a research project entitled "Novel Synthetic Inhibitors of Eosinophils with Potential Anti-asthmatic Activity" funded by Science and Technology Development Fund (STDF, grant No. 15065), Department of Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Assiut, 71526, Egypt.)
- Ability to work under pressure.

PUBLICATIONS:

1. **Yasser M. Omar**, Giulia Santucci, Kamyar Afarinkia "tert-Butyl(2-oxo-2H-pyran-5-yl)carbamate as the First Chameleon Diene Bearing an Electron-Donating Substituent" *Molecules Vol 27 (2022), P:* 5666.
2. **Yasser M. Omar**, Samia G Abdel-Moty, Hajjaj HM Abdu-Allah "Further insight into the dual COX-2 and 15-LOX anti-inflammatory activity of 1, 3, 4-thiadiazole-thiazolidinone hybrids: The contribution of the substituents at 5th positions" *Bioorganic Chemistry, Vol 97 (2020), P:* 103657.
3. **Yasser M. Omar**, Noha G Mohamed, Andrew N Boshra, Abu-Baker M Abdel-Aal "Solvent-Free N-Formylation: An Experimental Application of Basic Concepts and Techniques of Organic Chemistry" *Journal of Chemical Education, Vol 97 (2020), P:* 1134.
4. **Yasser M. Omar**, Hajjaj H. M. Abdu-Allaha, Samia G. Abdel-Moty "Synthesis, biological evaluation and docking study of 1,3,4-thiadiazole-4-thiazolidinone hybrids as antiinflammatory agents with dual inhibition of COX-2 and 15-LOX" *Bioorganic Chemistry, Vol 80 (2018), P:* 461.