

FULL NAME : DR. AMNEH MOHAMMAD SHTAIWI

Faculty member / Drug Design



Academic Rank: Assistant Professor

Date & Place of Birth: 18 . 07 . 1986

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ACADEMIC QUALIFICATIONS

Degree	Major	Duration (From-To)	University	Country
Ph.D. fellowship	Drug design Medicinal Chemistry	2015-2018	Universiti Sains Malaysia	Malaysia
M.Sc.	Chemistry	2008-2011	The Hashemite University	Jordan
B.Sc.	Chemistry	2004-2008	Al al-Bayt University	Jordan

Linkedin & ResearchGate: Amneh Shtaiwi

Scopus Author ID: 56069612000

ORCID: <https://orcid.org/0000-0001-6081-7440>

Ph.D Thesis Title “COMPUTATIONAL DESIGN AND INVESTIGATION OF NEW BENZOPHENONES AND BENZOPHENONE IMINES INHIBITORS FOR BREAST CANCER”

TEACHING EXPERIENCE

Duration	Rank	Institution	Department/Faculty	Country
2019 - Now	Assistant Professor	Middle East University	Pharmacy	Jordan
2015 - 2018	Lecturer Assistant	Universiti Sains Malaysia	Chemistry Department	Malaysia
2012 - 2015	Lecturer	Majmaah University	Chemistry Department	Saudi Arabia
Jan 2012- Jul 2012	Lecturer	The Islamic Community College	College of pharmacy	Jordan

PUBLICATIONS

SCOPUS & ISI JOURNALS

1. I. Shah, **A. Shtaiwi**, S. A. Khan. Biological Evaluation, Molecular docking and structure activity relationship of 2H-Tetrahydro-1,3,5-thiadiazine-2-thiones as potent in vitro antileishmanial agents. In progress
2. M. Ouassaf, S. Belaidi, S. Chtita and **A. Shtaiwi**. QSAR Investigations and molecular docking analysis of plasmodium protein farnesyltransferase inhibitors as potent antimalarial agents. *Journal of Computer –Aided Molecular Design*. 2021, Submitted. Impact factor: 2.50
3. **A. Shtaiwi**, R. Adnan and M. Khairuddean, Synthesis, Biological Evaluation and Computational Insights of p-Benzoyl-phenylalanine as Potential Estrogen Receptor α Inhibitor, *Journal of Medicinal Chemistry*. **2021** (Submitted). Impact factor: 6.30
4. Al-Soud, Yaseen A., Al-Ahmad, Ala'a H., Abu-Qatouseh, Luay, **Shtaiwi Amneh**, Alhelal, Kafa' A. S., Al-Suod, Hossam H., Alsawakhneh, Sondos O. and Al-Qawasmeh, Raed A.. "Nitroimidazoles Part 9. Synthesis, molecular docking, and anticancer evaluations of piperazine-tagged imidazole derivatives" *Zeitschrift für Naturforschung B*, vol. 76, no. 5, **2021**, pp. 293-302. <https://doi.org/10.1515/znb-2020-0200>
5. **A. Shtaiwi**, R. Adnan, M. Khairuddean and S. Khan, Computational Investigations, of the binding mechanism of novel benzophenone imines inhibitors for the treatment of breast cancer, *RSC Advances*, **2019**, 9, 35401-35416.
6. **A. Shtaiwi**, R. Adnan, M. Khairuddean and M. Al-Qattan, Molecular dynamics simulation of human estrogen receptor free and bound to morpholine ether benzophenone inhibitor, *Theoretical Chemistry Accounts*. **2018**, 137: 101. Impact factor: 1.60, *Springer Publisher*.
7. **A. Shtaiwi**, R. Adnan, M. Khairuddean and FS. Shikin, Investigation of Newly Designed Human Estrogen Receptor Inhibitors from Benzophenones Derivatives (BPs) by Molecular Docking and Molecular Dynamic Simulation, *Australian Journal of Basic and Applied Sciences*. **2016**, 10(18): 49-59. Impact factor: 2.50, *American-Eurasian Network for Scientific Information Publisher*.
8. Mahmoud Sunjuk, Bassam El-Eswed, Jamal N. Dawoud, **Amneh Shtaiwi**, Monther Khanfar & Mohammad El-Khateeb (**2013**) Evidences for Chelating Complexes of Lithium with Phenylphosphinic and Phenylphosphonic Acids: A Spectroscopic and DFT Study, *Phosphorus, Sulfur, and Silicon and the Related Elements*, 189:4, 558-575. Impact factor: 0.80, *Taylor and Francis Publisher*.
9. Bassam El-Eswed, Mahmoud Sunjuk, Y. S. Al-Degs & **Amneh Shtaiwi** (**2014**) Solvent Extraction of Li^+ using Organophosphorus Ligands in the Presence of Ammonia, *Separation Science and Technology*, 49: 9, 1342-1348. Impact factor: 1.50, *Taylor and Francis Publisher*.

CONFERENCES

1. **Amneh Shtaiwi (2021)**. Speaker: The 1st International Conference “Women in Academia”, Why are there a leadership gender gap in academia: An overview of the current state in Jordan?, 20-21/01/2021 Amman-Jordan.
2. **Amneh Shtaiwi (2021)**. Local Organizing Committee (LOC) of the 2021 Global Mosharaka Congress on Engineering and Architecture (GMC-EngArch 2021), Aqaba, Jordan in the period 3-5 December 2021. GMC-EngArch 2021 is technically co-sponsored by CRC Press/Balkema - Taylor & Francis Group (Balkema).
3. **Amneh Shtaiwi (2020)**. Participant at 1st International Conference of the World future vision after Covid19 (Online), 14-16/05/2020.
4. **Amneh Shtaiwi (2017)**. Speaker, Molecular dynamics simulation of morpholine ether benzophenone inhibitor and apo conformation of human estrogen receptor. Oral presentation, presented at 6th International Conference for Young Chemists, ICYC, organized by Universiti Sains Malaysia, St Giles Wembley Hotel, Georgetown, Pinang. Malaysia.
5. **Amneh Shtaiwi (2016)**. Participant at 4th International Conference on Computation for science and Technology (ICCST), organized by school of Pharmacy, Universiti Sains Malaysia, held at De Baron Resort Langkawi, Malaysia.
6. **Conference Reviewer for two years:**
Amneh Shtaiwi (2016 and 2017). IEEE International Conference on Control System, Computing and Engineering (ICCSCE 2016 and 2017), organized by Universiti Teknologi Mara (UiTM), PARKROYAL Pinang Resort, Batu Ferringhi, Pinang. Malaysia.

WORKSHOPS ATTENDED

1. Teaching technique workshop, (Majmaah University, Saudi Arabia, **2013**).
2. Occupational safety and health workshop (USM, Universiti Sains Malaysia, **2015**).
3. Workshop Introduction to LINUX Operating System in Research (**2015**), IPPT, Organized by Institute of Bioinformatic, USM, Pinang, Malaysia.
4. Computer aided drug design, CADD workshop and training, Arranged by School of Pharmaceutical Sciences and Institute of Molecular Medicine. (INFORMM, USM 8ht-10th Dec **2015**) held at and Institute of Molecular Medicine. (INFORMM, USM).

5. NMR Nuclear magnetic resonance, Analysis and Training workshop (School of chemical sciences, USM, 2016).
6. Computer aided drug design, CADD workshop and training, Organized by School of Pharmaceutical Sciences and Institute of Molecular Medicine. (INFORMM, USM 30th-2nd Nov 2016), held at De Baron Resort Langkawi, Malaysia.
7. Molecular Dynamics Simulation workshop (school of pharmacy, USM 2016).

RESEARCH INTERESTS

1. Computational design of benzophenone derivatives, benzophenone morpholine ether, Benzophenone imines and Schiff bases as inhibitors ligands for human estrogen receptors to treat breast cancer.
2. Organic synthesis of benzophenone amino acids derivatives, Imines and Schiff bases.
3. Synthesis using Friedel craft acylation and alkylation reactions.
4. Development of programming scripts using Bash shell (Linux) to perform ligand-protein interaction.
5. Molecular Docking and virtual screening.
6. Molecular dynamics simulation of host-guest system complexes.
7. Crystal screening and crystallization of proteins, hER and ER-ligand complex.
8. Homology Modeling of proteins with low resolution or with high missing amino acids residues.
9. Protein kinetic studies for hER-ligand interactions: Determination of dissociation constant, mode of inhibition and interaction between two inhibitors at binding site.
10. Development, programming and application of protein-based and ligand-based approaches in designing human estrogen protein inhibitors.

LANGUAGES

Arabic (Mother Tongue)

English (Excellent)

Malayu (Good)

ORGANIZATION & MEMBERSHIP

MEMBERSHIP- The Association of Jordanian Women Academics in Jordan

WORKSHOPS OFFERED

Amneh Shtaiwi (2017). Speaker, [Molecular dynamics simulation of morpholine ether benzophenone inhibitor and apo conformation of human estrogen receptor. Oral presentation, presented at 6th International Conference for Young Chemists, ICYC, organized by Universiti Sains Malaysia, St Giles Wembley Hotel, Georgetown, Pinang. Malaysia].

AWARDS RECEIVED

1. Awarded **USM-fellowship** for pursuing PhD, Universiti Sains Malaysia. 2015-2018.
2. Awarded The Hashemite university-Grant for pursuing MSc study 2009.
3. Excellent achievement in Master degree, the rank was the second on my mates. with an average of (3.75 out of 4.00).
4. Excellent achievement in Bachelor degree, the rank was the First among (54) students.

REFERENCES

1. Prof. Rohana Adnan
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Dean, School of Chemical Sciences,Universiti Sains Malaysia
11800 Pulau Penang, Malaysia. Tel: +604-6533888 Ext 3549, r_adnan@usm.my
2. Dr. Yaseen Al-Saud
Professor at AL-alBayt University, Mafrq, Jordan, alsoud@aabu.edu.jo
3. Dr. Ammar Almaaytah
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Amman, Jordan, Phone 06/4790222, aalmaaytah@meu.edu.jo