

CURRICULUM VITAE

Fadi G. Saqallah

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1. Personal Data

Date of Birth: 1992
Nationality: Jordanian

2. Education

- Ph.D. (Pharmaceutical Chemistry and Drug Design) 2023, University of Science, Malaysia (USM), Penang, Malaysia
- M.Sc. (Pharmaceutical Sciences) 2018, Applied Science University, Amman, Jordan
- B.Sc. (Pharmacy) 2014, Al-Ahliyya Amman University, Amman, Jordan

3. Ph.D. Dissertation

“Theobromine-Based Synthetic Derivatives as Potential Inhibitors of Dengue Virus II Serine Protease”, University of Science, Malaysia (USM), Penang, Malaysia.

4. Employment

Academic Positions

- Assistant Professor, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
September, 2023 – Present



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- Assistant Professor (Part-time), Department of Pharmaceutical Sciences, Faculty of Pharmacy, Al-Ahliyya Amman University, Amman, Jordan
March, 2023 – September, 2023
- Graduate Teaching Assistant, School of Pharmaceutical Sciences, University of Science, Malaysia (USM), Penang, Malaysia
March, 2019 – July, 2020
- Research and Teaching Assistant, Faculty of Pharmacy and Medical Sciences, Al-Ahliyya Amman University, Amman, Jordan
October, 2014 – October, 2015

Administrative Positions

- N/A

5. Research Interests

antiviral; antiplatelet; anticancer; human immunodeficiency virus; dengue virus; SARS-Cov-2; p2y12; p2y1; drug discovery; molecular modelling; drug design; molecular dynamics; pharmacophore modelling; QSAR; synthesis; green synthesis

6. Membership in Scientific Societies and Associations

- Sigma Xi, The Scientific Research Honor Society (Nominee)
- American Chemical Society
- Jordan Pharmacists Association (JPA)

7. Honors and Awards

- Hot Poster Award, International Conference on Ageing – Ageing with Dignity, Title: “A Pandanamine-Derived Compound that Defies Diabetes- and Obesity-Related Premature Ageing”, Penang, Malaysia
- First Class Honors Award, Applied Science University, Amman. Jordan, 2018

8. Fellowships and Scholarships

- N/A

9. Teaching Experience

- *Graduate Courses*

– N/A



- ***Undergraduate Courses***
 - Medicinal Chemistry I
 - Medicinal Chemistry III
 - Drug Design
 - Chemistry of Natural Products
 - Medicinal Chemistry Laboratory
 - Pharmaceutical Analysis Laboratory
 - Physical Pharmacy Laboratory
 - General Pharmaceutics Laboratory
 - Industrial Pharmacy Laboratory

10. **Supervision of Graduate Research**

- N/A

11. **Grants**

- N/A

12. **Patents**

- N/A

13. **Membership of Committees**

- **National and International**
 - N/A
- **University**
 - *Pharmacy Students Research Club (PSRC), Faculty of Pharmacy, Al-Zaytoonah University of Jordan – Member.*
 - *The Committee for Computing and e-Learning, Faculty of Pharmacy, Al-Zaytoonah University of Jordan – Member.*

14. **Professional and Scientific Meetings**

Scientific Meetings Organized

- Hands-On Molecular Docking and Virtual Screening Workshop, Organiser, School of Pharmacy, Al-Ahliyya Amman University, Amman, Jordan, December 2023.
- The 1st International Postgraduates Conference of Pharmaceutical and Health Sciences (IPCPS), Organiser, School of Pharmaceutical Sciences, University of Science, Malaysia (USM), Penang, Malaysia, October 2022.



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- Publishing in High Impact Journals: How to Survive Peer Review – Online Seminar, Organiser, School of Pharmaceutical Sciences, University of Science, Malaysia (USM), Penang, Malaysia, May 2020.

Participation in Scientific meetings

1. Fostering the Drug Design via Artificial Intelligence and Sanctifying Molecular Docking Studies, Vels Institute of Science, Technology and Advanced Studies, July 2023.
2. NMR Application in Natural Products & Organic Synthesis: Structural Elucidation & Compound Characterization, School of Chemical Sciences, University of Science, Malaysia (USM), September 2023.
3. The 2nd International Conference and Call for Paper – UTA'45 Jakarta 2021, December 2021.
4. International Teleconference on Technology and Policy for Supporting Implementation of COVID-19 Recovery Plan in Southeast Asia (ITTP-COVID19), August 2021.
5. Using Virtual Learning to Foster Creativity in Chemistry, American Association of Chemistry Teachers (AACT), November 2020.
6. Teaching Difficult to Explain Chemistry Concepts Using Sunflower for Science Simulations and Animations, American Association of Chemistry Teachers (AACT), November 2020.
7. ACS Publications Symposium: Featuring JACS Au, American Chemical Society (ACS), October 2020.
8. Molecular Dynamics Simulation Course, BioFlix, October 2020.
9. Using ChemCollective - Online Learning Initiative to Simulate Laboratory Experiments, American Association of Chemistry Teachers (AACT), October 2020.
10. Building Virtual Labs and Activities with Formative, American Association of Chemistry Teachers (AACT), September 2020.
11. ACS on Campus - ASEAN Virtual Event, American Chemical Society (ACS), September 2020.
12. Pharmaceutical Marketing, Al-Ahliyya Amman University, August 2020.



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13. Publishing in High Impact Journals: How to Survive Peer Review, University of Science, Malaysia (USM), May 2020.
14. ACS Spring 2020 National Meeting & Expo., American Chemical Society (ACS), March 2020.
15. The 12th Computer-Aided Drug Design (CADD) Seminar and Workshop, University of Science, Malaysia (USM), December 2019.
16. Hands-on Workshop on Statistical Method for Research (SPSS), University of Science, Malaysia (USM), August 2019.
17. International Conference on Ageing – Ageing with Dignity, Penang, Malaysia, March 2019.
18. The 11th Computer-Aided Drug Design (CADD) Seminar and Workshop, Bali, Indonesia, November 2018.
19. Ensuring Effective Patient Care Options, KANTAR Consulting, Amman, Jordan, August 2018.
20. Asthma First Aid Workshop (Applications in Pharmacy Education), Second International Medical Conference, Applied Science University, March 2016.
21. The 3rd Pharmaceutical Competition, Faculty of Pharmacy, Al-Ahliyya Amman University, April 2013.

15. Participation in or organization of curricular and/or extra-curricular activities

- N/A

16. Publications

- Papers in refereed journals
 1. Al-Najjar, B.O. and **Saqallah, F.G.**; *Unlocking the Conformational Changes of P2Y12: Exploring An Acridinone Compound's Effect on Receptor Activity and Conformation*, *Molecules*, 28(9), 2023, pp. 3878.
 2. Abbas, M.A., Al-Saigh, N.N., and **Saqallah, F.G.**; *Regulation of adipogenesis by exosomal milk miRNA*, *Reviews in Endocrine and Metabolic Disorders*. 2023, 2023, pp. 1-20.



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3. **Saqallah, F.G.**, Almashhadani, A.Q., and Wahab, H.A.; *Delavirdine and Dolutegravir as Potential Inhibitors of SARS-COV-2 Main Protease (Mpro): An In-Silico Study*, Jordan Journal of Biological Sciences, 15(5), 2022, pp. 739-762.
4. Al-Najjar, B.O., Abbas, M.A., Sibai, O.A., **Saqallah, F.G.** and Al-Kabariti, A.Y.; *QSAR, Structure-Based Pharmacophore Modelling and Biological Evaluation of Novel Platelet ADP Receptor (P2Y₁₂) Antagonist*, RSC Medicinal Chemistry, 14(1), 2022, pp. 1-7.
5. Salin, N.H., Hariono, M., Khalili, N.S.D., Zakaria, I.I., **Saqallah, F.G.**, Taib, M.N.A., Kamarulzaman, E.E., Wahab, H.A., and Khawory, M.H.; *Computational Study of Nitro-Benzylidene Phenazine as DENV2 NS2B-NS3 Protease Inhibitor*, Frontiers in Molecular Biosciences, 9, 2022, pp. 875424.
6. Al Zarzour, R.H., Kamarulzaman, E.E., **Saqallah, F.G.**, Binti Zakaria, F., and Abdul Razak, K.N.; *Medicinal Plants' Proposed Nanocomposites for the Management of Endocrine Disorders*, Heliyon, 8(9), 2022, pp. e10665.
7. **Saqallah, F.G.**, Hamed, W.M., Talib, W.H., Dianita, R., and Wahab, H.A.; *Antimicrobial Activity and Molecular Docking Screening of Bioactive Components of Antirrhinum majus (Snapdragon) aerial parts*, Heliyon, 8(8), 2022, pp. 1-12.
8. **Saqallah, F.G.**, Abbas, M.A., and Wahab, H.A.; *Recent advances in natural products as potential inhibitors of dengue virus with a special emphasis on NS2b/NS3 protease*, Phytochemistry, 202, 2022, pp. 113362.
9. Al-Najjar, B.O., **Saqallah, F.G.**, Abbas, M.A., Al-Hijazeen, S.Z., and Sibai, O.A.; *P2Y₁₂ Antagonists: Approved Drugs, Potential Naturally Isolated and Synthesised Compounds, and Related In-Silico Studies*, European Journal of Medicinal Chemistry, 227, 2022, pp. 113924.
10. Abdulbaqi, I.M., Assi, R.A., Yaghamur, A., Darwis, Y., Mohtar, N., Parumasivam, T., **Saqallah, F.G.**, and Wahab, H.A.; *Pulmonary delivery of anticancer drugs via lipid-based nanocarriers for the treatment of lung cancers: An update*, Pharmaceuticals, 14(8), 2021, pp. 725.
11. Al-Thiabat, M.G., **Saqallah, F.G.**, Gazzali, A.M., Mohtar, N., Yap, B.K., Choong, Y.S., and Wahab, H.A.; *Heterocyclic Substitutions Greatly Improve Affinity and Stability of Folic Acid towards FRa: An In Silico Insight*, Molecules, 26(4), 2021, pp. 1079.



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12. **Saqallah, F.G.**, Hamed, W.M., and Talib, W.H.; *In vivo evaluation of Antirrhinum majus' wound-healing activity*, Scientia Pharmaceutica, 86(4), 2018, pp. 45.
13. Al-Najjar, B.O., Shakya, A.K., **Saqallah, F.G.**, and Said, R.; *Pharmacophore modeling and 3D-QSAR studies of 15-hydroxyprostaglandin dehydrogenase (15-PGDH) inhibitors*, Indian Journal of Chemistry, 56B(11), 2017, pp. 1200-1206.

- Books and Book Chapters

1. Arafat B. and **Saqallah F.G.**; *General Pharmaceutics Laboratory Manual*, Al-Ahliyya Amman University, 2015.

- Conference Presentations

1. **Saqallah, F.G.**, Almashhadani, A.Q., and Wahab, H.A.; *Computational Drug Discovery and Repurposing of Approved Antivirals as Potent Inhibitors of CoVID-19 Serine-Type 3-Chymotrypsin-Like Protease*, The 2nd International Conference and Call for Paper – UTA'45 Jakarta 2021, 2021. [ORAL PRESENTATION]
2. **Saqallah, F.G.** and Wahab, H.A.; *Alpha-viniferin and Neohesperidin as Potential 3CL^{pro} Inhibitors of SARS-CoV-2: An In-Silico Virtual Screening Investigation*, International Teleconference on Technology and Policy for Supporting Implementation of COVID-19 Recovery Plan in Southeast Asia (ITTP-COVID19), 2021. [ORAL PRESENTATION]
3. **Saqallah, F.G.** and Wahab, H.A.; *Delavirdine and Dolutegravir as Potential Inhibitors Of SARS-CoV-2 Main Protease (M^{pro}): An In-Silico Study*, International Teleconference on Technology and Policy for Supporting Implementation of COVID-19 Recovery Plan in Southeast Asia (ITTP-COVID19), 2021. [ORAL PRESENTATION]
4. Al-Thiabat, M. G., **Saqallah, F.G.**, Gazzali, A. M., & Wahab, H. A.; *Role of reported anti-cancer heterocyclic rings in enhancing the binding mechanism of folate derived compounds with folate alpha-receptor via molecular docking, molecular dynamic, and MM-PBSA*, ACS Spring 2020 National Meeting & Expo., 2020. [POSTER PRESENTATION]
5. **Saqallah, F.G.** and Wahab, H.A.; *A Pandanamine-Derived Compound that Defies Diabetes- and Obesity-Related Premature Ageing*, International Conference on Ageing – Ageing with Dignity, 2019. [POSTER PRESENTATION]