

CURRICULUM VITAE

Dima Azzam Sabbah
B. Pharm., M.S., Ph.D. Pharm. Sci.

Pharmacy Department, Faculty of Pharmacy

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1. Personal Data

Nationality: Jordanian

2. Education

- Ph. D. (Pharmaceutical Sciences) 2012, University of Nebraska Medical Center, Omaha, Nebraska, USA
- M.Sc. (Pharmaceutical Sciences) 2003, The University of Jordan, Amman, Jordan
- B.Sc. (Pharmacy) 1996, The University of Jordan, Amman, Jordan

3. Ph.D. Dissertation

- *Computational Studies and Inhibitors Design of PI3Ka*, University of Nebraska Medical Center, College of Pharmacy, Omaha, Nebraska, USA

4. M.S. Thesis

Synthesis of Some Novel Nitrofurans Derivatives of Potential Antimicrobial Activity.
 The University of Jordan, Faculty of Pharmacy, Amman, Jordan.



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5. Employment

Academic Positions

- Professor, Pharmacy Department, Al-Zaytoonah University of Jordan, Amman, Jordan
June 9th 2022- now
- Associate Professor, Pharmacy Department, Al-Zaytoonah University of Jordan, Amman, Jordan
February 19th 2018- now
- Assistant Professor, Pharmacy Department, Al-Zaytoonah University of Jordan, Amman, Jordan
October 31st 2012- February 18th 2018
- Ph. D. Student & Research Assistant, Pharmaceutical Sciences Department, University, University of Nebraska Medical Center, Omaha, NE
August 17th 2007- September 30th 2012
- Instructor, Pharmacy Department, Al-Zaytoonah University of Jordan, Amman, Jordan
January 1st 2004-August 15th 2007
- Teaching Assistant, , Pharmacy Department, Al-Zaytoonah University of Jordan, Amman, Jordan
September 9th 1996- December 31st 2003

6. Research Interests

- Computational Chemistry
- Drug Design
- Medicinal Chemistry
- Organic Synthesis
- Drug Discovery

7. Membership in Scientific Societies and Associations

- Jordan Pharmaceutical Association
- American Chemical Society
- American Association of Pharmaceutical Scientists

8. Honors and Awards

- 2021 Al-Zaytoonah University of Jordan (ZUJ) Best Master Thesis Award received by M.Sc. *Reem Ahmad Islem*.



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- 2020 Hamdi Mango Center for Scientific Research (HMCSR, The University of Jordan) (Samia Mango Distinguished Female Researcher Award).
- 2018 Al-Zaytoonah University of Jordan (ZUJ) Distinguished Researcher Award.
- 2017 Third Place in Postgraduate Poster Competition. ASU-Pharmacy Third Symposium "*Recent Trends in Postgraduate Research*" received by M.Sc. *Ameerah Saeed Ibrahim*.
- 2016 Second Place in Splendor of Pharmacists (SOP) Competition- Medicinal Chemistry (Structure-Based Drug Design) received by B. Sc. Students: *Hakam M. Al Aqabani & Ikhlas Altaweel*
- 2012 ADDF Young Investigator Scholarship
- 2011 COMP's Denver National Meeting Brochure Cover Image Contest
- 2011 Open Science Grid Summer School and TeraGrid '11 Conference Attendance
- 2009 AAPS Graduate Student Symposium Award in Drug Design & Discovery

9. Fellowships and Scholarships

- 2010-2012: Bukey Fellowship
- 2007-2012: University of Nebraska Medical Center Graduate Studies Research Assistantship

9. Teaching Experience

- *Graduate Courses*
 - Advanced Medicinal Chemistry & Drug Design
 - Advanced Organic Chemistry
 - Advanced Instrumental Analysis
 - Research Methodology
- *Undergraduate Courses*
 - Medicinal Chemistry (I/II/III)
 - Drug Design
 - Pharmaceutical Organic Chemistry II



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- Pharmaceutical Analytical Chemistry
- Pharmaceutical Organic Chemistry Lab
- Medicinal Chemistry Lab

10. Supervision of Graduate Research

A. Internal

1. M. Sc. Student: *Hana Kassim Al-Sawaf*, Optimizing the core structure of 4-hydroxy-2-quinolone derivatives as potential anticancer agents, 2022-Present
2. M. Sc. Student: *Taima Mohammad Al-Odat*, Design, Synthesis, and Biological Evaluation of Naphthyridine carboxamides as potential anticancer agents, 2022-Present
3. M. Sc. Student: *Sundos Fouad Aliyeh*, Development of a Polymeric Nanoparticle Formulation for Phosphatidylinositol 3-Kinase Alpha (PI3K α) Inhibitors as a Potential Anticancer Nanomedicine, 2021-2022.
4. M. Sc. Student: *Qutaiba Salah Jasem*, Design, Synthesis, and Biological Evaluation of *N'*-(Diphenylmethylene) Benzohydrazide Derivatives as PI3K α Inhibitors, 2020-2021.
5. M. Sc. Student: *Sarah Meknas*, Optimization of *N*-Substituted-6-Chloro-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2020-2021.
6. M. Sc. Student: *Batool Allahwani*, Design, Synthesis, and Biological Evaluation of *N*-Substituted-7-Methyl-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2020-2021.
7. M. Sc. Student: *Reem Ahmad Isleem*, Design, Synthesis, and Biological Evaluation of Nitrated *N*-Substituted-4-Hydroxy-2-Quinolone-3 Carboxamides as PI3K α Inhibitors, 2019-2021.
8. M. Sc. Student: *Rawan Amer Haroon*, Chlorinated Derivatives of *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2019-2020.
9. M. Sc. Student: *Tahrer Fadhil Abd AL-Bo Aswad*, Synthesis and Biological Evaluation of *N*-Substituted-4-Hydroxy-8-Methyl-2-Quinolone-3-Carboxamide Derivatives as PI3K α Inhibitors, 2018-2019.
10. M. Sc. Student: *Abdullah Musa Abdel Fattah Abdullah*, Methoxylated Derivatives of *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2018-2019.



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11. M. Sc. Student: *Asma Ali Jumah*, Design, Synthesis, and Biological Evaluation of *N*-Substituted-4-Hydroxy-8-Methoxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2018-2019
12. M. Sc. Student: *Bara'a Ahmad Al-Azaideh*, Design, Synthesis, and Biological Evaluation of Benzophenone Hydrazone Derivatives as PI3K α Inhibitors, 2018-2019.
13. M. Sc. Student: *Hla Hasan Samarat*, Design, Synthesis, and Biological Evaluation of Fluorinated *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2018-2019.
14. M. Sc. Student: *Shaima' Emad Hasan*, Design, Synthesis, and Biological Evaluation of *N*-Substituted-4-Hydroxy-6-Methyl-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2017-2018.
15. M. Sc. Student: *Nisreen Shaban Hamadeh*, Optimization of 4-Hydroxy-2-Quinolone-3-Carboxamide Core Nucleus Targeting PI3K α Inhibition, 2016-2017.
16. M. Sc. Student: *Ameerah Saeed Ibrahim*, Optimization and Synthesis of Benzoin Derivatives as PI3K α Inhibitors, 2015-2016.
17. M. Sc. Student: *Fatmeh Mahmoud Tarawneh*, Design, Synthesis, and Biological Evaluation of Benzoin Schiff Bases as Antitumor Agents, 2015-2016.
18. M. Sc. Student: *Dalal Yousef Masalha*, Phenanthridines: Design, Synthesis, and Biological Evaluation as Potential DPP-IV Inhibitors, 2015-2016.
19. M. Sc. Student: *Bayan Salah Hishmah*, Design, Synthesis, and Biological Evaluation of Novel PI3K alpha Inhibitors, 2013-2014.
20. M. Sc. Student: *Musaab Mahmoud Saada*, Pharmacophore-Based Screening and Identification of Novel Phosphoinositide 3-kinase (PI3K α) Inhibitors, 2013-2014.

B. External

1. Ph.D. Student: *Reem Ahmad Al-Janabi (The University of Jordan College of Pharmacy)*, Design, Synthesis, and Biological Evaluation of Novel MAO-A Inhibitors Targeting Lung Cancer, 2019-2021.



- ***Mentoring of Graduate Research***

1. M. Sc. Student: *Hanin Mohammad K. Kalloush*, Design, Synthesis, and *In Vivo* Biological Evaluation of Novel Benzimidazole-2-Carboxamide Derivatives as Antihyperlipidemic Agent, 2015-2016.
2. M. Sc. Student: *Haneen Muneer Mohammad Abu Zaid*, Design, Synthesis, and *In Vivo* Biological Evaluation of Imidazole-5-Carboxamide Derivatives as Lipoprotein Lipase Activators, 2015-2016.
3. M. Sc. Student: *Sarah Mohammad Ahmad Al-Rawashdeh*, Fluorinated Benzamides: Design, Synthesis and Biological Evaluation as Potential CETP Inhibitors, 2015-2016.
4. M. Sc. Student: *Nisreen Nazmi Haj Ahmad*, Synthesis and Antihyperlipidemic Properties of Novel *N*-(4-Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives, 2014-2016.
5. M. Sc. Student: *Amneh Mahmoud Abu Al-Inin*, Synthesis and Biological Evaluation of Novel 5-Bromo Indole-2-Carboxamide Derivatives, 2014-2016.
6. M. Sc. Student: *Hamada Mansour Abd El-Aal Abd El-Aziz*, Synthesis and Biological Evaluation of Substituted Fluorinated Alkyloxy Benzenamide as Potential CETP inhibitors, 2014-2015.
7. M. Sc. Student: *Dania Mohammed Nazer Al kabbani*, Synthesis and Biological Evaluation of Novel *N*-Benzoylphenyl-2-Furamide Derivatives, 2014-2015.

- ***Examining of Graduate Research***

1. 2023, August 22nd (*External Examiner*)” Formulation, Development, and Evaluation of Hyaluronic Acid-Conjugated Liposomal Nanoparticles loaded with Regorafenib and Curcumin, and their *In Vitro* Evaluation against Colorectal Cancer Cell Lines” (M. Sc. Student: Sewar Ghazi Al-Shnaikat; *Al-Ahliyya Amman University College of Pharmacy*).
2. 2023, August 8th (*External Examiner*)” A Mechanistic Study on the Effect of Selective Serotonin Reuptake Inhibitors in Combination with Chemotherapy in Cancer Cells” (M. Sc. Student: Asal Saad Alabdullah; *The University of Jordan College of Pharmacy*).
3. 2023, June 4th (*Internal Examiner*)” *Para*- Methylated Benzene Sulfonamides as Potential CETP Inhibitors: Chemical Synthesis and *In Vitro* Validation” (M. Sc.



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Student: Marah Belal Afaneh; *Al-Zaytoonah University of Jordan College of Pharmacy*)

4. 2023, May 23th (*External Examiner*)” Repurposing antithrombotics in cancer treatment: an *in vitro* study” (M. Sc. Student: Lubna Jamal Ali Al-Shalabi; *The University of Jordan College of Pharmacy*).
5. 2023, January 5th (*Internal Examiner*)” Synthesis, Characterization, and CETP Inhibitory Potential of Novel meta-Trifluoromethylated Aromatic Sulfonamides” (M. Sc. Student: Nataly Mohammed Abu Ajamieh; *Al-Zaytoonah University of Jordan College of Pharmacy*)
6. 2023, January 5th (*External Examiner*)”The Role of Antiprotozoal Drugs in Oncology: A drug Repositioning Study” (M. Sc. Student: Qusay Youseif Salih Salih; *The University of Jordan College of Pharmacy*).
7. 2022, December 28th (*External Examiner*)”Association of Genetic Polymorphisms in DRVT Gene (rs6432860) with Resistance to Antiepileptic Drugs (AEDs) among Jordanian Epileptic Patients” (M. Sc. Student: Hanen Haider Al-Sadir; *The University of Jordan College of Pharmacy*).
8. 2022, September 4th (*External Examiner*)”*In Vitro* Evaluation of Selective Serotonin Reuptake Inhibitors (SSRI) as Anticancer Agents” (M. Sc. Student: Esraa Kathim Jaradat; *The University of Jordan College of Pharmacy*).
9. 2022, September 4th (*External Examiner*)”Exploring the Molecular Mechanisms Underlying the Anti-tumorigenic effect of Angiotensin Receptor Blockers (ARB)” (M. Sc. Student: Raneem Subhi Atiyah; *The University of Jordan College of Pharmacy*).
10. 2022, September 1st (*External Examiner*)” Insulin Detemir: Potential Drug Interactions and Efforts to Prolong Action” (Ph.D. Student: Dua’a Ghazi Farah; *The University of Jordan College of Pharmacy*).
11. 2022, May 31st (*Internal Examiner*)” New Meta-Fluorinated Diaryl Sulfonamides: Synthesis and *In Vitro* Study as Promising Cholesteryl Ester Transfer Protein Inhibitors” (M. Sc. Student: Yasmin Mahmoud Selim Ibrahim; *Al-Zaytoonah University of Jordan College of Pharmacy*)
12. 2022, May 29th (*External Examiner*)” Repurposing of Phosphodiesterase Isoenzyme 5 (PDE-5) Inhibitors for Cancer Treatment: An *In Vitro* Study” (M. Sc. Student: Rola Haider Al-Omari; *The University of Jordan College of Pharmacy*).
13. 2022, January 16th (*Internal Examiner*)” Fluorinated Benzene Sulfonamides as Potential Cholesteryl Ester Transfer Protein Inhibitors: Synthesis and Subsequent



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- in Vitro Validation” (M. Sc. Student: Hamza Mahmoud Al-Shaiah; *Al-Zaytoonah University of Jordan College of Pharmacy*)
14. 2022, January 3rd (*External Examiner*)” Exploring Novel HCAVII Inhibitors as Potential Antiepileptic Agents” (M. Sc. Student: *Numan Aluneisi; The University of Jordan College of Pharmacy*).
 15. 2021, December 29th (*External Examiner*)” Molecular Biological Evaluation of MAO-A Inhibitors Efficacy Against Breast Cancer” (M. Sc. Student: *Aseel Abdallah Issa Alkhaldeh; The University of Jordan College of Pharmacy*).
 16. 2021, August 30th (*External Examiner*)” Exploring the Role of Sodium-glucose Cotransporter as a New Target for Cancer Therapy” (M. Sc. Student: *Ahmad Mohammad Issa; The University of Jordan College of Pharmacy*).
 17. 2021, August 30th (*External Examiner*)” Synthesis, Characterization, Molecular Docking, and Biological Evaluation of New Derivatives of 1,2-Dihydroquinoline-3-Carboxamide as Potential Anticancer Agents” (M. Sc. Student: *Dania Nasser; The University of Jordan Chemistry Department*).
 18. 2021, August 25th (*Internal Examiner*)” Diaryl Sulfonamides: Synthesis, Characterization, and In Vitro Biological Evaluation as CETP Inhibitors” (M. Sc. Student: *Azhar Mohammad Salem Shalluf; Al-Zaytoonah University of Jordan College of Pharmacy*).
 19. 2021, May 26th (*External Examiner*)” Molecular Modeling Approach to Identify Novel Alpha-Amylase Inhibitors as Potential Antidiabetic Drugs” (M. Sc. Student: *Taima' Walid Abdelmajid Chaban; University of Petra College of Pharmacy*).
 20. 2021, May 20th (*Internal Examiner*)” Synthesis and Biological Evaluation of Aromatic Sulfonamides as Novel Cholesteryl Ester transfer Protein Inhibitors” (M. Sc. Student: *Manal Jamal Asa'ad; Al-Zaytoonah University of Jordan College of Pharmacy*).
 21. 2021, May 19th (*External Examiner*)” *In silico* Screening and Experimental Validation of Novel MexAB-OprM Efflux Pump Inhibitors of *Pseudomonas Aeruginosa*” (M. Sc. Student: *Malak Jamal Hajar; University of Petra College of Pharmacy*).
 22. 2021, May 18th (*External Examiner*)” An In Vitro Study of the Implication and Efficacy of Aromatase Inhibitors Combination and Mono-Chemotherapy against Lung Cancer” (M. Sc. Student: *Bayan Amjad Rahal; The University of Jordan College of Pharmacy*).



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23. 2020, December 22nd (*External Examiner*)” Antiinflammatory Properties of Lipophilic Fluoroquinolones-Based Scaffold against Cancer Cell Lines” (M. Sc. Student: Tasneem Khalid Badawi Alhallaq; *The University of Jordan College of Pharmacy*)
24. 2020, December 20th (*External Examiner*)” Investigations into The Molecular Mechanisms Underlying the Anti-proliferative and Anti-tumorigenesis Activities of COX2 Inhibitors against Hepatocellular Carcinoma Cells” (M. Sc. Student: Sara Ahmad Khliefat; *The University of Jordan College of Pharmacy*)
25. 2020, December 17th (*External Examiner*)” Exploration of anti-proliferative and anti-tumorigenesis activities of monoamine oxidase-A (MAO-A) inhibitors against colorectal cancer and investigation into their underlying molecular mechanisms” (M. Sc. Student: Husam Ahmad Abdel-Karim Al-Salamat; *The University of Jordan College of Pharmacy*)
26. 2020, November 22nd (*External Examiner*) “In vitro evaluation of potential therapeutic benefits of selective estrogen modulators (SERMs) for lung cancer treatment” (M.Sc. Student: *Lina Adnan Al Sous; The University of Jordan College of Pharmacy*).
27. 2020, January 9th (*External Examiner*) “Evaluation of Selected Natural Products to Overcome Cisplatin Resistance in Breast Cancer: an *in vitro* and *in vivo* study” (M. Sc. Student: *Ali Hussein Al-Rufaye; Applied Science University College of pharmacy*)
28. 2019, May 9th (*Internal Examiner*) “Synthesis, Characterization, and *In-Vitro* Biological Evaluation as Potential DPP-IV Inhibitors” (M. Sc. Student: *Ebtisam Abdulkareem Ali Alwarafi; Al-Zaytoonah University of Jordan College of Pharmacy*).
29. 2019, April 21st (*External Examiner*) "Synthesis and Anticancer Activity of Novel Pyridoquinoxaline Derivatives" (M. Sc. Student: *Alaa Saeed Tabaza; The University of Jordan College of Pharmacy*)
30. 2019, March 11th (*Internal Examiner*) "Synthesis and Evaluation of Curcumin-loaded Polyphenol Nanoparticles as a Potential Anti-cancer Nanomedicine" (M. Sc. Student: *Tahany "Mohammad Tayseer" Ahmad Al Debsi; Al-Zaytoonah University of Jordan College of Pharmacy*).
31. 2018, June, 6th (*External Examiner*) "Molecular Modeling and Screening of AcrAB-TolC Efflux Pump Inhibitors of *Escherichia coli*" (M. Sc. Student: *Ala'a Rae'd Al-Dajani; University of Petra Faculty of Pharmacy and Medical Sciences*)



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32. 2017, December 14th (*External Examiner*) "Synthesis, Characterization, and Antimicrobial Evaluation of New Substituted 1*H*-Indole-2-Carboxamide Derivatives" (M. Sc. Student: *Alaa Mahmoud Al-Shamaileh; The University of Jordan Chemistry Department*)
33. 2017, April 26th (*External Examiner*) "Towards The Discovery of New Inhibitors Against The Highly Conserved Protein Polyphosphate Kinase (PPK1) Followed by Validation Against Relevant Bacterial Species" (M. Sc. Student: *Rasha Mohammad Bashatwah; The University of Jordan College of Pharmacy*)
34. 2016, August 31st (*Internal Examiner*) " Design, Synthesis, and *in vivo* Biological Evaluation of Novel Benzimidazole-2-carboxamide Derivatives as Antihyperlipidemic Agents" (M. Sc. Student: *Hanin Mohammad K. Kallosh; Al-Zaytoonah University of Jordan College of Pharmacy*)
35. 2016, July 18th (*Internal Examiner*) "Influence of Polymer Type and Its Molecular Weight on the Release of Quercetin from Polymeric Micelles" (M. Sc. Student: *Aya Sadat Taha Alsadi; Al-Zaytoonah University of Jordan College of Pharmacy*)
36. 2016, January 20th (*Internal Examiner*) "Fluorinated Benzamides: Design, Synthesis and Biological Evaluation as Potential CETP Inhibitors" (M. Sc. Student: *Sarah Mohammad Ahmad Al-Rawashdeh; Al-Zaytoonah University of Jordan College of Pharmacy*)
37. 2016, January 18th (*Internal Examiner*) "Synthesis and Antihyperlipidemic Properties of Novel *N*-(4-Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives" (M. Sc. Student: *Nisreen Nazmi Haj Ahmad; Al-Zaytoonah University of Jordan College of Pharmacy*)
38. 2015, December 31st (*Internal Examiner*) "Synthesis and Biological Evaluation of Novel 5-Bromo Indole-2-Carboxamide Derivatives" (M. Sc. Student: *Amneh Mahmoud Abu Al-Inin; Al-Zaytoonah University of Jordan College of Pharmacy*)
39. 2015, May 21st (*Internal Examiner*) "Synthesis and Biological Evaluation of Substituted Fluorinated Alkyloxy Benzenamide as Potential CETP inhibitors" (M. Sc. Student: *Hamada Mansour Abd El-Aal Abd El-Aziz; Al-Zaytoonah University of Jordan College of Pharmacy*)
40. 2013, August 18th (*Internal Examiner*) "Design, Synthesis, and Biological Evaluation of a New Series of Potential CETP Inhibitors" (M. Sc. Student: *Mohamed Galal Saad El Hendy; Al-Zaytoonah University of Jordan College of Pharmacy*)



41. 2013, October 10th (*Internal Examiner*) "Design, Synthesis, and Biological Evaluation of a New Series of Potential DPP IV Inhibitors" (M. Sc. Student: Zainab Jarekji; *Al-Zaytoonah University of Jordan College of Pharmacy*)

- ***Supervision of Undergraduate Students:***

1. B. Sc. Students: *Hakam M. Al Aqabani & Ikhlas Altaweel*, Molecular Docking Studies on Epidermal Growth Factor Receptor (EGFR), 2016.

Hakam & Ikhlas achieved the Second Place in Splendor of Pharmacists (SOP) Competition- Medicinal Chemistry (Structure-Based Drug Design) Section.

- ***Auditor of Internal Defense Performance***

1. 2022, May 30th (Observer) "Economic Modeling For Jordan of the Cost-Efficiency and Associated Expanded Treatment Access of Conversion to Rituximab Biosimilar from Reference Rituximab" (M. Sc. Student: Hala Hisham Abu Halawa; *Al-Zaytoonah University of Jordan College of Pharmacy*)
2. 2022, August 24th (Observer) "Development of Optimization of Antimicrobial Nanoemulsion-Loaded into Two Bigels: A Comparative Study" (M. Sc. Student: Ola Abu Al-Ata; *Al-Zaytoonah University of Jordan College of Pharmacy*)
3. 2022, August 30th (Observer) "An Intelligent Detection Approach for Drug Abuse in Arabic Social Media Posts" (M. Sc. Student: Amani AbdelQader; *Al-Zaytoonah University of Jordan College of Science & Information Technology- Department of Computer Science*)
4. 2022, November 14th (Observer) "Mindfulness and its Effect on Quality of Life among Tuberculosis Patients in Jordan" (M. Sc. Student: Hadeel Abdullah Al-Hawatemeh; *Al-Zaytoonah University of Jordan College of Nursing*)

11. Grants

1. Exploring the Network Pharmacology of Cholesteryl Ester Transfer Protein (CETP) Inhibitors to Identify Novel Therapeutic Indication for Drug Repurposing Efforts, 2023-2025, Al-Zaytoonah University of Jordan, the Deanship of Scientific Research, 15,000 JD.

Rima Hajjo, Reema Abu Khalaf, Dima A. Sabbah



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2. Design, Synthesis, and Biological Evaluation of Novel Monoamine Oxidase-A Inhibitors Targeting Lung Cancer Followed by Investigation of the Molecular Mechanisms using Mass Spectrometry-based Metabolomics and IR-Microspectroscopy, 2020-2022, Abdul Hameed Shoman Foundation, 20,000 JD.

Sanaa K. Bardaweel, Lina Dahabiyeh, Dima A. Sabbah

3. Design, Synthesis, and Biological Evaluation of CETP and PI3K α Inhibitors, 2020-2021, Al-Zaytoonah University of Jordan, the Deanship of Scientific Research, 24,000 JD.

Reema Abu Khalaf & Dima A. Sabbah

4. The Development, Application, and Experimental Validation of an Integrative Informatics Methodology to Identify Biomarkers, Pharmacological Targets and Pharmacotherapy for COVID-19, 2020-2022, Al-Zaytoonah University of Jordan, the Deanship of Scientific Research, 55,000 JD.

Rima Hajjo & Dima A. Sabbah

5. Design, Synthesis, and Biological Evaluation of Novel Monoamine Oxidase-A Inhibitors Targeting Lung Cancer, 2020-2022, King Abdullah II Fund for Development, 15,000 JD.

Sanaa K. Bardaweel, Dima A. Sabbah, Lina Dahabiyeh

6. Design, Synthesis, and Biological Evaluation of PI3K α and EGFR Inhibitors Targeting Colon and Breast Cancer, 2018-2020, Scientific Research Support Fund, The Higher Education Ministry of Jordan, 56,445 JD. And, Al-Zaytoonah University of Jordan, the Deanship of Scientific Research, 20,000 JD.

Dima A. Sabbah, Sanaa K. Bardaweel, Kamal Sweidan, Reema Abu Khalaf, Eveen Al-Shalabi, Ghassan Abu Sheikha, Tariq Al Qirim



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7. Design, Synthesis, and Biological Evaluation of a New Series of CETP Inhibitors, 2017-2019, Al-Zaytoonah University of Jordan, the Deanship of Scientific Research, 40,000 JD.

Reema Abu Khalaf, Dima A. Sabbah, Eveen Al-Shalabi, Ghassan Abu Sheikh

8. Design, Synthesis, and Biological Evaluation of PI3Ks Inhibitors, 2014-2016, the Deanship of Scientific Research, Al-Zaytoonah University of Jordan, 108,000 JD.

Dima A. Sabbah, Ghassan Abu Sheikha, Tariq Al-Qirim, Reema Abu Khalaf

9. 3-Benzylamino-Benzamides: Design, Synthesis, and Biological Evaluation as Novel CETP Inhibitors, 2015-2016, the Deanship of Scientific Research, Al-Zaytoonah University of Jordan, 38,100 JD.

Reema Abu Khalaf, Ghassan Abu Sheikh, Dima A. Sabbah, Eveen Al-Shalabi

10. Synthesis, Characterization and Biological Evaluation for some PI3Ks Inhibitors, 2013-2015, Hamdi Mango Center for Scientific Research, The University of Jordan, 5000 JD.

Kamal Sweidan, Ghassan Abu Sheikh, Dima A. Sabbah

11. Membership of Committees

- 2022, Scientific Committee Member of the First AAU International Conference on Pharmacy & Biomedical Sciences, Al-Ain University, Abu-Dhabi.
- 2022, Al-Zaytoonah University, College of Pharmacy, Faculty Board Committee Member
- 2022, Al-Zaytoonah University, College of Pharmacy, the Chair of the Promotion Evaluation Committee.
- 2021, Al-Zaytoonah University, College of Pharmacy, Promotion Evaluation Committee Member.
- 2019-now Al-Zaytoonah University, College of Pharmacy, Post-Graduate Studies Committee.
- 2019-2020, Al-Zaytoonah University, College of Pharmacy, Pharmacy Curriculum Plan Committee.
- 2014-2015, 2017- 2019, Al-Zaytoonah University, College of Pharmacy, the Chair of the Laboratory and Devices Committee.
- 2017-2022, Al-Zaytoonah University, College of Pharmacy, Scientific Research Committee Member.
- 2015, Al-Zaytoonah University, College of Pharmacy, Scientific Committee Member of **ZTIPC 2015** conference.



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- 2013-2014, Al-Zaytoonah University, College of Pharmacy, the Chair of the Conference Committee.

12. Professional and Scientific Meetings

1. The 1st Scientific Conference for Graduate Students (Contributions toward Excellence and Creativity) SCGS 20/23, May 3-4th 2023, Amman, Jordan. Moderator of Health and Pharmaceutical Sciences Session.
2. The First AAU International Conference on Pharmacy and Biomedical Sciences AAU-CPBS'23, January 18-19th 2023, Abu Dhabi Campus, United Arab Emirates. Oral Presentation: Design and Development of Phosphoinositide-3-Kinase (PI3K α) Inhibitors.

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3. Al-Zaytoonah 8th International Pharmaceutical Conference (ZIPC 2022) "Promising Prospects in Pharmaceutical Sciences", October 18-19th 2022, Amman, Jordan. Oral Presentation: Progress in the Design and Development of Phosphoinositide-3-Kinase (PI3K α) Inhibitors.

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4. The Jordan Pharmaceutical Students' Association (JPSA) Third National Symposium, September 17-19th 2021, Virtual Oral Presentation: Research Ethics.

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5. The University of Jordan School of Pharmacy, "Recent Updates in Pharmacy and Pharmaceutical Sciences", April 7-8th 2021, Amman, Jordan. Oral Presentation: Structure-Based Drug Design of *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as Phosphoinositide-3-Kinase (PI3K α) Inhibitors.

Dima A. Sabbah, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamien, Haizhen A. Zhong, Reema Abu Khalaf, Ameerah (Hasan Ibrahim), Tariq Al-Qirim, Ghassan Abu Sheikha, Mohammad S. Mubarak



6. RBCs Scientific Research Workshop, October 23rd 2020, Virtual Oral Presentation: Research Ethics.

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7. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) “Future of Pharmaceutical Sciences”, November 6-7th 2019, Amman, Jordan. Oral Presentation: Design and Synthesis of Phosphoinositide-3-Kinase (PI3K α) Inhibitors.

Dima A. Sabbah, Sanaa K. Bardaweel, Wamidh H. Talib, Khalid M. Alqaisi, Kamal Sweidan, Murad AlDamen, Eveen Al-Shalabi, Reema Abu Khalaf, Ghassan Abu Sheikha, Tariq Al-Qirim, Haizhen A. Zhong

8. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) “Future of Pharmaceutical Sciences”, November 6-7th 2019, Amman, Jordan. Poster Presentation: Structure-Based Design: Synthesis and Biological Evaluation of *N*-Substituted-4-Hydroxy-6-Methoxy-2-Quinolone-3-Carboxamide Derivatives as PI3K α Inhibitors.

Abdullah M. Abdullah, **Dima A. Sabbah**, Sanaa Bardaweel, Ghassan Abu Sheikha, Eveen Al-Shalabi, Kamal Sweidan, Reema Abu Khalaf, Tariq Al-Qirim

9. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) “Future of Pharmaceutical Sciences”, November 6-7th 2019, Amman, Jordan. Poster Presentation: *N*-Substituted-4-Hydroxy-8-Methoxy-2-Quinolone-3-Carboxamides: Design, Synthesis, and Biological Evaluation as PI3K α Inhibitors.

Asma A. Jumah, **Dima A. Sabbah**, Sanaa Bardaweel, Kamal Sweidan, Eveen Al-Shalabi, Reema Abu Khalaf, Ghassan Abu Sheikha, Tariq Al-Qirim

10. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) “Future of Pharmaceutical Sciences”, November 6-7th 2019, Amman, Jordan. Poster Presentation: Design, Synthesis, and Biological Evaluation of *N*-Substituted-4-



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Hydroxy-8-Methyl-2-Quinolone-3-Carboxamide Derivatives as PI3K α Inhibitors.

*Taher F. Al-Bo Aswad, **Dima A. Sabbah**, Sanaa Bardaweel, Ghassan Abu Sheikha, Kamal Sweidan, Reema Abu Khalaf, Eveen Al-Shalabi, Tariq Al-Qirim*

11. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) "Future of Pharmaceutical Sciences", November 6-7th 2019, Amman, Jordan. Poster Presentation: *N*-Substituted-4-Hydroxy-6-Nitro-2-Quinolone-3-Carboxamides: Design, Synthesis, and Biological Evaluation as PI3K α Inhibitors.

*Nisreen S. Hamadeh, **Dima A. Sabbah**, Sanaa Bardaweel, Wamidh Talib, Reema Abu Khalaf, Eveen Al-Shalabi, Kamal Sweidan, Ghassan Abu Sheikha, Tariq Al-Qirim*

12. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) "Future of Pharmaceutical Sciences", November 6-7th 2019, Amman, Jordan. Poster Presentation: *N*-Substituted-4-Hydroxy-6-Methyl-2-Quinolone-3-Carboxamides: Design, Synthesis, and Biological Evaluation as PI3K α Inhibitors.

*Shaima' E. Hasan, **Dima A. Sabbah**, Sanaa Bardaweel, Reema Abu Khalaf, Eveen Al-Shalabi, Kamal Sweidan, Ghassan Abu Sheikha, Tariq Al-Qirim*

13. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) "Future of Pharmaceutical Sciences", November 6-7th 2019, Amman, Jordan. Poster Presentation: *N*-Substituted-4-Hydroxy-6-Fluoro-2-Quinolone-3-Carboxamides: Design, Synthesis, and Biological Evaluation as PI3K α Inhibitors.

*Hla H. Samarat, **Dima A. Sabbah**, Sanaa Bardaweel, Eveen Al-Shalabi, Reema Abu Khalaf, Kamal Sweidan, Ghassan Abu Sheikha, Tariq Al-Qirim*

14. Gordon Research Conference "Stem Cells and Cancer", March 24-29th 2019, Ventura Beach Marriott, Ventura, CA United States. Poster Presentation:



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Phosphatidylinositol 3-Kinase Alpha (PI3K α) Enzyme in Cancer Progression: Design, Synthesis, and Biological Evaluation of Novel Molecules Targeting the PI3K α as Anticancer Agents.

*Ghassan Abu Sheikha, **Dima Sabbah**, Shaima' Hasan, Reema Abu Khalaf, Sanaa` Bardaweel, Kamal Sweidan, Eveen Al-Shalabi, Tariq Al-Qirim, Wamidh Talib, Haizhen A. Zhong*

15. ASU-Pharmacy Fourth Symposium "*Recent Trends in Postgraduate Research*", January 5-6th 2019, Amman, Jordan. Poster Presentation: Design, Synthesis, and Biological Evaluation of Substituted Benzoin Derivatives as Potential Antitumor Agents.

*Shaima' Emad Hasan, Ameerah Hasan Ibrahim, **Dima A. Sabbah**, Wamidh H. Talib, Khalid M. Alqaisi, Kamal Sweidan, Sanaa K. Bardaweel, Ghassan Abu Sheikha, Haizhen A. Zhong, Eveen Al-Shalabi, Reema Abu Khalaf, Mohammad S. Mubarak*

16. ASU-Pharmacy Fourth Symposium "*Recent Trends in Postgraduate Research*", January 5-6th 2019, Amman, Jordan. Oral Presentation: Structure-Based Design: Synthesis and Biological Evaluation of *N*-Substituted-4-Hydroxy-6-Nitro-2-Quinolone-3-Carboxamides as Potential PI3K α Inhibitors

*Nisreen S. Hamadeh, **Dima A. Sabbah**, Reema Abu Khalaf, Wamidh H. Talib*

17. BIT's 16th Annual Congress of International Drug Discovery Science and Technology (IDDST) "*Rethinking the Next Big Things in Pharma Innovations*". Oral presentation: Synthesis, biological evaluation and molecular modeling study of substituted benzyl benzamides as CETP inhibitors, August 16-19, 2018, Boston, USA.

*Reema Abu Khalaf, **Dima A. Sabbah**, E Al-Shalabi, S Bishtawi, G Albadawi, G Abu Sheikha*

18. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2017) "*New Horizons in Pharmaceutical Research*", November 29-30th 2017, Amman, Jordan. Oral Presentation: Pharmacophore Based-Design of Phosphoinositide-3-Kinase (PI3K α) Inhibitors.



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Dima A. Sabbah, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Haizhen A. Zhong, Reema Abu Khalaf, Ameerah (Hasan Ibrahim), Tariq Al-Qirim, Ghassan Abu Sheikha, Mohammad S. Mubarak

19. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2017) “*New Horizons in Pharmaceutical Research*”, November 29-30th 2017, Amman, Jordan. Poster Presentation: Structure-Based Design, Synthesis, and Biological Evaluation of Benzoin Schiff Bases as Potential Antitumor Agents

Fatima Al-Tarawneh, **Dima A. Sabbah**, Wamidh Talib, Kamal Sweidan, Sanaa Bardaweel, Eveen Al-Shalabi, Haizhen A. Zhong, Ghassan Abu Sheikha, Reema Abu Khalaf, Mohammad S. Mubarak

20. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2017) “*New Horizons in Pharmaceutical Research*”, November 29-30th 2017, Amman, Jordan. Poster Presentation: Ligand-Based Design: Synthesis and Optimization of Benzoin Scaffold as Phosphoinositide-3-Kinase (PI3K α) Inhibitors

Ameerah (Hasan Ibrahim), **Dima A. Sabbah**, Wamidh Talib, Kamal Sweidan, Sanaa Bardaweel, Ghassan Abu Sheikha

21. BIT's 15th Annual Congress of International Drug Discovery Science and Technology (IDDST), July 25-27th 2017, Osaka, Japan. Oral Presentation: Fluorinated Benzamides: Molecular Docking and Pharmacophore Modeling Studies Targeting CETP Inhibition

Dr. Reema Abu Khalaf*, Sarah Al-Rawashdeh, **Dima Sabbah**, Ghassan Abu Sheikha

22. ASU-Pharmacy Third Symposium "*Recent Trends in Postgraduate Research*", April 15-16th 2017, Amman, Jordan. Poster Presentation: *N*-Substituted- 4-Hydroxy-2-Quinolone-3-Carbox- amides as Potential PI3K α . The Poster is awarded the Third Place in Postgraduate Poster Competition.



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*Ameerah (Hasan Ibrahim), Bayan Hishmah, **Dima A. Sabbah**, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Reema Abu Khalaf, Haizhen A. Zhong, Tariq Al-Qirim, Ghassan Abu Sheikha*

23. Gordon Research Conference: Mammalian DNA Repair, February 19-24th 2017, Ventura, CA, USA. Poster Presentation: Structure-Based Drug Design, Synthesis, X-ray Crystallography, and Biological Evaluation of *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors.

*Ghassan Abu Sheikha, **Dima A. Sabbah**, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Haizhen A. Zhong, Ameerah (Hasan Ibrahim), Reema Abu Khalaf, Tariq Al-Qirim*

24. The University of Jordan School of Pharmacy, The 4th international Conference & the 2nd Conference of the Association of Faculties of Pharmacy at Jordanian Universities" *Excellence in Pharmacy Education & Research: A Quality Approach*", October 25-27th 2016, Amman, Jordan. Oral Presentation: Modeling The Protonation States of β -secretase Binding Pocket Employing Molecular Dynamic Simulations and Docking Studies

Dima A. Sabbah and Haizhen Zhong

25. The University of Jordan School of Pharmacy, The 4th international Conference & the 2nd Conference of the Association of Faculties of Pharmacy at Jordanian Universities" *Excellence in Pharmacy Education & Research: A Quality Approach*", October 25-27th 2016, Amman, Jordan. Poster Presentation: Structure-Based Drug Design, Synthesis, and Biological Evaluation of Benzoin Analogues as Potential PI3K α Inhibitors.

Dima A. Sabbah, Musaab Saada, Reema Abu Khalaf, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, Ghassan Abu Sheikha

26. ASU-Pharmacy Second Symposium "*Recent Trends in Postgraduate Research*", December 5-6th 2015, Amman, Jordan. Poster Presentation: Structure-Based Drug Design, Synthesis, and Biological Evaluation of Novel Benzoin Derivatives as anticancer agents



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*Musaab Saada, **Dima A. Sabbah**, Reema Abu Khalaf, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, Ghassan Abu Sheikha*

27. Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2015) “*Frontiers in the pharmaceutical sciences and pharmacy practice: A global perspective*”, October 21-23rd 2015, Amman, Jordan. Oral Presentation: From Hit to Lead: Structure-Based Drug Design, Synthesis, and Biological Evaluation of Novel Benzoin Derivatives as PI3K α Inhibitors.

***Dima A. Sabbah**, Musaab Saada, Reema Abu Khalaf, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, Ghassan Abu Sheikha*

28. Computer Aided Drug Design: New Frontiers in computer-Aided Drug Design, July 19-24th 2015, VT, USA. Poster Presentation: Design, Synthesis and Biological Evaluation of Novel PI3K Alpha Inhibitors with Potential Anti-Cancer Activity.

*Ghassan Abu Sheikha, **Dima A. Sabbah**, Reema Abu Khalaf, Tariq Al-Qirim, Sanaa Bardaweel*

29. Ligand Recognition & Molecular Gating: Structure and Dynamics of Ion Channels, G-Protein Coupled Receptors, and Solute Transporters, March 23-28th 2014, Ventura, CA. Poster Presentation: Design, Synthesis, and Biological Evaluation of a New Series of Potential CETP Inhibitors.

*Ghassan Abu Sheikha, Reema Abu Khalaf, **Dima A. Sabbah***

30. The 15th Scientific Congress of the Jordanian Pharmacists Association, April 3-5th 2014, Amman, Jordan. Oral Presentation: Structure-Based Drug Design, Synthesis, and Biological Evaluation of a Novel Scaffold for PI3K α Inhibitors.

*Bayan S. Hishmah, **Dima A. Sabbah**, Ghassan M. Abu Sheikha*



31. The 15th Scientific Congress of the Jordanian Pharmacists Association, April 3-5th 2014, Amman, Jordan. Poster Presentation: Ligand-Based Drug Design: Pharmacophore Model and Database Search of Novel PI3K α Inhibitors.
Dima A. Sabbah, Neka A. Simms, Wang Wang, Yuxiang Dong, Edward L. Ezell, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong
32. The Bioinformatics Symposium, March 4th 2014, Zarqa University, Amman, Jordan. Oral Presentation: Structure-Based Drug Design: Molecular Docking Studies of Phosphoinositide-3-Kinases.
Dima A. Sabbah, Jonathan L. Vennerstrom, and Haizhen Zhong
33. The Cancer Symposium Day, May 15th 2013, Al-Zaytoonah University of Jordan, Amman, Jordan. Oral Presentation: *N*-Phenyl-4-hydroxy-2-quinolone-3-carboxamides as selective inhibitors of mutant H1047R PI3K α .
Dima A. Sabbah, Neka A. Simms, Wang Wang, Yuxiang Dong, Edward L. Ezell, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong
34. The 47th ACS Midwest Regional Meeting, October 24-27th 2012, Omaha, NE. Poster Presentation: Binding selectivity studies of phosphoinositide 3-kinases using free energy calculations.
Dima A. Sabbah, Jonathan L. Vennerstrom, Haizhen A. Zhong
35. The 44th annual PGSRM, June 7-9th 2012, University of Nebraska Medical Center, Omaha, NE. Poster Presentation: Structure-based drug design, synthesis, and biological evaluation of a novel scaffold for PI3k α inhibitors.
Dima A. Sabbah, Neka A. Simms, Wang Wang, Yuxiang Dong, Edward L. Ezell, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong
36. The Nebraska Academy of Sciences, April 20th 2012, Lincoln, NE. Oral Presentation: Synthesis, biological evaluation, and molecular docking studies of novel phosphoinositide-3-kinase (PI3k α) inhibitors.



Dima A. Sabbah, Neka A. Simms, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong

37. ACS Denver National Meeting, August 28 – September 1st 2011, Denver, CO. Poster Presentation: Investigation of phosphoinositide 3-kinases binding pocket using mm-pbsa.

Dima A. Sabbah, Jonathan L. Vennerstrom, Haizhen A. Zhong

38. TeraGrid '11, July 18-21st 2011, Salt Lake City, Utah. Poster Presentation: Modeling of PI3K using Molecular Dynamic Simulations on UNL Cluster.

Dima A. Sabbah, Jonathan L. Vennerstrom, Haizhen A. Zhong

39. The Nebraska Academy of Sciences, April 15th 2011, Lincoln, NE. Oral Presentation: Determination of β -secretase binding site charge employing MD simulation and molecular docking.

Dima A. Sabbah, Jonathan L. Vennerstrom, Haizhen A. Zhong

40. ACS Anaheim National Meeting, March 27-30th 2011, Anaheim, CA. Poster Presentation: Discovery of Novel Inhibitors of Phosphoinositide-3-Kinases.

Dima A. Sabbah, Neka A. Simms, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong

41. The 45th Midwest Regional Meeting of the ACS, October 27-30th 2010, Wichita, KS. Poster Presentation: Pharmacophore Model, Database Search, Docking Study and Biological Assays for Novel PI3K α Inhibitors.

Dima A. Sabbah, Neka A. Simms, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong

42. AAPS Graduate Student Symposium in Drug Design and Discovery, November 8-12th 2009, Los Angeles, CA. Oral and Poster Presentations: Selectivity Studies of PI3K Inhibitors by Molecular Docking. This work is honored by the AAPS. "Graduate Student Symposium Award in Drug Design & Discovery"



***Dima A. Sabbah**, Jonathan L. Vennerstrom, Haizhen Zhong*

43. The Nebraska Academy of Sciences, April 17th 2009, Lincoln, NE. Oral Presentation: Homology Modeling and Docking Studies of PI3K α/γ .

***Dima A. Sabbah**, Jonathan L. Vennerstrom, Haizhen Zhong*

44. The 43rd ACS Midwest Regional Meeting, October 8-11th 2008, Kearney, NE. Oral Presentation: Computational Studies and Inhibitors Design of PI3K α .

***Dima A. Sabbah**, Jonathan L. Vennerstrom, Haizhen Zhong*

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

- May 15, 2013, Organizer of One Day Symposium on Cancer, entitled "Cancer: Causes, Diagnosis, and Treatment".

14. Journal peer reviewer

- Applied Sciences
- Applied Microbiology and Biotechnology
- Archiv der Pharmazie
- Analytical Chemistry Letters
- Anti-Cancer Agents in Medicinal Chemistry
- Bioorganic Medicinal Chemistry Letter
- Bioorganic Chemistry
- Bentham Medicinal Chemistry
- Cancers
- Current Topics in Medicinal Chemistry
- Diagnostics
- European Journal of Medicinal Chemistry
- Genetic Engineering and Biotechnology
- Healthcare
- International Journal of Computational Biology and Drug Design



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- International Journal of Molecular Sciences
- Journal of Liquid Chromatography & Related Technologies
- Jordan Journal of Pharmaceutical Sciences
- Journal of Molecular Graphics and Modelling
- Journal of Multidisciplinary Healthcare
- Medicinal Chemistry Research
- Mini-Reviews in Medicinal Chemistry
- Molecules
- Molecular Diversity
- Military Medical Research
- Pathogens
- Pharmaceuticals
- Pharmacological Reports
- PLOS One
- Research & Reviews: Journal of Pharmaceutical Quality Assurance
- Research on Chemical Intermediates
- SAR and QSAR in Environmental Research
- Scientific Reports
- Uttar Pradesh Journal of Zoology
- Vaccines

15. Research proposal peer reviewer

- The Jordanian Scientific Research Support Fund Organization (5 proposals).
- Umm Al-Qura University Deanship of Scientific Research, Saudi Arabia (4 proposals).
- Lebanese American University Deanship of Scientific Research, Lebanon (1 proposal).

**16. Promotion material peer reviewer**

- February 2022, Promotion committee member for reviewing and evaluating the academic research work of a candidate faculty as a requirement for promotion purpose from assistant to associate rank.

17. Training workshops

- Modern Teaching Strategies, Al-Zaytoonah University Accreditation and Quality Assurance Office, February 14-16th 2017.
- Application of E-Learning and National Qualification Framework (NQF), Al-Zaytoonah University Accreditation and Quality Assurance Office, February 23-25th 2021.

18. Patents

Al Hanbali, Othman; Al-Shukri, Salah; Al-Matubsi, Hisham; Bataineh, Yazan; Dardas, Abdel Khaleq; Bakkour, Youssef; Alozizi, Abdelelah; Qannan, Aiman; Kamil, Lana; AlQadi, Tariq; Saleh, Maysoon; **Sabbah, Dima A.** "Formulations for Baby Animals." **Patent number:** 2017203330. Issue Date: June 27th 2019.

19. Publications**A. Articles:**

1. **Sabbah, D. A.**, Hajjo, R., Sunoqrot, S. A Critical Assessment of COVID-19 Genomic Vaccines. *Curr. Top. Med. Chem.* **2023**, Accepted.
2. Hajjo, R., Momani E., **Sabbah, D. A.**, Baker N., Tropsha A. Identifying a Casual Link between Prolactin Signaling Pathways and COVID-19 Vaccine-Induced Menstrual Changes. *NPJ Vaccines*, **2023**, Accepted.
3. Almomani E., Hajjo, R., Qablan A., **Sabbah, D. A.**, Almomani A. A cross-Sectional Study Confirms Temporary Post-COVID-19 Vaccine Menstrual Irregularity and the Associated Physiological Changes among Vaccinated Women in Jordan. *Front. Med.*, **2023**, Accepted.



4. Abu Khalaf, R., Abu Saaad A., Al-Nawaiseh B., **Sabbah, D.**, Albadawi, G. Synthesis, Molecular Modeling and Biological Evaluation of Novel Trifluoromethyl Benzamides as Promising CETP Inhibitors. *Curr. Comput. Aided Drug Des.* **2023**, Accepted.
5. Hajjo, R., **Sabbah, D. A.**, Abusara, O. H., Kharmah R., Bardaweel, S. Targeting Human Proteins for Antiviral Drug Discovery and Repurposing Efforts: A Focus on Protein Kinases. *Viruses*, **2023**, 15, 568.
6. Abu Khalaf, R., **Sabbah, D.**, Al-Shalabi, E., Ikhmais, B., Naser, W., Albadawi, G. Fluorinated Benzyloxalamides: Glide Docking, Pharmacophore Mapping, Synthesis and In Vitro Evaluation as Potential Cholesteryl Ester Transfer Protein Inhibitors. *Indian J. Pharm. Sci.* **2022**, 84, 1476.
7. Hajjo, R., **Sabbah, D. A.**, Abusara, O. H., Al Bawab, A. Q. A Review of the Recent Advances in Alzheimer's Disease Research and the Utilization of Network Biology Approaches for Prioritizing Diagnostics and Therapeutics. *Diagnostics*, **2022**, 12, 2975
8. Abu Khalaf, R., NasrAllah, A., Jarrar, W., **Sabbah, D. A.** Cholesteryl ester transfer protein inhibitory oxoacetamido-benzamide derivatives: Glide docking, pharmacophore mapping, and synthesis. *Braz. J. Pharm. Sci.* **2022**; 58: e20028
9. Sunoqrot S., Aliyeh S., Abusulieh S., **Sabbah D.** Vitamin E TPGS-Poloxamer Nanoparticles Entrapping a Novel PI3K α Inhibitor Potentiate Its Activity against Breast Cancer Cell Lines. *Pharmaceutics*, **2022**, 14(9):1977.



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10. Abu Khalaf, R., Shayah, H., **Sabbah, D. A.** Trifluoromethylated aryl sulfonamides as novel CETP inhibitors: Synthesis, induced fit docking, pharmacophore mapping and subsequent in vitro validation. *Med. Chem.* **2022**, Accepted.
11. Hajjo, R., **Sabbah, D. A.**, Al Bawab, A. Q. Unlocking the Potential of the Human Microbiome for Identifying Disease Diagnostic Biomarkers. *Diagnostics*, **2022**, 12(7):1742.
12. Sweidan, K., Elfadel, H., **Sabbah, D. A.**, Bardaweel, S. K., Hajjo, R., Anjum, S., Sinoj, J., Nair, V. A., Abu-Gharbieh, E., El-Huneidi, W. Novel Derivatives of 4,6-Dihydroxy-2-Quinolone-3-Carboxamides as Potential PI3K α . *ChemistrySelect* **2022**, 7, e202202263.
13. Hajjo, R., **Sabbah, D. A.**, Tropsha A. Analyzing the Systems Biology Effects of COVID-19 mRNA Vaccines to Assess Their Safety and Putative Side Effects. *Pathogens*, **2022**, 11(7):743.
14. Bardaweel, S. K., Aljanabi, R., **Sabbah, D. A.**, Sweidan, K. Design, Synthesis, and Biological Evaluation of Novel MAO-A Inhibitors Targeting Lung Cancer. *Molecules* **2022**, 27(9), 2887.
15. Al-Zuheiri, A.M.K, Sweidan, K. Harb, M. K., Bardaweel, S. K., Sunjuk, M., **Sabbah, D. A.** Synthesis, characterization and biological screening of new *n*-substituted -7-chloro-4-hydroxy-2-quinolone -3-carboxamides as promising anticancer agents. *Heterocycles* **2022**, Accepted.
16. **Sabbah, D. A.**, Samarat, H.H., Al-Shalabi, E., Bardaweel, S. K., Hajjo, R., Sweidan, K., Abu Khalaf, R., Al-Zuheiri, A. M., Abushaikha, G. Design, Synthesis, and Biological Examination of *N*-Phenyl-6-fluoro-4-hydroxy-2-quinolone-3-carboxamides as Anticancer Agents. *ChemistrySelect* **2022**, 7, e202200662.



17. Abu Arqoub, D., Mahmoud, N. N., Zaza, R., Abu Dahab, R. Khalil, E. A., **Sabbah, D. A.** The In Vitro Immunomodulatory Effects of Gold Nanocomplex on THP-1-Derived Macrophages. *J. Immunol. Res.* **2022**, 2022, ID 6031776
18. Abu Khalaf, R., Alqazaqi, S., Aburezeq, M., **Sabbah D.**, Albadawi, G., Abu Sheikha, G. Phenanthridine Sulfonamide Derivatives as Potential DPP-IV Inhibitors: Design, Synthesis and Biological Evaluation. *Curr. Comput. Aided Drug Des.* **2022**, 18, 9-25.
19. Abu Khalaf, R., Awad, M., Al-Essa, L., Mefleh, S., **Sabbah, D.**, Al-Shalabi, E., Shabeeb, I. Discovery, synthesis and in combo studies of Schiff's bases as promising dipeptidyl peptidase-IV inhibitors. *Mol. Divers.* **2022**, 26, 1213-1225.
20. Abu Khalaf, R., Awad, M., Al-Qirim, T., **Sabbah D.** Synthesis and Molecular Modeling of Novel 3,5-Bis(trifluoromethyl)benzylamino Benzamides as Potential CETP Inhibitors. *Med. Chem.* **2022**, 18, 4, 417-426.
21. Hajjo, R., **Sabbah, D.A.**, Bardaweel, S. K., Tropsha, A. Shedding the Light on Post-vaccine Myocarditis and Pericarditis in COVID-19 and non-COVID-19 Vaccine Recipients. *Vaccines* **2021**, 9, 1186.
22. **Sabbah, D. A.**, Hajjo, R., Sweidan, K., Zhong, H. A. An Integrative Informatics Approach to Explain the Mechanism of Action of Novel N1-(Anthraquinon-2-yl) Amidrazones as BCR/ABL Inhibitors. *Curr. Comput. Aided Drug Des.* **2021**, 17 (6), 817-830.



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23. Aljanabi, R.; Alsous, L.; **Sabbah, D. A.**; Gul, H. I.; Gul, M.; Bardaweel, S. K. Monoamine Oxidase (MAO) as a Potential Target for Anticancer Drug Design and Development. *Molecules* **2021**, *26* (19), 6019.
24. **Sabbah, D. A.**, Hajjo, R., Bardaweel, S.K., Zhong, H. A. Phosphatidylinositol 3-kinase (PI3K) inhibitors: a recent update on inhibitor design and clinical trials (2016-2020). *Expert Opin. Ther. Pat.* **2021**, *31*, 10, 877-892.
25. Hajjo, R., **Sabbah, D. A.**, Bardaweel, S. K., Tropsha, A. Identification of Tumor-specific MRI Biomarkers Using Machine Learning (ML). *Diagnostics* **2021**, *11*, 742.
26. Bader, A., Bkhaitan, M.M., Abdalla A.N., Abdallah, Q. M. A., Ali, H. I., **Sabbah, D. A.**, Albadawi, G., Abu Sheikha, G. Design and Synthesis of 4-O-Podophyllotoxin Sulfamate Derivatives as Potential Cytotoxic Agents. *Evid.-Based Complementary Altern. Med.* **2021**, ID 6672807.
27. **Sabbah, D. A.**, Hajjo, R., Bardaweel, S.K., Zhong, H. A. An Updated Review on *Betacoronavirus* Viral Entry Inhibitors: Learning from Past Discoveries to Advance COVID-19 Drug Discovery. *Curr. Top. Med. Chem.* **2021**, *21* (7), 571-596.
28. **Sabbah, D. A.**, Hajjo, R., Bardaweel, S.K., Zhong, H. A. An Updated Review on SARS-CoV-2 Main Proteinase (MPro): Protein Structure and Small-Molecule Inhibitors. *Curr. Top. Med. Chem.* **2021**, *21* (6), 442-460.
29. **Sabbah, D. A.**, Haroon R. A., Bardaweel, S.K., Hajjo, R., Sweidan, K. *N*-phenyl-6-chloro-4-hydroxy-2-quinolone-3-carboxamides: Molecular



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