

CURRICULUM VITAE

Dima Azzam Sabbah

Pharmacy Department, Faculty of Pharmacy

Al-Zaytoonah University of Jordan, Amman, Jordan

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1. Personal Data

Date of Birth: April 24th 1973

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 PI3K α* , University of Nebraska Medical Center, College of Pharmacy, Omaha, Nebraska, USA

4. M.S. Thesis

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



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5. Employment

Academic Positions

- 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

- 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*"



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- 2016 Second Place in Splendor of Pharmacists (SOP) Competition- Medicinal Chemistry (Structure-Based Drug Design)
- 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
 - Pharmaceutical Analytical Chemistry
 - Pharmaceutical Organic Chemistry Lab
 - Medicinal Chemistry Lab



10. Supervision of Graduate Research

1. M. Sc. Student: *Rawan Amer Haroon*, Chlorinated Derivatives of *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors, 2019-2020.
2. 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.
3. 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.
4. 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.
5. M. Sc. Student: *Bara'a Ahmad Al-Azaideh*, Design, Synthesis, and Biological Evaluation of Benzophenone Hydrazone Derivatives as PI3K α Inhibitors, 2018-2019.
6. 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.
7. 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.
8. M. Sc. Student: *Nisreen Shaban Hamadeh*, Optimization of 4-Hydroxy-2-Quinolone-3-Carboxamide Core Nucleus Targeting PI3K α Inhibition, 2016-2017.
9. M. Sc. Student: *Ameerah Saeed Ibrahim*, Optimization and Synthesis of Benzoin Derivatives as PI3K α Inhibitors, 2015-2016.
10. M. Sc. Student: *Fatmeh Mahmoud Tarawneh*, Design, Synthesis, and Biological Evaluation of Benzoin Schiff Bases as Antitumor Agents, 2015-2016.
11. M. Sc. Student: *Dalal Yousef Masalha*, Phenanthridines: Design, Synthesis, and Biological Evaluation as Potential DPP-IV Inhibitors, 2015-2016.
12. M. Sc. Student: *Bayan Salah Hishmah*, Design, Synthesis, and Biological Evaluation of Novel PI3K alpha Inhibitors, 2013-2014.



13. M. Sc. Student: *Musaab Mahmoud Saada*, Pharmacophore-Based Screening and Identification of Novel Phosphoinositide 3-kinase (PI3K α) Inhibitors, 2013-2014.

- ***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: *Anneh 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. 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*).
2. 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*)
3. 2019, March 11th (*Internal Examiner*) "Synthesis and Evaluation of Curcumin-loaded Polyphenol Nanoparticles as a Potential Anti-cancer Nanomedicine" (M.



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Sc. Student: *Tahany "Mohammad Tayseer" Ahmad Al Debsi; Al-Zaytoonah University of Jordan College of Pharmacy).*

4. 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*)
5. 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*)
6. 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*)
7. 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*)
8. 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*)
9. 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*)
10. 2016, April 25th (*Advisor*) Phenanthridines: Design, Synthesis, and Biological Evaluation as Potential DPP-IV Inhibitors (M. Sc. Student: *Dalal Yousef Masalha; Al-Zaytoonah University of Jordan College of Pharmacy*)
11. 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*)
12. 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*)



13. 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*)
14. 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*)
15. 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.

11. Grants

1. 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*

2. 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



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3. 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

4. 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

5. 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**

12. Membership of Committees

- 2014-2015, 2017- now, the Chair of the Laboratory and Devices Committee.
- 2017-now, Scientific Research Committee Member.
- 2015, Scientific Committee Member of **ZTIPC 2015** conference.
- 2013-2014, the Chair of the Conference Committee.

13. Professional and Scientific Meetings

1. 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

2. 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



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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*

- 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*

- 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-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*

- 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*

- Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2019) "Future of Pharmaceutical Sciences",



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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

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. 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

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

9. 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

10. ASU-Pharmacy Fourth Symposium "Recent Trends in Postgraduate Research", January 5-6th 2019, Amman, Jordan. Oral Presentation: Structure-Based Design:



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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

11. 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

12. 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.

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

13. 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

14. 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:



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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*

15. 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*

16. 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*.

*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*

17. 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*

18. 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

19. 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

20. 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

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

21. 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

22. 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.



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

23. Ligand Recognition & Molecular Gating: Structure and Dynamics of Ion Channels, G-Protein Coupled Receptors, and Solute Transporters, March 23-28th2014, 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

24. 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

25. 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

26. 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

27. 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



28. 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

29. 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 PI3 α inhibitors.

Dima A. Sabbah, Neka A. Simms, Wang Wang, Yuxiang Dong, Edward L. Ezell, Michael G. Brattain, Jonathan L. Vennerstrom, Haizhen A. Zhong

30. The Nebraska Academy of Sciences, April 20th 2012, Lincoln, NE. Oral Presentation: Synthesis, biological evaluation, and molecular docking studies of novel phosphoinositide-3-kinase (PI3 α) inhibitors.

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

31. 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

32. 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

33. 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



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34. 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*

35. 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*

36. 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*

37. 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*

38. 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*

14. 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".

**15. Journal peer reviewer**

- Bioorganic Medicinal Chemistry Letter
- Bentham Medicinal Chemistry
- European Journal of Medicinal Chemistry
- *Current Topics in Medicinal Chemistry*
- Research & Reviews: Journal of Pharmaceutical Quality Assurance
- Jordan Journal of Pharmaceutical Sciences
- Anti-Cancer Agents in Medicinal Chemistry
- Research on Chemical Intermediates
- International Journal of Computational Biology and Drug Design
- Journal of Liquid Chromatography & Related Technologies
- International Journal of Computational Biology and Drug Design
- Mini-Reviews in Medicinal Chemistry
- SAR and QSAR in Environmental Research
- *Journal of Molecular Graphics and Modelling*
- Medicinal Chemistry Research

16. Research proposal peer reviewer

- The Jordanian Scientific Research Support Fund Organization.
- Umm Al-Qura University Deanship of Scientific Research, Saudi Arabia.

17. Training workshops

- Modern Teaching Strategies, Al-Zaytoonah University Accreditation and Quality Assurance Office, February 14-16th 2017.



18. Publications

A. Articles:

1. **Sabbah, D. A.**, Hajjo, R., Sweidan, K. Review on Epidermal Growth Factor Receptor (EGFR) Structure, Signaling Pathways, Interactions, and Recent Updates of EGFR Inhibitors. *Curr. Top. Med. Chem.* **2019**, Accepted.
2. Mahmoud, N. N., **Sabbah, D. A.**, Abu Dahab, R. M., Abu Arqoub, D., Rashed M., Ibrahim, A. H., Khalil, E. A. Cholesterol-Coated Gold Nanorods as an Efficient Nano-Carrier for Chemotherapeutic Delivery and Potential Treatment of Breast Cancer: In Vitro Studies Using MCF-7 Cell Line. *RSC Adv.* **2019**, 9, 12718-12731.
3. Hamadneh, L.A., **Sabbah, D. A.**, Hikmat, S. J., Al-Samad, L., Hasan, M., Al-Qirim, T.M., Hamadneh, I. M., Al-Dujaili, A. H. Hypolipidemic effect of novel 2,5-bis(4-hydroxy benzylidenamino)-1,3,4-thiadiazole as potential peroxisome proliferation-activated receptor- α agonist in acute hyperlipidemic rat model. *Mol. Cell. Biochem.* **2019**; 458 (1-2): 39-47.
4. Islam, M. T., Biswas, S., Bagchi, R., Khan, R. Md., Khalipha, A.B.R., Rouf, R., Jamal Uddin, S., Shilpi. J. A., Bardaweel, S. K., **Sabbah, D. A.**, Mubarak, M. S. Ponocidin as a promising anticancer agent: Its biological and biopharmaceutical profile along with a molecular docking study. *Biotechnol. Appl. Biochem.* **2019**; 66(3): 434-444.
5. **Sabbah, D. A.**, Hasan Ibrahim, A., Talib, W. H., Alqaisi K. M., Sweidan, K., Bardaweel, S., Abu Sheikha, G., Zhong, H. A., Al-Shalabi E., Abu Khalaf, R., Mubarak, M.S. Ligand-Based Drug Design: Synthesis and Biological Evaluation of Substituted Benzoin Derivatives as Potential Antitumor Agents. *Med. Chem.* **2019**; 15, 417-429.



6. Rezki, N., Al-Sodies, S.A., Bardaweel, S.K., **Sabbah, D. A.**, Al-Blewi, F.F., Messali, M., Aouad M. R. Novel Amphiphilic Pyridinium Ionic Liquids-Supported Schiff Bases. Ultrasound Assisted Synthesis, Molecular Docking and Anticancer Evaluation. *Chem. Cent J.* **2018**; 12, 118-36.
7. Sweidan, K., Zalloum, H., **Sabbah, D. A.**, Idris G., Abudosh, K., Mubarak, M.M. Synthesis, characterization, and anticancer evaluation of some new N1-(anthraquinon-2-yl) amidrazone derivatives. *Can. J. Chem.* **2018**, 96, 1123-1128.
8. Khan, H., **Sabbah, D. A.**, Zafar, M., Mubarak, M.S. Molecular Modeling Studies of Coruscanone (A) Core Nucleus as Potential Antifungal Agents. *Life Sci.*, **2018**, 209, 332-340.
9. **Sabbah, D. A.**, Al-Tarawneh, F., Talib, W., Sweidan, K., Bardaweel, S., Al-Shalabi, E., Zhong, H.A., Abu Sheikha, G., Abu Khalaf, R., Mubarak, M.S. Benzoin Schiff Bases: Design, Synthesis, and Biological Evaluation as Potential Antitumor Agents. *Med. Chem.* **2018**, 14, 695-708.
10. Al-Qtaitat, M. A., El-Abadelah, M. M., **Sabbah, D. A.**, Bardaweel, S., Sweidan, K., Sabri, S. S., Mubarak, M. S. Synthesis, characterization, and bioactivity of new biamidrazone derivatives as possible anticancer agents. *Med. Chem. Res.* **2018**, 27, 1419-1431.
11. Abu Khalaf, R., **Sabbah D.**, Al-Shalabi E., Al-Sheikh, I., Albadawi G., Abu Sheikha G.; Synthesis, Structural Characterization and Docking Studies of Sulfamoyl-Phenyl Acid Esters as DPP-IV Inhibitors. *Curr. Comput. Aided Drug Des.* **2018**, 14, 142-151.
12. **Sabbah, D. A.**, Hishmah, B., Sweidan, K., Bardaweel, S., AlDamen, M., Zhong, H. A., Hasan Ibrahim, A., Abu Khalaf, R., Al-Qirim, T., Abu Sheikha, G., Mubarak, M.M. Structure-Based Drug Design: Synthesis, X-Ray Crystallography, and Biological Evaluation of N-substituted- 4-



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hydroxy-2-quinolone-3-carboxamides as Potential PI3K α Inhibitors. *Anticancer Agents Med. Chem.* **2018**, 18, 263-276.

13. Sweidan K., Elayan M., **Sabbah D.**, Idrees G., Arafat T. Study of Forced Degradation Behavior of Amisulpride by LC-MS and NMR and Development of a Stability-Indicating Method. *Curr. Pharm. Anal.* **2018**, 14, 157-165.
14. Abu Khalaf, R., **Sabbah D.**, Al-Shalabi E., Bishtawi S., Albadawi G., Abu Sheikha G. Synthesis, Biological Evaluation, and Molecular Modeling Study of Substituted Benzyl Benzamides as CETP Inhibitors. *Arch. Pharm.* **2017**, 350, e1700204
15. **Sabbah, D. A.**, Sweidan, K. Molecular Docking Studies of Novel Thiosemicarbazone-Based Indoles as Potential PI3K α Inhibitors. *Lett. Drug Des. Discov.* **2017**, 14(11): 1252-1258.
16. Arabiyat S., Kasabri V., Al-Hiari Y., Bustanji Y.K., Albashiti R., Almasri I. M., **Sabbah D. A.** Antilipase and Antiproliferative Activities of Novel Fluoroquinolones and Triazolofluoroquinolones. *Chem. Biol. Drug Des.* 2017, 90, 1282–1294.
17. Sweidan, K., **Sabbah, D. A.**, Bardaweel, S., Abu Sheikha, G., Al-Qirim, T., Salih, H., El-Abadelah, M. M., Mubarak, M. S., Voelter, W. Facile Synthesis, Characterization and Cytotoxicity Study of New 3-(Indol-2-Yl) Bicyclotetraazatridecahexaens. *Can. J. Chem.* **2017**, 95(8): 858-862.
18. Abu Khalaf, R., Abd El-Aziz H., **Sabbah D.**, Albadawi G., Abu Sheikha G. CETP Inhibitory Activity of Chlorobenzyl Benzamides: QPLD Docking, Pharmacophore Mapping, and Synthesis. *Lett. Drug Des. Discov.* **2017**, 14, 1391-1400.
19. Hikmat, S., Al-qirim T., Alkabbani, D., Shattat, G., Abu Sheikha, G., **Sabbah, D.**, Abu khalaf, R., Al-hiari, Y. Synthesis and in vivo anti-



- hyperlipidemic activity of novel *N*-benzoylphenyl-2-furamide derivatives in Wistar rats. *Trop. J. Pharm. Res.* **2017**, 16, 1, 193-201
20. Abu Khalaf, R., Al-Rawashdeh S., **Sabbah D.**, Abu Sheikha G. Molecular Docking and Pharmacophore Modeling Studies of Fluorinated Benzamides as Potential CETP Inhibitors. *Med. Chem.* **2017**, 13 (3), 239-253
21. **Sabbah, D. A.**, Zhong H. Modeling the Protonation States of β -Secretase Binding Pocket by Molecular Dynamics Simulations and Docking Studies. *J. Mol. Graph. Model.* **2016**, 68, 206-215
22. Sweidan K., **Sabbah D. A.**, Bardaweel S., Dush K. A., Sheikha G.A., Mohammad S. Mubarak. Computer-Aided Design, Synthesis, and Biological Evaluation of New Indole-2-Carboxamide Derivatives as PI3K α /EGFR Inhibitors. *J. Bioorg. Med. Chem. Lett.* **2016**, 26, 2685-2690
23. **Sabbah D. A.**, Hu J., Jian Hu, Zhong H.A. Advances in the Development of Class I Phosphoinositide 3-Kinase (PI3K) Inhibitors. *Curr. Top. Med. Chem.* **2016**, 16, 1-14.
24. **Sabbah D. A.**, Saada M., Abu Khalaf R., Bardaweel S., Sweidan K., Al-Qirim T., Al-Zughier A., Abdel Halim H., Abu Sheikha G. Molecular modeling based approach, synthesis, and cytotoxic activity of novel benzoin derivatives targeting phosphoinositide 3-kinase (PI3K α). *J. Bioorg. Med. Chem. Lett.* **2015**, 25, 3120-3124.
25. Abu Khalaf R., Jarekji Z., Al-Qirim T., **Sabbah D.**, Shattat G. Pharmacophore modeling and molecular docking studies of acridines as potential DPP-IV inhibitors. *Can. J. Chem.* **2015**, 93, 721-929.



26. Sweidan K., **Sabbah D. A.**, Engelmann J., Abdel-Halim, H., Abu Sheikha G. Computational Docking Studies of Novel Heterocyclic Carboxamides as Potential PI3K α Inhibitors. *Lett. Drug Des. Discov.* **2015**, 12, 1-8.
27. Sweidan K., Engelmann J., Abu Rayyan W., **Sabbah D.**, Abu Zarga M., Al-Qirim T., Al-Hiari Y., Abu Sheikha G., Shattat G. Synthesis and Preliminary Biological Evaluation of New Heterocyclic Carboxamide Models. *Lett. Drug Des. Discov.* **2015**, 12, 417-429.
28. **Sabbah D.A.**, Vennerstrom J.L., Zhong H. Binding Selectivity Studies of Phosphoinositide 3-Kinases Using Free Energy Calculations. *J. Chem. Inf. Model.* **2012**, 52, 3213–3224.
29. **Sabbah D.A.**, Simms N.A., Dong, Y., Ezell, E.L., Brattain M.G., Vennerstrom J.L., Zhong H. *N*-phenyl-4-hydroxy-2-quinolone-3-carboxamides as selective inhibitors of mutant H1047R phosphoinositide-3-kinase (PI3K α). *J. Bioorg. Med. Chem.* **2012**, 20, 7175-7183.
30. **Sabbah D.A.**, Simms N.A., Brattain M.G., Vennerstrom J.L., Zhong H. Biological evaluation and docking studies of recently identified inhibitors of phosphoinositide-3-kinases. *J. Bioorg. Med. Chem. Lett.* **2012**, 22, 876-880.
31. **Sabbah D.A.**, Brattain M.G., Zhong H. Dual Inhibitors of PI3K/mTOR or MTOR-Selective Inhibitors: Which way Shall We Go? *Curr. Med. Chem.* **2011**, 18, 5528-5544.
32. **Sabbah D.A.**, Vennerstrom J.L., Zhong H. Docking Studies on Isoform-Specific Inhibition of Phosphoinositide-3-Kinases. *J. Chem. Inf. Model.* **2010**, 50, 1887-1898.



B. Books:

1. Abu Khalaf, R. A., Alhusban, A. A., Al-Shalabi, E., Al-Sheikh, I., Sabbah, D. A.: **Isolation and structure elucidation of bioactive polyphenols.** In: *Studies in Natural Products Chemistry. Volume 63*, edn. Elsevier; 2019: 267-337.