Dima Azzam Sabbah

B. Pharm., M.S., Ph.D. Pharm. Sci.

Al-Zaytoonah University of Jordan, College of Pharmacy, Department of Pharmaceutical Sciences

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PROFESSIONAL EXPERIENCE

An academic position that takes the advantages of extensive experience in computational chemistry, medicinal chemistry, and drug design.

HIGHLIGHTS

- Computational Chemistry and Drug Design.
- Medicinal Chemistry.
- Pharmacy Background.
- Teaching Experience.
- Researching Experience.

PRESENT OCCUPATION

October 2012-Present***, Assistant Professor,*** **College of Pharmacy, Al- Zaytoonah University of Jordan**

- **TEACHING EXPERIENCE**
    - Medicinal Chemistry (I/II/III) and Drug Design courses for Undergraduates Pharmacy Students.
    - Advanced Medicinal Chemistry, Drug Design, Advanced Organic Chemistry, Advanced Instrumental Analysis, and Research Methodology courses for Postgraduates Master Pharmacy Students.

RESEARCH EXPERIENCE

- 2013-Present***, Modeling and Drug Design Laboratory Supervisor***.
- ***Funded Projects***:

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

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

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

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

- 2013-2015, University of Jordan, Hamdi Mango Center for Scientific (5000 JD); Project title: Synthesis, Characterization and Biological Evaluation for some PI3Ks Inhibitors.

  Kamal Sweidan, Ghassan Abu Sheikh, ***Dima A. Sabbah***

- **SUPERVISING, MENTORING EXPERIENCE, & EXAMINER**

    - ***Graduate Students:***

1. 2016-2017 (*Advisor*) "Optimization of 4-Hydroxy-2-Quinolone-3-Carboxamide Core Nucleus Targeting PI3Kα Inhibition" (M. Sc. Student: *Nisreen Shaban Hamadeh; Al-Zaytoonah University of Jordan College of Pharmacy*)

2. 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*)

3. 2015-2016 (*Molecular Modeling Mentor and Examiner*) Design, Synthesis, and *In Vivo* Biological Evaluation of Novel Benzimidazole-2-Carboxamide Derivatives As - Antihyperlipidemic Agent" (M. Sc. Student: *Hanin Mohammad K. Kalloush; Al-Zaytoonah University of Jordan College of Pharmacy*)

4. 2015-2016 (*Molecular Modeling Mentor*) Design, Synthesis, and *In Vivo* Biological Evaluation of Imidazole-5-Carboxamide Derivatives As Lipoprotein Lipase Activators" (M. Sc. Student: *Haneen Muneer Mohammad Abu Zaid; Al-Zaytoonah University of Jordan College of Pharmacy*)

5. July 18, 2016 (*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*)

6. 2015-2016 (*Advisor*) Optimization and Synthesis of Benzoin Derivatives as PI3Kα Inhibitors (M. Sc. Student: *Ameerah Saeed Ibrahim*; *Al-Zaytoonah University of Jordan College of Pharmacy*)

7. 2015-2016 (*Mentor*) Design, Synthesis, and Biological Evaluation of Benzoin Schiff Bases as Antitumor Agents (M. Sc. Student: *Fatmeh Mahmoud Tarawneh*; *Al-Zaytoonah University of Jordan College of Pharmacy*)

8. 2015-2016 (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*)

9. 2015-2016 (*Mentor* & *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. 2014-2016 (*Mentor* & *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)*

11. 2014-2016 (*Mentor* & *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)*

12. 2015 (*Mentor* & *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*)

13. 2014-2015 (*Mentor)* Synthesis and Biological Evaluation of Novel *N*-Benzoylphenyl-2-Furamide Derivatives. (M. Sc. Student: *Dania Mohammed Nazer Al kabbani; Al-Zaytoonah University of Jordan College of Pharmacy)*

14. 2013-2014 (*Advisor*) Design, Synthesis, and Biological Evaluation of Novel PI3K alpha Inhibitors. (M. Sc. Student: *Bayan Salah Hishmah; Al-Zaytoonah University of Jordan College of Pharmacy*)

15. 2013-2014 (*Advisor*) Pharmacophore-Based Screening and Identification of Novel Phosphoinositide 3-kinase (PI3Kα) Inhibitors. (M. Sc. Student: *Musaab Mahmoud Saada*; *Al-Zaytoonah University of Jordan College of Pharmacy*)

16. 2013 (*Mentor* & *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*)

17. 2013 (*Mentor* & *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*)

- ***Undergraduate Students:***

- 2016 (*Advisor*) Molecular Docking Studies on Epidermal Growth Factor Receptor (EGFR) **(***Hakam M. Al Aqabani & Ikhlas Altaweel*).

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

- **COMMITTEE EXPERIENCE:**
  - 2015-Present, The Head of the Central Research Unit.
  - 2015, Scientific Committee Member of ZTIPC 2015 conference.
  - 2014-2015, The Chair of the Laboratory and Devices Committee.
  - 2013-2014, The Chair of the Conference Committee:

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

- 2007-2012, ***Ph.D. Student and Research Assistant***, **University of Nebraska Medical Center, Omaha, NE.**
    - Homology modeling of phosphoinositide- 3- kinases (PI3Ks) using MOE software
    - Pharmacophore Generation for PI3Kα selective inhibitors using MOE software
    - Pharmacophore Search against the National Cancer Institute database using MOE software
    - Molecular Dynamic simulations for the kinase domains of PI3Ks using the AMBER 10 package
    - Calculating the binding free energies of prospective inhibitors using the MM/GBSA (molecular mechanics/ generalized born surface area) method in AMBER10
    - Recruiting the computational alanine- scanning approach to calculate the relative change in free energy of binding (ΔΔ G bind) for the alanine mutants of binding residues in the protein using MM/GBSA in AMBER10
    - Docking studies for PI3K inhibitors using MAESTRO
    - Design and Synthesis of novel PI3Kα inhibitors

- 2009-2011, **Side Project, Modeling the Protonation States of β-Secretase Binding Pocket, University of Nebraska Medical Center, Omaha, NE.**
    - Molecular Dynamic simulations for 16 models of β-secretase protein using the AMBER 10 package
    - Docking studies using Glide dock in MAESTRO

2004 - 2007, ***Lecturer***, **College of Pharmacy, Al-Zaytoonah Private University of Jordan, Amman, Jordan.**

2001-2003 ***MS Student***, **College of Pharmacy, University of Jordan, Amman, Jordan**

- Synthesis of novel nitrofuran derivatives
- Microbiological assays against bacteria, fungi, and yeast

1996 – 2004, ***Teaching Assistant***, **College of Pharmacy, AL-Zaytoonah Private University of Jordan, Amman, Jordan**

EDUCATION

2007-2012 Ph.D. in Pharmaceutical Sciences, University of Nebraska Medical Center (UNMC), NE, USA. Thesis Supervisors: Profs. Jonathan L. Vennerstrom & Haizhen Zhong. Thesis Title: Computational Studies and Inhibitors Design of PI3Kα.

2001-2003 M.S. in Pharmaceutical Sciences, University of Jordan (UJ), Amman Jordan. Thesis Supervisor: Professor Ali M. Qaisi. Thesis Title: Synthesis of Some Novel Nitrofuran Derivatives of Potential of Potential Antimicrobial Activity.

1991- 1996 Bachelor of Pharmacy, University of Jordan (UJ), Amman Jordan.
1977-1991 All School Stages, Rosary College School, Shmeisani**,** Amman Jordan.

PEER REVIEWED ABSTRACTS (<u>24</u> PUBLISHED ABSTRACTS)

1. 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,* ***<u>Dima Sabbah</u>****, Ghassan Abu Sheikha*
2. 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 PI3Kα. The Poster is awarded the <u>*Third Place in Postgraduate Poster Competition*</u>.

   Ameerah (Hasan Ibrahim), Bayan Hishmah, ***<u>Dima A. Sabbah</u>****, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Reema Abu Khalaf, Haizhen A. Zhong, Tariq Al-Qirim, Ghassan Abu Sheikha*
3. 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 PI3Kα 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*

4. 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*

5. 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 PI3Kα 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*

6. 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*

7. 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 PI3Kα 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*

8. 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*

9. 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***

10. 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 PI3Kα Inhibitors.

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

11. 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 PI3Kα Inhibitors.

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

12. 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*

13. 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 PI3Kα.

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

14. 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*

15. 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 PI3kα inhibitors.

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

16. The Nebraska Academy of Sciences, April 20th 2012, Lincoln, NE. Oral Presentation: Synthesis, biological evaluation, and molecular docking studies of novel phosphoinositide-3-kinase (PI3kα) inhibitors.

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

17. 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*

18. 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*

19. 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*

20. 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*

21. 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 PI3Kα Inhibitors.

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

22. 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*

23. The Nebraska Academy of Sciences, April 17th 2009, Lincoln, NE. Oral Presentation: Homology Modeling and Docking Studies of PI3Kα/γ.

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

24. The 43rd ACS Midwest Regional Meeting, October 8-11th 2008, Kearney, NE. Oral Presentation: Computational Studies and Inhibitors Design of PI3Kα.

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

PEER REVIEWED SCIENTIFIC ARTICLES (21 SUBMITTED/ ACCEPTED/ PUBLISHED PEER REVIEWED ARTICLES)

1. **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.M. Benzoin Schiff Bases: Design, Synthesis, and Biological Evaluation as Potential Antitumor Agents. *Submitted*

2. **Sabbah, D. A**., Hishmah, B., Sweidan, K., Bardaweel, S., AlDamen, M., Zhong, H. A., Saeed, A. M., 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-hydroxy-2-quinolone-3-carboxamides as Potential PI3Kα Inhibitors. *Anticancer Agents Med. Chem. 2017, Accepted.*

3. Sweidan K., Elayan M., **Sabbah D.**, Idrees G., Arafat T. Identification, Isolation, Characterization of the Degradation Products of Amisulpride Tablets, and Exploration of the Corresponding Degradation Pathways. *Curr***.** *Pharm***.** *Anal.* 2017, Accepted.

4. **Sabbah, D. A**., Sweidan, K. Molecular Docking Studies of Novel Thiosemicarbazone-Based Indoles as Potential PI3Kα Inhibitors. *Lett. Drug Des. Discov.* 2017, 14(11): 1252-1258.

5. 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, *Accepted*.

6. 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) Bicyclotetrazatridecahexaens. *Can. J. Chem.* 2017, 95(8): 858-862.

7. 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.

8. 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

9. 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

10. **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

11. 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 PI3Kα/EGFR Inhibitors. *J. Bioorg. Med. Chem. Lett.* 2016, 26, 2685-2690

12. **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.

13. **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 phosphoinostide 3-kinase (PI3Kα). *J. Bioorg. Med. Chem. Lett.*2015, 25, 3120-3124.

14. 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.

15. Sweidan K., **Sabbah D. A.**, Engelmann J., Abdel-Halim, H., Abu Sheikha G. Computational Docking Studies of Novel Heterocyclic Carboxamides as Potential PI3Kα Inhibitors. *Lett. Drug Des. Discov.* 2015, 12, 1-8.

16. 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.
17. **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
18. **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 (PI3Kα). *J. Bioorg. Med. Chem.*2012, 20, 7175-7183.
19. **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.
20. **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.
21. **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.

INVITED PEER REVIEWED BOOK CHAPTERS (<u>1</u> *in revision*)

1. Chapter in a book: Drug Design and Discovery Targeting Phosphatidylinositol-3-kinases. The book name is: Practical Applications in Structure-Based Drug Design book. (In revision).

EDITORIAL MEMBER

- Advances in Modern Oncology Research Journal
- Gavin Journal of Oncology Research and Therapy
- SciFed Journal of Pharmaceutical Research

JOURNAL PEER REVIEWER

- Bioorganic Medicinal Chemistry Letter
- 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

RESEARCH PROPOSAL PEER REVIEWER

- The Jordanian Scientific Research Support Fund
- Umm Al-Qura University Deanship of Scientific Research

TRAINING WORKSHOPS

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

AWARDS

- 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

GRADUATE ASSISTANTSHIPS & FELLOWSHIPS

- 2010-2012: Bukey Fellowship
- 2007-2012: Graduate Studies Research Assistantship

AFFLIATIONS

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

INFORMATION TECHNOLOGY SKILLS

- Molecular Modeling Software (MOE, MAESTRO , PYMOL and AMBER)
- MS Word, MS Excel, Power Point
- Basic Internet Skills

REFERENCES

- Professor Ghassan Abu Sheikha, Al-Zaytoonah University of Jordan, College of Pharmacy, office phone number: 0096264291511 Ext (305), email: pharmacy@zuj.edu.jo, address: P.O. Box 130 Amman 11733 Jordan
- Professor Abeer Al-Ghananeem, Sullivan University, College of Pharmacy, Cell: 502 424 9298, email: aalghananeem@sullivan.edu, address: 2100 Gardiner Lane, Louisville, KY 40205, USA
- Professor Jonathan Vennerstrom, University of Nebraska Medical Center, College of Pharmacy, office phone number: 402 559 5362, email: jvenners@unmc.edu, address: 986025 Nebraska Medical Center, Omaha, NE 68198-6025, USA
- Professor Edward Roche, University of Nebraska Medical Center, College of pharmacy, office phone number: 402 559 4645, email: eroche@unmc.edu, address: 986025 Nebraska Medical Center, Omaha, NE 68198-6025, USA
- Professor Haizhen Zhong, University of Nebraska at Omaha, Chemistry Department, office phone number: 402 554 3145, email: hzhong@unomaha.edu, address: 6001 Dodge Street, Omaha, NE 68182, USA