

## CURRICULUM VITAE

**Reema AbdelKareem Abu Khalaf**

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### 1. Personal Data

Date of Birth: 21/09/1972

Nationality: Jordanian

### 2. Education

- Ph.D. (Medicinal Chemistry & Drug Discovery) 2009, The University of Jordan, Amman, Jordan
- M.Sc. (Pharmaceutical sciences) 2002, The University of Jordan, Amman, Jordan
- B.Sc. (Pharmacy) 1994, The University of Jordan, Amman, Jordan

### 3. Ph.D. Dissertation

- *Discovery of new cholesteryl ester transfer protein (CETP) inhibitors via ligand-based pharmacophore modeling and QSAR analysis and subsequent hit optimization*, The University of Jordan, Amman, Jordan.

**4. Employment****Academic Positions**

- Associate Professor, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
November, 2014 – now
- Assistant Professor, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 2009 – November, 2014
- Lecturer, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 2003 – October, 2009
- Teaching & Research Assistant, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 1997 – October, 2003

**Administrative Positions**

- Assistant Dean for Quality Assurance, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 2011 – October, 2017

**5. Research Interests**

- Medicinal Chemistry of antihyperlipidemic, antidiabetic, and anticancer agents.
- Drug Design and Discovery.
- Organic Synthesis.
- Instrumental Analysis.

**6. Membership in Scientific Societies and Associations**

- Member of Jordan Pharmaceutical Association since July, 1994, Amman-Jordan.
- Hold Jordanian Pharmacy Practice issued by Ministry of Health, July, 1994, Amman-Jordan.
- Reviewer and Referee for Medicinal Chemistry Research Journal.
- Reviewer and Referee for Molecules Journal.
- Reviewer and Referee for Journal of Molecular Graphics and Modelling.
- Reviewer and Referee for Letters in Drug Design & Discovery Journal.
- Reviewer and Referee for Journal of Modern Medicinal Chemistry.
- Reviewer and Referee for the Arabian Journal of Chemistry.



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- Reviewer and Referee for Analytical Methods Journal.
- Reviewer and Referee for Medicinal Chemistry Journal.
- Reviewer and Referee for the Jordan Journal of Pharmaceutical Sciences.
- Reviewer and Referee for the World Journal of Microbiology and Biotechnology.
- Editorial board for the VRI Biological Medicinal Chemistry Journal.

## 7. Honors and Awards

Distinguished Researcher Award at Al-Zaytoonah University of Jordan in 19<sup>th</sup> October 2012.

## 8. Teaching Experience

### • *Graduate Courses*

- Medicinal Chemistry and Drug Design
- Advanced Pharmaceutical Analysis

### • *Undergraduate Courses*

- Medicinal Chemistry -3
- Medicinal Chemistry -2
- Medicinal Chemistry -1
- Instrumental Analysis

## 9. Supervision of Graduate Research

1. Amani Abu Sa'ed (M.S), Supervisor. Synthesis, characterization and biological evaluation of novel benzamides as CETP inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
2. Ebtisam Al-Warafi (M.S), Supervisor. Piperazine sulfonamides: synthesis, characterization, and *in vitro* biological evaluation as potential DPP-IV inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
3. Bara'a Al-Nawaiseh (M.S), Supervisor. Halogenated benzamides: synthesis and *in vitro* study as potential cholesteryl ester transfer protein (CETP) inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
4. Sara Mefleh (M.S), Supervisor. Synthesis and biological evaluation of novel hydrazone derivatives as potential dipeptidyl peptidase-4 inhibitors, 2017/2018. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.



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5. Shorouq Al-Qazaqi (M.S), Supervisor. Synthesis and Biological Evaluation of sulfonamide derivatives as new DPPIV inhibitors, 2017/2018. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
6. Maram Abu Rezeq (M.S), Supervisor. Synthesis, spectroscopic characterization and biological evaluation of phenanthridine derivatives as potential DPP-IV inhibitors, 2017/2018. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
7. Hazar Ahmad Yousef (M.S), Examiner. Structure-based modeling to search for new anaplastic lymphoma kinase (ALK) inhibitors, 2017. Faculty of Pharmacy/Applied Science University.
8. Shaima'a Emad Hasan (M.S), Supervisor. Design, Synthesis, and Biological Evaluation of N-Substituted-4-Hydroxy-6-Methyl-2-Quinolone-3-Carboxamides as PI3K $\alpha$  Inhibitors, 2016/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
9. Samer M. Abu-Joudah (M.S), Examiner. The use of structure-based modeling and in vitro assay for the exploration of new spleen tyrosine kinase inhibitors, 2017. Faculty of Pharmacy/Applied Science University.
10. Ala'a AbuRezeq (M.S), Examiner. Development and Optimization of Oleogels and Bigels as Topical Drug Delivery Systems for Periodontitis, 1/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
11. Haya Abu Jarad (M.S), Supervisor. Synthesis and Biological Evaluation of Piperazine Derivatives as DPP-IV Inhibitors, 2016/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
12. Nisreen Sha'aban Hamadah (M.S), Examiner. Optimization of 4-hydroxy-2-quinolone-3-carboxamide core nucleus targeting PI3K $\alpha$  inhibition, 2016/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
13. Haneen Muneer Abuzaid (M.S), Examiner. Design, Synthesis and In Vivo Biological Evaluation of Imidazole-5-Carboxamide Derivatives as Lipoprotein Lipase Activators, 8/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
14. Ameerah Said Hasan Ibrahim (M.S), Examiner. Optimization and Synthesis of Benzoin Derivatives as PI3K $\alpha$  Inhibitors, 6/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
15. Fatima Mahmoud Al-Tarawneh (M.S), Examiner. Design, Synthesis, and Biological Evaluation of Benzoin Schiff's Bases as Antitumor Agents, 5/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
16. Sajeda Ali Salah (M.S), Examiner. Discovery of new Gyrase B inhibitors via structure based modeling, 2016. Faculty of Pharmacy/Applied Science University.
17. Nisreen Nazmi "Haj Ahmad" (M.S), Examiner. Synthesis and Antihyperlipidemic Properties of Novel N-(4-Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives, 1/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
18. Areej Khalil Nasserallah (M.S), Supervisor. Synthesis and Biological Evaluation of Benzylamino Benzamide Derivatives as Potential CETP Inhibitors, 2015/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.



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19. Sarah Al-Rawashdeh (M.S), Supervisor. Fluorinated Benzamides: Design, Synthesis and Biological Evaluation as Potential CETP Inhibitors, 2014/2015. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
20. Dalal Al-Masalha (M.S), Supervisor. Phenanthridines: Design, Synthesis and Biological Evaluation as Potential DPP-IV Inhibitors, 2014/2015. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
21. Musaab Saada (M.S), Supervisor. Pharmacophore-Based Screening and Identification of Novel Phosphoinosited 3-Kinase (PI3K $\alpha$ ) Inhibitors, 2013/2014. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
22. Bayan Salah Hishmah (M.S), Examiner. Design, Synthesis and Biological Evaluation of Novel PI3K Alpha Inhibitors, 12/2014. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
23. Hamadah Abd-ElAziz (M.S), Supervisor. Synthesis and biological evaluation of substituted fluorinated alkyloxy benzylamino benzenamide as potential CETP inhibitors, 2013/2014. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
24. Zainab Ali Jarekji (M.S), Supervisor. Design, Synthesis and Biological Evaluation of a New Series of Potential DPP IV Inhibitors, 2012/2013. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
25. Mohammed Alhindi (M.S), Supervisor. Design, Synthesis and Biological Evaluation of a New Series of Potential CETP Inhibitors, 2012/2013. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.

## 10. Grants

- Design, Synthesis, and Biological Evaluation of a New Series of CETP Inhibitors, 2017-2019. Research funds supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 36,000 JD.
- 3-Benzylamino-Benzamides: Design, Synthesis, and Biological Evaluation as Novel CETP Inhibitors, 2015-2016, Research funds supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 38,100 JD.
- Design, Synthesis, and Biological Evaluation of PI3Ks Inhibitors, 2014-2016, Research funds supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 108,000 JD.
- Design, synthesis and biological evaluation of a new series of potential CETP inhibitors, 2012-2014, Research funds supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 130,000 JD.
- Research funds, 2008-2011, supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan.



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- Research funds, 2007-2009, supported by the Deanship of Scientific Research of the University of Jordan.

## 11. Membership of Committees

- **University**

- *University Scientific Research Committee.*
- *Faculty Scientific Research Committee.*
- *Faculty Higher Education Committee*
- *Department Council.*

## 12. Professional and Scientific Meetings

1. Participate in a Training Workshop entitled: "براءات الاختراع" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 25 September 2018.
2. Participate as oral presentation in BIT's 16th Annual Congress of International Drug Discovery Science and Technology (IDDST) held at Boston, USA, 16-19 August 2018.
3. Participate in a Training Course entitled: 'Using and Managing E-Learning System' held at Al-Zaytoonah University of Jordan, Amman, Jordan, 1-4 October 2017.
4. Participate as oral presentation in BIT's 15th Annual Congress of International Drug Discovery Science and Technology (IDDST) held at Osaka, Japan, 25-27 July 2017.
5. Participate in a Training Workshop entitled: "التخطيط الإستراتيجي: مفهومه وإطاره الإرشادي ومراحله المختلفة" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 13 June 2017.
6. Participate as poster presentation in ASU- Pharmacy Third Conference and The Third Conference of the Association of Faculties of Pharmacy at Jordanian Universities entitled: "Recent Trends in Postgraduate Research" held at Faculty of Pharmacy, Applied Science University, Amman, Jordan, 15-16 April 2017.
7. Participate in a Training Workshop entitled: "ISO 9001: 2015 معايير" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 12-13 April 2017.
8. Participate in a 20 hours Training Workshop entitled: "ادارة الجودة الكاملة" Total Quality Management" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 5-16 February 2017.
9. Participate in a Training Workshop entitled: "تصنيف الجامعات الأردنية" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 1 February 2017.
10. Participate in The 3<sup>rd</sup> National Conference of Erasmus+ held at Le Royal Hotel, Amman, Jordan, 26 October 2016.
11. Participate in The 4<sup>th</sup> International Conference of the School of Pharmacy-The University of Jordan and The 2nd Conference of the Association of Faculties of Pharmacy at Jordanian Universities entitled "Excellence in Pharmacy





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- Education & Research: A Quality Approach" held at The University of Jordan, Amman, Jordan, 25-27 October 2016.
12. Participate in a Training Workshop entitled: "Bruker Biospin & Bruker Optics " held at Days Inn Hotel, Amman, Jordan, 20 October 2016.
  13. Participate in a Training Workshop entitled:  
"أساسيات النظام الاحصائي SPSS واستخداماته في تحليل بيانات الدراسات العلمية" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 26-29 September 2016.
  14. Participate in a Quality Assurance Workshop entitled:  
"دليل القياس الصادر عن هيئة اعتماد مؤسسات التعليم العالي" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 24 May 2016.
  15. Participate in a Quality Assurance Workshop entitled:  
"التطبيق الخلاق لمعايير الاعتماد العام والاعتمادات الخاصة للتخصصات" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 12 May 2016.
  16. Participate in a Quality Assurance Workshop entitled:  
"القياس والفاعلية" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 10 March 2016.
  17. Participate as poster presentation in ASU Second Symposium "Recent Trends in Postgraduate Research" held at Faculty of Pharmacy, Applied Science University, Amman, Jordan, 5-6 December 2015.
  18. Participate as Oral Presentation and Session Moderator in Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference 2015 (ZTIPC) held at Al- Zaytoonah University of Jordan, Amman, Jordan, 21-23 October 2015.
  19. Participate in the Scientific Day of Faculty of Pharmacy entitled: "Pharmacy Sciences and Practice: An updated perspective" held at Faculty of Pharmacy, The University of Jordan, Amman, Jordan, 29 April 2015.
  20. Participate as Oral Presentation in the First National Conference entitled: "Recent Trends in Postgraduate Research" held at Faculty of Pharmacy, Applied Science University, Amman, Jordan, 20-21 December 2014.
  21. Participate as Oral Presentation in the Bilateral Research Workshop Between Faculty of Pharmacy, Al-Zaytoonah University of Jordan, and Faculty of Pharmacy, University of Szeged, Hungary held at Al- Zaytoonah University of Jordan, Amman, Jordan, 21 October 2014.
  22. Participate in the 6<sup>th</sup> Conference on Scientific Research in Jordan held at Al-Zaytoonah University of Jordan, Amman, Jordan, 23 November 2013.
  23. Participate in a Workshop entitled "اعداد المقومين الخارجيين والزيارة الميدانية لاعتماد " البرنامج الأكاديمي " held at Al- Zaytoonah University of Jordan, Amman, Jordan, 2-4 November 2013.
  24. Participate in a Workshop entitled "Computer-Aided Drug Design" held at Hamdi Mango Center for Scientific Research, University of Jordan, Amman, Jordan, 20 October 2013.
  25. Participate as Session Moderator in the Scientific Day of Cancer held at Faculty of Pharmacy, Al- Zaytoonah University of Jordan, Amman, Jordan, 15 May 2013.



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26. Participate in a Workshop entitled "استخدام نظام Baldrige للتدقيق الداخلي" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 4 April 2013.
27. Participate in a Workshop entitled "اعداد وثيقة التقييم الذاتي للبرامج الأكاديمية" held at Al-Zaytoonah University of Jordan, Amman, Jordan, 4 April 2013.
28. Participate in The 3<sup>rd</sup> International Arabic Conference of Quality Assurance in Higher Education held at Al-Zaytoonah University of Jordan, Amman, Jordan, 2-4 April 2013.
29. Participate in Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference 2012 (ZTIPC) held at Al-Zaytoonah University of Jordan, Amman, Jordan, 17-19 October 2012.
30. Participate in The 15<sup>th</sup> Scientific Congress of the Association of Pharmacy Colleges in the Arab World & The 3<sup>rd</sup> International Conference of the Faculty of Pharmacy/ The University of Jordan entitled as "RECENT TRENDS AND ADVANCES IN PHARMACY" held at University of Jordan, Amman, Jordan, 9-11 October 2012.
31. Participate in The National Day of Quality Measurement & Performance Appraisal (JAQM 2012, What can't be measured, can't be improved), Amman, Jordan, 7 May 2012.
32. Participate in the Scientific Day of Hamdi Mango Center for Scientific Research held at HMCSR/ University of Jordan, Amman, Jordan, 26 April 2012.
33. Participate as Oral Presentation in The International Conference of Young Chemists (ICYC) held at University of Jordan, Amman, Jordan, 8-10 April 2012.
34. Participate in The Regional Workshop on "A Holistic Approach to achieve Quality in Higher Education" held at Landmark Hotel - Amman, Jordan, 11-12 January 2012.
35. Participate in The Fifth Conference on Scientific Research in Jordan held at Landmark Hotel - Amman, Jordan, November 2011.
36. Participate as Session Moderator in The Jordanian International Pharmaceutical Conference 2010 (JIPC) held at Al-Zaytoonah University of Jordan, Amman, Jordan, 20-22 October 2010.
37. Participate as Oral Presentation in The Jordanian International Pharmaceutical Conference 2008 (JIPC) held at Al-Zaytoonah University of Jordan, Amman, Jordan, 15-17 October 2008.
38. Participate as Oral Presentation in The Jordanian International Pharmaceutical Conference 2006 (JIPC) held at Al-Zaytoonah University of Jordan, Amman, Jordan, 15-17 November 2006.
39. Participate in seminar introduced by WATERS CO. representative about "Method Validation in HPLC", University of Jordan, Amman, Jordan, March 2002.
40. Participate in The 5<sup>th</sup> Scientific Congress of the Association of the Colleges of Pharmacy in the Arab Word & the 2<sup>nd</sup> International Conference of the Faculty of Pharmacy entitled as "New Millennium, New Horizons in Pharmaceutical Sciences" held at University of Jordan, Amman, Jordan, 16-18 October 2001.





41. Participate in a Scientific Day about "Clinical Pharmacy Practice" held at Al-Zaytoonah University of Jordan, Amman, Jordan, Nov. 1999.
42. Participate in a training course on using High Performance Liquid Chromatography/ UV/Gradient Elution Pump, at Pharmaceutical Research Unit, Royal Scientific Association, Amman, Jordan, one month 1998.

### 13. Publications

#### Published Articles:

1. Sabbah D, Ibrahim A, Talib W, Alqaisi K, Sweidan K, Bardaweel S, Abu Sheikha G, Zhong H, Al-Shalabi E, **Abu Khalaf Reema**, Mubarak M; *Ligand-Based Drug Design: Synthesis and Biological Evaluation of Substituted Benzoin Derivatives as Potential Antitumor Agents*, Medicinal Chemistry, 14, 2018, 1-13.
2. **Abu Khalaf Reema**, 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 Dipeptidyl Peptidase-IV Inhibitors*, Current Computer-Aided Drug Design, 14 (2), 2018, 142-151.
3. Sabbah D, Al-Tarawneh F, Talib W, Sweidan K, Bardaweel S, Al-Shalabi E, Zhong H, Abu Sheikha G, **Abu Khalaf Reema**, Mubarak M; *Benzoin Schiff Bases: Design, Synthesis, and Biological Evaluation as Potential Antitumor Agents*, Medicinal Chemistry, 14, 2018, 1-14.
4. Abu Sheikha G, Bkhaitan M, Kalloush H, Hamadneh L, **Abu Khalaf Reema**, Al-Qirim T, Al-Hiari Y; *Synthesis of Novel Benzimidazole-2-Carboxamide Derivatives and In Vivo Antihyperlipidemic Activity Evaluation*, Chemical and Pharmaceutical Bulletin, 66 (4), 2018, 423-426.
5. Sabbah D, Hishmah B, Sweidan K, Bardaweel S, AlDamen M, Zhong H, **Abu Khalaf Reema**, Ibrahim A, Al-Qirim T, Abu Sheikha G, Mubarak M; *Structure-Based Design: Synthesis, X-Ray Crystallography, and Biological Evaluation of N-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as Potential PI3K $\alpha$  Inhibitors*, Anti-Cancer Agents in Medicinal Chemistry, 18 (2), 2018, 263-276.
6. **Abu Khalaf Reema**, 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*, Archiv der Pharmazie, 350 (12), 2017, 1-14.



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7. **Abu Khalaf Reema**, Abd El-Aziz H, Sabbah D, Albadawi G, Abu Sheikha G; *CETP Inhibitory Activity of Chlorobenzyl Benzamides: QPLD Docking, Pharmacophore Mapping, and Synthesis*, Letters in Drug Design & Discovery, 14 (12), 2017, 1391-1400.
8. Hikmat S, Al-Qirim T, Alkabbani D, Shattat G, Abu Sheikha G, Sabbah D, **Abu Khalaf Reema**, Al-hiari Y; *Synthesis and in vivo anti-hyperlipidemic activity of novel N-benzoylphenyl-2-furamide derivatives in Wistar rats*, Tropical Journal of Pharmaceutical Research, 16 (1), 2017, 193-201.
9. **Abu Khalaf Reema**, Al-Rawashdeh S, Sabbah D, Abu Sheikha G; *Molecular Docking and Pharmacophore Modeling Studies of Fluorinated Benzamides as Potential CETP Inhibitors*, Medicinal Chemistry, 13 (3), 2017, 239-253.
10. **Abu Khalaf Reema**; *Exploring Natural Products as a Source for Antidiabetic Lead Compounds and Possible Lead Optimization*, Current Topics in Medicinal Chemistry, 16 (23), 2016, 2549-2561.
11. Shattat G, Abusheikha G, Al-Qirim T, Huwaitat R, El-Huneidi W, **Abu Khalaf Reema**, Al-Hiari Y, Jasim S, Hamadneh L; *Novel Pyrrole Derivatives as Potent lipid-Lowering Agents in Triton-WR-1339-Induced Hyperlipidemic Rats*, Latin American Journal of Pharmacy, 34 (6), 2015, 1258-1264.
12. Sabbah D, Saada M, **Abu Khalaf Reema**, 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 $\alpha$ )*, Bioorganic & Medicinal Chemistry Letters, 25 (16), 2015, 3120-3124.
13. **Abu Khalaf Reema**, Jarekji Z, Al-Qirim T, Sabbah D, Shattat G; *Pharmacophore modeling and molecular docking studies of acridines as potential DPP-IV inhibitors*, Canadian Journal of Chemistry, 93 (7), 2015, 721-729.
14. **Abu Khalaf Reema**, Abdula AM, Mubarak MS, Taha MO; *Tryptophan and thiosemicarbazide derivatives: design, synthesis, and biological evaluation as potential  $\beta$ -D-galactosidase and  $\beta$ -D-glucosidase inhibitors*, Medicinal Chemistry Research, 24 (6), 2015, 2529-2550.
15. **Abu Khalaf Reema**, Abu Sheikha G, Al-Sha'er M, Taha M; *Design, Synthesis and Biological Evaluation of  $N^4$ -Sulfonamido-Succinamic, Phthalamic, Acrylic and Benzoyl Acetic Acid Derivatives as Potential*



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- DPP IV Inhibitors*, The Open Medicinal Chemistry Journal, 7, 2013, 39-48.
16. Al-Qirim T, Shattat G, Sweidan K, El-Huneidi W, Abu Sheikha G, **Abu Khalaf Reema**, Hikmat S; *In Vivo Antihyperlipidemic Activity of New Series of N-(Benzoylphenyl) and N-(Acetylphenyl)-1-benzofuran-2-carboxamides in Rats*, Archiv der Pharmazie, 345 (5), 2012, 401-406.
  17. **Abu Khalaf Reema**, Abu Sheikha G, Al-Sha'er M, Ghadeer Albadawi, Taha MO; *Design, synthesis and biological evaluation of sulfonic acid ester and benzenesulfonamide derivatives as potential CETP inhibitors*, Medicinal Chemistry Research, 21 (11), 2012, 3669-3680.
  18. Taha MO, Qandil AM, Al-Haraznah T, **Abu Khalaf Reema**, Zalloum H, Al-Bakri AG; *Discovery of New Anti Fungal Leads via Pharmacophore Modeling and QSAR Analysis of Fungal N-Myristoyl Transferase Inhibitors followed by In Silico Screening*, Chemical Biology and Drug Design, 78 (3), 2011, 391-407.
  19. **Abu Khalaf Reema**, Abdula AM, Mubarak MS, Taha MO; *Discovery of New  $\beta$ -D-Glucosidase Inhibitors via Pharmacophore Modeling and QSAR Analysis Followed by In Silico Screening*, Journal of Molecular Modeling, 17 (3), 2011, 443-464.
  20. Abdula AM, **Abu Khalaf Reema**, Mubarak MS, Taha MO; *Discovery of New  $\beta$ -D-Galactosidase Inhibitors via Pharmacophore Modeling and QSAR Analysis Followed by In Silico Screening*, Journal of Computational Chemistry, 32 (3), 2011, 463-482.
  21. Abu Sheikha G, **Abu Khalaf Reema**, Areej Melhem, Ghadeer Albadawi; *Design, synthesis, and biological evaluation of new benzylamino-methanone based cholesteryl ester transfer protein inhibitors*, Molecules, 15 (8), 2010, 5721-5733.
  22. **Abu Khalaf Reema**, Abu Sheikha G, Bustanji Y, Taha MO; *Discovery of new cholesteryl ester transfer protein inhibitors via ligand-based pharmacophore modeling and QSAR analysis followed by synthetic exploration*, European Journal of Medicinal Chemistry, 45 (4), 2010, 1598-1617.

Published Books:

- **Reema Abu Khalaf**, Alhusban A, Al-Shalabi E, Al-Sheikh I, Sabbah D. Chapter: *Isolation and Structure Elucidation of Bioactive Polyphenols*, In Book: *Studies in Natural Product Chemistry (Bioactive Natural Products)*, Editor: Atta-Ur-Rahman, Elsevier Science Publishers – Amsterdam, the Netherlands, 2018.

Published Abstracts:

1. **Reema Abu Khalaf**, D Sabbah, E Al-Shalabi, S Bishtawi, G Albadawi, G Abu Sheikha; Oral presentation: *Synthesis, biological evaluation and molecular modeling study of substituted benzyl benzamides as CETP inhibitors*, BIT's 16th Annual Congress of International Drug Discovery Science and Technology (IDDST), August 16-19, 2018, Boston, USA.
2. Ghassan Abu Sheikha, Haneen AbuZaid, Hanin Kalloush, Suhair Hikmat, Lama Hamadneh, Samah Ata, Dima Sabbah, Majdi Bkhaitan, **Reema Abu Khalaf**, Ghassan Shattat, Tariq Al-Qirim, Kamal Sweidan, and Yusuf Al-Hiari; Poster Presentation: *Synthesis of Novel Benzimidazole-2-Carboxamide and Imidazoles-5-Carboxamide Derivatives and In Vivo Antihyperlipidemic Activity Evaluation*. Ligand Recognition and Molecular Gating. Gordon Research Conference, March 4-9, 2018, Ventura Beach Marriott, Ventura, CA.
3. Dima 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; Oral Presentation: *Pharmacophore Based-Design of Phosphoinositide-3-Kinase (PI3K $\alpha$ ) Inhibitors*, Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2017) "New Horizons in Pharmaceutical Research", November 29-30, 2017, Amman, Jordan.
4. Fatima Al-Tarawneh, Dima Sabbah, Wamidh Talib, Kamal Sweidan, Sanaa Bardaweel, Eveen Al-Shalabi, Haizhen A. Zhong, Ghassan Abu Sheikha, **Reema Abu Khalaf**, Mohammad S. Mubarak; Poster Presentation: *Structure-Based Design, Synthesis, and Biological Evaluation of Benzoin Schiff Bases as Potential Antitumor Agents*, Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2017) "New Horizons in Pharmaceutical Research", November 29-30, 2017, Amman, Jordan.



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5. **Reema Abu Khalaf**, Sarah Al-Rawashdeh, Dima Sabbah, Ghassan Abu Sheikha; Oral Presentation: *Fluorinated Benzamides: Molecular Docking and Pharmacophore Modeling Studies Targeting CETP Inhibition*, BIT's 15<sup>th</sup> Annual Congress of International Drug Discovery Science and Technology (IDDST), July 25-27, 2017, Osaka, Japan.
6. Abd El-Aziz H, **Reema Abu Khalaf**, Sabbah D, Albadawi G, Abu Sheikha G; Poster Presentation: *CETP Inhibitory Activity of Chlorobenzyl Benzamides: QPLD Docking, Pharmacophore Mapping, and Synthesis*, Drug Discovery & Therapy World Congress, July 10-13, 2017, Boston, MA, USA.
7. Ameerah (Hasan Ibrahim), Bayan Hishmah, Dima Sabbah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, **Reema Abu Khalaf**, Haizhen A. Zhong, Tariq Al-Qirim, Ghassan Abu Sheikha; Poster Presentation: *N-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as Potential PI3K $\alpha$* , ASU-Pharmacy Third Symposium "Recent Trends in Postgraduate Research", April 15-16, 2017, Amman, Jordan. The Poster is awarded the Third Place in Postgraduate Poster Competition.
8. Ghassan Abu Sheikha, Dima Sabbah, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Haizhen A. Zhong, Ameerah (Hasan Ibrahim), **Reema Abu Khalaf**, Tariq Al-Qirim; Poster Presentation: *Structure-Based Drug Design, Synthesis, X-ray Crystallography, and Biological Evaluation of N-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K $\alpha$  Inhibitors*, Mammalian DNA Repair, Gordon Research Conference: Frontiers of Mammalian Genomic Stability in Human Health, February 19-24, 2017, Ventura, CA, USA.
9. Dima Sabbah, Musaab Saada, **Reema Abu Khalaf**, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, Ghassan Abu Sheikha, Poster Presentation: *Structure-Based Drug Design, Synthesis, and Biological Evaluation of Benzoin Analogues as Potential PI3K $\alpha$  Inhibitors*, The University of Jordan School of Pharmacy, The 4<sup>th</sup> international Conference & the 2<sup>nd</sup> Conference of the Association of Faculties of Pharmacy at Jordanian Universities "Excellence in Pharmacy Education & Research: A Quality Approach", October 25-27, 2016, Amman, Jordan.
10. Musaab Saada, Dima Sabbah, **Reema Abu Khalaf**, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, Ghassan Abu Sheikha; Poster Presentation: *Structure-Based Drug Design, Synthesis, and Biological Evaluation of Novel Benzoin Derivatives as anticancer agents*. ASU-Pharmacy Second Symposium





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"Recent Trends in Postgraduate Research", December 5-6, 2015, Amman, Jordan.

11. **Reema Abu Khalaf**, Ghassan Abu Sheikha; Oral Presentation: *Synthesis and Biological Evaluation of Substituted Fluorinated Benzylamino Benzamides as Potential CETP Inhibitors*, 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 21-23, 2015, Amman, Jordan.
12. Dima Sabbah, Musaab Saada, **Reema Abu Khalaf**, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, Ghassan Abu Sheikha; Oral Presentation: *From Hit to Lead: Structure-Based Drug Design, Synthesis, and Biological Evaluation of Novel Benzoin Derivatives as PI3K $\alpha$  Inhibitors*, 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 21-23, 2015, Amman, Jordan.
13. Ghassan Abu Sheikha, Dima Sabbah, **Reema Abu Khalaf**, Tariq Al-Qirim, Sanaa Bardaweel; Poster Presentation: *Design, Synthesis and Biological Evaluation of Novel PI3K Alpha Inhibitors with Potential Anti-Cancer Activity*, Computer Aided Drug Design: New Frontiers in computer-Aided Drug Design, July 19-24, 2015, VT, USA.
14. **Reema Abu Khalaf**, Ghassan Abu Sheikha; Oral Presentation: *Potential CETP and DPP-IV Inhibitors: Design, Synthesis and Biological Evaluation*, Bilateral research workshop between Faculty of Pharmacy, Al-Zaytoonah University of Jordan, and Faculty of Pharmacy, University of Szeged, Hungary, October 21, 2014, Amman, Jordan.
15. Ghassan Abu Sheikha, **Reema Abu Khalaf**, Dima Sabbah; Poster Presentation: *Design, Synthesis, and Biological Evaluation of a New Series of Potential CETP Inhibitors*, Ligand Recognition & Molecular Gating: Structure and Dynamics of Ion Channels, G-Protein Coupled Receptors, and Solute Transporters, March 23-28, 2014, Ventura, CA, USA.
16. Ghassan Abu Sheikha, **Reema Abu Khalaf**; Poster Presentation, FloHet-2013 Florida Heterocyclic and Synthetic Conference, March 3-6, 2013, Gainesville, Florida, USA.





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17. Ghassan Abu Sheikha, **Reema Abu Khalaf**, Mahmoud Al-Sha'er, Ghadeer Albadawi, Mutasem Taha; Poster Presentation: *Design, synthesis and biological evaluation of aryl-succinamic, phthalamic, acrylic and acetic acid derivatives as potential DPP IV inhibitors*, International Symposia on Advancing the Chemical Sciences-Challenges in Organic Chemistry and Chemical Biology (ISACS7), June 12-15, 2012, Edinburgh, UK.
18. **Reema Abu Khalaf**; Oral Presentation: *Design, Synthesis and Biological Evaluation of Sulfonic Acid Ester and Benzenesulfonamide Derivatives as Potential CETP Inhibitors*, The International Conference of Young Chemists (ICYC), April 8-10, 2012, held at University of Jordan, Amman, Jordan.
19. **Reema Abu Khalaf**; Oral Presentation: *Discovery of New CETP Inhibitors via Ligand-Based Pharmacophore Modeling and QSAR Analysis and Subsequent Hit Optimization*, The Jordanian International Pharmaceutical Conference 2008 (JIPC), October 15-17, 2008, held at Al-Zaytoonah University of Jordan, Amman, Jordan.
20. **Reema Abu Khalaf**; Oral Presentation: *The Synthesis and Microbiological Evaluation of Some Novel Derivatives of Some Natural and Synthetic Polymers*, The Jordanian International Pharmaceutical Conference 2006 (JIPC), November 15-17, 2006, held at Al-Zaytoonah University of Jordan, Amman, Jordan.