

## CURRICULUM VITAE

### Reema AbdelKareem Eid 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

- Professor, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
November 3, 2018 – Now
- Associate Professor, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
November 3, 2014 – November 3, 2018
- Assistant Professor, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October 14, 2009 – November 3, 2014
- Lecturer, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 2003 – October 14, 2009
- Teaching & Research Assistant, Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 1997 – October, 2003

##### Administrative Positions

- Vice Dean, Deanship of Graduate Studies, Al-Zaytoonah University of Jordan, Amman, Jordan  
October, 2019 – Now
- 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

- Editorial board for the Jordan Journal of Pharmaceutical Sciences (23-7-2020 until 22-7-2023).
- Member of the Sectorial Committee for Medical and Pharmaceutical Sciences of the Scientific Research and Innovation Support Fund (SRISF)/ Ministry of Higher Education (30-12-2021 until 29-12-2022).
- Reviewer and Referee for Scientific Research and Innovation Support Fund (SRISF)/ Ministry of Higher Education.
- 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.
- 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.
- Reviewer and Referee for SAR & QSAR in Environmental Research Journal.
- Reviewer and Referee for Future Medicinal Chemistry Journal.
- 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*

- Advanced 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. Farah Abu Taleb (M.Sc), Co-Supervisor. Synthesis, Characterization, and Biological Evaluation of New 5-Nitrofuranyl Carboxamide Derivatives as Potential Anti-Diabetic Agents, 2022/2023. Department of Chemistry/ Faculty of Science/ The University of Jordan.
2. Baraa Mojahed Abu Sneineh (M.Sc), Examiner. Repurposing of dipeptidyl peptidase 4 (DPP4) inhibitors for cancer treatments: An in vitro study, 2021/2022. Faculty of Pharmacy/ The University of Jordan.
3. Mahmoud Ahmad Mousa AL-Elaimat (M.Sc), Examiner. Design and synthesis of new 1,3,5-triazine derivatives as anti-cancer agents, 2021/2022. Faculty of Pharmacy/ Zarqa University.
4. Tamara Ibrahim Al-Husban (M.Sc), Supervisor. Novel meta-methoxy Aromatic Sulfonamides: Synthesis, Characterization, and Biological Evaluation as Cholesteryl Ester Transfer Protein Inhibitors, 2021/2022. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
5. Nataly Mohammad Abu-Ajameyyeh (M.Sc), Supervisor. Synthesis, Characterization, and CETP Inhibitory Potential of Novel meta-Trifluoromethylated Aromatic Sulfonamides, 2021/2022. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
6. Ala'a Nafez Lafi (M.Sc), Supervisor. Synthesis, characterization, and in-vitro validation of new meta-chlorinated diaryl sulfonamides as potential inhibitors of cholesteryl ester transfer protein, 2021/2022. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
7. Farah Esam Al-Khawaldeh (M.Sc), Supervisor. Novel ortho-chlorinated benzenesulfonamides: Synthesis, characterization and biological validation as promising CETP inhibitors, 2021/2022. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
8. Lama Abdullah Al-Jaradat (M.Sc), Supervisor. Chemical synthesis and biological evaluation of novel ortho-fluorinated benzene sulfonamides as potential CETP inhibitors, 2021/2022. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
9. Yasmin Mahmoud Ibrahim (M.Sc), Supervisor. New meta-fluorinated diaryl sulfonamides: synthesis and in vitro study as promising cholesteryl ester transfer protein inhibitors, 2021/2022. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
10. Hamza Mahmoud Shayah (M.Sc), Supervisor. Fluorinated Benzenesulfonamides as Potential CETP Inhibitors: Synthesis and Subsequent *In Vitro* Validation, 2020/2021. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
11. Azhar Mohammad Shallouf (M.Sc), Supervisor. Diaryl Sulfonamides: Synthesis, Characterization and *In Vitro* Biological Evaluation as CETP Inhibitors, 2020/2021. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
12. Lubabah Azzam Mousa (M.Sc), Examiner. Pharmacophore Modelling of Sphingosine Kinase I and Subsequent In Vitro Validation of the Captured Hits, 2020/2021. Faculty of Pharmacy/ The University of Jordan.



13. Manal Asa'ad (M.Sc), Supervisor. Synthesis and Biological Evaluation of Aromatic Sulfonamides as Novel Cholesteryl Ester Transfer Protein Inhibitors, 2019/2020. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
14. Reem Ahmad Isleem (M.Sc), Co-Supervisor. Design, Synthesis, and Biological Evaluation of Nitrated N Substituted-4-Hydroxy -2-Quinolone-3 Carboxamides as PI3K $\alpha$  Inhibitors, 2019/2020. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
15. Mohammad Khalil (M.Sc), Supervisor. Synthesis, Characterization and Biological Evaluation of Novel Fluorinated Oxoacetamido Benzamides as Potential CETP Inhibitors, 2019/2020. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
16. Asma Jumah (M.Sc), Examiner. Design, Synthesis, and Biological Evaluation of N-Substituted-4-Hydroxy-8-Methoxy-2-Quinolone-3-Carboxamides as PI3K $\alpha$  Inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
17. Maha Awad (M.Sc), Supervisor. Schiff's Bases: Synthesis, characterization, *in vitro* and *in vivo* biological evaluation as DPP-IV inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
18. Hla Hasan Samarat (M.Sc), Examiner. Design, Synthesis, and Biological Evaluation of Fluorinated N-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K $\alpha$  Inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
19. Amani Abu Sa'ed (M.Sc), Supervisor. Synthesis, characterization and biological evaluation of novel benzamides as CETP inhibitors, 2018/2019. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
20. Ebtisam Al-Warafi (M.Sc), 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.
21. Bara'a Al-Nawaiseh (M.Sc), 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.
22. Sara Mefleh (M.Sc), 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.
23. Shorouq Al-Qazaqi (M.Sc), Supervisor. Synthesis and Biological Evaluation of sulfonamide derivatives as new DPPIV inhibitors, 2017/2018. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
24. Maram Abu Rezeq (M.Sc), 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.
25. Hazar Ahmad Yousef (M.Sc), Examiner. Structure-based modeling to search for new anaplastic lymphoma kinase (ALK) inhibitors, 2017. Faculty of Pharmacy/Applied Science University.
26. Shaima'a Emad Hasan (M.Sc), Co-Supervisor. Design, Synthesis, and Biological Evaluation of N-Substituted-4-Hydroxy-6-Methyl-2-Quinolone-3-



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- Carboxamides as PI3K $\alpha$  Inhibitors, 2016/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
27. Samer M. Abu-Joudah (M.Sc), 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.
  28. Ala'a AbuRezeq (M.Sc), 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.
  29. Haya Abu Jarad (M.Sc), Supervisor. Synthesis and Biological Evaluation of Piperazine Derivatives as DPP-IV Inhibitors, 2016/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  30. Nisreen Sha'aban Hamadah (M.Sc), Co-Supervisor. Optimization of 4-hydroxy-2-quinolone-3-carboxamide core nucleus targeting PI3K $\alpha$  inhibition, 2016/2017. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  31. Haneen Muneer Abuzaid (M.Sc), 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.
  32. Ameerah Said Hasan Ibrahim (M.Sc), Examiner. Optimization and Synthesis of Benzoin Derivatives as PI3K $\alpha$  Inhibitors, 6/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  33. Fatima Mahmoud Al-Tarawneh (M.Sc), Examiner. Design, Synthesis, and Biological Evaluation of Benzoin Schiff's Bases as Antitumor Agents, 5/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  34. Sajeda Ali Salah (M.Sc), Examiner. Discovery of new Gyrase B inhibitors via structure based modeling, 2016. Faculty of Pharmacy/Applied Science University.
  35. Nisreen Nazmi "Haj Ahmad" (M.Sc), Examiner. Synthesis and Antihyperlipidemic Properties of Novel N-(4-Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives, 1/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  36. Areej Khalil Nasserallah (M.Sc), Supervisor. Synthesis and Biological Evaluation of Benzylamino Benzamide Derivatives as Potential CETP Inhibitors, 2015/2016. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  37. Sarah Al-Rawashdeh (M.Sc), Supervisor. Fluorinated Benzamides: Design, Synthesis and Biological Evaluation as Potential CETP Inhibitors, 2014/2015. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  38. Dalal Al-Masalha (M.Sc), Supervisor. Phenanthridines: Design, Synthesis and Biological Evaluation as Potential DPP-IV Inhibitors, 2014/2015. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
  39. Musaab Saada (M.Sc), Co-Supervisor. Pharmacophore-Based Screening and Identification of Novel Phosphoinosited 3-Kinase (PI3K $\alpha$ ) Inhibitors, 2013/2014. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.



40. Bayan Salah Hishmah (M.Sc), Examiner. Design, Synthesis and Biological Evaluation of Novel PI3K Alpha Inhibitors, 12/2014. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
41. Hamadah Abd-ElAziz (M.Sc), 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.
42. Zainab Ali Jarekji (M.Sc), 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.
43. Mohammed Alhindi (M.Sc), Co-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

- Cholesteryl Ester Transfer Protein Inhibitors: Design, Synthesis, Characterization and Biological Evaluation, 2021-2022. Research fund supported by the Deanship of Scientific Research and Innovation of Al-Zaytoonah University of Jordan, 13,000 JD
- Design, Synthesis, and Biological Evaluation of CETP and PI3K $\alpha$  Inhibitors, 2020-2021. Research fund supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 24,000 JD.
- Design, Synthesis, and Biological Evaluation of New DPP-IV Inhibitors, 2019-2020. Research fund supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 23,000 JD.
- Design, Synthesis, and Biological Evaluation of PI3K $\alpha$  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.
- Design, Synthesis, and Biological Evaluation of a New Series of CETP Inhibitors, 2017-2019. Research fund 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 fund 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 fund supported by the Deanship of Scientific Research of Al-Zaytoonah University of Jordan, 108,000 JD.



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- Design, synthesis and biological evaluation of a new series of potential CETP inhibitors, 2012-2014. Research fund 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.
- Research funds, 2007-2009, supported by the Deanship of Scientific Research of The University of Jordan.

### 11. Patents

**Abu Khalaf Reema**, Nasr Allah Areej, Jarrar Wassan, Abu Sheikha Ghassan. "Synthesis and Biological Evaluation of *N*-(3-Chlorobenzyl)-3-(2-(3-Chlorobenzylamino)-*N*-(4 (Trifluoromethoxy)benzyl)-2-Oxoacetamido) Benzamide as Potential CETP Inhibitor." 2019/158.

### 12. Membership of Committees

- **University**
  - *University Graduate Studies Committee 2019-Now.*
  - *University Scientific Research Committee 2016-2019, 2020-2021.*
  - *University Quality Assurance Committee 2011-2017.*
- **Faculty**
  - *Faculty Scientific Research Committee 2016-Now.*
  - *Faculty Graduate Studies Committee 2017-2020.*
  - *Faculty Quality Assurance Committee 2011-2017.*
  - *Department Council.*

### 13. Professional and Scientific Meetings

1. Participate as a Session Moderator in Al-Zaytoonah 8<sup>th</sup> International Pharmaceutical Conference 2022 (ZIPC-2022, Promising Prospects in Pharmaceutical Sciences) held at Al- Zaytoonah University of Jordan, Amman, Jordan, 18-19 October 2022.
2. Participate as oral presentation, posters and Session Moderator in Al-Zaytoonah University of Jordan and The University of Toledo 7<sup>th</sup> International Pharmaceutical Conference (ZTIPC 2019) held at Al- Zaytoonah University of Jordan, Amman, Jordan, 6-7 November 2019.
3. Participate in a Training Workshop entitled: "إعداد مقيم جودة تعليم عالي معتمد لدى الهيئة" organized by the Accreditation and Quality Assurance Commission for Higher Education Institutions, held at Princess Sumaya University for Technology, Amman, Jordan, 15-16 September 2019.





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4. Participate as oral presentation in the 4th Pharmaceutical Chemistry Conference held at Amsterdam, Netherlands, 27-28 June 2019.
5. Participate in a Training Course entitled: "Applied Advanced Statistic Assisted with SPSS Software" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 18-20 February 2019.
6. Participate in a Training Workshop entitled: "Patency's, براءات الاختراع" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 25 September 2018.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. Participate in a Training Workshop entitled: "ISO 9001: 2015 معايير" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 12-13 April 2017.
13. 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.
14. Participate in a Training Workshop entitled: "تصنيف الجامعات الأردنية" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 1 February 2017.
15. Participate in The 3<sup>rd</sup> National Conference of Erasmus+ held at Le Royal Hotel, Amman, Jordan, 26 October 2016.
16. 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 Education & Research: A Quality Approach" held at The University of Jordan, Amman, Jordan, 25-27 October 2016.
17. Participate in a Training Workshop entitled: "Bruker Biospin & Bruker Optics " held at Days Inn Hotel, Amman, Jordan, 20 October 2016.
18. 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.
19. Participate in a Quality Assurance Workshop entitled:



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- "دليل القياس الصادر عن هيئة اعتماد مؤسسات التعليم العالي" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 24 May 2016.
20. 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.
21. Participate in a Quality Assurance Workshop entitled: "القياس والفاعلية" held at Al- Zaytoonah University of Jordan, Amman, Jordan, 10 March 2016.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. Participate in a Workshop entitled " استخدام نظام Baldrige للتدقيق الداخلي " held at Al- Zaytoonah University of Jordan, Amman, Jordan, 4 April 2013.
32. Participate in a Workshop entitled " اعداد وثيقة التقييم الذاتي للبرامج الأكاديمية " held at Al- Zaytoonah University of Jordan, Amman, Jordan, 4 April 2013.
33. 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.



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34. 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.
35. Participate in The 15<sup>th</sup> Scientific Congress of the Association of Pharmacy Colleges in the Arab World & The 3rd 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.
36. 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.
37. Participate in the Scientific Day of Hamdi Mango Center for Scientific Research held at HMCSR/ University of Jordan, Amman, Jordan, 26 April 2012.
38. Participate as Oral Presentation in The International Conference of Young Chemists (ICYC) held at University of Jordan, Amman, Jordan, 8-10 April 2012.
39. 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.
40. Participate in The Fifth Conference on Scientific Research in Jordan held at Landmark Hotel - Amman, Jordan, November 2011.
41. 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.
42. 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.
43. 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.
44. Participate in seminar introduced by WATERS CO. representative about "Method Validation in HPLC", University of Jordan, Amman, Jordan, March 2002.
45. 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.
46. Participate in a Scientific Day about "Clinical Pharmacy Practice" held at Al-Zaytoonah University of Jordan, Amman, Jordan, Nov. 1999.
47. 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.



#### 14. Publications

- Published Papers in Refereed Journals:
  1. **Abu Khalaf Reema**, Awad M; *Lycopene as a Potential Bioactive Compound: Chemistry, Extraction, and Anticancer Prospective*, Current Cancer Drug Targets, June 2022, Submitted.
  2. **Abu Khalaf Reema**, Abusaad A, Al-Nawaiseh B, Sabbah D, Albadawi G; *Synthesis, Molecular Modeling and Biological Evaluation of Novel Trifluoromethyl Benzamides as Promising CETP Inhibitors*, Journal of Pharmacy and Pharmacology, June 2022, Submitted.
  3. **Abu Khalaf Reema**, NasrAllah A, Albadawi G; *Cholesteryl ester transfer protein inhibitory activity of new 4-bromophenethyl benzamides*, Tropical Journal of Pharmaceutical Research, January 2021, Submitted.
  4. **Abu Khalaf Reema**, Sabbah D, Al-Shalabi E, Ikhmais B, Naser W, Albadawi G; Abu Sheikha G; *Fluorinated Benzyloxalamides: Glide Docking, Pharmacophore Mapping, Synthesis and In Vitro Evaluation as Potential Cholesteryl Ester Transfer Protein Inhibitors*, Indian Journal of Pharmaceutical Sciences, September 2020, Under Revision.
  5. **Abu Khalaf Reema**, NasrAllah A, Jarrar W, Sabbah D; *CETP Inhibitory Oxoacetamido-Benzamide Derivatives: Glide Docking, Pharmacophore Mapping, and Synthesis*, Brazilian Journal of Pharmaceutical Sciences, 2022, Under Publication.
  6. **Abu Khalaf Reema**, Al Shaiah H, Sabbah D; *Trifluoromethylated aryl sulfonamides as novel CETP inhibitors: Synthesis, induced fit docking, pharmacophore mapping and subsequent in vitro validation*, Medicinal Chemistry, 2022, Accepted.
  7. Sewidan N, **Abu Khalaf Reema**, Shatat A, Hammad W; *Therapeutic Potential of Silybum Marianum and Pergularia Tomentosa Extracts from Jordanian Origin in Diabetes Mellitus*, Current Bioactive Compounds, 18 (8), 2022, e210222201293, 64-71.
  8. **Abu Khalaf Reema**, Asa'ad M, Habash M; *Thiomethylphenyl benzenesulfonamides as potential cholesteryl ester transfer protein inhibitors: Synthesis, molecular modeling and biological evaluation*, Current Organic Chemistry, 26 (8), 2022, 807-815.
  9. Sabbah D, Samarat H, Al-Shalabi E, Bardaweel S, Hajjo R, Sweidan K, **Abu Khalaf Reema**, Al-Zuheiri A, Abu Sheikha G; *Design, Synthesis, and*



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24. **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.
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- Published Books and Book Chapters:

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  - Published Abstracts and Conference Presentations:
    1. **Abu Khalaf Reema**, Haya Abu Jarad, Tariq Al-Qirim, Dima Sabbah; Oral Presentation: *Antidiabetic Sulfonamides: Synthesis, QPLD Studies and Biological Evaluation*, Al-Zaytoonah University of Jordan and The University of Toledo 7<sup>th</sup> International Pharmaceutical Conference (ZTIPC 2019), November 6-7 2019, Amman, Jordan. Journal Pharmacy and Pharmacognosy Research (2019) 7(suppl.1): 14.
    2. **Abu Khalaf Reema**, Dima Sabbah, Eveen Al-Shalabi, Iyad Al-Sheikh, Ghadeer Albadawi, Ghassan Abu Sheikha; Oral Presentation: *Synthesis, Structural Characterization and Docking Studies of Sulfamoyl-Phenyl Acid Esters as Dipeptidyl Peptidase-IV Inhibitors*, 4th Pharmaceutical Chemistry Conference, June 27-28 2019, Amsterdam, Netherlands.
    3. Ghassan Abu Sheikha, Dima Sabbah, Shaima' Hasan, **Abu Khalaf Reema**, Sanaa` Bardaweel, Kamal Sweidan, Eveen Al-Shalabi, Tariq Al-Qirim, Wamidh Talib, Haizhen A. Zhong; Poster Presentation: *Phosphatidylinositol 3-Kinase*





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- Alpha (PI3K $\alpha$ ) Enzyme in Cancer Progression: Design, Synthesis, and Biological Evaluation of Novel Molecules Targeting the PI3K $\alpha$  as Anticancer Agents*, Stem Cells and Cancer, Gordon Research Conference, March 24-29 2019, Ventura Beach Marriott, Ventura, CA, United States.
4. Nisreen Hamadeh, Dima Sabbah, **Abu Khalaf Reema**, Wamidh Talib; Oral Presentation: *Structure-Based Design: Synthesis and Biological Evaluation of N-Substituted-4-Hydroxy-6-Nitro-2-Quinolone-3-Carboxamides as Potential PI3K $\alpha$  Inhibitors*, ASU-Pharmacy Fourth Symposium "Recent Trends in Postgraduate Research", January 5-6<sup>th</sup> 2019, Amman, Jordan.
  5. **Abu Khalaf Reema**, 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.
  6. Ghassan Abu Sheikha, Haneen AbuZaid, Hanin Kalloush, Suhair Hikmat, Lama Hamadneh, Samah Ata, Dima Sabbah, Majdi Bkhaitan, **Abu Khalaf Reema**, 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.
  7. Dima Sabbah, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Haizhen A. Zhong, **Abu Khalaf Reema**, 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.
  8. Fatima Al-Tarawneh, Dima Sabbah, Wamidh Talib, Kamal Sweidan, Sanaa Bardaweel, Eveen Al-Shalabi, Haizhen A. Zhong, Ghassan Abu Sheikha, **Abu Khalaf Reema**, 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.
  9. **Abu Khalaf Reema**, 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>



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10. Abd El-Aziz H, **Abu Khalaf Reema**, 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.
11. Ameerah (Hasan Ibrahim), Bayan Hishmah, Dima Sabbah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, **Abu Khalaf Reema**, 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.
12. Ghassan Abu Sheikha, Dima Sabbah, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Haizhen A. Zhong, Ameerah (Hasan Ibrahim), **Abu Khalaf Reema**, 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.
13. Dima Sabbah, Musaab Saada, **Abu Khalaf Reema**, 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.
14. Musaab Saada, Dima Sabbah, **Abu Khalaf Reema**, 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 "Recent Trends in Postgraduate Research", December 5-6, 2015, Amman, Jordan.
15. **Abu Khalaf Reema**, 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)



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"Frontiers in the pharmaceutical sciences and pharmacy practice: A global perspective", October 21-23, 2015, Amman, Jordan.

16. Dima Sabbah, Musaab Saada, **Abu Khalaf Reema**, 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.
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18. **Abu Khalaf Reema**, 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.
19. 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.
20. Ghassan Abu Sheikha, **Abu Khalaf Reema**; Poster Presentation, FloHet-2013 Florida Heterocyclic and Synthetic Conference, March 3-6, 2013, Gainesville, Florida, USA.
21. Ghassan Abu Sheikha, **Abu Khalaf Reema**, 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.
22. **Abu Khalaf Reema**; 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.



23. **Abu Khalaf Reema**; 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.
24. **Abu Khalaf Reema**; 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.