

Ghassan M. Abu Sheikha, Ph.D.

Curriculum Vitae

Department of Pharmacy
Faculty of Pharmacy
Al-Zaytoonah University of Jordan
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EDUCATION AND TRAINING

Ph.D in Medicinal Chemistry November 1993 – July 1997
University of Pisa
Pisa, Toscana
Italy

B.S. Pharmacy July 1992 – October 1993
University of Camerino
Camerino, Macerata
Italy

B.S. Chemistry and Pharmaceutical Technology October 1985 – April 1992
University of Camerino
Camerino, Macerata
Italy

EMPLOYMENT

Professor of Medicinal Chemistry October 2016-present
Faculty of Pharmacy
Al-Zaytoonah University of Jordan
Amman, Jordan

Visiting Research Scholar June 2013 - Aug 2013
College of Pharmacy and Pharmaceutical Sciences
University of Toledo
Toledo, OH
USA

Dean July 2011 – Oct 2016
Professor of Medicinal Chemistry
Faculty of Pharmacy
Al-Zaytoonah University of Jordan
Amman, Jordan

Cont. Employment**Dean**

Sept 2005 - July 2011

Associate Professor of Medicinal Chemistry

Faculty of Pharmacy
Al-Zaytoonah University of Jordan
Amman, Jordan

Associate Professor of Medicinal Chemistry

Aug 2004 - Aug 2005

College of Pharmacy,
King Khalid University
Abha, Saudi Arabia

Associate Professor of Medicinal Chemistry

Feb 2004 - Aug 2004

Faculty of Pharmacy
Philadelphia University
Amman, Jordan

Dean

Feb 2003 - Oct 2003

Associate Professor of Medicinal Chemistry

Faculty of Pharmacy
Applied Science University
Amman, Jordan

Dean

July 2002 - Feb 2003

Assistant Professor of Medicinal Chemistry

Faculty of Pharmacy
Applied Science University
Amman, Jordan

Deputy Dean

Aug 2001 - Oct 2001

Assistant Professor of Medicinal Chemistry

Faculty of Pharmacy
Applied Science University
Amman, Jordan

Assistant Professor of Medicinal Chemistry

Sept 1998 - Feb 2003

Faculty of Pharmacy
Applied Science University
Amman, Jordan

Assistant Research Professor

July 1997 - April 1998

Faculty of Pharmacy
Camerino University
Camerino, Italy

PROFESSIONAL ACTIVITY

Summary of research interest

- Synthesis of phosphoinositide 3-kinase (PI3K α) inhibitors as anticancer agents.
- Synthesis of anti-hyperlipidemic agents.
- Synthesis of acyclic nucleoside phosphonates as anti- HIV-1 (antivirals).
- Synthesis of nucleoside analogues as anti-cancer and antiviral.

PUBLICATIONS

1. Reema Abu Khalaf, Dima Sabbah, Eveen Al-Shalabi, Samar Bishtawi, Ghadeer Albadawi, **Ghassan Abu Sheikha**. Synthesis, biological evaluation and molecular modeling study of substituted benzyl benzamides as CETP inhibitors. *Archiv Der Pharmazie*. Accepted, **2017**.
2. Rana Abu Farha, Yasser Bustanji, Yusuf Al-Hiari, Sanaa Bardaweel, Tariq Al-Qirim, **Ghassan Abu Shiekha** and Rabab Albashiti. Pharmacological Evaluation of Novel Isonicotinic Carboxamide Derivatives as Potential Anti-Hyperlipidemic and Antioxidant Agents. *Arch. Pharm. Chem. Life Sci.* **2017**, 350, e1700024.
3. 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 PI3K α Inhibitors. *Anti-Cancer Agents in Medicinal Chemistry*, accepted, **2017**.
4. Kamal Sweidan, Dima A. Sabbah, Sanaa Bardaweel, **Ghassan Abu Sheikha**, Tariq Al-Qirim, Hanadi Salih, Mustafa M. El-Abadelah, Mohammad S. Mubarak, Wolfgang Voelter. Facile synthesis, characterization and cytotoxicity study of new 3-(indol-2-yl) bicyclotetrazatridecahexaens. *Canadian Journal of Chemistry*, 95: 858–862, **2017**.
5. Reema Abu Khalaf, Hamada Abd El-Aziz, Dima Sabbah, Ghadeer Albadawi, **Ghassan Abu Sheikha**. CETP Inhibitory Activity of Chlorobenzyl Benzamides: QPLD Docking, Pharmacophore Mapping, and Synthesis. *Letters in Drug Design & Discovery*, **2017**, 14, 1391-1400.
6. Lama Hamadneh, Luay Al-Essa, Suhair Hikmat, Tariq Al-Qirim, **Ghassan Abu Sheikha**, Yusuf Alhiari, Nisrin Azmy, Ghassan Shattat. N-(3-Benzoylphenyl)-1H-Indole-2-Carboxamide Decreases Triglycerides Levels by Down Regulation of Apoc3 Gene Expression in Acute Hyperlipidemic Rat Model. *Molecular and Cellular Biochemistry*, **2017**, 431:133-138.
7. Suhair Hikmat, Tariq Al-qirim, Dania Alkabbani, Ghassan Shattat, **Ghassan Abu Sheikha**, Dima Sabbah, Reema Abu khalaf and Yusuf Al-hiari. Synthesis and *in vivo* anti-hyperlipidemic activity of novel n-benzoylphenyl-2-furamide derivatives in Wistar rats. *Tropical Journal of Pharmaceutical Research* January, **2017**, 16 (1): 193-201.
8. Reema Abu Khalaf, Sarah Al-Rawashdeh, Dima Sabbah, **Ghassan Abu Sheikha**. Molecular Docking and Pharmacophore Modeling Studies of Fluorinated Benzamides as Potential CETP Inhibitors. *Medicinal Chemistry*, **2017**, 13 (3), 239-253(15).

Cont. Publications

9. Rana Abu Farha, Yasser Bustanji, Yusuf Al-Hiari, Tariq Al-Qirim, **Ghassan Abu Shiekha** & Rabab Albashiti. Lipid lowering activity of novel N-(benzoylphenyl)pyridine-3-carboxamide derivatives in Triton WR-1339-induced hyperlipidemic rats. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 1-7.
10. Kamal Sweidan, Dima A. Sabbah, Sanaa Bardaweel, Khadeja Abu Dush, **Ghassan Abu Sheikha**, Mohammad S. Mubarak. Computer-aided design, synthesis, and biological evaluation of new indole-2-carboxamide derivatives as PI3K α /EGFR inhibitors *Bioorganic & Medicinal Chemistry Letters*, **2016**, 26, 2685-2690.
11. Ghassan F. SHATTAT, **Ghassan M. ABUSHEIKHA**, Tariq M. AL-QIRIM, Rawan HUWAITAT, Waseem EL-HUNEIDI, Reema ABU KHALAF, Yusuf M. AL-HIARI, Suhair H. JASIM & Lama HAMADANEH. Novel Pyrrole Derivatives as Potent lipid-Lowering Agents in Triton-WR-1339-Induced Hyperlipidemic Rats. *Lat. Am. J. Pharm.* **2015**, 34 (6): 1258-1264.
12. Dima A. Sabbah, Musaab Saada, Reema Abu Khalaf, Sanaa Bardaweel, Kamal Sweidan, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim, **Ghassan Abu Sheikha**. Molecular modeling based approach, synthesis, and cytotoxic activity of novel benzoin derivatives targeting phosphoinositide 3-kinase (PI3K α). *Bioorganic & Medicinal Chemistry Letters*, **2015**, 25, 3120-3124.
13. Kamal Sweidan, Dima A. Sabbah, Jörn Engelmann, Heba Abdel-Halim, **Ghassan Abu Sheikha**. Computational Docking Studies of Novel Heterocyclic Carboxamides as Potential PI3K α Inhibitors. *Letters in Drug Design & Discovery*, **2015**, 12, 856-863
14. Kamal Sweidan, Jörn Engelmann, Walid Abu Rayyan, Dima Sabbah, Musa Abu Zarga, Tariq Al-Qirim, Yusuf Al-Hiari, **Ghassan Abu Sheikha**, Ghassan Shattat. Synthesis and Preliminary Biological Evaluation of New Heterocyclic Carboxamide Models. *Letters in Drug Design & Discovery*, **2015**, 12, 417-429.
15. Al-Qirim, Tariq; Shattat, Ghassan; **Abu Sheikha, Ghassan**; Sweidan, Kamal; Al-Hiari, Yusuf; Jarab, Anan. Synthesis of N-(4-benzoylphenyl)-2-furamide Derivatives and their Pharmacological Evaluation as Potent Antihyperlipidemic Agents in Rats. *Drug Research*, **2015**, 65(3):158-163.
16. Manal AL-Najdawi, Yusuf Al-Hiari, Tariq Al-Qirim, Ghassan Shattat, Mohammad Al-Zweri and **Ghassan Abu Sheikha**. Synthesis and Pharmacological Evaluation of Novel Unsubstituted Indole-Anthraquinone Carboxamides Derivatives as Potent Anti-hyperlipidemic Agents. *Z. Naturforsch*, **69c**. **2014**, 21-28.
17. Reema Abu Khalaf, **Ghassan Abu Sheikha**, Mahmoud Al-Sha'er, Mutasem Taha. Design, Synthesis and Biological Evaluation of N⁴-Sulfonamido-Succinamic, Phthalamic, Acrylic and Benzoyl Acetic Acid Derivatives as Potential DPP IV Inhibitors. *The Open Medicinal Chemistry Journal*. **2013**, 7, 39-48.

Cont. Publications

18. Ghassan Shattat, Tariq Al-Qirim, **Ghassan Abu Sheikha**, Yusuf Al-Hiari, Kamal Sweidan, Rania Al-Qirim, Suhair Hikmat, Lama Hamadneh, Sameer Al-kouz The Pharmacological Effects of Novel 5-Fluoro-*N*-(9,10-dihydro-9,10-dioxoanthracen-8-yl)-*1H*-indole-2-carboxamide Derivatives on Plasma Lipid Profile of Triton-WR-1339-Induced Wistar Rats. *Journal of Enzyme Inhibition and Medicinal Chemistry*. **2013**, 28(4), 863-869.
19. Tariq Al-Qirim, Ghassan Shattat, Kamal Sweidan, Waseem El-Huneidi, **Ghassan Abu Sheikha**, Reema Abu Khalaf and Suhair Hikmat. In vivo Antihyperlipidemic Activity of New Series of *N*-(benzoylphenyl) and *N*-(acetylphenyl)-1-benzofuran-2-carboxamides in Rats. *Archiv der Pharmazie (Weinheim, Germany)*, **2012**, 345(5), 401-406.
20. Reema Abu Khalaf, **Ghassan Abu Sheikha**, Ghadeer Albadawi, and Mutasem O. Taha. Design, synthesis and biological evaluation of sulfonic acid ester and benzenesulfonamide derivatives as potential CETP inhibitors. *Medicinal Chemistry Research*, **2012**, 21(11), 3669-3680.
21. Yusuf Al-Hiari, Ghassan Shattat, Tariq Al-Qirim, Waseem El-Huneidi, **Ghassan Abu Sheikha** and Suhair Hikmat. Antihyperlipidemic Properties of Novel *N*-(Benzoylphenyl)-5-substituted-*1H*-indole-2-carboxamides in Triton WR-1339-Induced Hyperlipidemic Rats. *Molecules* **2011**, 16(10): 8292-8304.
22. Rana M. OBAIDAT, Ammar BADER, Wafa AL-RAJAB, **Ghassan ABU SHEIKHA**, Aiman A. OBAIDAT. Preparation of Mucoadhesive Oral Patches Containing Tetracycline Hydrochloride and Carvacrol for Treatment of Local Mouth Bacterial Infections and Candidiasis. *Sci. Pharm.* **2011**; 79: 197–212.
23. **Ghassan Abu Sheikha**, Mahmoud A. Al-Sha'er, Mutasem O. Taha. Some Sulfonamide drugs inhibit ATP-ase activity of heat shock protein 90: investigation by docking simulation and experimental validation. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 26, 603-609, **2011**.
24. **Ghassan Abu Sheikha**, Buthina Hussin, Yusuf Al-Hiari, Tariq Al-Qirim and Ghassan Shattat. Synthesis of Benzothiophene Carboxamide Derivatives and Their Pharmacological Evaluation as Potent Antihypertriglyceridemic Agents in Rats. *Z. Naturforsch*, 66c, 93-103, **2011**.
25. Ghassan Shattat, Rania Al-Qirim, Yusuf Al-Hiari, **Ghassan Abu sheikha**, Tariq Al-Qirim, Waseem El-Huneidi and Moyad Shahwan. Synthesis and Anti-Hyperlipidemic Evaluation of *N*-(Benzoylphenyl)-5-fluoro-*1H*-indole-2-carboxamide Derivatives in Triton WR-1339-Induced Hyperlipidemic Rats. *Molecules* 15, 5840-5849, **2010**.
26. **Ghassan Abu Sheikha**, Reema Abu Khalaf, Areej Melhem and Ghadeer Albadawi. Design, Synthesis, and Biological Evaluation of Benzylamino-Methanone Based Cholesteryl Ester Transfer Protein Inhibitors. *Molecules* 15, 5721-5733, **2010**.

Cont. Publications

27. Moyad Shahwan, Ghassan Shattat, Tariq Al-Qirim, **Ghassan Abu Sheikha**, Usuf Al-Hiari, Waseem El-Huneidi, Anan Jarab and Manal Al-Najdawi. Synthesis and Pharmacological Evaluation of Novel Substituted and Unsubstituted *N*-(benzoylphenyl)-1*H*-indole-2-carboxamides As Potent Anti-Hypertriglyceridemic Agents. *Z. Naturforsch*, 65 C, 309-316, **2010**.
28. Afaf al-Nadaf, **Ghassan Abu Sheikha**, Mutasem O. Taha. Elaborate ligand-based pharmacophore exploration and QSAR analysis guide the synthesis of novel pyridinium-based potente β -secretase inhibitory leads. *Bioorganic & Medicinal Chemistry* 18, 3088-3115, **2010**.
29. Reema Abu Khalaf, **Ghassan Abu Sheikha**, Yasser Al Bustanji, Mutasem O. Taha. Discovery of new cholesteryl ester transfer protein inhibitors via ligand-based pharmacophore modelling and QSAR analysis followed by synthetic exploration. *European Journal of Medicinal Chemistry* 45, 1598-1617, **2010**.
30. Mutasem O. Taha, May Tarirah, Hiba Zalloum, **Ghassan Abu Sheikha**. Pharmacophore and QSAR modeling of estrogen receptor α -ligands and subsequent validation and *in silico* search for new hits. *Journal of Molecular Graphics and Modelling*, 28, 383-400, **2010**.
31. Tariq Al-Qirim, Moyad Shahwan, Ghassan Shattat, Yusuf Al-Hiari, **Ghassan Abu Sheikha**, and Sayed Zaidi. Pharmacological Evaluation of Novel Indole-2-carboxamides As Potent Lipid-Lowering Agents in Triton-WR- 1339-Induced Hyperlipidemic Rats. *Z. Naturforsch*, 64c, 619-625, **2009**.
32. Kamal Sweidan, Qutaiba Abu-Salem, Ahmed Al-Sheikh and **Ghassan Abu Sheikha**. Novel Derivatives of 1,3-Dimethyl-5-methylenebarbituric acid. *Letters in Organic Chemistry*, 6, 669-672, **2009**.
33. Mahmoud Sunjuk, Mousa Al-Noaimi, **Ghassan Abu Sheikha**, Ekkehard Lindner, Bassam El-Eswed, Kamal Sweidan. Synthesis and characterization of water-soluble palladium (II)-functionalized diphosphine complexes. *Polyhedron*, 28, 1393-1398, **2009**.
34. Areej Abu-Hammad, Waleed A. Zalloum, Hiba Zalloum, **Ghassan Abu Sheikha**, Mutasem O. Taha. Homology modelling of MCH1 receptor and validation by docking /scoring and protein-aligned CoMFA. *European Journal of Medicinal Chemistry*, 44, 2583-2596, **2009**.
35. Yusuf M. A-Hiari, Bassam A. Sweileh, Ashok K. Shakya, **Ghassan Abu Sheikha**, and Sabah I. Almuhtaseb. Synthesis of 1-benzyl-1, 2, 3, 4-tetrahydroisoquinoline, Part I: Grignard synthesis of 1-(substitutedbenzyl)-1, 2, 3, 4-tetrahydroisoquinoline models with potential antibacterial activity. *Jordan Journal of Pharmaceutical Sciences*, 1-21, vol. 2, No. 1, **2009**.
36. Ahmed O. Maslat, Majdi Bkhaitan, and **Ghassan Abu Sheikha**. Study of the Effects on DNA of Two Novel Nucleoside Derivatives Synthesized as Potential Anti-HIV Agents. *Drug and Chemical Toxicology*, 30:41-53, **2007**.

Cont. Publications

37. **Ghassan M. Abu Sheikha**, Rami A. Al-Hourani, Ali M. Qaisi, Majdi M. Bkhaitan, Roberta Loddo, and Paolo La Colla. Synthesis and in *Vitro* Antiviral Studies of *Bis*(Pivaloyloxymethyl) Ester Derivative of 9- {[(Phosphonomethyl)aziridin-1-yl]methyl} Adenine (PMAMA) and Analogues. *Saudi Pharmaceutical Journal*, 16-22, vol. 15, No. 1, **2007**.
38. **Ghassan Abu Sheikha**, Paolo La Colla, and AnnaGiulia Loi. A New Class of Acyclic nucleoside Phosphonates: Synthesis and Biological Activity Studies of 9- {[(Phosphonomethyl)-aziridin-1-yl] methyl} guanine [PMAMG] and Analogues. *Nucleosides, Nucleotides & Nucleic Acids*. **2002**, vol. 21, No. 10, 619-635.
39. **Ghassan Abu Sheikha**. A New Class of Acyclic Nucleoside Phosphonates: Synthesis of Potential Antiviral 9- {[(Phosphonomethyl)-aziridin-1-yl]methyl} guanine [PMAMG] and Analogues. *Jordan Journal of Applied Sciences*. **2001**:3 (6), 46-57.
40. Palmarisa Franchetti, **Ghassan Abu Sheikha**, Loredana Cappellacci, Stefano Marchetti, Mario Grifantini, Emanuela Balestra, Carlo-Federico Perno, Umberto Binatti, Giorgio Brandi, Luigia. Rossi, and Mauro Magnani. A New Acyclic Heterodinucleotide Active Against Human Immunodeficiency Virus and Herpes Simplex Virus. *Antiviral Research*. **2000**, 47, 149-158.
41. Palmarisa Franchetti, **Ghassan Abu Sheikha**, Loredana Cappellacci, Mario Grifantini, Emanuela Balestra, Carlo-Federico Perno, Giorgio Brandi, Luigia Rossi, and Mauro Magnani. Synthesis and Biological Application of a New Heterodinucleotide With Both Anti-HSV and Anti-HIV Activity. *Nucleosides & Nucleotides*. **1999**, 18(4&5), 989-990.
42. **Abu Sheikha G.**, Tramontano E., Loi A. G., Franchetti P., Grifantini M., La Colla P. Effect of Acyclic Nucleoside Phosphonates on the HIV-1 Integrase in vitro. *Nucleosides & Nucleotides*. **1999**, 18(4&5), 849-851.
43. P Franchetti, P Perlini, **G Abu Sheikha**, L Cappellacci, M Grifantini, AG Loi, A De Montis, A Pani, ME Marongiu, and P La Colla. Potent and selective inhibitors of human immunodeficiency virus protease structurally related to L-694,746. *Antiviral Chemistry & Chemotherapy*. **1998**.9, 303-309.
44. L. Cappellacci, P. Franchetti, **G. Abu Sheikha**, H. N. Jayaram, V. V. Gurudutt, T. Sint, B. P. Schneider, B. M. Goldstein, G. Perra, S. Poma, P. La Colla, and M. Grifantini. Synthesis and Cytotoxic Activity of Selenophenfurin, A New Inhibitor of IMP Dehydrogenase. *Nucleosides & Nucleotides*. **1997**, 16(7-9), 1045-1048.
45. P. Franchetti, L. Cappellacci, **G. Abu Sheikha**, H. N. Jayaram, B. P. Schneider, T. Sint, V. V. Gurudutt, F. R. Collart, E. Huberman, and M. Grifantini. Synthesis and IMP Dehydrogenase (type I and type II) Inhibitory Activity of Isosteric NAD Analogs Derived from Thiophenfurin and Furanfurin. *Nucleosides & Nucleotides*. **1997**, 16(7-9), 1415-1418.

Cont. Publications

46. Palmarisa Franchetti, Loredana Cappellacci, **Ghassan Abu Sheikhha**, Hiremagalur N. Jayaram, Vivek V. Gurudutt, Thaw Sint, Bryan P. Schneider, William D. Jones, Barry M. Goldstein, Graziella Perra, Antonella De Montis, Anna Giulia Loi, Paolo La Colla, and Mario Grifantini. Synthesis, Structure, and Antiproliferative Activity of Selenophenfurin, an Inosine 5'-Monophosphate Dehydrogenase Inhibitor Analogue of Selenazofurin. *Journal of Medicinal Chemistry*. **1997**, vol. 40, No. 11, 1731-1737.
47. Palmarisa Franchetti, **Ghassan Abu Sheikhha**, Paolo Perlini, Farhat Farhat, Mario Grifantini, Graziella Perra, Carlo Milia, Monica Potzolu, Paolo La Colla, and Maria Elena Marongiu. Synthesis of Unsaturated Analogues of 9-[2-(Phosphonomethoxy)propyl]guanine as Antiviral Agents. *Nucleosides & Nucleotides*. **1997**, 16(10&11), 1921-1932.
48. P. Franchetti, L. Cappellacci, **G. Abu Sheikhha**, M. Grifantini, A. G. Loi, A. De Montis, M. G. Spiga, and P. La Colla. Acyclic Nucleotides Related to Clitocine: Synthesis and Anti-HIV Activity. *Nucleosides & Nucleotides*. **1995**, 14(3-5), 607-610.
49. Palmarisa Franchetti, **Ghassan Abu Sheikhha**, Loredana Cappellacci, Mario Grifantini, Antonella De Montis, Giovanna Piras, Anna Giulia Loi, and Paolo La Colla. Synthesis and Antiviral Activity of 8-Aza Analogs of Chiral [2-(Phosphonomethoxy)propyl]guanines. *Journal of Medicinal Chemistry*. **1995**, 38, 4007-4013.
50. L. Cappellacci, P. Franchetti, M. Grifantini, **G. Abu Sheikhha**, G. Nocentini, R. Moraca, B. M. Goldestien. Synthesis, Antitumor Activity and Crystallographic Studies of Analogues of Tiazofurin. *Nucleosides & Nucleotides*. **1995**, 14(3-5), 637-640.
51. P. Franchetti, L. Messini, L. Cappellacci, **G. Abu Sheikhha**, M. Grifantini, P. Guarracino, A. De Montis, A. G. Loi, M. E. Marongiu, and P. La Colla. 8-Aza-1-Deazapurine Nucleosides as Antiviral Agents. *Nucleosides & Nucleotides*. **1994**, 13(8), 1739-1755.
52. Palmarisa Franchetti, Loredana Cappellacci, Mario Grifantini, Lea Messini, **Ghassan Abu Sheikhha**, Anna Giulia Loi, Enzo Tramontano, Antonella De Montis, Maria Grazia Spiga, and Paolo La Colla. Synthesis and Evaluation of the Anti-HIV Activity of Aza and Deaza Analogues of Isodda and Their Phosphonates as Prodrugs. *Journal of Medicinal Chemistry*. **1994**, 37, 3534-3541.
53. P. Franchetti, **G. Abu Sheikhha**, L. Cappellacci, L. Messini, M. Grifantini, A. G. Loi, A. De Montis, M.G. Spiga, and P. La Colla. 8-Aza-Analogues of PMEA and PMEG: Synthesis and *in vitro* anti-HIV Activity. *Nucleosides & Nucleotides*. **1994**, 13(8), 1707-1719.

PUBLISHED ABSTRACTS

1. Mammalian DNA Repair, February 19-24, 2017, Four Points Sheraton/ Holiday Inn Express, Ventura, CA, USA. Structure-based drug design, synthesis, X-ray crystallography, and biological evaluation of N-substituted-4-hydroxy-2-quinolone-3-carboxamides as PI3K α inhibitors.
2. Computer Aided Drug Design: New Frontiers in computer-Aided Drug Design, July 19-24, 2015, Grand Summit Hotel, Mount Snow, West Dover, VT, USA.
3. Ligand Recognition & Molecular Gating: Structure and Dynamics of Ion Channels, G-Protein Coupled Receptors, and Solute Transporters, March 23-28, 2014, Four Points Sheraton/ Holiday Inn Express, Ventura, CA, USA.
4. FloHet-2013 Florida Heterocyclic and Synthetic Conference, March 3rd -March 6th, 2013, Gainesville, Florida, USA.
5. The Sixth International Conference of the Royal Medical Services, King Hussein Bin Talal Convention Center ,10-12 November 2012, Dead Sea, Jordan.
6. Faculties of Pharmacy at Al-Zaytoonah University of Jordan and The University of Toledo International Pharmaceutical Conference (ZTIPC 2012), 17-19 October 2012, Amman, Jordan.
7. Challenges in Organic Chemistry and Chemical Biology (ISACS7), 12-15 June 2012, Edinburgh, UK.
8. The 4th International Conference on Healthcare, Faculty of Pharmacy and Medical Sciences, 4-5 May 2011, Al-Ahliyya Amman University, Amman, Jordan.
9. Jordanian International Pharmaceutical Conference 2010 "Towards Pharmaceutical Discovery", Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan, 20-22 October 2010.
10. 11th Eurasia Conference on Chemical Sciences, the Dead Sea, Jordan, 6-10 October 2010.
11. International Symposia on Advancing the Chemical Sciences-Challenges in Organic Chemistry and Chemical Biology (ISACS1). The Fairmont, San Francisco, USA 6-9 July 2010.
12. Pharmaceutical Jordanian International Conference 2008, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan, 15-17 October 2008.
13. Pharmaceutical Jordanian International Conference 2006, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan, November 15-17, 2006.
14. The Tenth Jordanian Pharmaceutical Conference, Radisson Sas Hotel, Amman, Jordan, March 13-16, 2002.
15. First Symposium on Antiviral and Anticancer Agents (2001) Applied Science University, Amman, Jordan, March 2-3, 2001.
16. Ninth Research PROJECT on AIDS (1996) Progress Report, Rome, Italy, January 13-17, 1997.
17. Eleventh International Round Table on Nucleosides, Nucleotides and their Biological Applications, La Jolla, California USA, September 15-19, 1996.
18. XIII National Congress in Pharmaceutical Chemistry, Paestum (Salerno), Italy, September 23-27, 1996.
19. XVI Advanced Course in Pharmaceutical Chemistry, Urbino/Italy 2-6 July 1996.

Cont. Published Abstracts

20. II Conjoint Italian-Spanish Congress in Pharmaceutical Chemistry, Ferrara, Italy, August 30-September 3, 1995.
21. XV Advanced Course in Pharmaceutical Chemistry, Urbino/Italy 3-7 July 1995.
22. AIDS PROJECT, Rome, Italy, May 29- June 2, 1995.
23. III Meeting of the Scientific Purine Club, Chieti, Italy, 20-21 October 1994.
24. XI National Congress in Pharmaceutical Chemistry, Bari, Italy, 2-5 October 1994.
25. Eleventh International Round Table on Nucleosides, Nucleotides and their Biological Applications, Katholieke Universiteit Leuven September 7-11, 1994.
26. XIV Advanced Course in Pharmaceutical Chemistry, Urbino/Italy 5-9 September 1994.
27. AIDS PROJECT, Rome, Italy July, 4-8 1994.
28. The VIth International Antiviral Symposium, Acropolis, Nice, France, June 7-10, 1994.
29. Analytical Technique and Organization of the Quality Control Laboratory, Firenze, Italy, May 20, 1994.
30. Seventh International Conference on Antiviral Research, Charleston, SC., USA 27 February-4 March 1994.
31. Italian Society of General Microbiology and Microbiological Biotechnology XII Scientific Congress, Camerino (MC), Italy September 26-29 1993.
32. Joint Meeting Society for drug research, Queens' College, Cambridge, UK 14th-16th July 1993.
33. AIDS PROJECT, Orbetello (GR), Italy June 19-23, 1993.
34. Sixth International Conference on Antiviral Research, Venice, Italy April 25-30, 1993.
35. XII Advanced Course in Pharmaceutical Chemistry, Urbino/Italy 9-11 September 1992.
36. JANUACHEM 92: National Congress of the Italian Chemical Society, Genova/Italy 25-30 October 1992.

NATIONAL AND INTERNATIONAL MEETINGS

1. ASU pharmacy Second Symposium. "Recent Trends in Postgraduate Research", April 15-16th, 2017, Applied Science University, Amman, Jordan. Poster presentation: N-substituted-4-hydroxy-2-quinolone-3-carboxamides as potential PI3Ka inhibitors. The poster is awarded the Third Place in Postgraduate Poster Competition. Ameerah (Hasan Ibrahim), Byana Hishmah, Dima A. Sabbah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Reema Abu Khalaf, Haizhen A. Zhong, Tariq Al-Qirim and Ghassan Abu Sheikha.
2. Excellence in Pharmacy Education and Research: A Quality Approach, October 25-27, 2016, Faculty of Pharmacy, Jordan University: Modeling the Protonation States of β -Secretase Binding Pocket Employing Molecular Dynamic Simulations and Docking Studies.

Cont. National and International Meetings

3. ASU pharmacy Second Symposium. Recent Trends in Postgraduate Research, December 5-6, 2015, Applied Science University, Amman, Jordan.
4. Arabic Conference for the Scientific Research Development: Scientific Research between Ambition and Reality, October 25-27, 2015, Landmark Hotel, Amman, Jordan.
5. International Pharmaceutical Conference 2015 (ZTIPC 2015). Frontiers in the Pharmaceutical Sciences and Pharmacy Practice: A global perspective, October 21-23, 2015, Al-Zaytoonah University of Jordan, Amman, Jordan. Oral Presentation: From Hit to Lead: Structure-Based Drug Design, Synthesis, and Biological Evaluation of Novel Benzoin Derivatives as PI3K α Inhibitors.
6. International Pharmaceutical Conference 2015 (ZTIPC 2015). Frontiers in the Pharmaceutical Sciences and Pharmacy Practice: A global perspective, October 21-23, 2015, Al-Zaytoonah University of Jordan, Amman, Jordan. Oral Presentation: Synthesis and Biological Evaluation of Substituted Fluorinated Benzylamino Benzamides as Potent CETP Inhibitors.
7. First Public Sector Pharmacists Conference: Towards Pharmacy Excellence in Public Sector, Landmark Hotel, June 11-16, 2015, Amman, Jordan.
8. Bilateral workshop between Faculty of Pharmacy, Al-Zaytoonah University of Jordan, and Faculty of Pharmacy, University of Szeged, Hungary. Tuesday 21 October 2014, Al-Zaytoonah University of Jordan, Amman-Jordan.
9. The 15th Scientific Congress of the Jordanian Pharmacists Association "Pharmacy Perspectives" an evolving role in community health, Landmark Hotel, April 3-5, 2014, Amman, Jordan.
10. American Association of Colleges of Pharmacy (AACCP) Meeting, July, 13-17, 2013 Chicago, IL 60611, USA.
11. The 15th Scientific Congress of the Association of the Pharmacy Colleges in the Arab World and the 3rd International Conference of Faculty of Pharmacy at the University of Jordan, 9-11 October 2012, Amman, Jordan.
12. The 14th Jordanian Pharmaceutical Conference: Contemporary Challenges for the pharmacy profession, Amman, Jordan, 26-28 April 2012.
13. The 1st Technosphere 2012 Conference. The 14th Annual SACPAW Congress and the 2nd International Conference of AUST College of Pharmacy and Health Sciences, 7-9 Feb 2012, AUST, Ajman, UAE.
14. Pharmacy Education: Perspectives of Career Market. Scientific day at the Faculty of Pharmacy, Jordan University, 28/04/2011, Amman, Jordan.
15. The 13th Conference of Scientific Association of Colleges of Pharmacy in the Arab World, Misr University for Science and Technology, Hilton Hotel, Six October City, Egypt, 25-28 May 2010.
16. 5th International Conference of the Royal Medical Services: Future Directions in Health Care, King Hussein Bin Talal Convention Center, Dead Sea-Jordan, 3-6 May 2010.
17. The 13th Jordanian Pharmaceutical Conference, Amman, Jordan, 22-24 April 2010.

Cont. National and International Meetings

18. The 12th Conference of Scientific Society of the Faculties of Pharmacy in the Arab World and the 3rd conference of pharmaceutical sciences: Future vision in pharmaceutical sciences, Aleppo, Syria, November 5-7, 2008.
19. The 11th Conference of Scientific Society of the Faculties of Pharmacy in the Arab World, Tripoli, Libya, December 4-7, 2007.
20. First OTC Conference Organized by Jordanian Association. Amman-Jordan, 1-2/12/2006.
21. The Eleventh Jordanian Pharmaceutical Conference, Meridian Hotel, Amman, Jordan, September 28-30, 2005.
22. The Second Annual Scientific Research Day of The College , May 05, 2005, College of Medicine, King Khalid University, Abha, Saudi Arabia.
23. The First Scientific Meeting by Saudi Society for Medical Education, 21-23 November, 2004, Abha, Saudi Arabia.
24. The 2nd International Conference of the Royal Jordanian Medical Services, 7-10 October 2003, Amman-Jordan.
25. The 6th Scientific Congress of the Association of Colleges of Pharmacy in the Arab World and the 1st International Conference of Faculty of Pharmacy and Health Sciences Ajman University of Science and Technology (AUST) (Technosphere 2002), Ajman, UAE, October 19-21, 2002.

SUMMARY OF RESEARCH FUNDING

- PI, investigator or co-investigator on total funding of about \$ 1.16 M to date (1999 - present).
- Current
 - Co-investigator, Al-Zaytoonah University of Jordan Grant (2017-2019; \$55.00). Project title: Design, Synthesis, and Biological Evaluation of a new series of CETP Inhibitors.
 - Co-investigator, Al-Zaytoonah University Grant (2015-2017; **\$60.000**). Project title: 3-Benzylamino-benzamides: Design, synthesis and biological evaluation as novel CETP inhibitors.
 - Co-investigator, Al-Zaytoonah University Grant (2014-2017; **\$165.000**). Project title: Design, synthesis, and biological assay of novel PI3K α inhibitors.
- Past
 - PI: Al-Zaytoonah University Grant (2012-2014; **\$156.000**). Project title: Synthesis and *in vitro* and *in vivo* biological studies of a new series of indole-carboxamide benzophenones as anti-hyperlipidemia.
 - Co-investigator, Al-Zaytoonah University Grant (2012-2014; **\$183.000**). Project title: Drug design, synthesis and *in vitro* and *in vivo* biological evaluation of quinolines derivatives as CETP inhibitors.

Cont. summary of research funding

- PI: Al-Zaytoonah University Grant (2008-2011; **\$282.000**). Project title: Synthesis and biological evaluation of anti-hyperlipidemia agents.
- PI: Al-Zaytoonah University Grant (2007-2010; **\$99.000**). Project title: Synthesis and *in vivo* evaluation of indole-carboxamide anthraquinone derivatives as anti-hypertriglyceridemia.
- PI: Al-Zaytoonah University Grant (2006-2007; **\$17.000**). Project title: Synthesis of antiviral acyclic nucleotides.
- PI: Applied Science University Grant (1999-2003; **\$40.000**). Project title: Synthesis of antiviral acyclic nucleotides.

TEACHING EXPERIENCE

- Total nineteen years of classroom and laboratory teaching undergraduate and graduate courses in drug design, organic pharmaceutical and medicinal chemistry; in addition of supervising, co-supervising and external and internal examiner for **50** graduate students (MS and Ph.Ds.).
- Seven years of classroom teaching graduate courses in advanced organic pharmaceutical and medicinal chemistry at Al-Zaytoonah University of Jordan.
- Eight years of classroom and laboratory teaching undergraduate courses in organic pharmaceutical and medicinal chemistry at Al-Zaytoonah University of Jordan.
- One year of classroom and laboratory teaching undergraduate courses in organic pharmaceutical and medicinal chemistry at King Khalid University.
- One year of classroom and laboratory teaching undergraduate courses in organic pharmaceutical and medicinal chemistry at Philadelphia University.
- Five years of classroom and laboratory teaching undergraduate courses in organic pharmaceutical and medicinal chemistry at Applied Science University.

**COURSES
TAUGHT**

Advanced Medicinal Chemistry (Graduate course for Ms. Students)
Advanced Organic Pharmaceutical Chemistry (Graduate course for Ms. Students)
Research Methodologies (Ms. Students)
Organic Pharmaceutical Chemistry I
Organic Pharmaceutical Chemistry II
Medicinal Chemistry II
Medicinal Chemistry III
Drug Design
Principles in Pharmaceutical Research
Practical Pharmaceutical Research Workshop
Organic Pharmaceutical Chemistry Lab I
Organic Pharmaceutical Chemistry Lab II
Medicinal Chemistry Lab II
Medicinal Chemistry Lab III
Principles in Pharmaceutical Research Lab

GRADUATE STUDENTS (PRIMARY ADVISOR, CO-ADVISOR, AND EXAMINER)

1. **Shorooq Qazaqi (M. S)**. Synthesis and Biological Evaluation of Sulfonamide Derivatives as New DPPIV Inhibitors. **2017**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
2. **Barah Al Azaydeh (M. S)**. Design, Synthesis, and Biological Evaluation of Benzophenone Hydrazone Derivatives as PI3K α Inhibitors. **2017**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
3. **Nisreen Shaban (M. S)**. Optimization of 4-Hydroxy-2-Quinolone-3-Carboxamide Core Nucleus Targeting PI3K α Inhibition. **2017**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
4. **Safa Dauod (Ph.D)**. Discovery and synthesis of Novel small Molecular Anagonists against Janus Kinase 1 and Chemokine Receptor 4 as Leads for Treatment of Autoimmune Diseases. **2017**. Faculty of Pharmacy/ University of Jordan.
5. **Soha Telfah (Ph.D)**. Drug Discovery and Chromatographic Optimization of New Carbonic Anhydrase III Ligands. **2016**. Faculty of Pharmacy/ University of Jordan.
6. **Haneen Kalloush (M. S)**. Design, Synthesis and *In Vivo* Biological Evaluation of Benzimidazole-2-Carboxamide Derivatives as Anrihyperlipidemic Agents. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
7. **Haneen Abu Zeid (M. S)**. Design, Synthesis and *In Vivo* Biological Evaluation of Imidazole-5-Carboxamide Derivatives as Lipoprotein Lipase Activator. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
8. **Shereen Arabiyat (Ph.D)**. Synthesis, Docking and Evaluation of Novel Fluoroquinolones and Triazolofluoroquinolonesas Potential Pancreatic Lipase Inhibitors and Antiproliferative Compounds. **2016**. Faculty of Pharmacy/ University of Jordan.
9. **Ammar Ghalib Barakat (M. S)**. Establishment of Impurity Profile for Prasugrel Hydrochloride in Tablets form by using liquid chromatography: Identification and Synthesis of Impurities. **2016**. Faculty of Science/Jordan University.
10. **Reem AbuTayeh (Ph.D)**. Implementation of Computer Aided Drug Design Methodologies for the Discovery of Novel Small Molecule Inhibitors against FMS-Like Tyrosine Kinase (FLT3). **2016**. Faculty of Pharmacy/ University of Jordan.
11. **Ameerah Hasan Ibrahim (M. S)**. Optimization and Synthesis of Benzoin Derivatives as PI3K α Inhibitors. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
12. **Fatima Al-Tarawneh (M.S)**. Design, Synthesis, and Biological Evaluation of Benzoin Schiff's Bases as Antitumer Agents. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
13. **Dalal Al Masalha (M. S)**. Phenanthridines: Design, Synthesis and Biological Evaluation as Potential DPP-IV Inhibitors. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
14. **Nisrin El-Shennawy (M. S)**. Molecular Characterization of the Antihyperlipidemic Activity of Novel Indole-Carboxamides Series in Rats. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
15. **Sarah Al-Rawashdeh (M. S)**. Fluorinated Benzamides: Design, Synthesis and Biological Evaluation as Potential CETP Inhibitors. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.

Cont. Graduate Students

16. **Nisreen Haj Ahmed (M. S)**. Synthesis and Antihyperlipidemic Properties of Novel N-(4-Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives. **2016**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
17. **Amneh Abu Al-Inin (M. S)**. Synthesis and Biological Evaluation of 5-Bromo-Indole-2-Carboxamide Derivatives. **2015**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
18. **Wafa Mera (M. S)**. Discovery of New Agents for B Cell Lymphomas as Bruton's Tyrosine Kinase Inhibitors via Ligand-Based Pharmacophore Modelling, QSAR Analysis and *In Vitro* Validation. **2015**. Faculty of Pharmacy / Jordan University.
19. **Raja Badarneh (M. S)**. Design and Synthesis of Novel Thiazole Based Scaffold Derivatives Targeting Glyoxalase I Enzyme as Anticancer Candidates. **2015**. Faculty of Pharmacy/ Jordan University of Science and Technology (JUST).
20. **Shada Alabed (M. S)**. Computer Aided Drug Design and Discovery of New Fibroblast Growth Factor Receptor-1 Inhibitors (FGFR-1Is) Followed by *In Vitro* Assay. **2015**. Faculty of Pharmacy / Jordan University.
21. **Haneen Kalloush (M. S)**. Design, Synthesis and *In Vivo* Biological Evaluation of Modified Indole-2-Carboxamide Derivatives as Anrihyperlipidemic Agents. **2015**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
22. **Haneen Abu Zeid (M. S)**. Design, Synthesis and *In Vivo* Biological Evaluation of Imidazole-2-Carboxamide Derivatives as Lipoprotein Lipase Activator. **2015**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
23. **Amira Ibrahim (M. S)**. Optimization and Synthesis of Benzoin Derivatives as PI₃K α Inhibitors. **2015**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
24. **Fatima Al Tarawneh (M. S)**. Design, Synthesis and Biological Evaluation of Benzoin Schiff Bases as Antitumor Agents. **2015** Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
25. **Haneen Mohammad (M.S)**. Screening and Size Effect Investigation of Nicotinic Acid Analogues as Potential Carbonic Anhydrase III Inhibitors to Treat Hyperlipemia. **2015**. Faculty of Pharmacy / Jordan University.
26. **Khadija Abu Dosh (M.S)**. Synthesis, Characterization and Biological Evaluation of Some New Indole-2-Carboxamide Derivatives. **2015**. Faculty of Science/Jordan University.
27. **Mervat Sammor (Ph.D)**. Computer-Aided Design, Synthesis, and Biological Evaluation of New Indolequinone-3-Carboxamide Derivatives as Anticancer Agents. **2015**. Faculty of Science/Jordan University.
28. **Dania Al Kabbani (M.S)**. Synthesis and Biological Evaluation of Novel N-Benzoylphenyl-2-Furamide Derivatives. **2015**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
29. **Sarah AlRawashdeh (M.S)**. Fluorinated Benzamides: Design, synthesis and biological evaluation as potential CETP inhibitors. **2014**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
30. **Hamada Mansour (M.S)**. Synthesis and biological evaluation of substituted fluorinated alkyloxy benzylamino benzenamide as potential CETP inhibitors. **2014**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.

Cont. Graduate Students

31. **Samar Theyab (M.S)**. Study of potential interaction between selected pharmaceutical agents in tablets prepared with cyclodextrin. **2013**. Faculty of Pharmacy/Jordan University.
32. **Bayan Hishmah (M.S)**. Design, synthesis, and biological assay of novel PI3K α inhibitors. **2013**. Faculty of Pharmacy/ Al-Zaytoonah University of Jordan.
33. **Mohammed Alhindi (M.S)**. Design, Synthesis and biological Evaluation of a New Series of Potential CETP Inhibitors. **2012**. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
34. **Rawan Alashagar (M.S)**. In Vivo Antihyperlipidemic Properties of Novel Pyrrole-2-Carboxamide Derivatives in Triton WE-1339-Induced Hyperlipidemic Rats. **2012**. Faculty of Pharmacy/Al-Zaytoonah University of Jordan.
35. **Lubnah Mahmoud (Ph.D)**. Synthesis and Biological Screening of Novel h-Fused Heterocycles onto 4-Oxoquinolones; Diazepines and Benzodiazepine. **2011**. Faculty of Pharmacy/Jordan University.
36. **Rabab F. Tayyem. (Ph.D)**. Discovery and Optimization of new Fructose-1,6-Bisphosphatase (FBP) inhibitors as potential antidiabetic agents . **2011**. Faculty of Pharmacy/Jordan University.
37. **Jumanah Al-Shawabkeh . (M.S)**. Optimization of new HSL inhibitors Guided by Pharmacophore and QSAR models. **2011**. Faculty of Pharmacy / Jordan University.
38. **Mai Taraira . (M.S)**. Discovery of new estrogen-receptor B (ERB) selective antagonists as potential anti-inflammatory agen. **2011**. Faculty of Pharmacy / Jordan University.
39. **Buthainah Hussein. (M.S)**. Preparation and study antihyperlipidemic properties of new benzothiophen-2-carboxamide derivatives. **2009**. Faculty of Pharmacy / Jordan University.
40. **Afaf Al Nadaf (Ph.D)**.Discovery and optimization of new b-secretase inhibitors as possible treatment for alzheimer's. **2009**. Faculty of Pharmacy / Jordan University.
41. **Lorka Al-Zo'ubi (M.S)**. Synthesis and antimicrobial evaluation of N-piperazinamide analogues of Ciprofloxacin and Norfloxacin. **2009**. Faculty of Pharmacy / Jordan University of Science and Technology (JUST).
42. **Reema Abu Khalaf (Ph.D)**. Discovery of new cholesteryl ester transfer protein (CETP) inhibitors via ligand-based pharmacophore modelling and QSAR analysis and subsequent hit optimization. **2009**. Faculty of Pharmacy / Jordan University.
43. **Tareq Al-Hraznah (M.S)**. Design and Synthesis of Azole Containing Abeitic Acid Derivatives and Their Biological Evaluation. **2009**. Faculty of Pharmacy / Jordan University of Science and Technology (JUST).
44. **Lina Dahabeyah (M.S)**. Discovery of new Hormone Sensitive Lipase inhibitors via Ligand-based Pharmacophore modeling and QSAR analysis followed by experimental validation. **2008**. Faculty of Pharmacy / Jordan University.
45. **Rufaida Al- Zoubi (M.S)**.Synthesis and antibacterial evaluation of novel 8-nitro-fluoroquinolone derivatives. **2008**. Faculty of Pharmacy / Jordan University.

Cont. Graduate Students

46. **Reema Ottom (M.S)**. Preparation of novel matrices based on composites of alginate/small molecule carboxylic acid derivatives via ionotropic crosslinking using zinc (II) and their evaluation as sustained release formulations using methylene blue as loaded drug model. **2008**. Faculty of Pharmacy / Jordan University.
47. **Rushdi Abu Hamdah (M.S)**. Modeling the Pharmacophoric Properties of the Skin Pigmentation Enzyme “Tyrosinase” followed by *in-silico* and *in-vitro* screening for new hits. **2007**. Faculty of Pharmacy / Jordan University.
48. **Areej Abu Hammad (M.S)**. Combining Docking, Scoring and Molecular Field Analysis to Probe Influenza Neuraminidase-Ligand Interactions. **2006**. Faculty of Pharmacy/Jordan University.
49. **Anas Al Mazari (M.S)**. Synthesis of Qinolones analogues with potential antibacterial activity. **2005**. Faculty of Pharmacy at the Jordan University.
50. **Dima Azzam (M.S)**. Synthesis of Nitro-furan derivatives of potential antibacterial activity. **2003**. Faculty of Pharmacy at the Jordan University.
51. **Rami Al Hourani (M.S)**. Synthesis of Acyclic Nucleoside Phosphonate Prodrugs of Potential Antiviral Activity. **2001-2003**. Faculty of Pharmacy / Jordan University.

PATENTS

1. Tariq Al-Qirim, Ghassan Shattat, Kamal Sweidan, **Ghassan Abu Sheikha**, Yusuf Al-Hiari. Benzofuran- and benzothiophene-2-carboxamide derivatives, a process for their preparation and their use as potential antihyperlipidaemic agents. **Jordan Patent 47 /2009**.
2. Ghassan Shattat, Tariq Al-Qirim, Moyad Shahwan, Yusuf Al-Hiari, **Ghassan Abu Sheikha**. N-substituted-1H-indole-2-carboxamide derivatives, a process for their preparation and their use as potential antihyperlipidaemic agents. **Jordan Patent 373/2008**.

AWARDS

1. Distinguished researcher award from Al-Zaytoonah University of Jordan in 2010.
2. Distinguished researcher award from Al-Zaytoonah University of Jordan in 2012.

OTHER ACHIEVEMENTS

1. Establishment of excellence center for research infrastructure composed of a numerous labs in medicinal chemistry and drug design, molecular modeling, pharmaceutical microbiology, pharmaceutical technology and experimental biology.
2. Establishment of animal house for performing in vivo studies.
3. Founded a graduate program which offers the master degree in pharmaceutical sciences.
4. Sponsoring 13 PhD students to get their degrees from USA, UK, and Australia.
5. Developing the curriculum of the undergraduate program.
6. Authors of five international pharmaceutical conferences hold at Al-Zaytoonah University in the years 2006, 2008, 2010, 2012 and 2015.
7. Launching scientific collaboration and staff exchange with the University of Toledo, OH, USA.
8. Launching scientific collaboration and staff and students exchange with Leibniz-Institut für Analytische Wissenschaften – ISAS in Dortmund, Germany.

SERVICE

Professional activities

- Reviewer and Referee for Chemical Biology and Drug Design (International Journal).
- Reviewer and Referee for Journal of Molecular Graphics and Modeling (International Journal).
- Reviewer and Referee for research proposals in medicinal chemistry and pharmacology fields for King Abdulaziz City for Science and Technology (KACST), Saudi Arabia.
- Reviewer and Referee for research proposals in the medicinal chemistry and pharmacology field for Scientific Research Support Fund/ Ministry of Higher Education and Scientific Research/Jordan.
- Chairman of the accreditation committee for the pharmacy program at Applied Science University/Jordan for the academic year 2011-2012/ Higher Education Accreditation Commission, Jordan.
- Member of the competency exam committee for graduated students in pharmacy at the Jordanian Universities, 2013-2014/ Higher Education Accreditation Commission, Jordan.
- Peer reviewer of published research works for some journals in Jordan and Saudi Arabia.
- Chairman of Organizing Committee. Faculties of Pharmacy at Al-Zaytoonah University of Jordan and The University of Toledo International Pharmaceutical Conference 2015 (ZTIPC 2015). Frontiers in the Pharmaceutical Sciences and Pharmacy Practice: A global perspective, October 21-23, 2015, Al-Zaytoonah University of Jordan, Amman, Jordan.
- Editorial Board of Jordan Journal of Pharmaceutical Sciences, 2014-present.

Cont. Service

- Member of American Association of Colleges of Pharmacy (AACCP) 2013-2014.
- Member of Scientific Committee Arab Union of the Manufactures of Pharmaceuticals and Medical Appliances. Amman, Jordan, November 2012-present.
- Chairman of Organizing Committee. Faculties of Pharmacy at Al-Zaytoonah University of Jordan and The University of Toledo International Pharmaceutical Conference (ZTIPC 2012), 17-19 October 2012, Amman, Jordan.
- Institutional Review Board (IRB) Member at ACDIMA Center for Bioequivalence and Pharmaceutical Studies. Amman, Jordan, May 2012-present.
- Chairman of Organizing Committee. Pharmaceutical Jordanian International Conference 2010, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan, October 20-22, 2010.
- Advisory member and Reviewer for Jordan Journal of Pharmaceutical Sciences.
- Reviewer and Referee for Archiv Der Pharmazie International Journal.
- Chairman of Organizing Committee. Pharmaceutical Jordanian International Conference 2008, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan, October 15-17, 2008.
- Chairman of Organizing Committee. Pharmaceutical Jordanian International Conference 2006, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan, November 15-17, 2006.
- Organizing Committee of the First Symposium on Antiviral and Anticancer agents (2001) Applied Science University, Amman, Jordan, March 29, 2001.
- Membership of Professor Mario Grifantini Research Group in AIDS PROJECT supported by the Istituto Superiore di Sanita`, Ministry of Health, Rome, Italy from 1992-1998.

Al-Zaytoonah University of Jordan, Applied Science University and community activities

- Scientific Research Committee from 2016 – present.
- Deans' Council member from 2002 – 2003 and from 2005 – 2016.
- Membership in the following Committees:
 - Postgraduate Studies Council from 2011-2016.
 - Postgraduate Studies Committees from 2011 – 2016.
 - Scientific Research Committee from 2000 – 2003 and from 2006 – 2010.
 - Matriculation Committee from 1998 – 2001.
 - Students Affair and Exams Committee from 1999 – 2001.
 - Central and Branch Committee of Penalty from 2000 – 2001.
 - Library Committee from 2005 – 2007.
 - Appointment and Promotion Committee from 2001 – 2003 and from 2011 – 2016.
 - Students Elections Committee from 2000 – 2003 and from 2005 – 2013.
 - Member in the University Council from 2000 – 2003 and from 2005 – 2016.

Community Service

- Chairman of Health Care and Medical Servicing Day: providing counselling and dispensing medicines to poor families and refugees in one day servicing community by colleagues from the College of Pharmacy and by the aid of volunteers from physicians and pharmacists. It is one of the College of Pharmacy's staff and teaching assistant's activity through providing service to local community people and usually be done up to three times per year.
- Receiving Students from High Secondary Schools each semester annually and explain to the visitors the curriculum of the pharmacy program, duration and important requirements to access to the course in addition to a tour in the pharmacy labs. Also, providing the visitors with an idea about the pharmacy profession and the important role of the pharmacist in the health care system in the community.