

CV of Tariq Al-qirim

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EDUCATION:

1) Ph. D in Biochemistry. Aligarh University (India) 2000-2003

Thesis : Effect of Khat on different parameter in rats.

2) MSc degree in Biochemistry. Aligarh University (India) 1997-1999

MSc Courses:

- Bio-Organic Chemistry
 - Bio-Physical Chemistry
 - Structure & Function of the Proteins
 - Advanced Enzymology
 - Intermediary Metabolism
 - Molecular Cell Biology
 - Biotechnology
 - Molecular Genetics
 - Immunology
- Research Project

3) BSc degree in Medical Lab Technology. Applied Science University (Jordan) 1991-1996.

4) Diploma in Medical analysis. Arab Community College. (Jordan) 1989-1991.

PUBLICATIONS:

JOURNAL ARTICLES:

1. Hamadneh LA, Sabbah DA, Hikmat SJ, Al-Samad LA, Hasan M, Al-Qirim TM, Hamadneh IM, Al-Dujaili AH. Hypolipidemic effect of novel 2,5-bis(4-hydroxybenzylidenamino)-1,3,4-thiadiazole as potential peroxisome proliferation-activated receptor- α agonist in acute hyperlipidemic rat model. *Mol Cell Biochem* 2019;458(1-2):39-47.
2. Alwahsh M, Othman A, Hamadneh L, Telfah A, Lambert J, Hikmat S, Alassi A, Mohamed FEZ, Hergenröder R, Al-Qirim T, Dooley S, Hammad S. Second exposure to acetaminophen overdose is associated with liver fibrosis in mice. *EXCLI J* 2019;18:51-62.
3. Sheikha GA, Bkhaitan MM, Kalloush H, Hamadneh L, Khalaf RA, Al-Qirim T, Al-Hiaric Y. Synthesis of novel benzimidazole-2-carboxamide derivatives and in vivo antihyperlipidemic activity evaluation. *Chem Pharm Bull* 2018;66(4):423-6.
4. Jasim SH, Abu Sheikha GM, Abuzaid HM, Al-Qirim TM, Shattat GF, Sabbah DA, Ata SA, Aboumair MS, Sweidan KA, Bkhaitan MM. Erratum: *CheMical and pharmaceutical bulletin* (chemical and pharmaceutical bulletin 66 (953)). *Chem Pharm Bull* 2018;66(12):1207.
5. Jasim SH, Sheikha GMA, Abuzaid HM, Al-Qirim TM, Shattat GF, Sabbah DA, Ala SA, Aboumair MS, Sweidan KA, Bkhaitan MM. Synthesis and in vivo lipid-lowering activity of novel imidazoles-5-carboxamide derivatives in triton-WR-1339-induced hyperlipidemic wistar rats. *Chem Pharm Bull* 2018;66(10):953-8.
6. Sabbah DA, Hishmah B, Sweidan K, Bardaweel S, AlDamen M, Zhong HA, Khalaf RA, Hasan Ibrahim A, Al-Qirim T, Abu Sheikha G, Mubarak MS. Structure-based design: Synthesis, X-ray crystallography, and biological evaluation of N-substituted-4-hydroxy-2-quinolone-3-carboxamides as potential cytotoxic agents. *Anti-Cancer Agents Med Chem* 2018;18(2):263-76.
7. Abu Farha R, Bustanji Y, Al-Hiari Y, Bardaweel S, Al-Qirim T, Abu Sheikha G, Albashiti R. Pharmacological evaluation of novel isonicotinic carboxamide derivatives as potential anti-hyperlipidemic and antioxidant agents. *Arch Pharm* 2017;350(10).
8. Hamadneh L, Al-Essa L, Hikmat S, Al-Qirim T, Abu Sheikha G, Al-Hiari Y, Azmy N, Shattat G. N-(3-benzoylphenyl)-1H-indole-2-carboxamide decreases triglyceride levels by downregulation of Apoc3 gene expression in acute hyperlipidemic rat model. *Mol Cell Biochem* 2017;431(1-2):133-8.
9. Hikmat S, Al-Qirim T, Alkabbani D, Shattat G, Sheikha GA, Sabbah D, Abu Khalaf R, Al-Hiari Y. Synthesis and in vivo anti-hyperlipidemic activity of novel n-benzoylphenyl-2-furamide derivatives in wistar rats. *Trop J Pharm Res* 2017;16(1):193-201.
10. Sweidan K, Sabbah DA, Bardaweel S, Abu Sheikha G, Al-Qirim T, Salih H, El-Abadelah MM, Mubarak MS, Voelter W. Facile synthesis, characterization, and cytotoxicity study of new 3-(indol-2-yl) bicyclotetrazatridecahexaens. *Can J Chem* 2017;95(8):858-62.

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11. Abu Farha R, Bustanji Y, Al-Hiari Y, Al-Qirim T, Abu Shiekha G, Albashiti R. Lipid lowering activity of novel N-(benzoylphenyl)pyridine-3-carboxamide derivatives in triton WR-1339-induced hyperlipidemic rats. *J Enzyme Inhib Med Chem* 2016;31:138-44.
12. Sabbah DA, Saada M, Khalaf RA, Bardaweel S, Sweidan K, Al-Qirim T, Al-Zughier A, Halim HA, Sheikha GA. Molecular modeling based approach, synthesis, and cytotoxic activity of novel benzoin derivatives targeting phosphoinositide 3-kinase (PI3K α). *Bioorg Med Chem Lett* 2015;25(16):3120-4.
13. Abu Khalaf R, Jarekji Z, Al-Qirim T, Sabbah D, Shattat G. Pharmacophore modeling and molecular docking studies of acridines as potential DPP-IV inhibitors. *Can J Chem* 2015;93(7):721-9.
14. Al-Qirim T, Shattat G, Sheikha GA, Sweidan K, Al-Hiari Y, Jarab A. Synthesis of novel N-(4-benzoylphenyl)-2-furamide derivatives and their pharmacological evaluation as potent antihyperlipidemic agents in rats. *Drug Res* 2015;65(3):158-63.
15. Sweidan K, Engelmann J, Rayyan WA, Sabbah D, Zarga MA, Al-Qirim T, Al-Hiari Y, Sheikha GA, Shattat G. Synthesis and preliminary biological evaluation of new heterocyclic carboxamide models. *Lett Drug Des Discov* 2015;12(5):417-29.
16. Shattat GF, Abuskeika GM, Al-Qirim TM, Huwaitat R, El-Huneidi W, Abu Khalaf R, Al-Hiari YM, Jasim SH, Hamadaneh L. Novel pyrrole derivatives as potent lipid-lowering agents in triton-WR-1339-induced hyperlipidemic rats. *Lat Am J Pharm* 2015;34(6):1258-64.
17. AL-Najdawi M, Al-Hiari Y, Al-Qirim T, Shattat G, Al-Zweri M, Sheikha GA. Synthesis and pharmacological evaluation of novel unsubstituted indole-anthraquinone carboxamide derivatives as potent antihyperlipidemic agents. *Z Naturforsch Sect C J Biosci* 2014;69 C(1-2):21-8.
18. Shattat G, Al-Qirim T, Sheikha GA, Al-Hiari Y, Sweidan K, Al-Qirim R, Hikmat S, Hamadneh L, Al-Kouz S. 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. *J Enzyme Inhib Med Chem* 2013;28(4):863-9.
19. Shahwan M, Al-Qirim T, Bader A. Short-term feeding effects of origanum syriacum crude extract on immobilization stress induced antioxidant defense changes in rat. *J Biol Sci* 2012;12(7):421-5.
20. Al-Hiari YM, Qandil AM, Al-Zoubi RM, Alzweiri MH, Darwish RM, Shattat GF, Al-Qirim TM. Synthesis and antibacterial activity of novel 7-haloanilino-8-nitrofluoroquinolone derivatives. *Med Chem Res* 2012;21(8):1734-40.
21. Al-Qirim T, Shattat G, Sweidan K, El-Huneidi W, Sheikha GA, Khalaf RA, Hikmat S. In vivo antihyperlipidemic activity of a new series of N-(benzoylphenyl) and N-(acetylphenyl)-1-benzofuran-2-carboxamides in rats. *Arch Pharm* 2012;345(5):401-6.
22. Jarab AS, Alqudah SG, Mukattash TL, Shattat G, Al-Qirim T. Randomized controlled trial of clinical pharmacy management of patients with type 2 diabetes in an outpatient diabetes clinic in Jordan. *J Managed Care Pharm* 2012;18(7):516-26.

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23. Al-Hiari Y, Shattat G, Al-Qirim T, El-Huneidi W, Sheikha GA, Hikmat S. Antihyperlipidemic properties of novel N-(benzoylphenyl)-5-substituted-1H-indole-2-carboxamides in triton WR-1339-induced hyperlipidemic rats. *Molecules* 2011;16(10):8292-304.
24. Al-Hiari YM, Shakya AK, Alzweiri MH, Al-Qirim TM, Shattat G, El-Abadelah MM. Synthesis and antibacterial properties of new N 4-acetylated hexahydro-2,7-dioxopyrido[2,3-f]quinoxaline-8-carboxylic acids. *J Enzyme Inhib Med Chem* 2011;26(5):649-56.
25. Sheikha GA, Hussin B, Al-Hiari Y, Al-Qirim T, Shattat G. Synthesis of benzothiophene carboxamide derivatives and their pharmacological evaluation as potent antihypertriglyceridemic agents in rats. *Z Naturforsch Sect C J Biosci* 2011;66 C(3-4):93-103.
26. Shattat G, Al-Qirim T, Sweidan K, Shahwan M, El-Huneidi W, Al-Hiari Y. The hypolipidemic activity of novel benzofuran-2-carboxamide derivatives in triton WR-1339-induced hyperlipidemic rats: A comparison with bezafibrate. *J Enzyme Inhib Med Chem* 2010;25(6):751-5.
27. Shattat G, Al-Qirim R, Al-Hiari Y, Sheikha GA, Al-Qirim T, El-Huneidi W, Shahwan M. Synthesis and anti-hyperlipidemic evaluation of N-(benzoylphenyl)-5-fluoro-1H-indole-2-carboxamide derivatives in triton WR-1339-induced hyperlipidemic rats. *Molecules* 2010;15(9):5840-9.
28. Al-Hiari YM, Qandil AM, Al-Zoubi RM, Alzweiri MH, Darwish RM, Shattat GF, Al-Qirim TM. 7-(3-chlorophenylamino)-1-cyclopropyl-6-fluoro-8-nitro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid. *MolBank* 2010;2010(2):1-3.
29. Shahwan M, Shattat G, Al-Qirim T, Sheikha GA, Al-Hiari Y, El-Huneidi W, Jarab A, Al-Najdawi M. Synthesis and pharmacological evaluation of novel substituted and unsubstituted N-(benzoylphenyl)-1H-indole-2-carboxamides as potent antihypertriglyceridemic agents. *Z Naturforsch Sect C J Biosci* 2010;65 C(5-6):309-16.
30. Shahwan MJ, Al-Qirim TM, Daradka H. Hypolipidaemic effects of *euphorbia prostrata* in rabbits. *J Biol Sci* 2009;9(1):88-91.
31. Al-Qirim T, Shahwan M, Shattat G, Al-Hiari Y, Sheikha GA, Zaidi S. Pharmacological evaluation of novel indole-2-carboxamides as potent lipid-lowering agents in triton-WR-1339-induced hyperlipidemic rats. *Z Naturforsch Sect C J Biosci* 2009;64(9-10):619-25.
32. Zaidi SMKR, Al-Qirim TM, Banu N. Effects of antioxidant vitamins on glutathione depletion and lipid peroxidation induced by restraint stress in the rat liver. *Drugs R D* 2005;6(3):157-65.
33. Zaidi SMKR, Al-Qirim TM, Hoda N, Banu N. Modulation of restraint stress induced oxidative changes in rats by antioxidant vitamins. *J Nutr Biochem* 2003;14(11):633-6.
34. Al-Qirim TM, Shahwan M, Zaidi KR, Uddin Q, Banu N. Effect of khat, its constituents and restraint stress on free radical metabolism of rats. *J Ethnopharmacol* 2002;83(3):245-50.

DOCTORAL THESES COSUPERVISED:

- Manal M. Najdawi. The discovery of novel heterocyclic 2-carboxamide derivatives and their potential dyslipidemic and antioxidant activity. Jordan University, faculty of Pharmacy. The public defense successfully took place on 4th Aug 2011.

MASTER THESES SUPERVISED:

1- Pharmacological Evaluation of Novel Furan-2-Carboxamide Derivatives As Antihyperlipidemic Agents In Triton Induced Rats. By Nadeem Zuhair Alhusaini. The public defense successfully took place on 5th Aug 2013.

2- Synthesis and Biological Evaluation Of Novel N-Benzoylphenyl-2-Furamide Derivatives. By Dania Mohammed Nazer Al kabbani. The public defense successfully took place on 27 May 2015.

PATENTS:

1- 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. 2519/2010 Jordan Patent.

2- **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 a process for their preparation and their use as potential antihyperlipidaemic agents. Jordan Patent 2588/2011.

PRESENTATIONS & CONFERENCES:

1- **Tariq Musbah Al-Qirim**, Ayesha Zafir, and Naheed Banu. Remedial antioxidant action of *Withania somnifera* on restraint stress-induced oxidative damage. EXPERIMENTAL BIOLOGY 2008. San Diego, USA *FASEB J.* 2008 22:611.12

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2- Tariq Musbah Al-Qirim, Ayesha Zafir, and Naheed Banu. Comparative anti-oxidant potential of Rauwolfia serpentina and Withania somnifera on cardiac tissues.

EXPERIMENTAL BIOLOGY 2007. Washington DC, USA *FASEB J.* 2007 21:510.1

3- Tariq M Al-Qirim and Naheed Banu, Pro-oxidant effect of khat (catha edulis forsk) on liver and brain of rats. EXPERIMENTAL BIOLOGY 2006. San Francisco, CA, USA. *FASEB J.* 2006 20:A476

4- Tariq. M. Al-Qirim, S. M. Kashif. R. Zaidi and Naheed Banu. Effects of antioxidant vitamins on glutathione depletion and lipid peroxidation induced by restraint stress in rat liver. Radicals & Radical Ions In Chemistry & Biology 2007, New Hampshire, USA.

5- Tariq M Al-Qirim and Naheed Banu. Effect of Khat (catha edulis Forsk) consumption on stress induced biochemical changes. 9th Asian-Pacific Congress of Clinical Biochemistry (2002) **India.**

6- Tariq M Al-Qirim and Naheed Banu. The effect of Khat consumption on different biochemical parameters in stressed rats. 70 th Society of Biological Chemist (2001) Hyderabad, **India.**

7- Tariq M Al-Qirim and Naheed Banu. Effect of Khat consumption on free radical matabolism of rats. Future Trends in Phytochemistry (2004) **Italy.**

8- Tariq M. Al-Qirim, kashif zaidi, and naheed banu. Effect of aqueous extract of *s. nigrum* on immobilization stress induced antioxidant defense changes in rat plasma. Euromedlab 2005, Scotland, **UK.**

SCIENTIFIC ACTIVITIES AND COMMUNICATIONS:

- **Member of Quality Assurance Unit** at Faculty of Pharmacy, Al-Zaytoonah University of Jordan, **2009.**
- **Chairman** for the pharmaceutical conference committee at Faculty of pharmacy, Al-Zaytoonah University of Jordan, **2006-2010**

Grants:

1- University grant commission (India)

2- Short-term feeding effect of Miswak and Origanum syriacum L on blood constituents in rats. Al-Zaytoonah University

Instrumental and Computer Skills:

Very good in computer skills (ICDL).

Excellent in experimental rats handling

Professional Experience:

2003 *Assistant Professor* at Al-Zaytoonah University.

2010 *Associate Professor*

Teaching Experiences:

1- Pharmaceutical Biochemistry-1

2- Pharmaceutical Biochemistry-2

3- Clinical Biochemistry

4- Clinical Nutrition

5- Pharmaceutical Biochemistry-1 LAB

6- Biochemistry for Nursing

Languages: Arabic (*native*), English (*Excellent*).

References:

1) **Dr Ghassan Abu Sheikha, Ph.D.**

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Research Interests:

Free radical is any species capable of independent existence that contains one or more unpaired electrons, these free radicals were generated by using stress and especially Forced immobilization stress since this model combines emotional stress (escape reaction) and physical stress (muscle work), resulting in both restricted mobility and aggression.

The stress-induced free radicals were evaluated by measuring enzymatic antioxidant such as superoxide dismutase, catalase and glutathione-s-transferase, also I have measured the non-enzymatic antioxidants such as uric acid, glucose and reduced glutathione (GSH).