



CURRICULUM VITAE

Full name: Tariq Musbah Al-qirim

Department/Faculty, Pharmacy

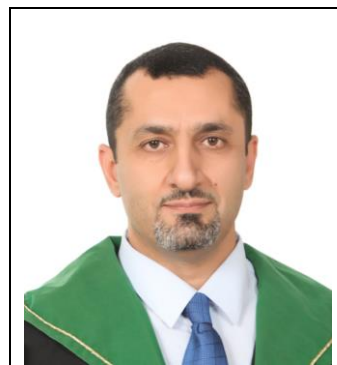
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1. Personal Data

Date of Birth: 16-10-1970

Nationality: Jordanian

2. Education

- Ph.D. (Clinical Biochemistry) 2003, Aligarh University, Aligarh, India
- M.Sc. (Clinical Biochemistry) 1999, Aligarh University, Aligarh, India
- B.Sc. (Medical Lab Technology) 1996, Applied Science University, Jordan
- Diploma in (Medical analysis) 1991, Arab Community College, Jordan

3. Ph.D. Dissertation

Title of Dissertation, Effect of Khat on different parameter in rats.

4. Employment

Academic Positions

- Professor, faculty of Pharmacy, Al-Zaytoonah University of Jordan, March 23, 2003 – now



Administrative Positions

- Vice President, Al-Zaytoonah University, Amman, Jordan July-2020-Now
- Dean, Faculty of Pharmacy, Al-Zaytoonah University, Amman, Jordan-2016-2020
- Dean of Scientific research, Al-Zaytoonah University, Amman, Jordan-2015-2016
- Vice Dean, Faculty of Pharmacy, Al-Zaytoonah University, Amman, Jordan-2013-2016

5. 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.

6. Membership in Scientific Societies and Associations

American chemical society

7. Honors and Awards

Best researcher awards from Al-Zaytoonah University of Jordan, 2010

8. Fellowships and Scholarships

9. Teaching Experience

- *Graduate Courses*

Advanced clinical biochemistry

- *Undergraduate Courses*

- Pharmaceutical Biochemistry



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- Clinical Biochemistry
- Clinical Nutrition
- Pharmaceutical Biochemistry Lab
- Clinical Biochemistry Lab

10. Supervision of Graduate Research

- 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.
- 3- Antioxidant Activity and Protective Effect of Fluoroquinolones Derivatives in Carbon Tetrachloride Induced Liver Injury in Rats. By Manal Abdel Rauf Hussein Suleman. 2020
- 4- Antihyperlipidemic effects of carboxamides Derivatives in Triton-WR-1339 induced hyperlipidemia in rats. By Hanan Faris Abdelrahman Al-Ashqar. 2020
- 5- Carboxamides and Schiff Bases as Essential Linkers in Potential Hypolipidemic Heterocyclic Compounds. By Basmah Said Taisir Al-Jammal. 2019
- 6- Synthesis and Antihyperlipidemic Properties of Novel N-(4-Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives. By Nisreen Nazmi Haj Ahmad. 2016
- 7- Neurotoxic Effect of Paracetamol on Female Rats: Role of Antioxidant Treatment and Prevention. By Bara'a Suhail Mousa Shawaqfeh. 2016
- 8- Evaluating the Role of Alpha-Lipoic Acid, Epigallocatechin-C-Gallate and Their Synergistic Effect in Inhibiting Glucose- and/or Fructose-Induced Myoglobin Glycation and Formation of Advanced Glycation End Products. By Amani farah. 2020
- 9- Synthesis, Characterization and Biological Evaluation of Novel Fluorinated Oxoacetamido Benzamides as Potential CETP Inhibitors By Mohammad Khalel Mohammad Awad, 2020



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10- The Association of Soluble Epoxide Hydrolase Genetic Variants with Hypertensive Diabetic Patients Type II By Maysoun Mohammed Khamees, 2020

11- Synthesis and Biological Evaluation of Piperazine Derivatives as DPP-IV Inhibitors By Haya Hassan AbuJarad, 2018

12- Molecular Characterization of the Antihyperlipidemic Activity of Novel Nicotinic Acid-Carboxamides Derivatives Using Rats Animal Model By Marwa Mahmoud Yousef Jwaifel, 2018

13- Biological evaluation of the antimicrobial and antihyperlipidemic activity of novel 3,5-disubstitutedamido -1,2,4-thiadiazole and 2,5-disubstitutedamido -1,3,4- thiadiazole By Luma Adel Abd Al-Samad, 2017

14- Design, Synthesis and In Vivo Biological Evaluation of Novel Benzimidazole-2-carboxamide Derivatives as Antihyperlipidemic Agents By Hanin Mohammad K. Kalloush, 2016

15- Synthesis and Antihyperlipidemic Properties of Novel N-(4- Benzoylphenyl) Pyrrole-2-Carboxamide Derivatives By Nisreen Nazmi Haj Ahmad, 2016

16- Synthesis And Biological Evaluation Of Novel 5- Bromo Indole-2-Carboxamide Derivatives By Amneh Mahmoud Abu Al-Inin, 2015

11. Grants

1- Effects of chronic inhalation of water pipe on rat behavior and glial glutamate transporters and Cannabinoid receptor type 1 in rats. 2020, Al-Zaytoonah University of Jordan, 40.000 JD

2- Anti-Hyperlipidemic and Antioxidant Evaluation of Novel Compounds in Hyperlipidemic and Oxidative Stress Induced Rats. 2018, Al-Zaytoonah University of Jordan, 15.250 JD



12. 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.

13. Membership of Committees

- **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, **2006-2019**

14. Professional and Scientific Meetings

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

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



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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. 70th Society of Biological Chemist (2001) Hyderabad, **India**.

7- Tariq M Al-Qirim and Naheed Banu. Effect of Khat consumption on free radical metabolism 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**.

15. Participation in or organization of curricular and/or extra-curricular activities

Provide bulleted or numbered list with name, place, date of event and other relevant details



16. Publications

1. Al-Jammal, B., Hussein, B., Al-Hiari, Y., Al-Qirim, T., Al-Najdawi, M., Hamadneh, L., Alwahsh, M., Ikhmais, B. Synthesis of microwave-assisted carboxamides in Triton WR-1339-induced hyperlipidemic rats: possible hypolipidemic heterocyclic compounds (2023) RSC Advances, 13 (32), pp. 22193-22204.
2. Hammad, A.M., Shawaqfeh, B., Hikmat, S., Al-Qirim, T., Hamadneh, L., Al-Kouz, S., Awad, M.M., Hall, F.S. The Role of Vitamin E in Protecting against Oxidative Stress, Inflammation, and the Neurotoxic Effects of Acute Paracetamol in Pregnant Female Rats (2023) Toxics, 11 (4), art. no. 368,
3. Shahwan, M., Hassan, N., Mazin, N., Jairoun, A., Al Khoja, S., Shahwan, M., Najjar, O., Al-Qirim, T. Assessment of Serum 25-Hydroxyvitamin D and Its Association in Type 2 Diabetes Mellitus Elderly Patients with Kidney Disease: A Retrospective Cross Sectional Study (2023) Metabolites, 13 (3), art. no. 357,
4. Jairoun, A.A., Al-Hemyari, S.S., Shahwan, M., Hassan, N., Zyoud, S.H., Jaber, A.A.S., Al-Qirim, T. Insights Into Metformin XR Pharmacotherapy Knowledge Among Community Pharmacists: A Cross-Sectional Study (2023) Clinical Medicine Insights: Endocrinology and Diabetes, 16,
5. Tariq Al-Qirim, Aamir Ahmad. Perspectives on cancer-microbiome conundrum. Microenvironment & Microecology Research 2022;4(4):19
6. Khirfan F, Jarrar Y, Al-Qirim T, Goh KW, Jarrar Q, Ardianto C, et al. Analgesics Induce Alterations in the Expression of SARS-CoV-2 Entry and Arachidonic-Acid-Metabolizing Genes in the Mouse Lungs. Pharmaceuticals 2022;15(6).
7. Ullah MF, Ahmad A, Bhat SH, Abuduhier FM, Mustafa SK, Al-Qirim T. Functional profiling of Achillea fragrantissima (a perennial edible herb) against human cancer cells and potential nutraceutical impact in neutralizing cell proliferation by interfering with VEGF and NF- κ B signaling pathways. Ital J Food Sci 2022;34(3):35-47.
8. Sweidan K, Sheikha GA, Shattat G, Al-Qirim T, Bkhaitan M. Synthesis and In Vivo Hypolipidemic Effect of Some N-(Benzoylphenyl)-Carboxamide Derivatives in Triton WR-1339-Induced Hyperlipidemic Rats. Bras J Pharm Sci 2022;58.
9. Hammad AM, Meknas SJ, Hall FS, Hikmat S, Sari Y, Al-Qirim TM, et al. Effects of waterpipe tobacco smoke and ceftriaxone treatment on the expression of endocannabinoid receptors in mesocorticolimbic brain regions. Brain Res Bull 2022; 185:56-63.



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10. Khalaf RA, Awad M, Al-Qirim T, Sabbah D. Synthesis and Molecular Modeling of Novel 3,5-Bis(trifluoromethyl) benzylamino Benzamides as Potential CETP Inhibitors. *Med Chem* 2022;18(4):417-426.
11. Hamadneh L, Abu-Irmaileh B, Al-Majawleh M, Bustanji Y, Jarrar Y, Al-Qirim T. Doxorubicin–paclitaxel sequential treatment: insights of DNA methylation and gene expression changes of luminal A and triple negative breast cancer cell lines. *Mol Cell Biochem* 2021;476(10):3647-3654.
12. Hammad AM, Swiss GMS, Hall FS, Hikmat S, Sari Y, Al-Qirim TM, et al. Ceftriaxone Reduces Waterpipe Tobacco Smoke Withdrawal-induced Anxiety in rats via Modulating the Expression of TNF- α /NF κ B, Nrf2, and GLT-1. *Neuroscience* 2021; 463:128-142.
13. Khamees M, Jarrar Y, Al-Qirim T, Mahmoud IS, Hatmal MM, Alshaer W, et al. No impact of soluble epoxide hydrolase rs4149243, rs2234914 and rs751142 genetic variants on the development of type II diabetes and its hypertensive complication among Jordanian patients. *Int J Clin Pract* 2021;75(5).
14. Hammad AM, Swiss GMS, Hall FS, Hikmat S, Sari Y, Al-Qirim TM, et al. Ceftriaxone Reduces Waterpipe Tobacco Smoke Withdrawal-induced Anxiety in rats via Modulating the Expression of TNF- α /NF κ B, Nrf2, and GLT-1. *Neuroscience* 2021; 463:128-142.
15. Hamadneh L, Abu-Irmaileh B, Al-Majawleh M, Bustanji Y, Jarrar Y, Al-Qirim T. Doxorubicin–paclitaxel sequential treatment: insights of DNA methylation and gene expression changes of luminal A and triple negative breast cancer cell lines. *Mol Cell Biochem* 2021;476(10):3647-3654.
16. Ahmad MN, Farah AI, Al-Qirim TM. The cardiovascular complications of diabetes: a striking link through protein glycation. *Rom J Intern Med* 2020;58(4):188-198.
17. 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.
18. 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.
19. 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.



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20. Jasim SH, Abu Sheikha GM, Abuzaid HM, Al-Qirim TM, Shattat GF, Sabbah DA, Ata SA, Aboumair MS, Sweidan KA, Bkhaitan MM. Erratum: ChemMical and pharmaceutical bulletin (chemical and pharmaceutical bulletin 66 (953)). Chem Pharm Bull 2018;66(12):1207.
21. 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.
22. 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.
23. 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).
24. 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.
25. 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.
26. 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.
27. 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.
28. 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 phosphoinostide 3-kinase (PI3K α). Bioorg Med Chem Lett 2015;25(16):3120-4.



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29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. Shattat G, Al-Qirim T, Sheikha GA, Al-Hiari Y, Sweidan K, Al-Qirim R, Hikmat S, Hamadaneh 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.
35. 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.
36. 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.
37. 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.
38. 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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39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. Shahwan MJ, Al-Qirim TM, Daradka H. Hypolipidaemic effects of euphorbia prostrata in rabbits. *J Biol Sci* 2009;9(1):88-91.
47. 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.
48. 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.



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49. 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.
50. 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.