

CURRICULUM VITAE

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1. Personal Data

Date of Birth: 31/12/1956

Nationality: Iraqi

2. Education

Ph.D. (Pharmacology /Toxicology), 1986, Uppsala University, Uppsala, Sweden.

B.Sc. (Pharmacy), 1978, Baghdad University, Baghdad, Iraq.

3. Ph.D. Dissertation

Chelate-induced Changes in metal disposition in pregnant and non-pregnant mice.
Uppsala University, Uppsala, Sweden.

4. Employment

Academic Positions

- Associate Professor: Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan. 31/12/2018 - now
- Assistant Professor (category A): Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan. March 2017– December 2018.
- Assistant Professor (Category B): Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan. February 1997 – March 2017.
- Assistant Professor: Faculty of Medical Technology, University of Darna, Darna, Libya, September 1994- August 1995
- Assistant Professor: Faculty of Pharmacy, Baghdad University, Baghdad, Iraq, September 1986- August 1991



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- Instructor: Faculty of Pharmacy, Baghdad University, Baghdad, Iraq, September 1978- August 1981

Administrative Positions

- Chairman of Department of Pharmaceutical Sciences, Faculty of Pharmacy, Al-Zaytoonah University, Amman, Jordan, September 2008 – August 2010
- Chairman of Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University, Amman, Jordan, September 2007 – August 2008

5. Research Interests

- In vivo investigation for novel synthetic antihyperlipidemic compounds.
- In vivo investigation for nanogold particles in wound healing
- In vivo investigation for new chelating agents for metal toxicity

6. Membership in Scientific Societies and Associations

- Not Applicable

7. Honors and Awards

- Not Applicable

8. Fellowships and Scholarships

- PhD Scholarship from Baghdad University (1981 - 1986).

9. Teaching Experience

- *Graduate Courses*
 - Advanced Biopharmaceutics & Pharmacokinetics
- *Undergraduate Courses*
 - General Toxicology
 - Clinical Toxicology
 - Biopharmaceutics & pharmacokinetics
 - Clinical Pharmacy & Therapeutics
 - Poisonous plants
 - Communication Skills in pharmacy practice
 - Medical & pharmaceutical basics



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- Radiation & radioisotopes
- Professional Pharmacy Practice

10. Supervision of Graduate Research

1. Dania Mohammed Nazer AlKabbani thesis entitled: synthesis and biological evaluation of novel N-Benzoylphenyl-2-Furamide derivatives; Oct 2014 - May 2015
2. Amneh Mahmoud Abu Al-Inin thesis entitled: Synthesis and Biological Evaluation of novel 5-BromoIndole-2-carboxamide derivatives; Feb 2015 - Dec 2015.
3. Haneen Muneer Abuzaid thesis entitled: Design, Synthesis, and invivo Biological Evaluation of Imidazole-5-carboxamide Derivatives as lipoprotein lipase activators; Oct 2015 - Aug 2016.
4. Marwa Mahmoud Jwaifel thesis entitled: Molecular Characterisation of the Antihyperlipidemic activity of novel Nicotinic acid-carboxamide derivatives using rat's animal model; Feb 2016- Jan 2018.
5. Bara'a Suhail Mousa Shawaqfeh thesis entitled: Neurotoxic effect of Paracetamol on female rats: Role of antioxidant treatment and prevention; Oct 2017 - July 2018.
6. Duaa Sulaiman AbuGaith thesis entitled: Novel gold nanocomposite for wounds healing in rats: effect of nanoparticles' shape and surface chemistry; Feb 2018- Jan 2019
7. Abdulrahim Mohamad Albasha thesis entitled: Penetration and accumulation of gold nanoparticles into the brain: Effect of nanoparticles' shape and surface chemistry; Oct 2018 – Aug 2019
8. Hakam Mohamad Saleh thesis entitled: Invitro anti-invasion activity of surface modified gold nanorods against prostate cancer; Feb 2019 – June 2020

11. Grants

1. Synthesis of new derivatives of 1-hydroxy-2-pyridinethione and investigation of their efficacy and reversing the biochemical adverse effect of cadmium and lead poisoning in intoxicated pregnant and nonpregnant female animals, 2014, Al-Zaytoonah University of Jordan, 83.545 JD.
2. DNA Methylation of Different Breast Cancer Cell Lines and the Effect on Gene Expression in Response to Several Chemotherapeutic Agents, 2016, Al-Zaytoonah University of Jordan, 42.920 JD.



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3. Pharmacological and Toxicological effects of gold nanoparticles as targeted therapy in different breast cancer subtypes using molecular and epigenetic approaches, 2019, Al-Zaytoonah University of Jordan, 45,000 JD.
4. 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.

12. Patents

- Not Applicable

13. Membership of Committees

• National and International

• *Examination Committee of the following postgraduate students:*

1. Internal examiner for Nadeem Zuhair Alhusaini, Master thesis entitled: Pharmacological Evaluation of Novel Furan-2-Carboxamide derivatives as antihyperlipidemic agent in Triton induced rats, August 2013.
2. Internal examiner for Ameerah Abed AL Qader Hamed Alfraihat, Master thesis entitled: Distribution of breast cancer molecular subtypes among Jordanian patients, August 2015.
3. Internal examiner for Ghadeer Mohammad Saeed Swiss, Master thesis entitled: Effect of waterpipe whole body exposure on gene expression of glial glutamatergic transporters in different misocorticolimbic brain regions, August 2020.
4. Internal examiner for Mohamad Haitham Bahader, Master thesis entitled: Tamoxifen resistance and its role in migration and invasion of an invitro cell line model at the molecular level, August 2020

• University

- Alumni follow-up Committee 2020-2021 & 2021-2022 & 2022-2023
- The Committee for Curricular Equivalence and Academic Advisement 2020-2021 & 2021-2022 & 2022-2023
- Steering Committee of graduate's preparation for the labor market training program 2016-2017 & 2018-2019 & 2019-2020.
- Head of Chemical Risk Sub-Committee / Risk Management Committee at Al-Zaytoonah University 2016-2017.
- Member of Health Risk Sub-Committee / Risk Management Committee at Al-Zaytoonah University 2016-2017.
- The Committee for Curriculum and Educational Resources 2018-2019 & 2019-2020.
- The Committee for cultural, social, and sports activities. 2014-2018



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- The Committee for Seminars and Conferences
- The Committee for Quality assurance
- Representative of the Faculty of Pharmacy for Quality Assurance 2010-2011
- The Committee for Curricular Equivalence and Academic Advisement.
- The Committee for exams and evaluations

14. Professional and Scientific Meetings

Scientific Meetings Organized

- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan International Pharmaceutical Conference (ZIPC 2022), Amman-Jordan 18-19 October 2022.
- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2019), Amman-Jordan 6-7 November 2019.
- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman-Jordan 29-30 November 2017.
- Judging Committee member for choosing the best poster at Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman-Jordan 29-30 November 2017.
- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2015), Amman-Jordan 21-23 October 2015.
- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2012), Amman-Jordan 17-19 October 2012.
- Member of the Organizing Committee of the Jordanian International Pharmaceutical Conference (JIPC 2010), Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan 20-22 October 2010.
- Member of the Organizing Committee of the Jordanian International Pharmaceutical Conference (JIPC 2008), Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan 15-17 October 2008.
- Member of the Organizing Committee of the Jordanian International Pharmaceutical Conference (JIPC 2006), Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan 15-17 November 2006.

Participation in Scientific meetings



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- Participation in the 5th Scientific Event titled (Recent Updates in Diabetes Mellitus Management) at Jordan Pharmacists Association (JPA) 2019, 23rd March.
- Poster Presentation at Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference ZTIPC 2019, 6-7 November 2019.
- Poster Presentation at Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference ZTIPC 2017, 29-30 November 2017.
- Session Moderator at the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference ZTIPC 2015, 21-23 October 2015.

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

- Alumni day 23/6/2022 held in Al-Zaytoonah University of Jordan campus
- Medical day 13/4/2019 at Islamic Education College (IEC)
- Career Day for Pharmacy students 24/4/2018 at Al-Zaytoonah University of Jordan campus.
- Medical day 6/4/2018 at Islamic Education College (IEC)
- Career Day for Pharmacy students 20/3/2018 at Al-Zaytoonah University of Jordan campus.
- Career Day for Pharmacy students 30/10/2017 at Al-Zaytoonah University of Jordan campus.
- Career Day for Pharmacy students 25/10/2017 at Al-Zaytoonah University of Jordan campus.
- University's 9th Career Day and Career Day for Pharmacy students with the participation of 15 pharmaceutical companies and pharmacies. 9/5/2017
- Alumni day 17/12/2015 held in Al-Zaytoonah University of Jordan campus
- Alumni day 11/5/2017 held in Al-Zaytoonah University of Jordan campus
- Alumni day 26/4/2018 held in Al-Zaytoonah University of Jordan campus
- Alumni day 18/4/2019 held in Al-Zaytoonah University of Jordan campus

16. Publications

1. Alaa M. Hammad, Sara Jamal Meknas, F. Scott Hall, **Suhair Hikmat**, Youssef Sari, TM Al-Qirim, Malek Alfaraj, Haneen Amawi. Effects of waterpipe tobacco smoke and ceftriaxone treatment on the expression of endocannabinoid receptors in mesocorticolimbic brain regions. *Brain Research Bulletin* (2022) 185, 56 - 63.
2. Lama Hamadneh, Mohamad Bahader, Rama Abuarqoub, Mohammad AlWahsh, Ala Alhusban, **Suhair Hikmat**. *PI3K/AKT and MAPK1 molecular changes preceding matrix metalloproteinases overexpression during tamoxifen-resistance*



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- development are correlated to poor prognosis in breast cancer patients. Breast Cancer (2021) <https://doi.org/10.1007/s12282-021-01277-2> © The Japanese Breast Cancer Society
3. Rana Abu-Dahab, Nouf N. Mahmoud, Maha Abdallah, Lama Hamadneh, **Suhair Hikmat**, Rand Zaza, Duaa Abuarqoub, and Enam A. Khalil. *Cytotoxicity and Cellular Death Modality of Surface-Decorated Gold Nanorods against a Panel of Breast Cancer Cell Lines*. ACS Omega 6 (2021) 15903–15910
 4. Alaa M. Hammad, Ghadeer M. S. Swiss, F. Scott Hall, **Suhair Hikmat**, Youssef Sari, T. M. Al-Qirim and H. A. Amawi. *Ceftriaxone Reduces Waterpipe Tobacco Smoke Withdrawal-induced Anxiety in rats via Modulating the Expression of TNF- α /NFB, Nrf2, and GLT-1*. Neuroscience 463 (2021) 128–142
 5. N.N. Mahmoud, H. Aqabani, **S. Hikmat**, R. Abu-Dahab. *Colloidal stability and Cytotoxicity of Polydopamine-conjugated Gold Nanorods Against Prostate Cancer Cell Lines*. Molecules (2021) 26 (5), 1299
 6. Nouf N. Mahmoud, Abdulrahim Albasha, **Suhair Hikmat**, Lama Hamadneh, Rand Zaza, Ziad Shraideh and Enam A. Khalil. *Nanoparticle size and chemical modification play a crucial role in the interaction of nano gold with the brain: extent of accumulation and toxicity*. Biomaterials Science The journal of © The Royal Society of Chemistry 2020; 8 (6), 1669-1682
 7. Lama Hamadneh, **Suhair Hikmat**, Luma A. Al-Samad, Rawan Huwaitat, Dima Sabbah, Imad Hamadneh, Ammar H. Al-Dujaili. *Synthesis, Characterization and Antimicrobial Activity of Novel Symmetrical and Unsymmetrical Thiadiazole Derivatives as Potential Carbonic Anhydrase Inhibitor in E. Coli*, Journal of Global Pharma Technology, 2019; Online at: www.jgpt.co.in
 8. Nouf N. Mahmoud, **Suhair Hikmat**, Duaa Abu Ghith, Manar Hajeer, Lama Hamadneh, Duaa Qattan, Enam A. Khalil. *Gold nanoparticles loaded into Polymeric Hydrogel for wound healing in rats: Effect of nanoparticles' shape and surface Modification*. International Journal of Pharmaceutics 2019; (565), 174–186
 9. Lama A. Hamadneh, Dima A. Sabbah, **Suhair J. Hikmat**, Luma A. Al-Samad, Mariam Hasan, Tariq M. Al-Qirim, Imad M. Hamadneh, Ammar H. Al-Dujaili. *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*. Molecular and Cellular Biochemistry 2019; 458 (1-2), 39-47



10. Mohammad AlWahsh, Amnah Othman, Lama Hamadneh, Ahmad Telfah, Jörg Lambert, **Suhair Hikmat**, Amin Alassi, Fatma El Zahraa Mohamed, Roland Hergenröder, Tariq Al-Qirim, Steven Dooley, Seddik Hammad. *Second Exposure to acetaminophen overdose is associated with liver fibrosis in mice.* EXCLI Journal 2019; (18), 51-62
11. **Jasim S.H.**, Abu Sheikha G.M., Abuzaid H.M., Al-Qirim T.M., Shattat G.F., Sabbah D.A., Ala S.A., Aboumair M.S., Sweidan K.A., and Bkhaitan M.M. *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), 953–958
12. **Hikmat S.**, Al-qirim T., Alkabbani D., Shattat G., Abu Sheikha G., Sabbah D., Abu khalaf R., and Al-Hiari Y. *Synthesis and in vivo anti-hyperlipidemic activity of novel n-benzoylphenyl-2-furamide derivatives in Wistar rats.* Tropical Journal of Pharmaceutical Research 2017; 16 (1): 193-201
13. 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 down-regulation of Apoc3 gene expression in acute hyperlipidemic rat model.* Molecular and Cellular Biochemistry 2017; 431(1-2):133-138.
14. Shattat G.F., Abuskeika G.M., Al-Qirim T.M., Huwaitat R., El-Huneidi W., Abu Khalaf R., Al-Hiari Y.M., **Jasim S.H.**, Hamadaneh L. *Novel pyrrole derivatives as potent lipid-lowering agents in Triton-WR-1339- induced hyperlipidemic rats.* Latin American Journal of Pharmacy 2015; 34 (6): 1258-1264.
15. Shattat G., Al-Qirim T., Abu Sheikha G., 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.* Journal of Enzyme Inhibition and Medicinal Chemistry. 2013; 28 (4), 863-869
16. Al-Qirim T., Shattat G., Sweidan K., El-Huneidi W., Abu Sheikha G., Abu Khalaf R., and **Hikmat S.** *In vivo Antihyperlipidemic Activity of New Series of N-(benzoylphenyl) and N-(acetylphenyl)-1-benzofuran-2- carboxamides in Rats.* Arch. Pharm. Chem. Life Sci. 2012; 345, 401-406.
17. Al-Hiari Y., Shattat G., Al-Qirim T., El-Huneidi W., Abu Sheikha G., and **Hikmat S.** *Antihyperlipidemic Properties of Novel N-(Benzoylphenyl)-5-substituted-1H-indole-2-carboxamides in Triton WR-1339-Induced Hyperlipidemic Rats.* Molecules 2011; 16, 8292-8304.



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18. Jasim N., Khayat A., **Jasim S.H.** , & Iseto N. *Interaction of Selenium & Mercury in rats & the effect of EDTA on their levels.* Iraqi Journal of Pharmaceutical Sciences 1990; 3(1),1-10
19. Gottofrey J., Borg K., **Jasim S.H.**, & Tjalve H. *Effect of Potassium Ethylxanthate and Sodium Diethyldithiocarbamate on the Accumulation and Disposition of Nickel in the Brown Trout (Salmo Trutta).* Pharmacology & Toxicology, 1988; 63 (1), 46–51.
20. Tjalve H., **Jasim S.H.**, Gottofrey J, & Borg K. *Chelate-induced changes in metal disposition: Studies on Dithiocarbamate, Pyridinethiones, Xanthates, & Dithiophosphates in rodents and in fishes.* 2nd International Symposium, Chelating Agents in Pharmacology, Toxicology, & Therapeutics; Pilsen; 1987.
21. **Jasim S.H.** & Tjalve H. *Effect of zinc pyridinethione on the tissue disposition of nickel & cadmium in mice.* Acta Pharmacol. Toxicol. 1986; 59: 204-208.
22. **Jasim S.H.** & Tjalve H. *Mobilization of Nickel by Potassium ethylxanthate in ice: Comparison with sodium diethyldithiocarbamate & effect of intravenous versus oral administrations.* Toxicology Letters 1986; 31: 249-255.
23. **Jasim S.H.** & Tjalve H. *Effect of sodium pyridinethione on the uptake & distribution of Nickel, Cadmium, & Zinc in pregnant & non-pregnant mice.* Toxicology 1986; 38: 327-350.
24. **Jasim S.H.** & Tjalve H. *Effect of Thiuram sulphides on the uptake & istribution of nickel in pregnant & Non-pregnant mice.* Toxicology 1986; 32: 297-313.
25. **Jasim S.H.**, Tjalve H., & Dencker L. *Distribution of Cu 64 in fetal & adult tissues in mice: Influence of sodium diethyldithiocarbamate treatment.* Acta Pharmacol. Toxicol. 1985; 57: 262-270.
26. Tjalve H., **Jasim S.H.**, & OskarssonA. *Nickel mobilization by sodium diethyldithiocarbamate in nickel carbonyl treated mice.* In: Nickel in the human Environment. Editor in Chief: F.W. Sunderman,Jr. International Agency for Research on cancer. Lyon, 1984; 53: 311-320.
27. **Jasim S.H.** & Tjalve H. *Effect of sodium diethyldithiocarbamate on placental passage and fetal distribution of cadmium & mercury in mice.* Acta Pharmacol. Toxicol. 1984; 55: 263-269.