

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
9. Aya Ahmad Abdallah Hasan thesis entitled: Molecular Changes Associated with Novel Carboxamide Derivatives' Treatment of Triton WR1339 Induced Hyperlipidemic Rats; Oct 2022 - June 2023
10. Yasmeen Mahmoud Sudqi Zaid Al-Kilani thesis entitled: The impact of novel lipid-lowering drugs on the expression of inflammatory markers in Triton WR1339 Induced Hyperlipidemic Rats; Oct 2022 - June 2023

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.



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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.
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.
5. Metabolic and molecular changes of 3D versus 2D Tamoxifen resistant breast cancer cell lines and their prognostic impact on breast cancer patient, 2023, Al-Zaytoonah University of Jordan, 13,000 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
 5. Internal examiner for Amani Mahmoud AlDoridee, Master thesis entitled: Cytotoxic Differences of Anticancer Drugs on 2D and 3D cancer cell lines, June 2023
- **University**
- Alumni follow-up Committee 2020-2021 & 2021-2022 & 2022-2023



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- 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
- 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.



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- 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

- 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, Baraa Shawaqfeh, **Suhair Hikmat**, Tariq Al-Qirim, Lama Hamadneh, Sameer Al-Kouz, Mariam M. Awad, and Frank S. Hall. The Role of Vitamin E in Protecting against Oxidative Stress, Inflammation, and the Neurotoxic Effects of Acute Paracetamol in Pregnant Female Rats. *Toxics* (2023), 11, 368, 1-15.
2. 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.
3. 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 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
4. 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
5. 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
6. 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
7. 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
8. 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*



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- Potential Carbonic Anhydrase Inhibitor in E. Coli*, Journal of Global Pharma Technology, 2019; Online at: www.jgpt.co.in
9. 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
 10. 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
 11. 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
 12. **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
 13. **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
 14. 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.
 15. 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.



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16. Shattat G., Al-Qirim T., Abu Sheikha G., Al-Hiari Y., Sweidan K., Al-Qirim R., **Hikmat S.**, Hamadne 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
17. 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.
18. 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.
19. 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
20. 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.
21. 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.
22. **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.
23. **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.
24. **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.
25. **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.



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26. **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.
27. Tjalve H., **Jasim S.H.**, & Oskarsson A. *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.
28. **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.