

CURRICULUM VITAE

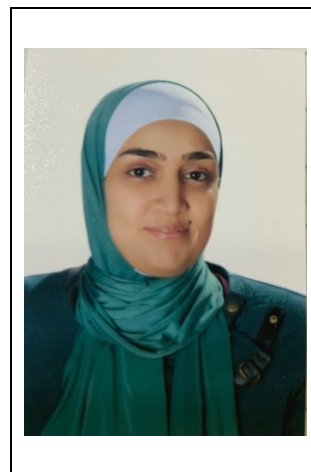
Alaa Mahmoud Ahmad Hammad

*Department of Pharmacy /Faculty of Pharmacy,
AlZaytoonah University of Jordan, Amman, Jordan*

Phone: 0096279624676

Fax: 00962-6-4291432

E-mail: Alaa.Hammad@zuj.edu.jo



1. Personal Data

Date of Birth: March 4th, 1984

Nationality: Jordanian

2. Education

- Ph.D. (Experimental Therapeutics) 2017, The University of Toledo, Toledo, Ohio, USA. GPA 4.0 out of 4.0
- M.Sc. (Pharmaceutical Sciences- Pharmacology) 2011, Albany College of Pharmacy and health sciences, Albany, New York, USA. GPA 3.93 out of 4.0
- B.Sc. (Pharmacy) 2007, Jordan University, Amman, Jordan. GPA 3.63 out of 4.0

3. Ph.D. Dissertation

- *The role of Glutamate Transporter 1 and Cystine-glutamate exchanger in cocaine and ethanol co-abuse: Potential therapeutic targets*, The University of Toledo, Toledo, Ohio, USA.

4. Employment

Academic Positions

- Assistant Professor, Pharmacology Department, AlZaytoonah University of Jordan, Amman, Jordan
December 15th, 2017 – now.
- Graduate Assistant, Department of Pharmacology and Experimental Therapeutics, The University of Toledo, Toledo, Ohio, USA



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August, 2015- August 2017.

- Instructor, Pharmacology Department, AlZaytoonah University of Jordan, Amman, Jordan
February, 2012- August, 2014.

Non-Academic Positions

- Assistant Data Anayst, International Pharmaceutical Research Center (IPRC), Amman, Jordan. March 2007-August 2009.

5. Research Interests

- Neuroprotection and Drug Abuse research, especially investigating the role of glutamatergic neurotransmission in Drugs of abuse mainly nicotine exposure.

6. Membership in Scientific Societies and Associations

- Member of Jordan Pharmaceutical Association (JPA).
- Member of American Society for Pharmacology and Experimental Therapeutics (ASPET).
- Member of Society of Neuroscience (SFN).

7. Fellowships and Scholarships

- Alzaytoonah University postgraduate scholarship to pursue PhD degree in 2014.

8. Teaching Experience

- **Graduate Courses**
 - Advanced Pathophysiology for Nursing Students.
 - Advanced Clinical Pharmacology and Therapeutics.
- **Undergraduate Courses**
 - Clinical Pharmacy and Therapeutics 1.
 - Clinical Pharmacy and Therapeutics 2.
 - Biopharmaceutics and Pharmacokinetics.
 - Biopharmaceutics and



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- Pharmacokinetics Laboratory.
- Clinical Pharmacy and Therapeutics Laboratory 1 (Clinical Cases).
 - Clinical Pharmacy and Therapeutics Laboratory 2 (Hospital).
 - Professional Pharmacy Practice 2.
 - Pathophysiology.
 - Pathophysiology Laboratory.
 - Physiology 1.
 - Physiology Laboratory.
 - Pharmacology Laboratory.

9. Supervision of Graduate Research

- Ghadeer M.S. Swiss, "Effects of water pipe whole body exposure on gene expression of glial glutamatergic transporters in different mesocorticolimbic brain regions", 2020.
- Yasmine Ibrahim, Effects of Oxandrolone on glial glutamatergic transporters expression in different mesocorticolimbic brain regions, 2020.

10. Grants

- A research grant (grant no. 26/12/2019-202) for a project titled "Effect of chronic inhalation of water pipe on rat behavior and glial glutamate transporters and cannabinoid receptor type 1 in rats" from AlZaytoonah University of Jordan. The grant amount was 56000 USD for a 24 months duration.

11. Membership of Committees

- **National and International**
 - Member of a Choosing an Incubator for medicinal plants Committee to establish a research incubator that is integrated to the Ministry of Higher Education and Scientific Research, Amman, Jordan.
- **University**
 - Member of Accreditation Council for Pharmacy Education (ACPE) steering committee, AlZaytoonah University of Jordan, Amman, Jordan. March 2018-now.
 - Head of the Training committee, AlZaytoonah University of Jordan, Amman, Jordan. September 2018-now.
 - Member of the Curriculum committee, AlZaytoonah University of Jordan, Amman, Jordan. September 2018-now.
 - Member of the disciplinary committee, AlZaytoonah University of Jordan, Amman, Jordan. September 2018-now.



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- Member of the Equivalence, Guidance, Training and Follow up Graduates Member of American Society for Pharmacology and Experimental Therapeutics (ASPET).

12. Professional and Scientific Meetings

- American Society for Pharmacology and Experimental Therapeutics (ASPET), Annual Meeting in Experimental Biology, April 2017, Chicago, USA.
- Sixth pharmaceutical International Pharmaceutical Conference (oral presentation), October 2017, AlZaytoonah University of Jordan, Amman, Jordan.
- How to Deal with the Module Workshop, February 2018, AlZaytoonah University of Jordan, Amman, Jordan.
- Recent Trends in Postgraduate Research, October 2018, Applied Science Private University, Amman, Jordan.
- Introductory into the SPSS Workshop, AlZaytoonah University of Jordan, February 2019, Amman, Jordan
- 4th Regional Pharmacy Faculty Development Workshop on taking your experimental education program to the next level, Al Ain University of Science and Technology (AAU), March 2019, Abu-Dhabi, UAE.
- Trainer of Trainee (TOT) Workshop, AlZaytoonah University of Jordan, May 2019, Amman, Jordan.
- Objective Structured Clinical Examination (OSCE) Workshop AlZaytoonah University of Jordan, October 2019, Amman, Jordan.
- The First Pharmacy conference, A Pharmacy towards renewable horizons, October 2019, Pharmacy one and RBC team, Amman, Jordan.
- Mental Health Awareness, November 2019, Yarmouk University, Irbid, Jordan.
- A proctor in AlZaytoonah University of Jordan and the University of Toledo seventh pharmaceutical International Pharmaceutical Conference (oral presentation), November 2019, AlZaytoonah University of Amman, Jordan.

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

- Attended Graduate Day, May 2018, AlZaytoonah University of Jordan, Amman, Jordan.
- Organized and participated in drug drive for the underprivileged in Islamic Educational College, May 2019, Amman, Jordan.
- Attended World Drugs of Abuse Day- Hand in Hand, June 2019, Public Security Directory, Amman, Jordan.
- Organized and participated in Experiential Field Trainer Day, AlZaytoonah University of Jordan, July 2019, Amman, Jordan.



- Organized Lectures series on the Importance and Difficulties of experiential training, October- January 2019, AlZaytoonah University of Jordan, Amman, Jordan.
- Participated in RBC awareness event, January 2020, Mecca Mall, Amman, Jordan.
- Judge in RBC poster session, Petra University, March 2020, Amman, Jordan.

14. Publications

- Papers in refereed journals
- 1- **Alaa M. Hammad**, Fawaz Alasmari, and Youssef Sari “The effect of modulation of the glial glutamate transporters’ expression on cocaine-induced reinstatement in male P rats exposed to voluntary home-cage ethanol drinking”, *Alcohol and Alcoholism* (2020).
 - 2- Suhair Sunoqrot, Malek Alfaraj, **Ala’a M. Hammad**, Violet Kasabri, Dana Shalabi, Ahmad A. Deeb, Lina Hasan Ibrahim, Khaldoun Shnewer, and Ismail Yousef Development of a Thymoquinone Polymeric Anticancer Nanomedicine through Optimization of Polymer Molecular Weight and Nanoparticle Architecture, *Pharmaceutics*, 2020 Sep; 12(9): 8-11.
 - 3- Zaid, A.A; Barakat, M; Al-Qudah, R.A.; Albetawi, S.; **Hammad, A**; “Knowledge and awareness of community toward COVID-19 in Jordan: A cross-sectional study” *Systematic Reviews in Pharmacy*, 2020 August; 11(7): 135-142.
 - 4- **Hammad, Alaa M.**, and Youssef Sari. "Effects of Cocaine Exposure on Astrocytic Glutamate Transporters and Relapse-Like Ethanol-Drinking Behavior in Male Alcohol-Preferring Rats." *Alcohol and Alcoholism* 2020, Apr; 55(3):254-263.
 - 5- Alasmari, Fawaz, Laura Crotty Alexander, **Alaa Hammad**, Christine M. Bojanowski, Alex Moshensky, and Youssef Sari. "Effects of chronic inhalation of electronic cigarette vapor containing nicotine on neurotransmitters in the frontal cortex and striatum of C57BL/6 mice." *Frontiers in pharmacology* 10 (2019): 885.
 - 6- Al-Qerem, Walid A., **Alaa M. Hammad**, Rania A. AlQirem, and Jonathan Ling. "Do the global lung function initiative reference equations reflect a sample of adult Middle Eastern population? " *The Clinical Respiratory Journal* 13, no. 7 (2019): 429-437.



- 7- Al-Qerem, Walid, **Alaa M. Hammad**, Ezeddin S. Gassar, Rania A. Al-Qirim, and Jonathan Ling. "Spirometry reference equations for an adult Middle Eastern population." *Expert review of respiratory medicine* 13, no. 5 (2019): 489-497.
- 8- Althobaiti, Yusuf S., Fahad S. Alshehri, Alqassem Y. Hakami, **Alaa M. Hammad**, and Youssef Sari. "Effects of clavulanic acid treatment on reinstatement to methamphetamine, glial glutamate transporters, and mGluR 2/3 expression in P rats exposed to ethanol." *Journal of Molecular Neuroscience* 67, no. 1 (2019): 1-15.
- 9- **Hammad, Alaa M.**, Fawaz Alasmari, Youssef Sari, F. Scott Hall, and Amit K. Tiwari. "Alcohol and Cocaine Exposure Modulates ABCB1 and ABCG2 Transporters in Male Alcohol-Preferring Rats." *Molecular neurobiology* 56, no. 3 (2019): 1921-1932.
- 10- Al-Qerem, Walid, Ezeddin S. Gassar, **Alaa M. Hammad**, Rania A. Al-Qirim, Yazun B. Jarrar, Jonathan Ling, and Iman A. Basheti. "Assessing the Application of the Reference Lung Age Equations on the Jordanian Population." *Current Respiratory Medicine Reviews* 14, no. 4 (2018): 227-236.
- 11- Alasmari, Fawaz, Richard L. Bell, P. S. S. Rao, **Alaa M. Hammad**, and Youssef Sari. "Peri-adolescent drinking of ethanol and/or nicotine modulates astroglial glutamate transporters and metabotropic glutamate receptor-1 in female alcohol-preferring rats." *Pharmacology Biochemistry and Behavior* 170 (2018): 44-55.
- 12- **Hammad, Alaa M.**, Fawaz Alasmari, Yusuf S. Althobaiti, and Youssef Sari. "Modulatory effects of Ampicillin/Sulbactam on glial glutamate transporters and metabotropic glutamate receptor 1 as well as reinstatement to cocaine-seeking behavior." *Behavioural brain research* 332 (2017): 288-298.
- 13- **Hammad, Alaa M.**, Yusuf S. Althobaiti, Sujana C. Das, and Youssef Sari. "Effects of repeated cocaine exposure and withdrawal on voluntary ethanol drinking, and the expression of glial glutamate transporters in mesocorticolimbic system of P rats." *Molecular and Cellular Neuroscience* 82 (2017): 58-65.
- 14- Hakami, Alqassem Y., **Alaa M. Hammad**, and Youssef Sari. "Effects of amoxicillin and augmentin on cystine-glutamate exchanger and glutamate transporter 1 isoforms as well as ethanol intake in alcohol-preferring rats." *Frontiers in neuroscience* 10 (2016): 171.
- 15- Balqis Ikhmais, **Alaa M. Hammad**, Waleed Qirim, Osama H. Abusara, Jonathan Ling "Conducting a COVID-19-Related Research in Jordan: Are We Ready? Accepted.



16- Fawaz Alasmari, Laura Crotty E. Alexander, **Alaa M. Hammad**, Austin Horton, Hasan Alhaddad, Isaac T. Schiefer, John Shin, Alexander Moshensky, and Youssef Sari1, "E-cigarette aerosols containing nicotine modulate nicotinic acetylcholine receptors and astroglial glutamate transporters in mesocorticolimbic brain regions of chronically exposed mice" under review.

- Conference Presentation.

- 1- Hass, Martha A.; Carreno, Joseph; **Hammad, Alaa**. *Synthesis and Antioxidant Activity of Mutual Prodrugs Derived from Tocopherol and Lipoic Acid* American Association of Pharmaceutical Scientists, Annual Meeting, November 14-18, 2010, New Orleans, LA.
- 2- **Alaa M. Hammad**, Fawaz Alasmari, Yusuf Althobaiti, Youssef Sari *Modulatory effects of Ampicillin/Sulbactam on glial glutamate transporters and metabotropic glutamate receptor 1 as well as reinstatement to cocaine seeking behavior*. SFN, November 2017.
- 3- Fawaz Alasmari, Richard L. Bell, **Alaa M. Hammad**, Youssef Sari *Effects of multiple scheduled drinking of nicotine and/or ethanol on glial glutamate transporters and metabotropic glutamate receptor-1 in female alcohol-preferring rats*, SFN, November 2017.
- 4- Yusuf Althobaiti, Fahad Alshehri, Alqassem Hakami, **Alaa M. Hammad**, Youssef Sari *Methamphetamine, glutamatergic transporters, conditioned place preference, mGluR2/3, clavulanic acid*, SFN, November 2017.
- 5- **Hammad, Alaa M.**, Fawaz Alasmari, Yusuf S. Althobaiti, and Youssef Sari. "Modulatory effects of Ampicillin/Sulbactam on glial glutamate transporters and metabotropic glutamate receptor 1 as well as reinstatement to cocaine-seeking behavior." AlZaytoonah University of Jordan and the University of Toledo sixth pharmaceutical International Pharmaceutical Conference (oral presentation), 2017.

15. Previous Achievement in the field of research

- The effects of drugs of abuse, including cocaine, amphetamine and nicotine dependence on glutamate homeostasis in mesocorticolimbic of alcohol-preferring rats using chronic and relapse-like rat model. Furthermore, the effect of e-cigarette exposure on neurotransmitters concentrations in



mesocorticolimbic regions. I also investigated the modulating effect of b-lactams antibiotics on glutamate transporters.

16. Activities that have an impact of Research

- Oral presentation in AlZaytoonah University of Jordan and the University of Toledo sixth pharmaceutical International Pharmaceutical Conference, 2017.
- Lectures and seminars conducted with the nursing students on the importance of research, how to present data and how to conduct research.
- Journal club on my field of research and present some data I have obtained.
- Lectures and seminars conducted with pharmacy students on the importance of research, how to present data and how to conduct research.