

**Khawla Nuseir, PhD**  
**Curriculum vitae**

**Jordan University of Science and Technology**

**Clinical Pharmacy Department**

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**Google Scholar: <https://scholar.google.com/citations?user=JWln3YwAAAAJ&hl=en>**

**ResearchGate: [https://www.researchgate.net/profile/Khawla\\_Nuseir](https://www.researchgate.net/profile/Khawla_Nuseir)**

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**EDUCATION**

Ph.D., Pharmacology, 2000

University of Illinois at Chicago, Chicago, IL

Specialization: Neuroscience, Pain modulation

Dissertation title “Modulation of nociception by GABA neurons in the brainstem.”

B.Sc. Pharmacy, 1987

Yarmouk University, Irbid, Jordan

**PROFESSIONAL POSITIONS**

2018 - Present

**Associate Professor, Pharmacology – Jordan University of Science and Technology, Irbid, Jordan**

2017-2018

**Visiting Associate Professor, Pharmacology- University of California at Irvine, Irvine, CA, USA**

2018-Present

**Associate Project Scientist, School of Pharmacy and Pharmaceutical sciences- University of California at Irvine, Irvine, CA, USA**

2008 - 2017

**Assistant Professor, Pharmacology – Jordan University of Science and Technology, Irbid, Jordan**

2002 - 2008

**Adjunct Faculty, South Suburban College, South Holland, IL, USA**

Taught organic and biochemistry, a college transferable course.

2000 – 2003

**Senior Research Specialist, University of Illinois at Chicago, Chicago, IL, USA**

Investigated ageing processes in relation to noradrenergic neurons in the locus coeruleus.

1992 – 2000

**Research and Teaching Assistant, University of Illinois at Chicago, Chicago, IL, USA**

Tutored students and conducted research.

1989-1992

**Teaching Assistant, Jordan University of Science and Technology, Irbid, Jordan**

Instructed 5<sup>th</sup> and 2<sup>nd</sup> year pharmacy students in laboratories such as “dispensing” and “pharmaceutics”.

1987-1989

**Pharmacist in charge- Alqirawan Pharmacy, Irbid, Jordan**

Established and managed community pharmacy operation for a new pharmacy.

**RESEARCH INTERESTS**

Pharmacology and neuroanatomy of pain modulatory pathways in the brain  
Pain management particularly among the premature and mature infants at the NICU  
Opioid addiction and management  
Clinical Pharmacy and Pharmaceutical care services  
Women health issues  
Toxicology and environmental health issues

**TEACHING EXPERIENCE**

Taught several courses notable among these:

Pharmacology; developed and coordinated all three pharmacology courses.  
Pharmacotherapy, neurology, and psychiatric disorders  
Pharmacotherapy, women, and men health issues  
Pharmacotherapy, infectious diseases  
Drug information resources  
Clinical Seminar for PharmD and master students  
Advanced Pharmacology for master students  
Advanced Therapeutics for master students

**Academic Supervision and Thesis Committees (Master Students):**

**Major Advisor:**

Jeorgina Buros (MS in clinical pharmacy, fall 2022)  
Fadwa Zaher (MS in applied biological sciences, fall 2022)

Samar Albanaa (MS in clinical pharmacy, spring 2017)  
Alaa Alkhatib (MS in clinical pharmacy, summer 2017)  
Alaa Tassalq (MS in clinical pharmacy, summer 2017)  
Salam Shannag (MS in clinical pharmacy, summer 2017)  
Areej Bawanee (MS in clinical pharmacy, spring 2016)  
Mohammed Al-Azzani (MS in clinical pharmacy, spring 2016)  
Jehad Obweini (MS in Clinical Pharmacy, Spring-2014)

### **Co-Advisor:**

Hala AbdulQader (MS in Pharmacology, Spring 2021)  
Alaa Alabeneh (MS in Clinical Pharmacy, Fall 2018)  
Yasmeen Alshamali (MS in Clinical Pharmacy, Spring-2017)  
Nour Alqaood (MS in Nursing, Spring-2016)  
Sajida Abu-Alkishk (MS in Clinical Pharmacy, Summer-2015)  
Nuha Ghizawi (MS in Clinical Pharmacy, Fall-2013)  
Noor Bazi (MS in Clinical Pharmacy, Spring-2013)  
Kamillia Ahmed (MS in Clinical Pharmacy, Fall-2012)  
Suhad Barakat (MS in Clinical Pharmacy, Fall-2010)

### **DEPARTMENT/ UNIVERSITY SERVICES**

Clinical pharmacy committee  
Departmental research committee  
Exam Evaluation committee  
Continuous education committee  
Summer training committee  
Society services committee

### **EXTRACURRICULAR UNIVERSITY/ COMMUNITY SERVICES**

Pharmacy clinical championship  
Towards and optimum pharmaceutical care  
Contributing articles in Arabic language about abuse and misuse of alcohol and commonly used medications for public at "Jordan free of Drugs" Journal. Antinarcotics Department, Public Security Directorate, Amman, Jordan  
Pharmaceutical Counseling Day: A free pharmaceutical counseling and clinical pharmacy services day on June-23-2012, at Arabella Mall, Irbid, Jordan.  
The Woman in Pharmaceutical Eyes: A free pharmaceutical counseling activity directed toward women held under the supervision of the Faculty of Pharmacy- Jordan University of Science and Technology in association with the Jordanian Pharmaceutical Association. November-17-2012, Irbid at Professional Associations Complex, Irbid, Jordan.  
Participated in a free medical day at Hartha High School, Hartha, Bani Kenanah, Irbid, Jordan (December 2012).

Participated in a free medical day at Ramtha High School, Ramtha, Irbid, Jordan (April 2013).

Participated in a free medical day at Elzamal High School, Alkurah, Irbid, Jordan (May 2013).

Hosted Mr. Anas Tantawi (head of the media department at Alrasheed hospital for drug addiction and recapitulation center) via zoom to talk about the dangers of drugs on young people. (2022)

Organized a “drug awareness day” for university students at JUST (2023).

## **AWARDS AND HONOURS**

Scholarship awarded from Jordan University of science and technology to pursue graduate degree in pharmacology 1992.

Dean Honour’s list, college of pharmacy, Yarmouk University, Jordan

Ministry of education scholarship (tuition and fees waiver and monthly stipend) for BSc in pharmacy, Jordan 1982-1987

## **AFFILIATIONS**

American College of Clinical Pharmacology (ACCP), since 2023

American Society for Pharmacology and Experimental Therapeutics (ASPET), since 2021

Jordan Pain Society; administrative board member 2014/ 2015/ 2017

Jordan Pain Society; acting president 2016

International Association for the Study of Pain (IASP), since 2014

Society for Neuroscience; member since 1994

Jordan Pharmacists Association, member since 1987

## **LANGUAGES**

Arabic native

English fluent reading, writing, and speaking.

## **PUBLICATIONS**

Shoroq M Altawalbeh, Minas Al-Khatib, Basima A Almomani, **Khawla Nuseir**, Belal A Al-Husein, Tareq L Mukattash. Students’ experiences and attitudes toward a newly developed simulation-based pharmaceutical care clinical rotation: A pre-post study design. Saudi Pharmaceutical Journal. Volume 31, Issue 6, 2023, Pages 808-814, ISSN 1319-0164, <https://doi.org/10.1016/j.jsps.2023.04.013>.

Alhassen, L., **K. Nuseir**, A. Ha, W. Phan, I. Marmouzi, S. Shah and O. Civelli (2021). "The Extract of *Corydalis yanhusuo* Prevents Morphine Tolerance and Dependence." PHARMACEUTICALS 14(10).

Alachkar, A., S. Agrawal, M. Baboldashtian, **K. Nuseir**, J. Salazar and A. Agrawal (2022). "L-methionine enhances neuroinflammation and impairs neurogenesis: Implication for Alzheimer's disease." *Journal of Neuroimmunology* 366: 577843.

Altarifi, A. A., B. A. Younis, **K. Q. Nuseir**, A. A. Al-Mousa, A. K. Qaoud, M. I. Alsalem and J. K. Neubert (2022). "Preclinical comparison of antinociceptive effects between ibuprofen, diclofenac, naproxen, and acetaminophen on acid-stimulated body stretching and acid-depressed feeding behaviors in rats." *Behavioural Pharmacology* 33(8): 567-574.

Altarifi, A., H. Abedalqader, A. Al-Mousa and **K. Nuseir** (2022). "Evaluation of the Antinociceptive Effects of Combining Serratiopeptidase and Ibuprofen in Acute and Chronic Nociceptive Models in Rats." *The FASEB Journal* 36(S1).

Ayoub, N. M., M. Jibreel, **K. Nuseir** and G. M. Al-Taani (2022). "A Survey of Knowledge and Barriers of Healthcare Professionals toward Opioid Analgesics in Cancer Pain Management." *International Journal of Clinical Practice* 2022: 1136430.

Alhusban, A., K. Alzoubi, S. Al-Azzam and **K. Nuseir** (2022). "Evaluation of Vulnerability Factors for Developing Stress and Depression due to COVID-19 Spread and its Associated Lockdown." *Clinical Practice & Epidemiology in Mental Health* 18.

**Khawla Q Nuseir**, Karem H Alzoubi, Ahmed Y Alhusban, Mohammed Alazzani, Areej Bawaane, Omar F Khabour. Saccharin and naltrexone prevent increased pain sensitivity and impaired long-term memory induced by repetitive neonatal noxious stimulation: role of BDNF and enkephalin. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2021.

**Khawla Nuseir**, Linda Tahaine, Lama Almehaisen, Oqba Al-Kuran, Nehad Ayoub, Tareq Mukattash, Naseer Al-Rawi. Organophosphate pesticide exposure prenatally influences on pregnancy outcomes. *Journal of Maternal-Fetal and Neonatal Medicine*. January 2021.

Zelal Kharaba, Sayer Al-Azzam, Ahmed Alhusban, **Khawla Nuseir**. A look behind the scenes: COVID-19 impact on depression and perceived stress of UAE population. *Middle East Current Psychiatry*. 2021; 28(1).

Manal Kassab, Mohammad Rababa, Shereen Hamandneh, **Khawla Nuseir**, Marwa Othman, Anit N Roy. Validation of One-Dimensional with Two-Dimensional Pain Scales in Post-Operative Children: Randomised Control Trial at A Single Based Hospital in Jordan. *Systematic Reviews in Pharmacy*. 2021;12(3):10-15.

Nehad M. Ayoub, **Khawla Q. Nuseir**, Yasmeeen A. Al-Shamali and Ahmad Al-Zoubi. Attitudes and appropriateness of pain management in cancer patients using pain management index. *Journal of Pharmaceutical Health Services Reseach*, 2020, Vol XX, 1–9.

M Kassab, B Almomani, **K Nuseir**. Efficacy of sucrose in reducing pain during immunization among 10-to 18-month-old infants and young children: A randomized controlled trial. *Journal of Pediatric Nursing*. 2020; 50; e55-e61

**Khawla Nuseir**, Amal Al Achkar, Olivier Cevilli. I-Methionine effects on proliferation and cell death of human neuroblastoma SH-SY5Y and mouse hippocampus. *IBRO Reports*.2019; 6:S107

Samar Abdo, **Khawla Q. Nuseir \***, Ahmad A. Altarifi, Moussa Barqawi, Nehad M. Ayoub, T.L. Mukattash. Management of Sickle Cell Disease Pain among Adolescent and Pediatric Patients. *Brain Sciences*, 2019; 9 (8); 182

**Khawla Q Nuseir**, Ahmad Altarifi, Alaa Tasslaq, Ahmd Y Alhusban, Karem H Alzoubi. Early and late anti nociceptive effects of sucrose on neonatal inflammatory pain in rats: Comparison to a non-steroidal anti-inflammatory drug. *Physiology and Behavior*. 2019; 206; 37-42.

Karem H Alzoubi, Alaa M Al-ibbini, **Khawla Q Nuseir**. Prevention of memory impairment induced by post-traumatic stress disorder by cerebrolysin. *Psychiatry research*. 2019; 270; 430-437.

Manal Kassab, Shereen Hamadneh, **Khawla Nuseir**, Basima ALmomani, Jehan Hamadneh. Factors associated with infant pain severity undergoing immunization injections. *Journal of pediatric nursing*. 2018; e85-e90

Tareq L Mukattash, Nour H Bazzi, **Khawla Q Nuseir**, Anan S Jarab, Rana K Abu-Farha, Maher R Khmour. Pharmaceutical care in community pharmacies in Jordan: a public survey. *Pharmacy Practice (Granada)*. 2018; 16; 2

**Khawla Q Nuseir**, Karem Alzubi, Ahmed Alhusban, Areej Bawaane, Mohammad Al-Azzani, and Omar Khabour. Sucrose and naltrexone prevent increased pain sensitivity and impaired long-term memory induced by repetitive neonatal noxious stimulation: role of BDNF and  $\beta$ -endorphin. *Physiology and Behavior*. 2017; 179; 213-219.

**Khawla Nuseir**, Manal Kassab, and Mohammed Al-Azzani. Sweet Solution Analgesia. In *Pain Relief- From Analgesia to Alternative Therapies*. INTECH, May 2017

L. Tahaineh, **K. Nuseir**, and L.M. Al-Mehaisen. Medication use during pregnancy and drug information resources utilized by pregnant women in Jordan. *Clinical and Experimental Obstetrics & Gynecology*. 2017, XLIV(1).

**Khawla Nuseir**, Manal Kassab, and Basima Almomani. Healthcare Providers' Knowledge and Current Practice of Pain Assessment and Management: How Much

Progress Have We Made? Pain Research and Management. 2016.

Nehad M Ayoub, **Khawla Q Nuseir**, Areej K Othman, and Sajedah Abu Alkishik. Knowledge, attitudes and barriers towards breast cancer health education among community pharmacists. *Journal of Pharmaceutical Health Services Research*. 2016; 7,3; 189-198.

**Nuseir K**, Alzoubi K, Alabwaini J, Khabour O, and Kassab M. Sucrose-induced analgesia during early life modulates adulthood learning and memory formation. *Physiology and Behavior*. 2015; 145; 84-90.

Mukattash T, **Nuseir K**, Biltaji Eman, Jarab A, and Alefan Q. Students' Perceptions of Pharmacy as a Specialization and their Future Career, a Cross Sectional Study of Final Year Pharmacy Students in Jordan. *Jordan Journal of Pharmaceutical Sciences*, 2015, 8(3).

Mukattash T, **Nuseir K**, Jarab A, Alzoubi K, Al-Azzam S and Shara M. Sources of Information used when Prescribing for Children, a Survey of Hospital Based Pediatricians. *Current clinical pharmacology*. 2014;9(4):395-8.

**Nuseir K**, Proudfit HK. Bidirectional modulation of nociception by GABA neurons in the dorsolateral pontine tegmentum that tonically inhibit spinally projecting noradrenergic A7 neurons. *Neuroscience*. 2000; 96(4):773-83.

**Nuseir K**, Heidenreich BA, and Proudfit HK. The antinociception produced by microinjection of a cholinergic agonist in the ventromedial medulla is mediated by noradrenergic neurons in the A7 catecholamine cell group. *Brain* 1999 Mar 20; 822(1-2):1-7.