

Date: 15/4/2025



CURRICULUM VITAE

PERSONAL INFORMATION

Faculty Member Name: Sahar Jaffal
Academic Rank: Assistant professor
College: Pharmacy
Department: Pharmacy
Nationality: Jordanian
Address: Batrawi, Zarqa
Phone No: 0787924254
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ACADEMIC QUALIFICATIONS

Degrees with fields, institution, and date

- B.S. in Nutrition and Food Science program, University of Jordan, 2001.
- M.Sc. in Biology, University of Jordan, 2004.
The effects of meloxicam on ovulation, implantation, midgestation and onset of delivery in female rats.
- Ph.D. in program, university, year.
Dissertation title:
Examining the potential analgesic, anti-inflammatory, anti-pyretic effects of *Arbutus andrachne* L. methanolic leaf extract and screening the possible involved receptors in its effects in rodents.

ACADEMIC EXPERIENCE

- Duration: 2 years
- University :Philadelphia and Amman Arab University
- Academic Rank: Assistant professor
- Date the rank was granted: 5 September 2023
- The body granting the rank: Philadelphia University

دائرة الموارد البشرية
Human Resources Department

- College: Biotechnology and Genetic Engineering
- Country: Jordan

NON-ACADEMIC EXPERIENCE

- Duration: 15 year
- Institution: Kuwait University, University of Jordan
- Department: Pharmacy, Science
- Country: Kuwait, Jordan

CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

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CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

1. International anesthesia Research Society.
2. Asian Council of Science Editors (ACSE).
3. Committee member in the 9th International Conference on Agricultural and Biological Sciences (ABS 2023) <http://www.absconf.org/TPC>.
4. Honor Society.
5. Golden Key International Honour Society.
6. Society for Neuroscience (SFN).
7. Society for Arab Neuroscientists.
8. Previous membership in Canadian Association for Neuroscience.
9. Agricultural Engineers' Association (AEA) in Jordan.

HONORS AND AWARDS

1. Winning the top medal (the gold medal with congratulations of the Jury in recognition of excellence for the invention) at the International invention fair in the Middle East, Kuwait, February 2024 for my invention entitled: the mini-incubator carrier box.
2. Winning the prize of the International Exhibition of inventions Geneve (5000 USD), February 2024 for my invention entitled: the mini-incubator carrier box.
3. University of Jordan President's and Dean's Honour List with Distinction in 2020/2021 (GPA 4 out of 4, PhD).
4. Research Reward for the top ranked researches in Pharmacology and Pharmacy Category at Kuwait University, Office of Vice President for Research (August 2014).
5. Travel Grant Award for the International Summit for Golden Key (April 2014).
6. Graduate Excellence Award in Medicine, McGill University (January 2014).
7. Canadian Post Graduate Scholarship Award from Golden Key (August 2013).
8. Graduate Excellence Award in Neurology & Neurosurgery, McGill University (January 2013).
9. McGill University Health Centre (MUHC) Scholarship (September 2012).

دائرة الموارد البشرية
Human Resources Department

10. McGill International Doctorate Students Award (MIDAS Scholarship), McGill University (October 2010).
11. Provost Scholarship, McGill University (October 2010).

SERVICE ACTIVITIES

- Herbal Workshop, Faculty of Pharmacy, Amman Arab University,
- Community service activity for orphans,

THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

1. **Jaffal SM** (2025). Neuroplasticity in chronic pain: Insights into diagnosis and treatment. Korean Journal of pain, 38: 89-102.
2. **Jaffal SM, Khalil, R** (2024). Targeting nerve growth factor for pain relief: Pros and cons. Korean Journal of pain, 37(4): 288-298.
3. Samer Y. Alqaraleh, Wael A. Al-Zereini, Nesrin R. Mwafi, Sahar M. Jaffal, Aiman I. Al-Qtaitat. The Green Synthesis of Selenium Nanoparticles: A Comprehensive Review on Methodology, Characterization and Biomedical Applications. Research Journal of Pharmacy and Technology.2024; 17(8):4054-2.
4. Sahar **Jaffal**, (2023). Effects of PGf2 α On P-Erk1/2 Mapk Activation, Proliferation and Formation of Trans-Endothelial Tunnels in Swiss 3t3 Fibroblast Cells, J. Pharmaceutics and Pharmacology Research, 6(2).

5. Haddad, M., Alsalem, M., Saleh, T., **Jaffal**, S. M., Barakat, N. A., & El-Salem, K. (2023). Interaction of the synthetic cannabinoid WIN55212 with tramadol on nociceptive thresholds and core body temperature in a chemotherapy-induced peripheral neuropathy pain model. *Neuroreport*, 34(8), 441-448.
6. **Jaffal** SM (2023). Medicinal Plants of Jordan Possessing Anti-Nociceptive, Anti Inflammatory and Antipyretic Properties. *Archives in traditional and complementary medicine*, 2(1): 1-14.
7. **Jaffal** SM, Oran SA, Alsalem M, Al-Najjar B (2022). Effect of *Arbutus andrachne* L. Methanolic Leaf Extract on TRPV1 Function: Experimental and Molecular Docking Studies. *Journal of Applied Pharmaceutical Science*, 12(10): 69-77.
8. Abazid H, Abutayeh R, Abu Farha R, **Jaffal** SM, Alkaddah D, Al Jomaa EE (2023). Substance Abuse among University Students: Assessing Prevalence, Risk and Preventive Measures. *Jordan Journal of Pharmaceutical Science*, 16(2): 235-244.
9. Haddad, M., Alsalem, M., Aldossary, S. A., Kalbounieh, H., **Jaffal**, S. M., Alshawabkeh, Q., Al Hayek, S., Abdelhai, O., Barakat, N. A., & El-Salem, K. (2023). The role of adenosine receptor ligands on inflammatory pain: Possible modulation of TRPV1 receptor function. *Inflammopharmacology*, 31: 337-347.
10. Abazid H, **Jaffal** SM, Abu-Samak M (2022). Imbalances of key parameters needed for energy-yielding processes in the serum of tramadol-treated male rats. *Journal of applied pharmaceutical Science*, 12(4): 153-158.
11. **Jaffal** SM, Oran SA, Alsalem M. (2022). Alleviation of capsaicin-induced mechanical allodynia by *Arbutus andrachne* L. methanolic leaf extract in male rats. *Mutah Lil Buhuth wad-Dirasat, Natural and Applied Sciences Series*, 37(2): 31-49.
12. Oran SA, Yousef If, **Jaffal** SM (2022). Evaluation of the antiproliferative effect of selected plant extracts on colon and skin cancer cell lines. *Journal of Applied Pharmaceutical Science*, 12 (11):91-96.
13. **Jaffal** SM, Tamini S (2022). Effect of explant type and different plant growth regulators on callus induction and growth in *citrus sinensis* (L.) osbeck. *South Western Journal of Horticulture, Biology and Environment*, 13(1), 1-12.

14. **Jaffal SM, Oran SA, Alsalem M (2021).** Anti-inflammatory and antipyretic potential of *Arbutus andrachne* L. methanolic leaf extract in rats. Asian Pacific Journal of Tropical Biomedicine, 11(11): 491-499.
1. 17. **Jaffal SM, Abbas MA (2021).** TRP channels in COVID-19 disease: Potential targets for prevention and treatment. Chemico-Biological Interactions. 245 (109567): 1-11.
2. **Jaffal SM, Al-Najjar BD, Abbas MA (2021).** *Ononis spinosa* Alleviated Capsaicin-Induced Mechanical Allodynia in a Rat Model through TRPV1 Modulation. Korean Journal of pain. 34 (3):1-9.
3. 19. Abbas MA, Al-Najjar BD, **Jaffal SM (2021).** Analgesic property of *Loranthus acaciæ* studied by molecular docking and biological assays. Systematic Reviews in Pharmacy, 12(03):712-719.
4. 20. Alsalem M, Aldossary SA, Haddad M, Altarifi A, Kalbouneh H, **Jaffal SM, Azab B, Mustafa AG, El-Salem K (2020).** The desensitization of the transient receptor potential vanilloid 1 by nonpungent agonists and its resensitization by bradykinin. Neuroreport 31(11):781-786.
5. 2. **Jaffal SM, Oran SA, Alsalem M. (2020).** Anti-nociceptive effect of *Arbutus andrachne* L. methanolic leaf extract mediated by CB1, TRPV1 and PPARs in mouse pain models. Inflammopharmacology 37:189-195.
6. 22. **Jaffal SM, Al-Najjar BD, Abbas MA, Oran SA (2020).** Antinociceptive Action of *Moringa peregrina* is Mediated by Interaction with $\alpha 2$ -Adrenergic Receptor. Balkan Medical Journal 37: 189-195.

INSTITUTIONAL PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS

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RESEARCH LINK (Scopus and Google Scholar)

<https://scholar.google.com/citations?user=CsUGkOQAAAAJ&hl=ar>

LANGUAGES

- Arabic
- English