دائرة الموارد البشرية Human Resources Department

Date 22/10/2024



SAHAR MAJDI HENDI JAFFAL

PERSONAL INFORMATION

Title: Dr.

Academic Rank: Assistant professor

Date & Place of Birth: 17 April 1977, Kuwait

Nationality: Jordanian

Address: Zarqa, Batrawi

Phone No.: 00962787924254

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ACADEMIC QUALIFICATIONS

Degree	Major	Duration (From-To)	University	Country
PhD	Biology (Physiology)	2017-2020	University of Jordan	Jordan





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Master	Biology (Physiology)	2001-2003	University of Jordan	Jordan		
Bachelor	Nutrition	1995-2000	University of Jordan	Jordan		
TEACHING EXPERIENCE						
Duration	Rank	Institution	Department/Faculty	Country		
1 year	Assistan t professo r	Philadelphia University	Biotechnology and Genetic Engineering	Jordan		
2017-2019	Part time lecturer	Al-Ahliyya Amman University	Medical analysis	Jordan		

OTHER EXPERIENCE





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- 1. Reviewer for European Journal of Pharmacology (August 2024).
- 2. Reviewer for Heliyon, Elsevier (April 2024).
- 3. Reviewer for Dove Medical Press (March 2024).
- 4. Reviewer for Informatics in Medicine Unlocked, IMU (September 2023).
- 5. Reviewer for the Journal of Biomedicine and Pharmacotherapy (August 2023).
- 6. Reviewer for Asian Journal of Complementary and Alternative Medicine (March 2023).
- 7. Reviewer for Behavioural Neurology, Hindawi (January 2023).
- 8. Reviewer for Phytotherapy Research-Wiley Online Library (October 2022).
- 9. Reviewer for Qeios (June 2022 and July 2023).
- 10. Reviewer in the 9th International Conference on Agricultural and Biological Sciences (2023).
- 11. Reviewer in the 10th International Conference on Biomedical Engineering and Biotechnology (IC
- 12. Reviewer for Phytomedicine (June 2022).
- 13. Reviewer for Phytomedicine PLUS (2 reviews in 2022).
- 14. Reviewer for Journal of Musculoskeletal disorders and treatment (January 2022).
- 15. Reviewer for Current Therapeutic Research (5 reviews in 2021 and 2 reviews in 2022).
 16. Peer reviewer in the 10th International Conference on Biomedical Engineering and Biotechnology
- 17. Reviewer for the Journal of Cosmetic Dermatology, (September 2021).
- 18. Reviewer for the Saudi Journal of Biological Sciences, (September 2021 and November 2021, 2 c
- 19. Reviewer for Pain Research and Management Journal, (February 2020).
- 20. Reviewer for Human and Experimental Toxicology Journal, (January 2020).





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PUBLICATIONS

JOURNALS

Author/s Title Journal Vol./No. Publication

- 1. Jaffal SM, Khalil, R. Targeting nerve growth factor for pain relief: Pros and cons. Accepted in Korean J.
- 2. Samer Alqaraleh, Wael Alzereni, Nesrin Mwafi, Sahar **Jaffal**, Aiman Al-Qtaitat The green synthesis comprehensive review on methodology, characterization. Research Journal of Pharmacy and Technology
- 3. Sahar **Jaffal**, Effects of PGf2α On P-Erk1/2 MAPK Activation, Proliferation and Formation of Trans-E 3t3 Fibroblast Cells, J. Pharmaceutics and Pharmacology Research, 6(2). 2023.
- 4. Jaffal SM. Role of TRPV1 in health and disease. Journal of Exploratory Research in Pharmacology (JEI
- 5. Haddad, M., Alsalem, M., Saleh, T., **Jaffal**, S. M., Barakat, N. A., & El-Salem, K. Interaction of the synth with tramadol on nociceptive thresholds and core body temperature in a chemotherapy-induced model. Neuroreport, 34(8), 441–448. 2023.
- 6. **Jaffal** SM. Medicinal Plants of Jordan Possessing Anti-Nociceptive, Anti Inflammatory and Antipyrotraditional and complementary medicine, 2(1): 1-14. 2023.
- 7. **Jaffal** SM, Oran SA, Alsalem M, Al-Najjar B. Effect of Arbutus andrachne L. Methanolic Leaf Experimental and Molecular Docking Studies. Journal of Applied Pharmaceutical Science, 12(10): 69-7
- 8. Abazid H, Abutayeh R, Abu Farha R, **Jaffal** SM, Alkaddah D, Al Jomaa EE. Substance Abuse among Un Prevalence, Risk and Preventive Measures. Jordan Journal of Pharmaceutical Science, 16(2): 235-244. 2
- 9. Haddad, M., Alsalem, M., Aldossary, S. A., Kalbouneh, H., **Jaffal**, S. M., Alshawabkeh, Q., Al Barakat, N. A., & El-Salem, K. The role of adenosine receptor ligands on inflammatory pain: Possible mofunction. Inflammopharmacology, 31: 337-347. 2023.
- 10. Abazid H, **Jaffal** SM, Abu-Samak M. Imbalances of key parameters needed for energy-yielding process treated male rats. Journal of applied pharmaceutical Science, 12(4): 153-158. 2022.
- 11. **Jaffal** SM, Oran SA, Alsalem M. Alleviation of capsaicin-induced mechanical allodynia by Arbutus at extract in male rats. Mutah Lil Buhuth wad-Dirasat, Natural and Applied Sciences Series, 37(2): 31-49





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- 12. Oran SA, Yousef If, **Jaffal** SM. Evaluation of the antiproliferative effect of selected plant extracts on cold Journal of Applied Pharmaceutical Science, 12 (11):91-96. 2022.
- 13. **Jaffal** SM, Tamini S. Effect of explant type and different plant growth regulators on callus induction and osbeck. South Western Journal of Horticulture, Biology and Environment, 13(1), 1-12. 2022.
- 14. **Jaffal** SM, Oran SA, Alsalem M. Anti-inflammatory and antipyretic potential of Arbutus andrachne L. m Asian Pacific Journal of Tropical Biomedicine, 11(11): 491-499. 2021.
- 15. **Jaffal** SM, Abbas MA. TRP channels in COVID-19 disease: Potential targets for prevention and treatment Interactions. 245 (109567): 1-11. 2021.
- 16. **Jaffal** SM, Al-Najjar BO, Abbas MA. Ononis spinosa Alleviated Capsaicin-Induced Mechanical Allody TRPV1 Modulation. Korean Journal of pain. 34 (3):1-9. 2021.
- 17. Abbas MA, Al-Najjar BO, **Jaffal** SM. Analgesic property of Loranthus acaciae studied by molecular do Systematic Reviews in Pharmacy, 12(03):712-719. 2021.
- 18. Alsalem M, Aldossary SA, Haddad M, Altarifi A, Kalbouneh H, **Jaffal** SM, Azab B, Mustafa AG, El-Sal the transient receptor potential vanilloid 1 by nonpungent agonists and its resensitization by bradykini 786. 2020.
- 19. **Jaffal** SM, Oran SA, Alsalem M^{*} Anti-nociceptive effect of Arbutus andrachne L. methanolic leaf extrac and PPARs in mouse pain models. Inflammopharmacology 37:189-195. 2020.
- Jaffal SM, Al-Najjar BO, Abbas MA, Oran SA. Antinociceptive Action of Moringa peregrina is Media Adrenergic Receptor. Balkan Medical Journal 37: 189-195. 2020.
- 21. **Jaffal** SM, Abbas MA. Antinociceptive action of Achillea biebersteinii methanolic flower extract is n cholinergic receptor in mouse pain models. Inflammopharmacology 7(5): 961-968. 2019.
- 22. **Jaffal** SM, Abbas MA (2019). Antinociceptive action of *Ononis spinosa* leaf extract in mouse p Pharmaceutica Drug Research 76(2): 299-304.
- 23. **Jaffal** S, Abbas M, Alsalem M, Al-Najjar B. Evidence for the involvement of opioid receptor in *Ajuga che* and thermal models of pain in BALB/c mice. Medicinal Chemistry Research 28: 992-999. 2019.





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- 24. Abbas MA, Kandil YI, M. Disi AM, **Jaffal** SM. Gastroprotective activity of Loranthus acaciae flower ethanol-induced ulcer. Applied Physiology Nutrition and Metabolism 22: 1-6. 2019.
- 25. Abbas M, **Jaffal** SM, Al-Najjar B. Analgesic and Anxiolytic Activities of Achillea biebersteinii: Evide GABAergic Systems. Oriental Journal of Chemistry 35(4): 1433-1442. 2019.
- 26. Alsalem M, Haddad M, Aldossary SA, Kalbouneh H, Altarifi A, **Jaffal** SM, Abbas MA, Aldaoud N, El-Sa Receptor 1 and the Peroxisome Proliferator-Activated Receptor α in Mediating Anti-nociceptive Effects and a Cannabinoid-like Compound. Inflammopharmacology 2019: 1-2. 2019.
- 27. El-Hashim AZ, **Jaffal** SM. Cough reflex hypersensitivity: A role for neurotrophins. Experimental Lu 2017.
- 28. El-Hashim AZ, **Jaffal** SM, Al-Rashidi F, Luqmani YA, Akhtar S. Nerve growth factor enhances cough action. Pharmacological Research 74: 68-77. 2013.
- 29. Goupil E, Wisehart V, Khoury E, Zimmerman B, **Jaffal** S, Hébert TE, Laporte SA. Biasing the prostagla toward EGFR-dependent transactivation of MAPK. Molecular Endocrinology 26(7): 1189-1202. 2012.
- 30. El-Hashim AZ, Edafiogho IO, **Jaffal** SM, Yousif MH, Ezeamuzie CI, Kombian SB. Anti-tussive and of action for the enaminone E121. Life Science 89 (11-12): 378-387. 2011.
- 31. El-Hashim AZ, Renno WM, Abduo HT, **Jaffal** SM, Akhtar S, Benter IF. Effect of inhibition of the u and IkB kinase on airway inflammation and hyperresponsiveness in a murine model of asthma Immunopathology and Pharmacology 24 (1): 33-42. 2011.
- 32. El-Hashim AZ, **Jaffal** SM. Nerve growth factor enhances cough and airway obstruction via TrkA and mechanisms, Thorax 64 (9): 791-797. 2009.
- 33. **Jaffal** SM, Salhab A, Disi AM, Al-Qaadan F. Effects of Meloxicam on Implantation and Parturition of 40 (2): 88-95. 2006.
- 34. Al-Khalaf M, **Jaffal** S. Potent antiproliferative effects of Resveratrol on human osteosarcoma SJS mechanisms involving ERKs/p53 cascade. Free Radicle Biology of Medicine 41: 318-325. 2006.





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35. El-Mowafy AM, Al-Khalaf M, **Jaffal SM**. Nongenomic activation of the GC-A enzyme by resveratro from membrane estrogen receptors in human coronary arterial cells. Nutrition, Metabolism and car 508-516. 2007.

CONFERENCES

- 1. Participated as a patent presenter in the fifth virtual conference to support the innovation, artificial entrepreneurship ecosystem 2024, Kuwait.
- 2. Participated in the International invention fair in the Middle East, Kuwait, February 2024 and pr invention entitled: the mini-incubator carrier box.
- 3. Submitted an abstract to 48th Annual meeting of the Society for Neuroscience (SFN), Novem California, USA.
- 4. Submitted an abstract to 47th Annual meeting of the Society for Neuroscience (SFN), November 11
- 5. Participated in the 46th Annual meeting of the Society for Neuroscience (SFN), November 12-16th, 6. Participated in the 45th Annual meeting of the Society for Neuroscience (SFN), October 17th-21st, 2
- 7. Participated in the 44th Annual meeting of the Society for Neuroscience (SFN), November 15-19th, 2
- 8. Participated in the 43rd Annual meeting of the Society for Neuroscience (SFN), November 9-13th, 2
- 9. Attended the Annual QNJPI meeting (Quebec Network of Junior Pain Investigators), Septemb Residence, Du Parc, Montreal, Quebec, Canada.
- 10. Participated in the Graduate Symposium in Neuroscience, Montreal Neurological Institute, A Quebec, Canada.
- 11. Participated at McGill Réseau Universitaire Intégré de Santé (RUIS) pain day, April 19th, 201 Quebec, Canada.
- 12. Attending the 17th Annual McGill Pain Day, January 24th, 2013, Sherbrook, Montreal, Quebec.
- 13. Attended the GPCR retreat, October 17- 19th, 2012, London, Ontario, Canada.
- 14. Attended the 3 rd Annual McGill Inter-disciplinary Biotechnology Symposium, McGill New R 2012, Montreal, Quebec, Canada
- 15. Participated in a poster in the 18th Annual Pharmacology Research Day, September 28th, 201 Montreal, Quebec, Canada.
- 16. Presented a poster in Research Symposium of Anatomy and Cell Biology, June 18-19th, 2012,
- 17. Attended the Annual McGill University Endocrine Retreat, May 29th, 2012, Montreal, Quebec.
- 18. Participated in a poster in American Thoracic Society 2009 San Diego international conference, Ma California.
- 19. Participated in a poster in the 2nd Kuwait International Pharmaceutical Conference (KIPC), Ma Medicine, Kuwait University.





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20. Participated in a poster in the Health Sciences Poster Day, April 24th, 2006, Faculty of Medicine

Воокѕ

- 1. **Jaffal**, Sahar. Chapter 17: TRP channels in COVID-19 and its complications in TRP channels as therapeutic targets: From basic science to clinical use by Arpad Szallasi, second edition, Elsevier, 2024.
- 2. **Jaffal**, Sahar. Laboratory Manual for Physiology. 2023, ISBN: 978-9923-0-0775-4.
- 3. **Jaffal**, Sahar. Pain in COVID-19. Eliva press, August 2021, ISBN: 978-16364-315-3.
- 4. **Jaffal S, Abazid H.** Medicinal Plants and Addiction Treatment: An Overview. **In the** Handbook of Substance Misuse and Addictions: From Biology to Public Health, editors **Vinood B. Patel and Victor R. Preedy**, Springer International Publishing, 2022.





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MEMBERSHIPS OF SCIENTIFIC AND PROFESSIONAL SOCIETIES

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

UNIVERSITY COMMITTEES

Local community committee

Scientific committee (member)

Quality Control Committee (Chief)

Library committee (Chief)

Community service committee (Chief).

WORKSHOPS ATTENDED

- 1. Certificate in Quality Control, Adobe Photoshop and Premier, ABE Academy, Irbid, Jordan, 2023.
- 2. Certificate in International Computer Driving License (ICDL), ABE Academy, Irbid, Jordan, 2022.
- 3. Certificate in Teaching Methods, ABE Academy, Irbid, Jordan, 2022.
- 4. Diploma in Anatomy and Physiology, Inspire International Academy, United States in collaboration with Professional Arab Trainer (PAT) Company, Jordan, 2022.





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- 5. Training of Trainer (ToT) Advanced Diploma from Inspire International Academy, United States in collaboration with Professional Arab Trainer (PAT) Company, Jordan, 2022.
- 6. National Test of English as a Foreign Language (TOEFL) exam in Jordan.
- 7. General GRE (Graduate Record Examination) certificate, total score 1194 (quantitative 780, verbal 470, analytical writing 4).
- 8. TOEFL iBT certificate 95 (Reading 24, Listening 26, Speaking 20, Writing 25).
- 9. Certificate for International English Language Testing System (IELTS) exam, total score 6.5 (Reading 6.0, Listening 7.5, Speaking 6.5, Writing 6.0).
- 10. Certificates of hazardous waste management disposal training for laboratory personnel, workplace hazardous materials information system (W.H.M.I.S), introduction to biosafety, use of biological safety cabinet, principles of laboratory radiation safety, laser safety, theoretical training course on animal use for research and teaching, and handling laboratory animals (3 practical modules) from McGill University, Montreal, Canada.
- 11. Computer training certificates (level 2 and 3) from the Immigrant Women Services Ottawa, Canada.
- 12. Computer and Internet training certificate from the Ministry of Youth and Sport, Zarqa, Jordan.
- 13. Canadian Language Benchmarks Placement Test.
- 14. Certificate form Al-Hemma Ambassador Association, affiliated to the International Accreditation Organization (IAO).
- 15. Certificate from Professional Arab Trainer for Training and Qualifying, *Neuro-linguistic programming (NLP)* workshop.

WORKSHOPS OFFERED





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RESEARCH INTERESTS

Search for novel analgesics, anti-inflammatory and antipyretic compounds that have no side effects.

LANGUAGES

Arabic: Listening, speaking, writing (Excellent). **English:** Listening, speaking, writing (Excellent).

OTHER COMMUNITY ACTIVITIES

Local community committee (distributing shoes and jackets) to poor people in villages in Jordan.

AWARDS RECEIVED

- 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).



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

GRADUATE STUDENTS SUPERVISION

Student Name

Thesis Title

REFERENCES

1. Prof. Ahmad Disi

Retired professor, Faculty of Science, University of Jordan, Amman, Jordan Tel: +962-777424331, E-mail: ahmadmdisi@yahoo.com

2. Dr. Samer Algaraleh

Assistant Dean for Quality and E-Learning Affairs, Faculty Allied Medical Sciences, Mutah University

Tel: +962-79551861, E-mail: garalleh75@mutah.edu.jo

3. Mohammad Al-Zibdeh

Professor, Faculty of Marine Science, University of Jordan, Aqaba, Jordan Tel: +962-797179088, E-mail: <u>zibdeh@ju.edu.jo</u>

4. Prof. Hamza Al-Qaderi

Professor, Faculty of Agriculture, University of Jordan, Amman, Jordan Tel: +962-795658787, E-mail: h.qadiri@ju.edu.jo





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