

## **CV**

**Abdalsalam O. Kmail**

**Qabatia Jenin**

**West bank**

**Palestine**

**Associate professor**

**Mobile: +972(0)599672870**

### ***Personal details:***

Name:	Abdalsalam O. Kmail
Nationality:	Palestinian
Date of birth:	14/11/1973
Place of birth	Qabatia
Marital status	Married
Gender:	male

### ***Permanent address:***

Qabatia

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Mobile: +972(0)599672870

***Educational Background:***

- (1992) High School Certificate (Tawjihi), Scientific Stream, Qabatia secondary school.
- (1993 -1997) BSc., in Biotechnology, An-Najah National University, Nablus.
- (2007-2009) MSc., in Engineering Biotechnology, Sabanci University, Turkey.
- (2013-2016) PhD, in Epidemiology, and Environmental health, Sidi mohamed ben abdellah university, Morocco.

***Employment History:***

1. Teacher in secondary school (1998-2002)
2. Laboratory technician at Arab American University –Jenin (2002 until 2010)
3. Instructor at Arab American University –Jenin (2010-2013)
4. Lecturer at Arab American University –Jenin (2014-2016)
5. Head of Biology and Biotechnology Dept. (2013-2014)
6. Assistant Professor at Arab American University –Jenin (2016 until now)

***Main Responsibility:***

- Teaching biology courses for allied medical, dentist and science students.
- Teaching courses labs. for general biology, cell biology, microbiology, animal biology, ecology, and animal cell culture.
- Advising faculty on experimental work and participating in faculty meetings for laboratory courses.
- Maintaining facilities and equipments and procuring supplies.
- Supporting the on-going development of the laboratory.

***Practical Experience:***

- Molecular techniques: Cloning, Agarose & SDS Gel Electrophoresis, PCR, RT-PCR, DNA & RNA extractions.
- Microbiological techniques: Media preparation, maintaining stock culture, performing biochemical tests.
- Cell Culture techniques: Mammalian (Transient & stable) cell transfection, DAPI counterstaining, Maintaining of various types of cell lines, Cryopreservation, Cell viability tests such as MTT and LDH, preparing media, inverted microscope, cell-counting.

- Chromatographic techniques: affinity chromatography, molecular sieve chrom, ion exchange chrom. ,Thin layer chromatography.
- Handling with autoclave, lightmicroscope, incubator, oven, UV/Vis spectrophotometer, benchtop&large capacity refrigerated centrifuges, rotary evaporation.
- Flow cytometric analysis.
- Detection of both Anti-inflammation and pro-inflammation.
- Anti-oxidant evaluation using, DPPH, ABTS, and reducing power as well as detection of total phenoles, flavones and flavonoles, and total antioxidant capacity.

### ***Research activities:***

**a.** Evaluation of medicinal plant effects on cultured liver and skin cells".

My duties in this research project include the following:

1. Preparation of cell culture media.
2. Cell seeding in multiwell cell culture plates.
3. treatment of th cells with various concentrartions of plant extracts.
4. Determination of the effects plant extracts on the cell viability using the MTT test and the LDH assay
5. Determination of the antioxidant effects.
6. Determination of the anti-inflammatory effects by mesearing the secretion levels of various cytokines
7. Cryopreservation of the cells.

**b.** Research in the field of plant biotechnology. The main research activities concentrate on the "in vitro cultivation of medicinal plants of Palestine. To establish callus and suspension cultures of various explants. Then to examine effect of bioactive compunds from plant cultures. The successful plant cultures with high potential activity will be used to increase the biomass for higher production. My duties in this research project include the following:

1. Preparation of plant cell culture media
2. Application of aseptic technique,i.e. sterilization.
3. Maintenance of established cultures.
4. Extraction of crude mixture of compounds by organic and water solvents.
5. Determination the effects of plant extracts against microbial growth.
6. Chemical analysis of active compounds by chromatography.

**Awards:**

1. Internal funding for scientific research, AAUJ, 2018.
2. Internal funding for scientific research, AAUJ, 2014.
3. Scholarship for a PhD Program in Morocco 2013 – 2016.
4. Scholarship for an M.Sc. Program in Turkey 2007 - 2009.
5. Hijawi Awards of the Arab American University 2007 for best undergraduate research projects
6. Hijawi Awards of the Arab American University 2009 for best undergraduate research projects

***Journals and committee's contribution***

1. Scientific committee member of "Pharmacology 2025", a premier international conference set to convene in the vibrant city of Dubai, UAE, on February 5-6, 2025.
2. Reviewer of the Drug Design, Development and Therapy (Journal Impact Factor: 4.7)
3. Reviewer of the Acta Agrobotanica. eISSN: 2300-357X, ISSN: 0065-0951.
4. Scientific committee member of The 5<sup>th</sup> International Conference on Bioscience and Biotechnology 2020 (BIOTECH 2020). Kuala Lumpur, Malaysia.
5. Reviewer of the Journal Obesity Reviews, Impact factor: 10.867. [ISSN](#): 1467-7881 (print); 1467-789X (web)
6. Reviewer of the Journal of Inflammation Research. ISSN: 1178-7031.
7. Reviewer of the Evidence-Based Complementary and Alternative Medicine Journal. ISSN: 1741-427X (print); 1741-4288 (web).
8. Reviewer of the Saudi Pharmaceutical Journal. ISSN: 1319-0164.
9. Reviewer of the European Journal of Integrative Medicine. ISSN: 1876-3820.
10. Reviewer of the Heliyon Journal (Cell Press). [ISSN](#): 2405-8440
11. Reviewer of the Frontiers in Bioscience-elite. Issn: 1945-0508
12. Reviewer of the Jordan Journal of Applied Science - Natural Science Series: Print ISSN: 1605-2587, Online ISSN: 2958-0420.

- 13.** Scientific Arbitration Committee Member of the Palestine Science & Technology Fair (PSTF) – 2018, 2019, 2021-2024.

***Abstracts in peer reviewed conference proceedings:***

- 1.** Touzani S., Embaslat W., [Kmail A.](#), Kadan S., Elarabi I., Lyoussi B., Saad B. (2023) Potential use of propolis as a multitarget therapeutic product: In Vitro Evaluation of its immunomodulatory, antibacterial, and anticancer properties. 48th Apimondia Congres. Santiago, Chile, September 4th– 8th.
- 2.** [Kmail A.](#), Saad B., Lyoussi B., Zaid H. (2018) *Abelmoschus esculentus* L. and *Asparagus aphyllus* L. regulate blood glucose levels by improving GLUT4 membrane translocation: An *In vivo* and *in vitro* study. International Congress on Natural Products: From Plants to Medicaments and Bio-agriculture, Hammamet, Tunisia. November 8<sup>th</sup> -10<sup>th</sup>.
- 3.** Touzani S., Kadan S., [Kmail A.](#), Saad S., LyoussiB. (2018) in vitro assessments of Cytotoxic and Cytostatic effects of Propolis in Cells from the Human Colon Carcinoma Cell line (HCT 116). Propolis in human and bee health conference / Sofia, September 28 – 29, 201864.
- 4.** Touzani S., Imtara H., Kadan S., [Kmail A.](#), Saad B., Lyoussi B. (2018) Physicochemical properties, Antioxidant and cytostatic Effects of various propolis samples collected from Morocco and Palestine.
- 5.** [Kmail A.](#), Lyoussi B., Zaid H., Imtara H., Saad B. (2016) Assessment of antioxidant and anti-inflammatory properties of Palestinian medicinal plants using monocultures and co-cultures of monocytes and hepatocytes. Third Symposium on analytical chemistry for sustainable development, Marrakech-Morocco. May 11<sup>th</sup>-12<sup>th</sup>.
- 6.** [Kmail A.](#), Lyoussi B., Zaid H., Imtara H., Saad B. (2016) Evaluation of anti-inflammatory and antioxidant effects of *Asparagus aphyllus* L., *Crataegus azarolus* L., and *Ephedra alata* Decne. in monocultures and co-cultures. Third Symposium on analytical chemistry for sustainable development, Marrakech-Morocco. May 11th-12th.
- 7.** [Kmail A.](#), Lyoussi B., Zaid H., Saad B. (2015) Cytotoxic and cytostatic activity of *Asparagus aphyllus*, *Crataegus aronia* and *Ephedra alata* in hepatocytes and THP-1-derived macrophages in mono- and co-cultures in vitro. The 15th International Congress of the International Society for Ethnopharmacology, Petra -Jordan. May 5th-8th.
- 8.** Kadan S., [Kmail A.](#), Saad B., Zaid H. (6/2014) *In vitro* antidiabetic Activity of three medicinal plants. BERC 3<sup>rd</sup> Conference on "Bio-Exploration of Valuable Natural Products Derived from Palestinian Flora:From Biodiversity to Bioindustry", Nablus, Palestine.
- 9.** Saad B., Kadan S., [Kmail A.](#), Zaid H. (3/2014). *Atriplexm*, *Trigonella foenum-graecum* and *Urtica dioica* enhance glucose disposal by skeletal muscle. The 5<sup>th</sup> International Congress in Medicinal and Aromatic Plants, Zarzis, Tunisia.
- 10.** Kadan S., Saad B., [Kmail A.](#), Khasib S. and Zaid H. (2012) In-vitro evaluation of safety and efficacy of Greco-Arab and Islamic-based anti-diabetic medicinal

plants. The 3rd International Symposium on Medicinal Plants, their Cultivation and Aspects of Uses, Petra, Jordan.

11. **Kmail A.**, Saad B. (2007) The anti-inflammatory effects of *Hypericum triquetrifolium* and *Peganum harmala*-derived factors are mediated by inflammatory cytokines. The 14<sup>th</sup> International Student Congress of Medical Sciences. Groningen, the Netherlands. June 6<sup>th</sup> –9<sup>th</sup>.

### ***Publications:***

1. Sawalha H, Abu-Alrub M, Abu-Alrub B, **Kmail A.** Epidemiology and Diagnostic Insights into Orf Virus Infection in Palestinian Sheep and Goats: A Histopathological and Serological Study. *J. Anim. Health Prod.* **2024**;12(4):601-609. DOI: <http://dx.doi.org/10.14737/journal.jahp/2024/12.4.601.609>.
2. Abu-Farich B, Masalha M, Egbaria E, **Kmail A.**, El Ghouizi A, Weld Ali D, Lyoussi B, Saad B. Physicochemical Properties, Chemical Composition, Antioxidant Properties, and Antibacterial Effects of Four Palestinian Honey Varieties. *J Pure Appl Microbiol.* **2024**;18(4):2315-2327. DOI: 10.22207/JPAM.18.4.03
3. Sawalha H, Khasib S, Mansour B, Awwad Y, Abu Arra Z, **Kmail A.** Phytochemical characterization and antibacterial evaluation of crude saps from medicinal plants in Palestinian cuisine. *Canrea Journal: Food Technology, Nutritions, and Culinary*, **2024**;7(1):15–32.
4. Abu-Farich B, Hamarshi H, Masalha M, **Kmail A.**, Aboulghazi A, El Ouassete M, Imtara H, Lyoussi B, Saad B. Polyphenol contents, antibacterial and antioxidant effects of four Palestinian honey samples, and their anticancer effects on Human breast cancer cells. *J Pure Appl Microbiol.* **2024**;18(2): 1-14.
5. **Kmail A.** Mitigating digestive disorders: Action mechanisms of Mediterranean herbal active compounds. *Open Life Sciences.* **2024**;19(1): 20220857.
6. **Kmail A.** The Benefits of *Nigella Sativa* for Skin Diseases and Heal Skin Injuries: An Overview of Phytochemicals and Pharmacological Properties. *Biomed J Sci & Tech Res. (BJSTR)* **2023**;54(1):45485-45497. DOI: 10.26717/BJSTR.2023.54.008505.
7. **Kmail, A.;** Said, O.; Saad, B. How Thymoquinone from *Nigella sativa* Accelerates Wound Healing through Multiple Mechanisms and Targets. *Curr. Issues Mol. Biol.* **2023**;45:9039-9059. <https://doi.org/10.3390/cimb45110567>.
8. Mansour B, Shaheen N, **Kmail A.**, Haggag N, Saad S, Sadiq O, Zaid R, Saad B. Anti-Inflammatory and Anti-Adipogenesis Effects of *Alchemilla vulgaris* L., *Salvia officinalis* L., and *Vitis vinifera* L. in THP-1-Derived Macrophages and 3T3-L1 Cell Line. *Immuno.* **2023**;3(2):148-159. <https://doi.org/10.3390/immuno3020010>
9. **Kmail A.** Protective Role of *Hypericum perforatum* L. and *Hypericum triquetrifolium* Turra against Inflammatory Diseases: Evidence from *In vitro* and *In vivo*

- Studies. *European Journal of Medicinal Plants*. **2022**;33(12):34-47. <https://doi.org/10.9734/ejmp/2022/v33i121112>
10. Mansour B, Shaheen N, [Kmail A](#), Haggag N, Saad B. *Rosmarinus Officinalis* L, *Eriobotrya Japonica* and *Olea Europaea* L Attenuate Adipogenesis in 3T3-L1-Derived Adipocytes and Inflammatory Response in LPS-Induced THP-1-Derived Macrophages. *Biointerface Research in Applied Chemistry*. **2022**;13(4):343.
  11. [Kmail, A.](#), Mansour, B., Hanaish, R., Omar, G., Jaradat, N., Said, O., & Saad, B. Modulatory Effects of Leaf and Fruit Extracts of *Ficus sycomorus* on Cytostatic and Inflammatory Mediators in Monocultures and Co-cultures of Human Keratinocyte (HaCat) and Human Monocyte (THP-1) Cell Lines. *European Journal of Medicinal Plants*. **2022**;33(9):1-14. <https://doi.org/10.9734/ejmp/2022/v33i930486>.
  12. [Kmail A](#), Jaradat N, Mansour B, Abu-Labdeh R, Zakarneh S, Abu-Farha S, Hussein F, Issa L, Saad B. Phytochemical analysis, cytostatic, cytotoxic, and anti-inflammatory effects of *Arum palaestinum*, *Ocimum basilicum*, and *Trigonella foenum-graecum* in human monocytic cell line (THP-1)-derived macrophages. *European Journal of Integrative Medicine*. **2022**;54:102159. <https://doi.org/10.1016/j.eujim.2022.102159>.
  13. Saad B, [Kmail A](#), Haq S. Antidiabetes Middle Eastern Medicinal Plants and Their Action Mechanisms. *eCAM*. **2022**;2022, Article ID 2276094:21 pages. <https://doi.org/10.1155/2022/2276094>.
  14. Said O, Khamaysi I, [Kmail A](#), Sadiq O, Saied B, Fulder S, AboFarekh B, Masalha M, Amin R, Saad B. Anti-inflammatory, antimicrobial, and vasoconstriction activities of an anti-hemorrhoids mixture of *Alchemilla vulgaris*, *Conyza bonariensis*, and *Nigella sativa*: In vitro and clinical evaluations. *Immuno*. **2022**;2, 132–150. <https://doi.org/10.3390/immuno2010010>.
  15. Saad B, Ghareeb B, [Kmail A](#). Metabolic and Epigenetics Action Mechanisms of Antiobesity Medicinal Plants and Phytochemicals. *eCAM*. **2021**;ID 9995903, 19 pages, 2021. <https://doi.org/10.1155/2021/9995903>.
  16. Said O, Khamaysi I, [Kmail A](#), Fulder S.J, AboFarekh B, Amin R, Daraghme J, Saad B. In vitro and a randomized, double-blind, placebo-controlled trial to determine the efficacy and safety of nine anti-acne medicinal plants. *eCAM*. **2020**;9;2020:3231413. doi: 10.1155/2020/3231413.
  17. Touzani S, Embaslat W, Imtara H, [Kmail A](#), Kadan S, Zaid H, ELARABI I, Lyoussi B, Saad B. *In vitro* evaluation of the potential use of propolis as a multi-target therapeutic product: Physicochemical properties, chemical composition, immunomodulatory, antibacterial, and anticancer properties. *BioMed Research International*. **2019**;(4836378), December 12: 11 Pages.
  18. Imtara H, [Kmail A](#), Touzani S, Khader M, Hamarshi H, Saad B, Lyoussi B. Chemical Analysis and Cytotoxic and Cytostatic Effects of Twelve Honey Samples

Collected from Different Regions in Morocco and Palestine. *eCAM*. **2019**;2019(287):11 Pages.

19. [Kmail A.](#), Saad B, Lyoussi B, Said O, Darwish MSA, Kadan S, Sammar S, Qalalweh H, ALbzoor R, AlArda M, Zaid H. *In vitro* evaluations of cytotoxicity of *Abelmoschus esculentus* L., *Asparagus a phyllus* L. and *Crataegus azarolus* L. extracts and their effects on GL UT4 membrane translocation on L6 muscle cells and blood glucose levels in mice. *Adv Med Plant Res*. **2019**;7(1):23-30.
20. Islam S., Nisar S., [Kmail A.](#), Umar A. A review on immobilization techniques for fertilizer. *International Journal of Chemical and Biochemical Sciences (IJCBS)*. **2018**;14(2018):88-94.
21. Touzani S., Kadan S., [Kmail A.](#), Saad B., Lyoussi B. In vitro Assessments of Cytotoxic and Cytostatic Effects of Propolis in Cells from the Human Colon Carcinoma Cell Line (HCT 116). *Journal of Apitherapy and Nature*. **2018**;1(3):51.
22. [Kmail A.](#), Asif F., Rahman R., Nisar S., Jilani M. I. Banyan tree-the sacred medicinal tree with potential health and pharmacological benefits. *International Journal of Chemical and Biochemical Sciences (IJCBS)*. **2018**;13(2018):52-57.
23. [Kmail A.](#), Lyoussi B., Zaid H., Imtara H., Saad B. In vitro evaluation of anti-inflammatory and antioxidant effects of *Asparagus aphyllus* L., *Crataegus azarolus* L., and *Ephedra alata* Decne. in monocultures and co-cultures of HepG2 and THP-1-derived macrophages. *Pharmacognosy Communications*. **2017**;7(1):24-33.
24. [Kmail A.](#), Lyoussi B., Zaid H., Saad B. *In vitro* Assessments of Cytotoxic and Cytostatic Effects of *Asparagus aphyllus*, *Crataegus aronia*, and *Ephedra alata* in Monocultures and Co-Cultures of Hepg2 and THP-1-Derived Macrophages. *Pharmacognosy Communications*. **2015**;5(3):165-172.
25. Zaid H., Said O., Hadieh B., [Kmail A.](#), and Saad B. Diabetes prevention and treatment with Greco-Arab and Islamic-based natural products. *JAMI'A*. **2012**;15:19-38.
26. Abo-Galion A. [Kmail A.](#), Rezekallah H. Zaid H. and Saad B. Arab and Islamic herbal cancer treatment. (In Arabic) *JAMI'A*. **2012**;15:161-176.
27. Saad B., Abouatta BS., Basha W., Hmade A., [Kmail A.](#), Khasib S., Said O. Hypericum trique trifolium--Derived Factors Downregulate the Production Levels of LPS-Induced Nitric Oxide and Tumor Necrosis Factor- $\alpha$  in THP-1 Cells. *eCAM*. **2008**;2008.
28. Ghareeb B., Arteen M., Abu Farha A., Awwad N., Badie H., [Kmail A.](#), Barghouthi S., Saad B. In vitro evaluations of cytotoxicity of *Crozophora tinctoria* (Ghbeira) and antidote effects of *Silybum marianum* (Khurfeish) Applied aspects for grazing in Palestine. *An-Najah Univ. J. Res. (Nat. Sc.)*. **2007**;21:119-130.



29. Saad B., Dakwar S., Said O., Abu Hijleh G., Albattah F., [Kmeel A.](#), Azaizeh H. Evaluation of medicinal plants hepatotoxicity using co-cultures of hepatocytes and monocytes *eCAM*. **2006**;3:93-98.

**Computer Skills:**

MS windows, MS word, MS excel, MS power point, Bioinformatic, e-mail, internet.

**Languages:**

- |           |           |
|-----------|-----------|
| • Arabic  | Excellent |
| • English | Excellen  |