

**CV****Abdalsalam O. Kmail****Qabatia Jenin****West bank****Palestine****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  
Jenin  
West bank  
Palestine  
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 for medical students course.
- Teaching labs. for general biology, microbiology, animal biology, plant cell culture, and molecular biology.
- 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, light microscope, 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.** Research assistant in the group of Dr. Bashar Saad. The main research activities concentrate on the "in vitro 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 concentartions 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 assistant in the group of Dr. Khaled Sawalha 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 compounds 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.

### **Oral presentations:**

1. [Kmail A.](#) (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>.
2. [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>.

### **Poster presentations:**

1. 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 Petra, Jordan.
2. 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.
3. [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 11<sup>th</sup>-12<sup>th</sup>.

### **Publications:**

1. [Abdalsalam Kmail1](#), Badiia Lyoussi1, Hilal Zaid, Hamada Imtara, Bashar Saad (2017). 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* Volume 7 Issue 1: 24-33.
2. [Abdalsalam Kmail1](#), Badiia Lyoussi1, Hilal Zaid, and Bashar Saad (2015). *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* Volume 5 Issue 3: 165-172.
3. Zaid H., Said O., Hadieh B., [Kmail A.](#), and Saad B. (2012) Diabetes prevention and treatment with Greco-Arab and Islamic-based natural products. *JAMI'A*; 15; 19-38.



- Dr. Hilal Zaid, Biochemistry and Molecular Biology. Faculty of arts and Sciences at Arab American University-Jenin and Lecturer at Al-Qasemi Academic College, Baka, Israel.
- Dr. Feras Fayez AL Battah. Pharmaceutical Sciences. Arab American University –Jenin- , Department of Biotechnology and Genetic Engineering.
- Dr. Sibs Shanak. Ph.D. Bioinformatics. Arab American University – Jenin-, Department of Biotechnology and Genetic Engineering.