Curriculum Vitae for

Ansam Sawalha, Ph.D  
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**Personal Profile**

Date/ place of birth:May 24, 1969/ Palestine

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**Education**

1- Ph.D. degree in Pharmacology and Toxicology in 1998 from the University of Texas at Austin (Austin/Texas,USA) under the supervision of Dr. Serrine S. Lau.

2- Bachelor degree in Pharmacy in 1991 from Jordan University of Science and Technology (Irbid, Jordan).

3- High School degree in 1986 from Asira El-Shamalia High School (Nablus,West Bank).

**Professional Experience**

2010-2011: Dean for the college of Pharmacy. This job includes doing all responsibilities of the dean starting from organizing the courses, academic schedule, administration, to curriculum improvement, recruiting students, appointing new faculty members,…etc.

2010-2011 Coordinator for the clinical pharmacy graduate program. This job includes student admission, designing and carrying out the admission test, designing the academic schedule, supervising students’ training in hospitals, and following all administrative and scientific aspects of the program.

2005-2012 Founding Director of the Poison Control and Drug Information Center. It is the first in Palestine and I established it, got all needed equipment and supplies, recruited employees, and represented it in many national and international activities.

2007- 2009 Coordinator of basic medical departments. This requires coordinating between several basic medical departments in their courses that are offered for many faculties and arranging the times of the professors who will be teaching. Additionally, I had to supervise the needs for the departments and to recruited new staff, and look for the best ways to save on money and human resources.

2007-2009 Chairman, department of Pharmacology.Writing the outlines for the courses offered by the department, dividing the teaching load between the pharmacologists and organizing the timings of the courses with the faculties of nursing, medicine, pharmacy, and optometry.

2005-2007 Dean of the School of Nursing at An-Najah National University. A newly

established school that needed staff, laboratories, students, and all what it

takes to function, that was my job.

2008-current Associate Professor of Pharmacology and Toxicology at An-Najah National University.

1999- 2008 Member of the faculty of pharmacy council.

1999- 2008 Assistant Professor of Pharmacology and Toxicology at An-Najah National University.

1998-1999: Postdoctoral research fellow at Baylor College of Medicine, Houston,Texas, USA.

1996-1998: Teaching assistant in Pharmacology and Pharmacotherapy at the University of Texas at Austin, Austin, Texas, USA.

1994-1996: Research assistant in Pharmacology and Toxicology at the University of Texas at Austin, Austin, Texas, USA.

1991-1994: Pharmacist with the Red Crescent Society, Nablus, West Bank.

1990-1991: Student research project in Physiology Department at Jordan University of Science

and Technology, Irbid, Jordan.

**Achievements**

**Awards:**

* Winner of the **DAAD study visit** (DeutscherAkademischerAustauschDienst: The German Academic Exchange Service). Summer 2012, Mainz/Germany.
* Winner of the first prize in the **"Business Competition Plan"** that is supported by the BID Network and Spark, both are European organizations. I won the first prize for the best idea and best business plan in the country. My project was paper recycling and producing egg cartons. I am the country representative to represent Palestine in the International Business week that will be held in Rwanda.
* “**Women in Science**” Hall of Fame, nominated by the USA consulate general in Jerusalem, and selected among hundreds by the USA department of State to be the first woman from the Occupied Palestinian Territories in this hall of fame.(2011)
* The university of Texas Continuing Education Fellowship from Sept.1996 to May 1998.
* Fullbright Scholarship from Jan. 1994 to Jan. 1996.
* Jordan University of Science and Technology Honor list 1986-1991
* Five Letters of recognition from Jordan University of Science and Technology for being an outstanding Pharmacy student.

**Memberships:**

* Member in the committee entitled to establish a bioequivalence center.
* Municipality Council Member and a financial committee member at Asira El-Shamalia (since 2010)
* Consultants Board for the Itihad Hospital and School of Nursing (since 2010).
* American Academy of Clinical Toxicologists (member since 2008).
* Society of Toxicology (member since 1997).
* Jordan association for pharmacists (member since 1991 as registered licensed pharmacists).
* Palestine association for pharmacists (as registered licensed pharmacists since 1995).

**Technical experience and Training**

**[**The project I was working on during my postdoctoral training was concerning gene therapy. The goal was to decrease oxygen toxicity to the lung by increasing the amount of glutathione reductase (GR) (a protective enzyme). Increasing the level of this enzyme can theoretically be done *via* transfecting lung cells with retrovirus carrying in its genetic material the gene that codes for GR. I learned many techniques such as growing and purifying the virus, maintaining different types of cells in cell culture, isolating and measuring quantity of DNA, southern blots, other methods like GR assay.

The focus of my research in graduate school has been to examine the species differences that exist in the susceptibility to hydroquinone and its metabolites. The project was emphasized on the role of metabolic oxidation, the involvement of different isoforms of cytochrome P450 and their distribution in liver and kidney of different species, tissue arylation, and the ability of the different species to repair the organs after toxicological insult. I have gained a lot of experience in both *in vitro* and *in vivo* toxicology studies. My knowledge in chemistry was also enriched with synthesis and purification of quinone-thioethers; HPLC-UV/EC/PDA. I have great experience with HPLC both prep. And analytical. I also have done a lot of SDS-PAGE, western blots, analysis with NIH image software, immuno-histochemistry, and antibody purification and usage. I have done some work using ELISA, covalent binding studies, and cultured kidney proximal tubular epithelial cell line (LLCPK1 cells).

**Training in Risk Assessment**

My training included extensive courses in risk [assessment](http://en.wikipedia.org/wiki/Assessment) which is the determination of [quantitative](http://en.wikipedia.org/wiki/Quantitative) or [qualitative](http://en.wikipedia.org/wiki/Qualitative) values of risk related to a certain situation and a recognized hazard. I can perform quantitative risk assessment via calculations of the two components of [risk](http://en.wikipedia.org/wiki/Risk), the magnitude of the potential loss, and the probability that the loss will occur. This is done by drawing from the results of the sciences of [toxicology](http://en.wikipedia.org/wiki/Toxicology) and [epidemiology](http://en.wikipedia.org/wiki/Epidemiology), in which I am extensively trained. My training also included environmental impact assessment (EIA) in which we used to assess the possible impact -positive or negative- that a proposed project may have on the [environment](http://en.wikipedia.org/wiki/Environment); considering natural, social and economic aspects. The project that was assigned to me was to evaluate the potential risk that could result from establishing aluminum-cans’ recycling facility near a residential area. My study included a lot of aspect to evaluate short and long term effects. I had to calculate the risk that is transmitted through all possible routes (inhalation of smoke, ingestion and skin contact with by products). I had to account for the wind speed and direction, rain, children playing in the area, gardening, and many other aspects. The purpose of the assessment was to ensure that decision makers consider the ensuing environmental impacts to decide whether to proceed with the project.

**Publications**

1. [Sweileh WM](http://www.ncbi.nlm.nih.gov/pubmed?term=Sweileh%20WM%5BAuthor%5D&cauthor=true&cauthor_uid=24648824), [Odeh JB](http://www.ncbi.nlm.nih.gov/pubmed?term=Odeh%20JB%5BAuthor%5D&cauthor=true&cauthor_uid=24648824), [Shraim NY](http://www.ncbi.nlm.nih.gov/pubmed?term=Shraim%20NY%5BAuthor%5D&cauthor=true&cauthor_uid=24648824), [Zyoud SH](http://www.ncbi.nlm.nih.gov/pubmed?term=Zyoud%20SH%5BAuthor%5D&cauthor=true&cauthor_uid=24648824), [**Sawalha AF**](http://www.ncbi.nlm.nih.gov/pubmed?term=Sawalha%20AF%5BAuthor%5D&cauthor=true&cauthor_uid=24648824), [Al-Jabi SW](http://www.ncbi.nlm.nih.gov/pubmed?term=Al-Jabi%20SW%5BAuthor%5D&cauthor=true&cauthor_uid=24648824). Evaluation of Defined Daily Dose, percentage of British National Formulary maximum and chlorpromazine equivalents in antipsychotic drug utilization. [Saudi Pharm J.](http://www.ncbi.nlm.nih.gov/pubmed/24648824) 2014 Apr;22(2):127-32. doi: 0.1016/j.jsps.2013.03.003. Epub 2013 Apr 6.
2. [Aker MB](http://www.ncbi.nlm.nih.gov/pubmed?term=Aker%20MB%5BAuthor%5D&cauthor=true&cauthor_uid=24093559)1, [Taha AS](http://www.ncbi.nlm.nih.gov/pubmed?term=Taha%20AS%5BAuthor%5D&cauthor=true&cauthor_uid=24093559), [Zyoud SH](http://www.ncbi.nlm.nih.gov/pubmed?term=Zyoud%20SH%5BAuthor%5D&cauthor=true&cauthor_uid=24093559), [**Sawalha AF**](http://www.ncbi.nlm.nih.gov/pubmed?term=Sawalha%20AF%5BAuthor%5D&cauthor=true&cauthor_uid=24093559), [Al-Jabi SW](http://www.ncbi.nlm.nih.gov/pubmed?term=Al-Jabi%20SW%5BAuthor%5D&cauthor=true&cauthor_uid=24093559), [Sweileh WM](http://www.ncbi.nlm.nih.gov/pubmed?term=Sweileh%20WM%5BAuthor%5D&cauthor=true&cauthor_uid=24093559). Estimation of 10-year probability bone fracture in a selected sample of Palestinian people using fracture risk assessment tool. [BMC Musculoskelet Disord.](http://www.ncbi.nlm.nih.gov/pubmed/24093559) 2013 Oct 5;14:284. doi: 10.1186/1471-2474-14-284.

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1. [Zyoud SH](http://www.ncbi.nlm.nih.gov/pubmed?term=Zyoud%20SH%5BAuthor%5D&cauthor=true&cauthor_uid=23622106)1, [Al-Jabi SW](http://www.ncbi.nlm.nih.gov/pubmed?term=Al-Jabi%20SW%5BAuthor%5D&cauthor=true&cauthor_uid=23622106), [Sweileh WM](http://www.ncbi.nlm.nih.gov/pubmed?term=Sweileh%20WM%5BAuthor%5D&cauthor=true&cauthor_uid=23622106), [Nabulsi MM](http://www.ncbi.nlm.nih.gov/pubmed?term=Nabulsi%20MM%5BAuthor%5D&cauthor=true&cauthor_uid=23622106), [Tubaila MF](http://www.ncbi.nlm.nih.gov/pubmed?term=Tubaila%20MF%5BAuthor%5D&cauthor=true&cauthor_uid=23622106), [Awang R](http://www.ncbi.nlm.nih.gov/pubmed?term=Awang%20R%5BAuthor%5D&cauthor=true&cauthor_uid=23622106), [**Sawalha AF**](http://www.ncbi.nlm.nih.gov/pubmed?term=Sawalha%20AF%5BAuthor%5D&cauthor=true&cauthor_uid=23622106). Beliefs and practices regarding childhood fever among parents: a cross-sectional study from Palestine. [BMC Pediatr.](http://www.ncbi.nlm.nih.gov/pubmed/23622106) 2013 Apr 28;13:66. doi: 10.1186/1471-2431-13-66.
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3. [Zyoud SH, Al-Jabi SW, Sweileh WM, Nabulsi MM, Tubaila MF, Awang R, **Sawalha AF**. Beliefs and practices regarding childhood fever among parents: a cross-sectional study from Palestine.](http://www.ncbi.nlm.nih.gov/pubmed/23622106) BMC Pediatr. 2013 Apr 28;13:66. doi: 10.1186/1471-2431-13-66.
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5. Sawalha A, Sweileh W, Zyoud S, Jabi S, Sulqan A. Role of arab and muslim scientist in the development of toxicology. Annals of Alquds Medicine. 2012;8:40-56. (Article in Arabic)
6. Sweileh WM, Zyoud SH, Dalal SA, Ibwini S, **Sawalha AF**, Ali I. [Prevalence of metabolic syndrome among patients with Schizophrenia in Palestine.](http://www.ncbi.nlm.nih.gov/pubmed/23270504)BMC Psychiatry. 2012 Dec 27;12:235. doi: 10.1186/1471-244X-12-235.
7. Sweileh W, Abu Arrah E, Abu Taha A, **Sawalha A**, Salah O, Jamous R, Adawi D. Dispensing Practices, Attitudes and Knowledge towards Herbal Products in Palestine". Ibnosina Journal of Medicine and Biomedical Sciences. (2013);5(3):143-150
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10. Sweileh WM, Adas SO, **Sawalha AF**, Taha AS. [Utilization and cost of antibacterial drugs in 2 general surgery units in Palestine measured using anatomical therapeutic chemical classification and defined daily dose methodology.](http://www.ncbi.nlm.nih.gov/pubmed/22888623) East Mediterr Health J. 2012 Jun;18(6):641-7.
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15. Jamous RM, Sweileh WM, Abu-Taha AS, **Sawalha AF**, Zyoud SH, Morisky DE.Adherence and satisfaction with oral hypoglycemic medications: a pilot study in Palestine.International Journal of Clinical Pharmacy, 2011;33(6):942-8.
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20. Hawamdeh H, **Sawalha AF,** Al-Gharaibeh N. Influence of the Aqueous Extract of Seven Commonly Used Plants in Jordan on the Osmotic Fragility of Human Erythrocytes. An-Najah Research journal (2010); 24:47-54.
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24. Zyoud SH, Awang R, Sulaiman SAS, Khan HRM, **Sawalha AF**, Sweileh WM, Al-Jabi SW. Relationship between Serum Acetaminophen Concentration and N-Acetylcysteine-2 Induced Adverse Drug Reactions. Basic & Clinical Pharmacology & Toxicology. 2010;107(3):718-23.
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Pregnant Women: A Cross Sectional Study in Palestine. Islamic University Journal. 2007;15 (2) 41-57.

1. Sweileh WM, **Sawalha AF**, AL-HajAbed RM, Rabba AK. Utilization of anti-infective agents measured in “Defined Daily Dose” (DDD): A study in Palestine. Islamic University Journal. 2007;15(2):59-66.
2. **Sawalha A**: Complementary and alternative medicine in Palestine: Use and safety implications. Journal of Complementary and Alternative Medicne, 2007;13(2):263-269
3. **Sawalha AF,**Sweileh WM, Zyoud SH, Al-Jabi SW. Antidote stocking at hospitals in north Palestine. Online Journal of Health and Allied Sciences.2006; 5(4) Oct-Dec.
4. Sweileh WM, **Sawalha AF**, Salfeete S, Zyoud SH, Abu-Taha AS, Al-jabi SW, Jaradat NA, Zaid AN. Admission blood glucose levels a potential indicator for short term mortality and morbidity after myocardial infarction.International Journal of Diabetes in Developing Countries. 2006;26(3):116-121.
5. Sweileh WM, Jaradat NA, Elawee MM, Al-Shakhsheer AM, **Sawalha AF**, Al-Ramahi RJ, Zaid AN. Drug interactions and risk of bleeding among Patients with Atrial Fibrillation (AF) discharged with warfarin, An-najahUniv journal for Research (N. Sci). 2006; 20:127-134.
6. **Sawalha A**, Al-Bishtawi G, Al-Khayyat L,. Sweileh W, Al-Ramahi R, Jaradat N. Pattern of Parenteral Antimicrobial prescription among Pediatric patients in Al-Watani Government Hospital in Palestine. An-Najah University Journal for Research (N. Sci), 2006; 20:193-208.
7. Sweileh WM, **Sawalha AF**, and Jaradat NA, Extent of potential drug interactions among patients receiving anti-hypertensive medications. Saudi medical journal. 2005; 26(4): 548-552.
8. Sweileh W, Shkokani F, **Sawalha A**,  Al-Ramahi R,  Jaradat N,  Zaid A, Barakat A. Prescribing pattern of angiotensin- converting enzyme inhibitors and beta blockers after acute myocardial infarction. Saudi Medical Journal 2005; 26 (11): 1837-1839.

**Submitted Publications**

1- Sawalha AF. Arabic translation for the: Reform in the Arab World: Role of Education. Author Dr.

Farouk El-Baz. Original article published in the Journal of Education, 2009. Submitted to Journal

ofUniversity Education and Quality Assurance. 2010.

**Publications at Conferences**

1. **Sawalha AF**, Sweileh WM. Analysis of poisoning in children less than 6 years old reported to the Poison Control center in Palestine. Clinical Toxicology, 2012;50(4): 296

**2- Sawalha AF,** El-Baz F. Obstacles facing research in the arab world and possible

solutions.(2012) Proceeding ofتحسين طرق تدريس مناهج البحث العلمي لطلاب العلوم الطبية والعلوم الاجتماعية في فلسطين

**3- Sawalha AF**, Wright RO, Bellinger DC, Amarasiriwardean C, Abu Taha AS,

Sweileh WM. Blood Lead Level among 6-year old Palestinian children. Clinical

Toxicology, 2011;49(6):587.

**4-** [Sweileh WM](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Sweileh%20WM%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [**Sawalha AF**](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Sawalha%20AF%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Zyoud SH](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Zyoud%20SH%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Al-Jabi SW](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Al-Jabi%20SW%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Shamseh FF](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Shamseh%20FF%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Khalaf HS](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Khalaf%20HS%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus).

Storage, use, and cost of drug products for Palestinian housholds: a cross-

sectional survey. Published in The Lancet (with permission), 2010.

**5- Sawalha AF**, Sweileh WM. Analysis of acute pesticide cases reported to the

poison control and drug information center in Palestine. Clinical Toxicology,

2010;48(6): 658

**6-Sawalha AF**. Analysis of self-harm cases received at Al-Watani governmental

hospital in Palestine. Clinical Toxicology, 2010;48(3):288.

7- **Sawalha AF**. Geographic Information System mapping of poisoning cases in

North Palestine. Clinical Toxicology, 2010; 48(3):275.

**8-** Alkaissi A, **Sawalha A**, Sweileh W, Sadaqah W, Saleh Kh, Barkat A. Effect of

P-6 acupressure on postoperative nausea, vomiting, headache, fatigue, and pain

among female patients undergoing elective abdominal surgery. Poster

presentation at Society for Acupuncture Research 2010 International Conference Translational

Research in Acupuncture: Bridging Science, Practice & Community. March 19-21, 2010.

**9- Sawalha AF**, Sweileh W.M., Zyoud SH, Al-Jabi SW, Daragmeh AH. High doses

of atropine in the management a malathione poisoning case. Abstract No.: 8852

Abstract at: European Association of Poison Centers and Clinical Toxicology

Proceedings, May, 2009.

**10**- Zatar N, Sawalha A, Al-Faris M. The exposure of farmaers and their families to

pesticides in an agricultural community. Preceedings of the Second international

conference on The Palestinian Environment,2009:99-105

**11-**Alkaissi A, **Sawalha A**, Sweileh W, Sadaqah W, Saleh K, Barakat A. Efficacy

and Safety of Repeated Administration of Acetaminophen and/or Tramadol in

the Prevention of Postoperative Pain in Patients Undergoing Orthopedic Surgery.

Submitted to the National Surgons Conference. Al-makased Hospital, Al-quds,

Palestine 2007.

**12**- **Sawalha AF**, Everitt JI, Meussen E, Monks TJ, Lau SS. Tissue arylation and

oxidation correlates with the region of injury and repair in quinol-thioether

treated rats. The Toxicologist(1998).

**13-** Lau SS, **Sawalha AF**, Halpert JR, Koop DR, Monks TJ. Cytochrome P450

catalyzed oxidation of hydroquinone in rodents and human microsomes. The

Toxicologist. 36, 23 (1997).

**14-Sawalha AF,** Monks TJ, Lau SS. Isoform-specific cytochrome P450-mediated

oxidation of hydroquinone, The Toxicologist. 30, 320 (1996).

**Publications in Other Fields**

**Sawalha AF**. Arabic translation for the: Reform in the Arab World: Role of Education. Author Dr. Farouk El-Baz. An-Najah letter, 2012(28):43-45

**Conference, Activities, Meetings and Workshops attended**

1. Summer training at Mainz poison control center/Germany (2012). The training was for 8 weeks and was affiliated with Gutenberg University, school of Medicine. Training included receiving calls, entering data, analysis, attending meeting, ….etc.
2. The North American Congress of Clinical Toxicology (NACCT) 2011, Washington D.C, USA. Participated with a paper about Blood Lead Level among 6-year old Palestinian children.
3. The Sixth annual poison prevention week. Coordinated and supervised all activities. It included several lectures and also a large poster session about cleaning products, cosmetics, pesticides, plastic, medications, smoking, and many other aspects of products having negative health effect. An-Najah National Univ, Nablus, 2011.
4. The Seventh exhibition for the Faculty of science, participated in educating the visitors about toxicology and prevention. An-Najah National Univ, Nablus, 2011.
5. The North American Congress of Clinical Toxicology (NACCT) 2010, Denver, Colorado, USA. Participated with a poster entitled: Analysis of pesticide poisoning in Palestine.
6. Invited Speaker at the Rocky mountain poison and drug center (RMPDC), USA. Gave a talk about the Palestinian poison center, and the research its conducting. Particular emphasis on utilising GIS technology in determining poisoning areas. 2010.
7. The Second Conference on Biotechnology Research and Application in Palestine. An-Najah National University, Nablus, Sept. 26-27, 2010.
8. Participated at the EAPCCT XXX meeting at Bordeaux/France with two papers: one about the use of GIS technology in allocating poisoning cases focal points, and the other was about the analysis of self-poisoning cases in north Palestine. The meeting was held in the period of May 11-14th, 2010.
9. Workshop at the ministry of health about the management of snake bites. I gave a lecture entitled “how to manage snake bites in Palestine based on the new protocol”. Held in Nablus, May 8, 2010.
10. Organized and carried out the first toxicology conference in Palestine under the theme of “Poison Prevention” in cooperation with Nablus Municipality, the Ministry of Health and the World Health Organization. It was held in Nablus, April 12-13, 2010. Additionally, I gave a talk in the conference about “Four years report regarding the activities of the poison center.
11. Participated in the “Raising awareness regarding the environment and sources of contamination” training workshop sponsored by the US consulate in Jerusalem. I gave a lecture about environmental contaminants and their effect on food.
12. Workshop about developing business women in Palestine. Nablus, Dec 2009.
13. Training workshop at the medical relief organization at Nablus. I gave a talk about clinical management of poisoned patients. Nablus Nov 11, 2009.
14. Participated in the second international conference on environmental issues with an oral presentation: the exposure of farmers and their families to pesticides in an agricultural community. Oct 12, 2009, Nablus.
15. Visiting professor at Harvard University, Department of Environmental health, gave a talk about the Palestinian experience in establishing a poison control center. Oct 7, 2009, Boston, USA.
16. Participated in a workshop against addiction in which I gave a lecture about “addictive substances and their effects on health”. An-Najah National University, Aug.19, 2009 with the Friends of Life foundation.
17. Workshop on Criminal Poisoning at the President’s Special Forces. Organized the workshop and gave three lectures on the topic. Jericho, June 10, 2009
18. European Association of Poison Centers and Clinical Toxicologists (EAPCCT XXIX) at Stockholm/Sweden, 2009. Presentation entitled: High doses atropine in the management of a malathion poisoning case.
19. Evaluation of medications doses at the Elderly house at Nablus in cooperation with the community service center, May, 2009
20. Training of medical professions on how to treat poisoning when the causative agent is unknown (Toxidrome), and a second session on the general management of poisoning. Al-Arabi Speciality Hospital, Nablus, April 9 and 23, 2009
21. Organizing the Fouth Poison Prevention Week under the theme “poisoning in the house and how to prevent it”. April 7th-13th, 2009
22. Workshop about poisons and the chemical warfare agents with the law enforcement agencies at Ramallah, March 18, 2009. I gave three lectures
23. Workshop about the newly proposed landfill that will be built near Nablus and its environmental and health consequences. Nablus March17, 2009
24. Workshop about Aflatoxins in Food, with members of Ministry of National Trade, Ministry of Health, Consumer protection agency, and the Palestinian Standards Institute, Feb 19, 2009
25. Lecture with the Community Service Center to raise the awareness about Poisons, Nablus, Feb 11, 2009
26. Mycotoxins in Food training course, Istanbul, Turkey, Feb 2-6, 2009
27. Toxicity of food additives, Montada Palestine, Nablus, Dec 25, 2008
28. The First Toxicology and Drug Information Conference, Abu Dhabi, Nov 22-23, 2008
29. Medications during pregnancy and lactation workshop to health care providers working at the Ministry of Health, Nablus, Nov 6, 2008 (several oral presentations).
30. Medications during pregnancy and lactation lectures to health care providers working at the Ministry of Health, Ramallah, October 30, 2008 (several oral presentations).
31. The Second International Pharmacy Conference, Al-Zaytounah Private University, Amman, Jordan, October 15-17, 2008. (Oral presentation).
32. Updating the Poison Management Protocols at the Ministry of Health for the Southern Palestinian districts, (Ramallah), Aug 28th, 2008.(several oral presentations).
33. Updating the Poison Management Protocols at the Ministry of Health for the Northern Palestinian districts, (Nablus), Aug 27th, 2008.(several oral presentations).
34. Hospital Waste management workshop, Ramallah, Aug 12, 2008 with the Ministry of Health, UNDP, and Palestinian National Authority.
35. The European Association of Poison Centers and Clinical Toxicologists (EAPCCT), May 6-9/2008, Seville, Spain.
36. The 26th Arab Pharmaceutical association conference, and the 12th Jordanian pharmaceutical association conference in Amman, Jordan 2008. (oral presentation)
37. The Third Poison Prevention Week, April 2008. (coordinator of the week + oral presentation).
38. Jerash Scientific day at Jerash, Jordan 2008. (oral presentation).
39. The second international conference on genetically modified food in Amman, Jordan 2007.
40. Medical negligence in the light of Palestinian law. Nablus, March 2008.
41. The International Conference on Development of Scientific Research at Palestinian Universities. Nablus. Dec 2007.
42. The Second Poison Prevention Week, April 2007. (coordinator of the activity + oral presentation)
43. The First Palestinian Poison Prevention Week, March 2006. (coordinator of the activity + oral presentation).
44. The first health sciences meeting held in Nablus, Aug, 2005.
45. Gulf-Coast Society of Toxicology meeting in Galveston, Texas in 1998.
46. Society of Toxicology meeting in Seattle, Washington in 1998 (Poster).
47. Gulf-Coast Society of Toxicology meeting in College Station, Texas in 1997 (Presentation).
48. Gulf-Coast Society of Toxicology meeting in Austin, Texas in 1996 (Presentation).
49. Gulf-Coast Society of Toxicology meeting in San Antonio, Texas in 1995 (Poster).

**Public Education and Raising Awareness**

I have much interest in educating the public about current health and toxicological concerns, that has lead me to participate in several media programs through TV and Radio, examples of the recent topics that I have spoken about are listed below with the dates at which they were performed:

**Television Programs:**

* + Feb 2013: ZDF German TV: poisonous substances especially Polonium.
  + March 2012: Palestine TV: promoting women in science
  + Feb 2012: Palestine TV: carbon monoxide poisoning
  + July 2011: Mix Maan TV: a day in my life
  + May 2011: MBC1 TV: distinctive woman, in the news episode.
  + May 2011: Palestine TV: why is potassium bromate used in bread
  + Jan 2010, Adwa’ TV: Poisons and how to avoid poisoning
  + April 27th, 2009, Al-Jazeera TV: Swine Flu
  + April 2009, Nablus TV: Acetaminophen Poisoning.
  + Jan 2009, Tunis TV: white phosphorous
  + Jan 2009, Aljazeera Mubasher TV: acute and chronic poisoning with chemical warfare agents, and proper methods of disposal of the remaining parts.
  + Jan 2009, Al-Quds TV: poisoning with white phosphorus
  + Jan 2009, Aljazeera TV: poisoning with phosphorus and its treatment
  + Jan 2009, Palestine National TV (PSC): questions and answers about white phosphorus
  + February 2008, Palestine TV station: the poison Center; its establishment and role.
  + 2006/2007, Aafaq TV: several episodes about poison prevention, the poison center, healthy life style, rational drug use, and others.

**Newspapers and Journals:**

* + Nov 2013: Saidaty Journal: short bibliography about Ansam Sawalha
  + Dec 2013: Al-Quds Newspaper: Ansam Sawlha, a distinguished woman
  + August 2012: interview with the Brazilian Journal "Ciencia" about my achievements.
  + Feb 2012: Al Hayat newspaper: AnsamSawalha, a distinguished scientist
  + Sept, 2011: Zahrat Al-khleij: AnsamSawalha: a Palestinian in the Hall of Fame.
  + Sept 2011: Al-Raya newspaper in Qatar: an article about Ansam’s life and success
  + Sept 2011:Al-Sada Newspaper in UAE: an article about ansam’s accomplishments.
  + July 2011: Al-Hayyat newspaper: food additives in Palestine
  + May 2011: AlhayatAljadiad Newspaper: bibliography interview
  + Mar 2010: Al-Ayyam newspaper: antisnake antivenin.
  + May 2009, Baqat Ward magazine: healthy eating habbits
  + Jan 2009, Wafa news agency: guidelines for management of white phosphorus poisoning
  + February 2008, Al-Safeer newspaper: counterfeit medicine.

**Radio Programs**

* + Feb 2014: Radio Majana: role of women in the society
  + Jan 2014: Ajial Radio: dangers of Plastic
  + Dec 2013: Hebron Radio: Sarin Gas poisoning
  + Dec 2013: An-Najah Radio: Nerve gases and their toxicity
  + Dec 2013: Ajial Radio: Chemical warfare particularly nerve gases
  + Dec 2013: Ajial Radio: Famous people section about Ansam Sawalha
  + Nov 2013: An-Najah Radio: Achievements of Ansam Sawalha
  + Nov 2013: Ajial Radio: Polonium Poisoning
  + Oct 2013: Palestine Radio: Polonium and its adverse health effects
  + Oct 2013: Al-Mahaba Radio: What are the effects of Polonium poisoning
  + Sept 2013: Al-Anadhoul Turkish Radio: Polonium.
  + July 2013: An-Najah Radio: advices for people who are fasting in Ramadan
  + July 2013: An-Najah Radio: end of my own program "with Dr. Ansam", the second round.
  + May 2013: Ajial Radio: correct use of medications
  + Jan 2013: An-Najah Radio: my own program called "With Dr. Ansam", second round for a period of 3 months, on episode per week about health issues of current interest.
  + Jan 2013: An-Najah Radio: Prevention carbon monoxide
  + November 2012: Ajial Radio: toxicity of other types of Plastic
  + November 2012: Najah Radio: adverse health effects of Aspartame
  + October 2012-now: Najah Radio: my own program called "With Dr. Ansam", first round, topics covered include: comparison between modern and old medicine, why people gain weight without eating more, cancer fighting foods, top health myths revealed, healthy ways to lose weight......etc
  + October 2012: Ajial Radio: Bottled water dangers
  + Sept 2012: Radio Tareeq Al-Mahabeh: adverse effects of antibiotics when used for little infants
  + April 2012: Najah Radio: preserved meat and its effects on health
  + April 2012: Najah Radio: insect bite and its first aid
  + March 2012: Several radio stations about the visit of Astronaut Marsha Ivins and the role of women.
  + March 2012: Ajial Radio: adverse effects of plastic
  + Feb 2012: An-Najah Radio; English track: avoiding poisoning
  + Feb 2012: An-Najah Radio: mercury in fish
  + Jan 2012: Nissa' FM: winning the first prize in the business competition.
  + Jan 2012: Najah Radio: CO poisoning
  + Jan 2012: Najah Radio: proper ways to use Paracetamol
  + Jan 2012: Al-Eman Radio: Mercury poisoning.
  + July 2011: An-Najah Radio: First aid in insect bites
  + July 2011: An-Najah Radio: complementary and alternative medicine
  + July 2011: Palestine Radio: my own bibliography
  + July 2011: An-Najah Radio: Women in Science
  + June 2011: Al-Eman Radio: patient package inserts
  + June 2011: An-Najah Radio: food that helps people study
  + June 2011: Raya FM: women in science hall of fame
  + June 2011: An-Najah Radio: the poison control center
  + June 2011: Ahla FM: Antibiotic resistance
  + May 2011: An-Najah Radio: fast food restaurants and hidden ingredients
  + May 2011: Ajial Radio: personal bibliography about myself including participants who have taught me or worked with me
  + May 2011: Al-Eman Radio: bromate in bread and public health
  + May 2011: An-Najah Radio: CNS stimulants used by high school students and its health effects
  + May 2011: Ahla FM: detection of bromate in bread and its consequences
  + May 2011: Ash-Sharq Radio: brominated flour and its health effects
  + May 2011: An-Najah Radio: food additives and their health impact
  + May 2011: Ajial Radio: potasium bromate in bread
  + March 2011: As-Sharq Radio: Women in Science hall of fame
  + March 2011: Al-Iman Radio: Women in Science hall of fame
  + March 2011: Ajial Radio: Women in Science hall of fame
  + March 2011: Mishwar Radio: Women in Science hall of fame
  + March 2011: Ash-Sharq Radio: health concerns of food additives
  + March 2011: Ash-Sharq Radio: the Sixth annual poison prevention week
  + March 2011: Ash-Sharq Radio: acute and chronic effects of cleaning products
  + March 2011: Najah Radio: Rational use of medications
  + March 2011: Ash-Sharq radio: adverse effects of plastic
  + Feb 2011: Najah Radio: adverse health effects of Aluminium
  + Feb 2011: Nisaa’ FM: preventing childhood poisoning
  + Feb 2011: Ahla FM: Aspirin, uses and precautions
  + Feb 2011: Nissa’ FM: hazardous effects of cosmetic products
  + Feb 2011: Al-Sharq Radio: toxic household plants
  + Jan 2011: Nissa’ FM: correct way of medication storage and utilization
  + Jan 2011: An-Najah Radio: Aluminium contamination of our food and its health implications
  + Jan 2011: Ahla FM Radio: the new regulations regarding the acetaminophen
  + Jan 2011: Ash-Sharq Radio: Pesticide residues on food
  + Jan 2011: An-Najah Radio: Power drinks and their adverse health effects
  + Jan 2011: Nisaa’ FM: the appropriate way to use household cleaners and the risks of misuse.
  + Jan 2011: As-Sharq Radio: adverse health effects of plastic and the reasons that have led several countries to pan its use
  + Dec 2010: Ajial Radio: adverse health effects of food additives
  + Dec 2010: An-Najah Radio: possible health problems from counterfeit medicine.
  + Oct 2010: Al-Iman Radio: side effects of chemicals and cleaning products
  + Sept 2010: Nisaa’ FM: the number on plastic bottles and their indication
  + Sept 2010: An-Najah Radio: toxic ingredients in cookware
  + Sept 2010: An-Najah Radio: honouring the top students in the college of pharmacy
  + Sept 2010: An-Najah Radio: pesticide residue on food
  + Sept 2010: An-Najah Radio: use of medication during pregnancy and lactation
  + Sept 2010: Nissa’ FM: Teflon cookware and its health effects.
  + Sept 2010: Ajial Radio: pesticide residues on food.
  + Aug 2010: Nissa’ Radio: Laser technology and its health effects
  + Aug 2010: Nissa’ Radio: metal detectors and their effects
  + Aug 2010: Ameen Radio Station: Side effects of pesticides.
  + July 2010: Ajial Radio: food as a cause of cancer.
  + June 2010: Nissa’ FM: the health effects of mobile phones
  + June 2010: Nissa’ FM: the correct use of microwave ovens and possible risk.
  + May 2010: An-Najah Radio: bad health effects of plastic.
  + May 2010: Ajial Radio: household pesticides
  + April 2010: An-Najah Radio: Tramadol abuse.
  + April 2010: An-Najah Radio: Toxicology conference.
  + Mar 2010, An-Iman Radio: Role of women in leadership positions.
  + Feb 2010, An-Najah Radio: Risks of misusing the medications designed for erectile dysfunctions.
  + Feb 2010, Ajial Radio: Causes of cancer and the role of diet
  + Feb 2010, An-Najah Radio: Toxic plants in Palestine
  + Feb 2010, An-Najah Radio: toxicity due to cleaning products
  + Jan – April 2010, An-Najah Radio: series of health related topics
  + Jan 2010, Ajial Radio: Pesticides and their effects on health
  + Jan 2010, Ajial Radio: Poisons in our food
  + Dec 2009, An-Najah Radio: Foods that pregnant women should avoid.
  + Dec 2009, An-Najah Radio: Foods that experts won’t eat.
  + Nov 2009, An-Najah Radio: Endorphins and their role in the body.
  + Nov 2009, An-Najah Radio: sources and effects of Lead
  + Oct 2009, An-Najah Radio: Adverse health effects of water chlorination.
  + Aug 2009, An-Najah Radio: Causes of Peptic ulcer and methods of prophylaxis
  + Aug 2009, An-Najah Radio: How to protect yourself from diabetes
  + Aug 2009, An-Najah Radio: How to protect yourself from Hypertension
  + July 2009, An-Najah Radio: Household cleaning products and their adverse effects
  + July 2009, Ajial Radio: new ant diabetic agents
  + July 2009, Ajial Radio and Angham Radio: adverse health effects of household pesticides.
  + July 2009, Raya FM Radio: resistance to Tamiflu.
  + June 2009, An-Najah Radio: health effects of household pesticides
  + June 2009, Raya FM Radio: H1N1 flu, its treatment and vaccine.
  + June 2009, Palestine News Network (PNN): Energy drinks and their adverse effects
  + June 2009, Raya FM Radio: Counterfeit creams and their effects
  + May 2009, An-Najah Radio: cosmetics and their adverse effects
  + May 2009, An-Najah Radio: Organophosphates and its toxicity
  + May 2009, Ajial Radio: Arsenic in chicken
  + April 2009, Raya Radio, Ajial Radio, An-Najah Radio: Swine Flu.
  + April 2009, An-Najah Radio: Ten tips on how to live 100 years.
  + April 2009, Ajial Radio: Aflatoxin in food.
  + April 2009, An-Najah Radio: Launching of the Fourth National Poison Prevention Week
  + March 2009, Ajial Radio: Water contamination and its effect on health.
  + March 2009, An-Najah Radio: how to stop memory loss.
  + March 2009, An-Najah Radio: health effects of Caffeine
  + Feb 2009, Raya Radio: Genetically modified food
  + Feb 2009, Ajial Radio: New therapy for cold and flu
  + Feb 2009, An-Najah Radio: Contamination of food with aflatoxin
  + Jan 2009, Angham Radio: what might the army leftovers be, and how to dispose of it
  + Jan 2009, An-Najah Radio: warning against tampering with anonymous army leftover
  + Jan 2009, Palestine radio: warning against tampering with war leftover
  + Jan 2009, Raya Radio: poisoning with white phosphorus
  + Jan 2009, Ajial Radio: poisoning with white phosphorus
  + Jan 2009, Al-quds Radio: first aid after poisoning with white phosphorus
  + Jan 2009, Al-Iman Radio: handling white phosphorus
  + Jan 2009, Al-Sha’eb Radio: poisoning with phosphorus and treatment
  + Jan 2009, Palestine Radio: white phosphorus poisoning and treatment
  + Jan 2009, Angham Radio: signs and symptoms of white phosphorus poisoning
  + Jan 2009, An-Najah Radio: what are the acute effects of white phosphorus
  + Dec 2008, An-Najah Radio: upgrading the product label and including the Poison Center’s phone number on toxic products.
  + Dec 2008, Raya Radio: toxicity of food additives.
  + Oct 2008, An-Najah Radio: the International conference for Pharmacy at Al-Zaytounah university in Amman/Jordan.
  + Oct 2008, Palestine Broadcasting Station: antibiotic utilization without prescription.
  + Oct 2008, An-Najah Radio: the milk scandal in China and that of Israel and the impact on people health.
  + Oct 2008, An-Najah Radio: the risk resulting from re-using plastic containers for water and food.
  + Sept 2008, An-Najah Radio: the adverse health effects of pesticides and fertilizers on humans.
  + Sept 2008, Palestinian Broadcasting Station: the membership at the American Academy of Clinical Toxicologists.
  + Sept 2008, An-Najah radio: the membership at the American Academy of Clinical Toxicologists.
  + Aug 2008, An-Najah Radio: Dangers resulting from re-packaging expired food and selling it to consumers.
  + Aug 2008, Ajial Radio: cooperation with the Ministry of Health in Poison Protocols.
  + Aug 2008, An-Najah Radio: Bad health effects of fast food.
  + Aug 2008, An-Najah Radio: Side effects of food additives.
  + Aug 2008, Angham Radio: Autism.
  + July 2008, An-Najah Radio: using newspapers as food wraps.
  + July 2008, An-Najah Radio: toxic gases emitted from car exhaust system.
  + July 2008, An-Najah Radio: Medications during pregnancy and lactation.
  + July 2008, Palestinian Broadcasting Station: the activities at the Poison Control and Drug Information Center.
  + June 2008, An-Najah Radio: Effect of misdiagnosis on the patient prognosis.
  + May 2008, An-Najah Radio: The suspicious envelops that were delivered to the prime minister's office.
  + May 2008, An-Najah Radio: Granny Syndrome.
  + May 2008, Palestinian Broadcasting Station: The European Association of Poison Centers and Clinical Toxicologists meeting at Spain.
  + April 2008, Ajial Radio: Granny Syndrome
  + April 2008, Project Hope: video clip about the difficulties facing researchers in Palestine.
  + April 2008, An-Najah Radio: Toxic chemicals in our food.
  + April 2008, An-Najah Radio: Counterfeit medicine (2 episodes).
  + April 2008, An-Najah Radio: The third National Poison Prevention Week.
  + April 2008, An-Najah Radio: The activities conducted by the poison center
  + March 2008, An-Najah Radio: Antioxidants.
  + Januray 2008, An-Najah Radio: The role of the poison center and its services.
  + January 2008, An-Najah Radio: The adverse effects of Cortisone
  + November 2007, Al-Qura’an Station: The genetically modified food.
  + November 2007, An-Najah Radio: Lead in our food.
  + November 2007: Al-Qura’an Station: Healthy life style.
  + November 2007: the Voice of Germany in Arabic Radio: two interviews, one regarding the healthy life style, and one regarding the services provided by the poison center.
  + November 2007: A british broadcasting station(BBC): The complementary and alternative medicine in Palestine.
  + November 2007, An-Najah Auditorium: gave a scientific lecture about genetically modified food

**Courses Taught for Undergraduate Students**

I am particularly interested in teaching, I really enjoy it. The courses I have taught at An-Najah National University include:

* + Pharmacology I,II, and III,
  + Toxicology,
  + Clinical Toxicology,
  + Ecotoxicology,
  + Scientific research,
  + Medical research methods,
  + Pharmacokinetics (course and laboratory),
  + Selected topics in pharmacology,
  + Drug information,
  + Medications during pregnancy and lactation,
  + Toxicology lab,
  + Pharmacology lab,
  + Cosmetics,
  + Medicinal chemistry.

**Courses Taught for Graduate Students**

I have taught courses for graduate students which included:

* + Advanced pharmacokinetics,
  + Industrial pollution control,
  + Ecotoxicology,
  + Advanced therapeutics,
  + Clinical toxicology,
  + Pharmaceutical care,
  + Advanced clinical pharmacokinetics,
  + Infectious diseases,
  + Public health and sanitation,
  + Environmental pollution and pesticides.

**Supervising Graduate Students' Thesis**

I have supervised graduate students in the fields of public health and in environmental

health. The following are the titles of the finished thesis:

1- Patterns of antipsychotic drug prescription in North Palestine: Jihad BaniOdeh

2- Patient beleives and attitude toward lipid lowering agents: Khaled Al Qadah

3- Obesity in school children in Nablus area: MontahaSubeih

4- Detection of aflatoxins in potato chips, peanuts, and roasted almonds in products made in the West

Bank or in Israel: ImanQasem

5- Comparative Pharmacokinetic Study of Single Oral Doses of Ibuprofen in Healthy Volunteers for

Palestinian, British and American Pharmaceutical Equivalents in The Local Market. AbdelAl-Rahman

Jarrar

6- Poisoning among children in Jenin district: AhedGhaleb

7- Quality of drinking water in Nablus district: FathiEnaya

8- Pesticide residues at the homes of farmers in Nablus area: Maysoon Fares

**Research interests**

Our Area is mostly under-researched, thus I try to provide data about health in my research. Areas of interest include:

1- Poisoning and Drug Overdose

2- Self-Poisoning

3-forensic Toxicology

4- Developmental Toxicology

5- Toxicogenomic

6- Drug utilization

7- Drug safety

8- Rationale drug use

9- Incidence of poisoning

10- Self-medications

11- Environmental pollution

10- Pharmacoepidemiology, and others.

**Review and Editorial Board**

* + Served as a reviewer for many scientific journals, and reviewed many articles in toxicology during the several years, among which are the ones I reviewed for Paediatrics, Gender Medicine, Social Science in Medicine, Annals of Saudi Medicine, An-Najah Scientific Journal, and many others.
  + Served on the editorial board of Annals of Alquds Medicine from 2008-now.

**Other interests**

1. I established the first poison control and drug information center in Palestine,it is called the Poison Control and Drug Information Center (PCDIC) and got it accredited by the World Health Organization.
2. I submitted a proposal to establish the first Pharmacy history museum at Palestine. It got accepted and I am working to implement the idea on the ground.
3. I also organized the first Poison Prevention Week for the first time in Palestine in March of 2006. Many activities were performed in this week such as scientific lectures for professionals regarding different toxicological topics and poisoning, medication errors, pesticides, medication utilization during pregnancy and lactation. The Poison Prevention Week also included an exhibition containing broachers, photos, and a lot of educational materials for professionals as well as lay people. Finally, I also supervised pharmacy students to prepare and give classes at elementary schools about poisoning and how to avoid it. I have also carried out several poison prevention weeks after that.
4. I am also the Palestinian co-ordinator for a project with the UNISCO about Arab Women in Science and Technology. The project aims to build a network containing all women scientists and to identify their problems and possible methods and areas of collaboration.
5. Coordinator of the committee to observation of the World Health Day in April 2006, it was carried out in the form of multiple workshops and was under the theme of the WHO, which is "working together for health". In this World Health Day that we organized, all types of health care professionals participated; we identified the problems facing health care providers and suggested solutions that were then submitted to the WHO and the Ministry of Health.
6. I serve in the committee that interviews and selects the candidates for the German Academic Exchange Service (DAAD) scholarship. I was selected by the German Representative to serve in this committee since the year 2001 until now. Interviews are carried out annually in October.
7. I also served on the Pharmacy examination board committee. This is responsible for awarding certificates of pharmacy equivalency for applicants who graduate from pharmacy colleges at universities outside Palestine. I was a member in both the written and the oral exams from 2003-2009.
8. I had organized a couple of student-seminar days ,which is a current teaching method, and I supervised many students during such activities.
9. I am a member of the administrative committee for "friends of life for addiction-free society", it is a new organization that aims to decreasing addiction in the Palestinian society.
10. I have located the pharmacist who owns the oldest pharmacy in Palestine, Mr. FakhriJdai, and I have given him a trophy from the university after official ceremony.

**Languages**

Arabic: mother-tongue

English: Excellent reading, writing, speaking and listening.

German: fair spoken and good reading and listening.

**Hobbies and interests**

Reading, swimming, running, aerobics, and exercise. Has participated in Nablus Marathon in the year 2009 and won the 26th place.

**References**

1- Dr. Serrine S. Lau, Dept. of Pharmacology and Toxicology, The University of Texas at Austin,

Austin, Texas.

2- Dr. Alan B. Combs, The University of Texas at Austin, Dept. of Pharmacology and Toxicology, The University of Texas at Austin, Austin, Texas.

3-- Dr. Julie P. Katkin, Department of Pulmonary Medicine, Texas Children’s Hospital, Houston, Texas.

4- Dr. Robert Wright, Harvard University, Faculty of Medicine, Department of environmental health, Department of public health. Boston, USA.