

CURRICULUM VITAE

Sana M. Janakat



Address:

Department of Nutrition and Food Technology
Jordan University of Science and Technology
P.O.Box 3030
Irbid-JORDAN
Email: jana@just.edu.jo

Nationality: Jordanian

Place and date of birth: Amman 30.4.1960

Social status: Married with four children

SCIENTIFIC CAREER

Degrees:

1-B.Sc. in Biology from Yarmouk University Irbid-Jordan. **Duration:** 1978-1982

Distinctions: The medal for scientific superiority (1982)

Deans Board of Honor: All semesters from Spring 1979- 1982

2-M.Sc. in Biochemistry . Yarmouk University. Irbid-Jordan. **Duration:** 1982-1985.

Distinctions: The medal for scientific superiority (1985)

Deans Board of Honor: All Semesters

3-Ph.D. in Nutritional Biochemistry from London School of Hygiene

Tropical Medicine/University of London-England. **Duration:** 1986-1990

Distinctions: A travel grant from the Royal society, England, to attend the
14th International Congress of Nutrition in Korea 1989.

Previous appointments:

- 1-Teaching assistant. Biology Dept. /Yarmouk University
Duration: 1982-1985
- 2- Research Assistant. Biology Dept. /Yarmouk University
Duration: March 1985-September 1985.
- 3- Teaching Assistant. Public Health Dept. /Yarmouk University
Duration September 1985-September 1986
- 4- Assistant Professor. Biology Dept. /JUST. Irbid-Jordan

Present appointment:

Associate Professor at the Department of Nutrition and Food Technology. JUST. Irbid- Jordan.

Courses taught:

General Biochemistry
Practical Biochemistry
Nutrition and Its Disorders (Special Topics)
Seminar instructor
Introductory Nutrition
Nutrition During Growth and Development
Graduation project
Advanced Human Nutrition
Advanced Nutritional Biochemistry (Masters Program)
Vitamins and Mineral (Masters Program)

Supervision:

1. M.Sc. The effect of truffle extracts on cataract formation, 1999
2. M.Sc. Effect of truffle extracts on *Staphylococcus aureus* and *Pseudomonas Aeruginosa*, 2000
3. M.Sc. The effect of three aqueous plant extracts on the liver function and Bilirubin level in the rat, 2000
4. M.Sc. (Co-advisor) Polygalactorinase in ripe and overripe tomatoes with a view to its use in increasing extracted olive oil, 2001
5. MSc. Effect of desert truffle extracts on liver functions and plasma bilirubin in the rat, 2006

6. M.Sc. Effect of selected Jordanian plants on lipid peroxidation in the rat liver, 2006
7. M.Sc. A comparison between the effect of *Pistacia lentiscus* and *Pistacia atlantica* on the liver function, 2007.
8. MSc. Effect of traditional Jordanian food on lipid peroxidation in the rat (*in vivo* and *in vitro*), 2008.
9. MSc. The effect of Jordanian traditional food (Falafel) on lipid peroxidation and liver function in the rat, (2008).
10. MSc. Effect of method of preparation of Arabic coffee (Sada) on antioxidant content and liver functions in the rat, (2010).
11. The effect of vegetation water (Amurca) on lipid peroxidation and shelf life of olive oil, (2010).
12. The effect of vegetation water on (Amurca) on viability of selected foodborne pathogens. (2010).
13. Hepatoprotective activity of oleocanthal extracted from olive oil amurca in the rat, (2012).
14. Hepatoprotective activity of squalene on the rat's liver (2012)
15. Hepatoprotective activity of *Asphodeline lutea* (Jacobs spade) on the rats liver (2015)
16. Effect of galactose on oxidative stress in the rat

Extra curricular activities:

1. Organizing Cell Biology and Agricultural Biochemistry exhibition and poster session, spring 1991.
2. Organizing the biochemistry day, which included talks and posters
 - a. presented by the students and invited lecturers, spring 1992
3. A public seminar about the best way of fasting during Ramadan. Held at Professional Association Center. Amman (2003).
4. A public seminar about the miracle of fasting. Held at the Professional Association Center. Irbid (2004)
5. A public seminar entitled "Nutrition during Ramadan "Held at the Islamia School Irbid (2004).
6. A presentation entitled " How to choose our healthy diet" delivered at the Scientific Day of Professional Association Center, Amman (2005)
7. A workshop entitled "Nutrition of Pregnant and Lactating Mothers. Professional Association Center. Amman (2005).

8. Oral presentation entitled "The scientific miracle of Ramadan fasting" delivered at the Scientific Day of Professional Association Centre (Ramadan Health and Worship). Amman (2006).
9. Biochemistry and Nutrition Day. Tabuk University. Tabuk 2011

Societies:

- 1-The Nutrition Society/England
- 2-The Biochemical Society/England
- 3-The McCarrison Society for health and nutrition/England
- 4-The Jordanian Society for the protection of the environment
- 5-The Jordanian Society of Biologists
- 6- The Jordanian Society for Scientific Research

Training courses:

- 1- Short course in handling radioactive material. Charing Cross Hospital, London, 1987.
- 2- Short course in handling radioactive material. Senate house of University of London, 1990.
- 3- Enzymatic engineering workshop Sfax, Tunis 1992
- 4- Course in teaching Technology, Jordan University of Science & Technology. 1994
- 5- Workshop on Modernizing basic and engineering sciences university Education through computational and networking technologies, UNISCO and JUST. 1997
- 6- Short course in Window 95 for faculty members, Jordan University of Science and Technology. 1999
- 7- Workshop on communication and interaction in university teaching, Jordan University of Science and Technology. 2001.
- 8- Workshop on creativity. Jordan University of Science and Technology, 2005.
- 8- Conducted a workshop on the Nutrition of pregnant mothers, 1998
- 9- Conducted a workshop on the Nutrition of pregnant and lactating mothers, 2005, Agricultural Engineers Association, Amman.
- 10- Conducted a workshop on the Nutrition of pregnant and lactating mothers, 2006,

Conferences and meetings:

- 1- The second conference for Arab Biologists. Amman. 1985.
- 2- The 460th meeting of the Nutrition Society. London. 1988.
- 3- The 14th International Congress of Nutrition. Seoul. 1989.
- 4- The 634th meeting of the Biochemical Society. Bath. 1990.
- 5- The Use of Biology in Development, University of Mo'ta. Kerak, Jordan.1990
- 6- The Second Scientific day of the Faculty of Agriculture, JUST, Irbid- Jordan. 1999.
- 7- The Fourth Scientific day of the Faculty of Agriculture, JUST, Irbid-Jordan. 2001.
- 8- The Fifth Scientific day of the Faculty of Agriculture, JUST, Irbid-Jordan. 2002.
- 9- The Sixth Scientific day of the Faculty of Agriculture, JUST, Irbid-Jordan. 2003.
- 10- The Seventh Scientific day of the Faculty of Agriculture, JUST, Irbid-Jordan. 2004
- 11- The Second Saudi Scientific Conference, King Abdul-Azeez University, Jeddah- Saudi Arabia, 2004.
- 12- Scientific day of Professional Association Centre, Professional Association Centre, Amman, Jordan, 2005.
- 13- Scientific day of Professional Association Centre, Professional Association Centre, Amman, Jordan, 2006.
- 14-The Eighth Scientific Day of the Faculty of Agriculture. JUST, Irbid- Jordan, 2006.
A second prize winner poster.
- 14- The Sixth Jordanian Agricultural Scientific Conference, Amman, Jordan, 2007.
- 15- Oral presentation entitled "The role of some Jordanian folk plants on the prevention from cancer" Professional Association Centre Scientific Day. Irbid- Jordan, 2006.
- 16- The Eighth Scientific day of the Faculty of Agriculture, JUST, Irbid-Jordan. 2006.
- 17- The Sixth Jordanian Scientific Conference. Amman- Jordan, 2007.
- 18- Symposium of medicinal and toxic plants in Jordan. Balqa Applied University, Zarka- Jordan, 2008.
- 19- The first international symposium on medicinal plants, their cultivation and aspects of uses. Ash-Shoubak University College. Al-Balga Applied University Ash-shoubak, Jordan, 2008.
- 20- The First Nutrition Forum: Nutrition and Disease. University of Kalamoon. Syria. 2010.

- 21-Conference on Updates in Nutritional Management of Diabetics and Elderly.
University of Jordan. Amman, 2011.
- 22- International Conference for Olive Tree and Olive Products (Olive Biotech),
Jordan 2014
- 23- Second International Congress of Agriculture, Food and Gastronomy “from field to
the table” Turkey 2015

Committees:

I- Departmental

- 1-Library committee 1990
- 2- Scientific research committee 1991 and 1994
- 3- Educational and seminars committee 1995
- 4- Physics for biology students committee 1994
- 5- Screening committee for teaching assistant post candidates 1996
- 6- Screening committee for technician post candidates 1996
- 7- Technical promotion committee 1994
- 8- Technical promotion committee 1994
- 9- Scientific research committee at the department and the faculty level every
year (1998-2006)

II- University

- 1- Animal house committee 1990
- 2- Biochemistry committee 2005

III- PHD Thesis external examiner:

1. Assessment of the immunomodulatory and antitumor effects of some medicinal plants extracts on balb/c mice. By: Yasir Adil Turki. Supervised by: Dr. Muna Hassuneh. Faculty of Science, Department of Biological Sciences, University of Jordan.
2. Nutraceutical effect of lentils (*Lens culinaris*, L.) in Fischer 344 rats with azoxymethane-induced colorectal cancer. By: Mo'ez Al-Islam Ezzat Faris. Supervised by: Prof. Hamed R. Takruri and Dr. Maha S. Shomaf. Faculty of Agriculture, Department of Nutrition and Food Technology, University of Jordan.
3. Study of preventative/curative effect of date palm fruit (*Phoenix dactylifera* L.) on the 7,12-dimethylbenz(α)anthracene-induced mammary cancer in rats. By:

Hiba Fathi Al-Sayyed, Supervised by: Prof. Hamed R. Takturi and Dr. Maha S. Shomaf. Faculty of Agriculture, Department of Nutrition and Food Technology, University of Jordan.

IV- MSc. Thesis examiner:

1. The prevalence of normative and non-normative eating patterns among Tawjihi students during final examinations preparation period and its effect on body weight parameters. By: Faten I. Bayado. Supervised by: Dr. Hiba Bawadi. Department of Nutrition and Food Technology, Jordan University of Science and Technology.
2. Effect of addition of germinated lupin flour on the physiochemical and organoleptic properties on cookies. By: Dalia Z. Al-Omari. Supervised by: Dr. Selma Abdul-Hussain and Dr. Bayan Obeidat. Department of Nutrition and Food Technology, Jordan University of Science and Technology.
3. Effects of exam related stress of salivary cortisol levels and on eating behavior among a group of Jordan University students. By: Batool D. Al Jammal. Supervised by: Dr. Salma K. Tukan. Department of Nutrition and Food Technology, University of Jordan.
4. The Association between diffuse hair loss, nutritional factors, lifestyle, and socioeconomic factors among Jordanian adult females. By: Sara H. Al-Rosan. Supervised by: Dr. Bayan Obeidat and Dr. Khalid K. Al-Ani. Department of Nutrition and Food Technology, Jordan University of Science and Technology.
5. Vitamin D deficiency with anxiety and depression. By: Safa O. Almanasrah. Supervised by: Dr. Khalid Al-Ani and Dr. Bayan Obeidat. Department of Clinical Pharmacy. Jordan University of Science and Technology.
6. The relationship between certain antioxidant enzymes activity, oxidative stress, serum level of lipid, and physical activity in a group of obese Jordanian children aged 10-15 years old. By: Anfal M. Al-Dalaeen. Supervised by: Dr. Haydar A. Al-Dumi. Department of Nutrition and Food Technology, University of Jordan.

Research interests:

Diabetic pathophysiology

Effect of medicinal plants used in Jordanian folk medicine on liver functions

Effect of truffle extracts on cataract formation and prevention of eye infections

Nutritional status and the prevalence of Diabetes mellitus in the Northern Badia of Jordan.

Effect of Jordanian plants and Jordanian traditional foods on lipid peroxidation

Publications:

1. Owais, W.M., Janakat, S. and Hunaiti, A. (1985). Activation of sodium cyanide to toxic but non-mutagenic metabolite in *Salmonella typhimurium*. *Mutation Research*, 144:119-125.
2. Janakat, S., Bates, P. and Rivers, J.P.W. (1989). Protein content of skin. *British Journal of Nutrition*, 62:521-525.
3. Janakat, S.M., Bates, P.C., Millward, D.J., Yahya, Z.A and Rivers, J.P.W. (1989) The effect of increasing concentration of dietary B-aminopropionitrile on collagen cross-linkage in streptozotocin-diabetic rats. *The proceedings of the Nutrition Society*. 48(2):137A.
4. Janakat, S.M, McCartney, A. and Millward, D.J. (1990) Effect of exposure to B-aminopropionitrile (B-APN) on streptozotocin diabetic rats. *Abstracts of the Biochemist*. 2:178.
5. Janakat, S. and Al-Merie, H. (2002) Evaluation of hepatoprotective effect of *Pistacia lentiscus*, *Phillyrea latifolia* and *Nicotiana glauca*. *J. of Ethnopharmacology*. 83:135-138.
6. Janakat, S. and Al-Merie, H. (2002) Optimization of the dose and route of injection and characterization of the time course of carbon tetrachloride-induced hepatotoxicity in the rat. *Journal of Pharmacological and Toxicological Methods*. 48(1):41-44.
7. Janakat, S., Al-Fakhiri, S. and Sallal, A-K. (2004) A promising peptide antibiotic from *Terfezia claveryi* extracts against *Staphylococcus aureus*. *Phytotherapy Research*. 18(10):810-813.

8. Janakat, S., Al-Fakhiri, S. and Sallal, A-K. (2004) Evaluation of antibacterial Activity of aqueous and methanolic extracts or the truffle *Terfezia claveryi* against *Pseudomonas aeruginosa*. Saudi Medical Journal. 26(6):952-955.
9. Al-Momani, W., Nicholas, R.A.J., Janakat, S., Abu-Basha, E. and Ayling, R.D. (2006) The *in vitro* effect of six antimicrobials against *Mycoplasma putrefaciens*, *Mycoplasma mycoides* subsp. *mycoides* LC and *Mycoplasma capricolum* subsp. *capricolum* isolated from sheep and goats in Jordan. Tropical Animal Health and Production. 38:1-7.
10. Al-Momani, W., Abu-Basha, E., Janakat, S., Nicholas, R.A.J. and Ayling, R.D. (2007) *In vitro* antimycoplasmal activity of six Jordanian medicinal plants against three mycoplasma species. Tropical Animal Health and Production. 39:515-519.
11. Janakat, S. and Al-Thnaibat, O. (2008) Antilipoperoxidative effect of three edible plants extracts; *Viscum album*, *Arum dioscoridis* and *Eminium spiculatum*. Journal of Food Quality. 31:1-12.
12. Hamad, A.R., Al-Momani, W.M., Janakat, S., and Oran, S.A. (2009) Bioavailability of ellagic acid after single dose administration using HPLC. Pakistan Journal of Nutrition. 8 (10): 1661-1664.
13. Janakat, S. and Nassar, M. (2010) Hepatoprotective activity of desert truffle (*Terfezia claveryi*) in comparison with the effect of *Nigella sativa* in the rat. Pakistan Journal of Nutrition. 9(1): 52-56.
14. Janakat, S. and Al-Khateeb, M. (2010) Effect of a popular Middle Eastern food (Falafel) on rat liver. Toxicological & Environmental Chemistry. 93 (2): 360 – 369.
15. Janakat, S.M. and Hammad, F. (2013) Chemical composition of *Amurca* generated from Jordanian olive oil. J of Nutr and Food Sci 3:186.doi:10.4172/2155-9600.1000186.
- 16- Janakat, S.M, Al-Nabulsi, A., Hammad, F., Holley, R.A (2013). Effect of *amurca* on olive oil quality during storage. J Food Sci Technol, DOI 10.1007/s13197-013-1153-1.
- 17- Janakat, S.M., and Amour, A. (2014). Hepatoprotective Activity of Oleocanthal Extracted from Olive Oil *Amurca* in the Rat. Oral Presentation at International Conference for Olive Tree and Olive Products (Olive Biotech). Accepted for publication in the conference proceedings.
- 18- Janakat, S.M, Al-Nabulsi, A.A, Allehdan, S., Olaimat A.N., Holley, R.A (2015) Antimicrobial activity of *amurca* (olive oil lees) extract against selected foodborne pathogens. Food Sci. Technol, Campinas, 35(2): 259-265.

Interests:

1- Photography

- a- Published a number of photographs in Jordanian and Arabic newspapers and photography journals.
- b- Have a home page on webshots containing a number of albums URL:
www.webshots.com/Myaccount/Myaccount.fcgi

2- Table tennis; Joined the table tennis team of

- a- Sarkasian society in Amman 1975-1978.
- b- Queen Zain High School team in Amman 1977-1978.
- c- Yarmouk University team in Irbid 1978-1980.