

## Personal Information



Professor Dr. Bashir M. Jarrar

**Date of Birth:** June 12, 1954

**Place of Birth:** Jenin

**Academic Rank:** Professor

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**Google Scholar site:** <https://scholar.google.com/citations?user=lrIs5E0AAAAJ>

**ResearchGate score site:** <https://www.researchgate.net/>

Major: **Biological Sciences**

Minor: **Histocytotechnology/Nanotoxicity**

**PhD Thesis:** Histological, Histochemical and Ultrastructural Alterations Induced by Lead in the Kidney and Liver of Male Wistar Albino Rats

### Authorship

Books authorship	38
Research Papers	114
Scientific Articles	60
Funded Research Projects	20
H-index	23
i 10-index	46
Citation	2113
ResearchGate index	28.14
Readers	2578

### Employment Record

#### Current Positions:

Department of Biological Sciences  
Faculty of Science  
Jerash University, Jordan

#### Previous Positions Held

- Medical Laboratory Sciences Department  
College of Applied Medical Science  
Al-Jouf University
- 2-Teaching and Research fellow in Histology and  
Histochemistry Unite, Zoology Department, College of Science, King Saud University
- 3- Lecturer (part time) in Histocytotechnology Health College – Riyadh, Ministry of Health.
- 4- Quality control laboratory manager assistant Al-Hikma Drug Factory, Jordan
- 6- Part time job in the Histocytopathology Laboratories AI-Khaldi Hospital, Amman, Jordan.

### Teaching Experience

I taught or have been teaching the following courses:

- Biology (for paramedical schools and Biology students)
- Histology
- Anatomy and Histology
- Neuroanatomy
- Musculoskeletal System Anatomy
- Human Anatomy
- Exercise Physiology
- Pathophysiology
- Human Physiology
- Histotechnology
- Electron microscopy
- Histocytotechnology (Microtechnique)
- Cytopathology
- Laboratory Technology  
(Urine, stool, blood, calculi and semen analysis)
- Hematology for Biology students
- Nanobiology
- Histochemistry

### Book Publications

- 1- Taib, N.T. and **Jarrar, B.M.** (1985). **Guide for Practical Histochemistry**. King Saud University Press. (In Arabic).
- 2 - Taib, N.T. and **Jarrar, B.M.** (1987). **Student's Guide for Animal**

**Histology.** `King Saud University Press. (In Arabic).

- 3- Taib, N.T. and **Jarrar**, B.M. (1988). **Environmental Pollution Measurements.** Dar Al-Marikh pub. Co., Riyadh, Saudi Arabia.(In Arabic).
- 4- Al-Quily, S. and **Jarrar**, B.M.(1990). **Air Pollution.** Arab Bureau of Education of the Gulf States. (In Arabic).
- 5- Amoudi, M. and **Jarrar**, B.M.(1991). **Manual of Practical Biology.** Dar Thaqif for publication, Riyadh.(In English ).
- 6- Taib, N.T. and **Jarrar**, B.M. (1994). **Children and Environmental Pollution.** (11) Al-Yamama Press, Riyadh.
- 7 - Taib, N.T. and **Jarrar**, B.M. (1995). **Histochemistry: Applied and Theoretical.** King Saud University Press. (in Arabic)
- 8 - Taib, N.T. and **Jarrar**, B.M. (1995). **Water Pollution.** (20). Al- Yamama Press, Riyadh
- 9 - Taib, N.T. and **Jarrar**, B.M. (1995). **Urine Analysis.** Marikh pub. Co., Riyadh, Saudi Arabia. (In Arabic)
- 10 - Taib, N.T. and **Jarrar**, B.M. (1999). **Semen Analysis: Applications and Indications.** King Saud University press.
- 11 - Taib, N.T. and **Jarrar**, B.M. (2001). **Laboratory Techniques for Stool Analysis.** King Saud University Press.
- 12 - Taib, N.T. and **Jarrar**, B.M. (2002). **Laboratory Techniques for Calculi Analysis.** King Saud University Press.
- 13- Taib, N.T. and **Jarrar**, B.M. (2002). Environmental Pollution With Dust. (105) Al-Yamama Press, Riyadh
- 14 - Amoudi, M. and **Jarrar**, B.M. (2003). **Glossary in Zoological Terms.** King Saud University Press.

- 15- Taib, N.T. and **Jarrar**, B.M. (2003). **Indoor Pollution.**, King Abdel Aziz City for Science and Technology.
- 16- **Jarrar**, B.M. and Taib, N.T. (2004). **Histocytotechnology.**  
King Saud University press.
- 17- Taib, N.T. and **Jarrar**, B.M. (2005). **Enzyme Histochemistry.** King Saud University Press.
- 18- Taib, N.T. and **Jarrar**, B.M. (2007). **Laboratory Techniques for Blood Analysis.** Kin Saud University Press.
- 19 - Taib, N.T. and **Jarrar**, B.M .(2008). **Histochemistry: Techniques and Horizon.** King Saud University Press.
- 20- Taib, N.T. and **Jarrar**, B.M. (2009). **Glossary in Medical Laboratory Analysis Terms.** King Saud University Press.
- 21- Taib, N.T. and **Jarrar**, B.M. (2011). **Laboratory Techniques in Urine analysis.** King Saud University Press.
- 22- **Jarrar**, B.M. and Al-Rowaily, M.A. (2011). **Birds of Domate Al-Jundal Lake.** Al-Sudairy Foundation.
- 23- **Jarrar**, B.M. (2012). **Normal Pattern of the Camel Histology.** Camel and Range Research Center, Saudi Arabia
- 24- Taib, N.T. and **Jarrar**, B.M. (2013). **Descriptive Histology.** King Saud University Press.
- 25- Taib, N.T. and **Jarrar**, B.M. (2015). **Environment Protection from Transport Pollutants Emission.** Naif Arab University for Security Sciences.
- 26 - **Jarrar**, B.M. and Almoekel, N. (2014). **Dustfall and suspended particulates In Skaka city of Aljof Province of Saudi Arabia.** Al-Sudairy Foundation, Saudi Arabia
- 27- **Jarrar**, B.M., Taib, N. and Alrwiuli, M. (2017). **Food Pollution: Sources**

**and Risks.** Dar Zuhdi for Publication, Amman-Jordan

28- **Jarrar, B.M.** (2017). **Environmental Pollution and Children Health.** Dar Zuhdi for Publication, Amman-Jordan

29- **Jarrar, B.M.** (2017). **Indoor Pollution and Family Health.** Dar Zuhdi for Publication, Amman-Jordan

30- **Jarrar, B.M.** (2017). **Biodiversity of Domate Aljandal lake of Aljouf Province, Saudi Arabia.** Al-Sudairy Foundation, Saudi Arabia.

31- **Jarrar, B.M.** (2018). **Animals World in Palestinians Memory.** Dar Zuhdi for Publication, Amman-Jordan

32- - **Jarrar, B.M.** (2019). **Semen Analysis: Clinical, Functional and Criminal Tests.** Dar Zuhdi for Publication, Amman-Jordan

33 – **Jarrar, B.M.** Al-Rowaily, M.A. (2023). **Obesity and Overweight in Skaka City of Saudi Arabia.** Abdelrahman Al-Sudairy Cultural Center, Saudi Arabia.

### **Chapter on book publications**

- Taib, N.T. and **Jarrar, B.M.** (2002). Efforts of Saudi Arabia in Environmental Health. In: **Environmental Protection in the era of the Custodian of the Two Holy Mosques.** Imam Muhammad bin Saud Islamic University, Ministry of High Education, Saudi Arabia

### **Book Translation**

United Nations Environmental Program (UNEP). (1988). **Urban air Pollution.** Translated to Arabic by Taib, N.T. and **Jarrar, B.M.**, 1991, Nairobi, Kenya

### **Research Publications**

The following papers have been published or are accepted for publication:

1. Mahasneh, A.; **Jarrar**, B.M. and Madi, I. (1980). Distribution of aflatoxigenic fungi and antibiotic producing bacteria in Jordanian soils. *Iraqi J. Sci.* , 21(4): 673- 692
2. **Jarrar**, B.M.; Salhab, A.; Natour, R and Mahasneh, A. (1982). Incidence of aflatoxins in some food stuffs in Jordan. *Drasat.* 9(2): 233-244
- 3- Taib, N.T.; B. **Jarrar** and EL-Ghandour,M.H.(1982). Morphology and histology of the alimentary canal of *Chalcides levitoni*. *Bangaldesh J. Zool.* 10 (1):1-24
4. Taib, N.T. and **Jarrar**, B.M. (1983). Osbervation on the histochemistry of the alimentary canal of *Chalcides levitoni*. *Arab Gulf J. of Scient. Res.* 1(1): 187-202.
5. Taib, N.T. and **Jarrar**, B.M. (1983). Morphology and histology of the alimentary canal of *Mauremys caspica* (Reptilia, Emydidae). *Ind. J. Zool.* 11(1): 1-12.
6. Taib, N.T.; AL-Asgah, N.A. and **Jarrar**,B.M. (1983). Morphology and histology of the alimentary canal of jerboa, *Jaculus jaculus* L. *Ind. J. Zool.* 2(2): 27-34.
- 7- **Jarrar**, B.M. and Natour, M.R. (1984). Suitability of some foodstuffs for aflatoxin production. *Arab Gulf J. Scient. Res.* 2(2):385-389.
- 8-Taib, N.T. and **Jarrar**, B. (1985). A comparative study of enzyme histochemistry of the alimentary tracts of *Chalcides ocellatus*, *Uromastyx microlepis* and *Mauremys caspica*. *Arab Gulf J. Scient. Res.* 3(2): 667-678.
- 9- Taib ,N.T. and **Jarrar**, B.M. (1985). Histochemical characterization of mucosubstances in the tongue of the Tarrapin *Mauremys caspica* *J.B.S.R.*:16(2): 239-247.
- 10- Taib, N.T.; Jarrar, B.M. (1985). Histochemical analysis of mucosubstances in

the lingual salivary glands of the lizard *Agama blandfordi*. *Sudan J. Science* I: 97-107.

11. Taib, N.T. and **Jarrar**, B.M. (1985). Histochemical studies on the lingual salivary glands of the spiny-tailed lizard, *Uromastix microlepis*. *Bulletin of the institute of Zoology, Academia Sinica*, 24(2): 203-212.

12- Taib, N.T., AL-Asgah, N.A. and **Jarrar**, B.M. (1986). Histochemical observations on the gastrointestinal mucosa of fasting Jerboa, *Jaculus Jaculus* L. (Dipodidae, Rodentia). *Pakistan J. of Zoology*, 18 (I), 111-119.

13. Taib, N.T. and **Jarrar**, B.J. (1986). The Histochemistry of the lingual salivary glands of the lizard *Acanthodactylus schmidtii* (Wiegman, N.N.), Reptilia, Lacertilia, Lacertidae). *Bulletin of the Maryland Herpetological Society* 22(2): 27-36.

14. **Jarrar**, B.M. and Taib, N.T. (1987). The histochemistry of the labial salivary glands of the spiny-tailed *Uromastix microlepis* (Blandford). *Amphibia-Reptilia*. 8 (1):

15. Taib, N.T. and **Jarrar**, B.M. (1987). Histochemistry of the labial salivary glands of the one-humped camel *Camelus dromedarius*. *Boll. Zool.* 54(1):19-25.

16. Taib, N.T. and **Jarrar**, B.M. (1986). Observations of the sputum of the workers in Riyadh Area. *Symposium proceeding of the environmental pollution in the Arabian Gulf*. 22-28 Oct. Kuwait. In Arabic. 489-500.

17. **Jarrar**, B.M. and Taib, N.T. (1989). Histochemical distribution of mucrosubstances and enzyme activity in the lingual salivary glands of the one-humped camel (*Camelus dromedarius*). *Rev. Elev. Med. Vet. Pays. Trop.* 42(1):63-71

18. Taib, N. T. and **Jarrar**, B.M. (1989). Morphology, histology and histochemistry of the ventral buccal glands of the one- humped camel (*Camelus*



*dromedarius*). *J. Zool., London*, 219, 423-434.

19. AL-Asgah, N.A.; N.T. Taib, and **Jarrar**. B.M. (1990). Structure and histochemistry of the sublingual gland of the one- humped camel (*Camelus dromedarius*). *Rev. Elev. Med. Vet. Pays. Trop.* 43 (4):519-527.

20. AL-Asgah, N.A.; N.T. Taib, and **Jarrar**. B.M. (1990). Morphology, histology and histochemistry of the cephalic glands of slevin's group gecko (*Stenodactylus slevini*). *J. Tropical Zoology.* 3, 209-217.

21. Taib, N.T. and **Jarrar**, B.M. (1993). Observations on the morphology, histology and histochemistry of palestine yellow scorpion *Leirus quenquestriatus* . *J. Tropical Zoology.*6:143-152

22. Taib, N.T. and **Jarrar**, B.M. (1995). Dust fall in Riyadh city during March 21-June 21, 1990. *J. King Saud University (Science)*, 7(2):1-10.

23- Al-Sadoon, M.K. and **Jarrar**, B.M. (1994). A study of the frequency and incidence of scorpion stings and snake bite in Riyadh city. *J. King Saud Univ.* 6:217-226.

24- Taib, N.T. and **Jarrar**, B.M. (1998). Histological and histochemical characterization of the lingual salivary glands of the quail, *Coturnix coturnix*. *J. Saudi Biol. Soc.* 5(2): 33-41

25- **Jarrar**, B.M. and Taib, N.T. (1998). Histochemical characterization of the nephron of the Arabian camel, *Camelus dromedarius* L. Accepted for publication in the *J. of Camel Sciences*.

26- Taib, N.T. and **Jarrar**, B.M. (1998). Histochemical characterization of the palatine salivary glands of the one-humped camel. *J. Camel Practice and Research.* 5(1): 39-45

27- **Jarrar**, B.M. and Mahmoud, Z. N. (1999). Histochemical characterization of renal phosphatases in rats treated with lead. *International J. Toxicology.* 18:231-

**28- Jarrar, B.M. and Mahmoud, Z. N. (2000).** Histochemical demonstration of changes in the activity of hepatic phosphatases induced by experimental lead poisoning In male white rats (*Rattus norvegicus*). *Toxicology and Industrial Health*.16(1):7-15

**29- Jarrar, B.M. and Mahmoud, Z.N. (2000).** Histochemical characterization of the lead intranuclear inclusion bodies. *Biological Trace Element Research*.75(1-3):245-251

**30- Jarrar, B.M. (2001).** Ultrastructural alterations in proximal tubule cells induced by lead. *Pakistan J. Biolog. Sci.* 4(10):1281-2001

**31- Jarrar, B.M. and Mahmoud, Z. N. (2002).** Histochemical demonstration of the alterations in the renal dehydrogenases activities induced by lead in Wistar rats. *J. Health Sci*.48(2)

**32- Abou-Tarboush, F.M.; Taib, N.T. and Jarrar, B.M. (2002).** Histochemical alteration in the glycogen content and phosphatases activities induced by indomethacin in the hepatic tissues of SWR/J mice. *J. King Saud Univ.,Science*. 14(1):29-44.

**32- Taib, N.T. and Jarrar, B.M. (2001).** Histochemical characterization of the lingual salivary glands of the Eurasian collared dove, *Streptopelia decaocta*. *Pakistan J. Biolog. Sci.* 4(11):1425-1428.

**34- Mahmoud, Z. N. and Jarrar, B. M. (2002).** A review in lead toxicity. *Sudan J. of Basic Sciences*, 2(3):23-60.

**35- Jarrar, B.M. (2003).** Histological and histochemical alterations in the kidney induced by lead. *Annals of Saudi Medicine*.23(1-2):10-15.

**36- Al-Sadoon, M.K. and Jarrar, B.M. (2003).** An epidemiological study of scorpion stings in Saudi Arabia over the period (1993-1997). *J. Venomous*

*Animals and Toxins* (Brazil). 9(1):1-8.

37- **Jarrar**, B.M. and Taib, N.T. (2004). Histochemical characterization of the lingual salivary glands of the house gecko, *Ptyodactylus hasselquisti* (Squamata: Gekkonidae). *J. Asian Herpetological Society*, 10: 176-181.

38- Taib, N.T.; **Jarrar**, B.M. and Mubarak, M. (2004). Ultrastructural alterations in the hepatic tissues of white rats (*Rattus norvegicus*) induced by experimental lead toxicity. *Saudi Journal of Biological Sciences*, 11(1):11-19.

39- Almansour, M. and **Jarrar**, M. (2004) . Structure and secretions of the salivary glands of the white-cheeked bulbul, *Pycnonotus leucogenys*. *Saudi Journal of Biological Sciences*, 11(2):119-126

40- Taib, N.T.; **Jarrar**, B.M. and Mubarak, M. (2004). Ultrastructural alterations in the renal tissues of rabbits induced by diclofenac sodium. *Saudi Medical Journal*, 25(10):1360-1365

41- **Jarrar**, B.M. (2005). Histochemical characterization of dehydrogenases in the nephron of the one-humped camel (*Camelus dromedaries*). *Pakistan Journal of Biological Sciences*, 8(7):1055-1059

42- **Jarrar**, B.M. and Mahmoud, Z. N, Al- Enazi, M. and Taib, N.T. (2006). Histochemical alterations in the activities of hepatic dehydrogenases induced by lead in male albino rats (*Rattus Norvegicus*). *Egypt.J.Zool.*, 46:217-225

43 - **Jarrar**, B.M. (2006). Renal phosphatases histochemistry in the nephron of the dromedary camel (*Camelus dromedaries*). *Proceeding of the International Scientific Conference on Camel*, College of Agriculture & Veterinary Medicine, Qassim University, May 2006. Volume 3: 1332-1342

44- **Jarrar**, B.M. (2006). Histochemical characterization of the nephron carbohydrates in the spiny-tailed lizard, *Uromastix microlepis*. *Saudi Journal of*

*Biological Sciences*,13(2):153-158

- 45- Taib, N.T. and **Jarrar**, B.M. (2006). Histochemical alterations in the spleen of rabbits induced by diclofenac sodium (Voltaren). *J. King Saud Univ.,Science*, 19(1):21-29
- 46- Taib NT, Mubarak M and Jarrar BM (2006) Ultrastructural alterations of peripheral blood lymphocytes of white rats (*Rattus norvegicus*) exposed to lead. *International Journal of Zoological Research* 2(4): 312-322.
- 47- **Jarrar**, B.M., Al- Enazi, M. and Al-Messar, S. (2007). Chemical composition of urinary calculi from Al-Jouf Province of Saudi Arabia. *J. Royal Medical Services*. 14(3):15-19.
- 48- Almansour, M. and **Jarrar**, B. (2007). Morphological, histological and histochemical study of the lingual salivary glands of the little egret (*Egretta garzetta*). *Saudi Journal of Biological Sciences*, 14(1):75-81
- 49- Almansour, M. and **Jarrar**, B. (2008). Morphological, Histological and Histochemical Study of the Lingual Salivary Glands of Five Avian Species from Saudi Arabia. *King Saud Univ., Science* 20(2): 39-59
- 50 - **Jarrar**, B.M. and Al-Rowaily, M.A. (2008). Histology and histochemistry of the venom apparatus of the black scorpion, *Androctonus crassicauda*. (Oliver, 1807; buthidae). *The Journal of the Venomous Animals and Toxins including Tropical Diseases*. 14(3):514-526
- 51- **Jarrar**, B.M. and Al-Rowaily, M.A. (2008). Epidemiological Trends of Scorpion Sting Syndrome In Al-Jouf Province of Saudi Arabia. *Annals Saudi Medicine*, 28(3): 183-187
- 52- **Jarrar**, B.M. and Al- Enazi, M. (2008). Histochemical characterization of the cytoplasmic inclusions induced by chronic lead toxicity. *Saudi Journal of*

*Biological Sciences*, 15(1): **47-52**

**53-** Almansour, M.; Al-Otabi, N.; Alarifi, S.; Ibrahim, S. and **Jarrar, M.** (2008). Histological and Histochemical Alterations Induced by Lead in the kidney of the Quail *Coturnix coturnix*. *Saudi Journal of Biological Sciences*, 15(2): 307-313

54 - Almansour, M.; Al-Otabi, N.; Alarifi, S.; Ibrahim, S. and **Jarrar, B.M.** (2009). Histological and Histochemical Alterations Induced by Lead in the Liver of the Quail *Coturnix coturnix*. *Toxicological and Environmental Chemistry*, 91(6):1191-1203

55- **Jarrar, B.M.** (2009). Microanatomy and Histochemistry of the Salt Glands of the Kentish Plover, *Charadrius alexandrinus* (Aves, Charadriidae) Plover, *Charadrius alexandrinus* (Aves, Charadriidae). *Online Journal of Biological Sciences*, 9(3): 75-80

**56- Jarrar, B.M.** (2010). Morphology and histology and histochemistry of the venom apparatus of the centipede, *Scolopendra valida* Lucas 1840 (Chilopoda, Scolopendromorpha, Scolopendridae). *Tropical Zoology* 23: 107-115.

**57- Jarrar, B.** (2011). Histological changes and Biochemical alterations in the liver of sheep following *Echis coloratus* envenomation. *Saudi Journal of Biological Sciences*, 18: 169-174

58- **Jarrar, B.** (2011). Histological alterations in the testicular tissues induced by sildenafil overdoses. *J. Drug Metabolism Letters*, 15(2): 99-103

59- **Jarrar, B.M.** and Al-Rowaily, M.A. (2011). Chemical composition of gallstones from Al-Jouf Province of Saudi Arabia. *Malaysian Journal of Medical Sciences*, 18(2):47-52

60- Abdelhalim, M.A. and **Jarrar, B.M.** (2011). Gold nanoparticles administration induced prominent inflammatory, central vein intima disruption, fatty change and Kupffer cells hyperplasia. *Lipids in Health and Disease*,

10(113):

61- Abdelhalim, M.A. and **Jarrar, B.M.** (2011). The appearance of renal cells cytoplasmic degeneration and nuclear destruction might be an indication of GNPs toxicity. *Lipids in Health and Disease*, 10(147):

62- Abdelhalim, M.A. and **Jarrar, B.M.** (2011). Renal tissue alterations were-size dependent with smaller ones induced more effects and related with the exposure of gold nanoparticles. *Lipids in Health and Disease*, 10(163):

63- **Jarrar, B.M.** and Al-Rowaily, M.A. (2011). Environmental pressure on Domate-Aljandal Lake of Al-Jouf Province in Saudi Arabia. Proceeding of the Symposium on Environmental Pollutants: Analysis and Control, pp: 12-26, Taiba University, Saudi Arabia

64-Khatabi, A; Bencheich, R.; Sanai A.; Jarrar B.; et al. (2011). Classification of clinical consequences of scorpion stings: consensus development. *Royal Society of Tropical Medicine and Hygien*, 150:364-369

65- Jarrar, B. and Taib , N.T. (2012). Histological and histochemical alterations in the liver induced by lead chronic toxicity. *Saudi Journal of Biological Sciences*, 19:203-210

66- Abdelhalim, M.A. and **Jarrar, B.M.** (2011). Gold nanoparticles induced cloudy swelling to hydropic degeneration, cytoplasmic hyaline vacuolation, polymorphism, binucleation, karyopyknosis, karyolysis, karyorrhexis and necrosis in the liver. *Lipids in Health and Disease*, 10(166):

67 - Abdelhalim, M.A. and **Jarrar, B.M.** (2012). Histological alterations in the liver of rats induced by different gold nanoparticles sizes, doses and exposure duration. *J. Nanobiotechnology*, 10:5

68- Jarrar B.M., Al-Hiri. A. and Jarrar Y. (2012). Hepatic and renal histological alterations induced by topical hydroquinone administration. *American Journal of*

*Pharmacology and Toxicology*, 7(1): 19-26.

69 - Almansour, M.; and **Jarrar, B.** (2013). Occurrence and seasonal variation of the avifauna at Domate Al-Jandal lake, Al-Jouf Province of Saudi Arabia.

*Pakistan J. Zoology*, 45(1):85-91

70- Al-Doaiss, A.A.; Alarifi S. and **Jarrar, B.** (2013). Hepatic histological and histochemical alterations induced by rosuvastatin therapeutic doses. *Pakistan J. Zoology*, 45(1):149-157.

71- **Jarrar, B.** (2014). Histological alterations in the epididymal tissue induced by sildenafil overdoses. *British J Med & Medical Sc.*, 4(5): 1204-1216.

72- **Jarrar, B.** and Alferah, M. (2014). Renal Histological Alterations Induced by 10 nm Gold Nanoparticles toxicity in relation with the time of exposure. *Am.J. Pharm.* 33(5): 725-730.

73- **Jarrar, B.** and Taib, N. (2014). Hormonal changes and histological alterations in the reproductive epithelia of rabbits Induced by sildenafil overdosing toxicity. *International Journal of Pharmacology & Toxicology Science* 2014; 4(1): 7-18.

74- Almansour, MI; Alfara MA and **Jarrar B.** (2014). Protective effect of propolis against hepatic histological and histochemical alterations induced by naked gold nanoparticles. *Latin American Journao of Pharmacy*, 33(9):1527-1532.

- 75- **Jarrar, B.** (2015). Hepatic histological alterations Induced by sildenafil Overdoses *Pakistan Journal of Pharmaceutical Sciences*, 28(6):2119-2127
- 77- Almansour MI, Jarrar Q, Battah A, Obeidat F, Battah K and **Jarrar B.** (2015). Hepatic histopathological and histochemical alterations induced by the toxicity of different sizes of silver nanoparticles. *Cenicia e Tecnica Vitivincola*, 30(8):100-123.
- 78- Almansour MI, Jarrar Q, Battah A, and **Jarrar B.** (2015). Morphometric alterations induced by the toxicity of variable sizes of silver nanoparticles. *International Journal of Morphology*, 33(2): 544-552.
- 79- Almansour M, Sajti L, Melhim W and **Jarrar B.** (2015). Ultrastructural Hepatic Alterations Induced by 35 nm Zinc Oxide Nanoparticles. *Nanoscience and Nanotechnology Letters*, 7(9):763-769
- 82- Almansour M, Sajti L, Shriedeh Z and **Jarrar B.** (2016). Pulmonary Histological Alterations Induced by 20 nm Silver Nanoparticles. *J. Nano Research*, 35:104-114.
- 83- Almansour M, Sajti L, Melhem. W. and **Jarrar B.** (2016). Ultrastructural hepatocytic alterations induced by silver nanoparticle toxicity. *Ultrastructural Pathology*, 40(2):92-100. <http://dx.doi.org/10.3109/01913123.2016.115037>
- 84- Almansour M, Jarrar Q, Battah A, Obeidat F , Khairat Battah K , **Jarrar B.** (2016). Renal histopathological alterations induced by nanosilver toxicity: the size effect. *IET Micro and Nano Letters*, 11(12):862-865.
- 85- Almansour, MI; Alfara MA and **Jarrar B.** (2016). Protective role of propolis against histological alterations in the renal tissues induced by gold nanoparticles. *ScienceAsia*, 42:340-345.
- 86- Almansour MI, and **Jarrar B.** (2017). Protective effect of propolis against



pulmonary histological alterations induced by 10 nm naked gold nanoparticles.

*Chiang Mai J. of Science*, 44(2):449-461

87- Almansour M, Alfara MA, Ziad Shreideh and **Jarrar B.** (2017). Zinc oxide nanoparticles hepatotoxicity: Histological and histochemical study. *Environmental Toxicology and Pharmacology*, 51:124-130.

S1382-6689(17)30046-7. doi:10.1016/j.etap.2017.02.015

88- Almansour M, Jarrar Q, Battah A, **Jarrar B.** (2017). Histomorphometric Alterations Induced in the Testicular Tissues by Variable Sizes of Silver Nanoparticles. *Journal of Reproductive Medicine*, 62(3):317-323.

89- Almansour M, Jarrar, Y. Aloyaidy K, and **Jarrar** vs induced by methotrexate: morphohistopathological study. *International Journal of Morphology*, 35(2): 756-764.

90- Almansour M, Alarifi S, and **Jarrar B.** (2018). In vivo investigation on the chronic hepatotoxicity induced by intraperitoneal administration of 10 nm silicon dioxide nanoparticles. *International J. Nanomedicine*, 13:1-12.

91- Almansour M, Jarrar Y. and **Jarrar B.** (2018). In vivo investigation on the chronic hepatotoxicity induced by sertraline. *Environmental Toxicology and Pharmacology*, 61:107-115.

92- Almansour M, Alarifi S, Walid Melhim and **Jarrar B.** (2019). Nephron ultrastructural alterations induced by zinc oxide nanoparticles: An electron microscopic study. *IET Nanobiotechnology*, 13(5), 515-521

93- Jarrar B. (2019). Diseases caused by pollutants emitted from road transport. *Scientific Reseach Journal-Jordan Society for Scientific Research*, 2019, 11:65-77.

94- Al-Doaiss A, Ali D., Ali B, **Jarrar B.** (2019). Renal Histological Alterations Induced by Acute Exposure of Titanium Dioxide Nanoparticles. *International*

*Journal of Morphology*, 37(3): 1049-1057

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**96-** Al-Doaiss A., Jarrar Q., Alshehri M. and **Jarrar B.** (2020). In vivo study of silver nanomaterials'toxicity with respect to size. *Toxicology and Industrial Health*, 36(8):540-577

97- Al-Doaiss A , Jarrar Y , Shati A, Alfaifi M, Mohammed Al-Kahtani M , **Jarrar B.** (2021). Renal Alterations Induced by Chronic Exposure to Therapeutic Doses of Antihypercholesteremic Atorvastatin. *Endocr Metab Immune Disord Drug Target*:5

98- Al-Doaiss A , **Jarrar B**, Shati A, Alfaifi M, Mohammed Al-Kahtani M , (2021). Cardiac and testicular alterations induced by acute exposure to titanium dioxide nanoparticles: Histopathological study. *IET Nanobiotechnology*, 15(1):58-67.

99- **Jarrar B**, Al-Doaiss A , Shati A, Alfaifi M, Mohammed Al-Kahtani M , Jarrar Q. (2021). Behavioral alterations induced by chronic exposure to 10 nm silicon dioxide nanoparticles. *IET Nanobiotechnology*. 15(2): 221-235.

100 - Amin Al-Doaiss, Yazun Jarrar, Ali Shati, Mohammad Alfaifi, Mohammed Al-Kahtani, Serag Aldein Albeheri, Qais Jarrar, **Bashir Jarrar** (2021). Renal alterations induced by chronic exposure to therapeutic doses of antihypercholesteremic atorvastatin. *Endocrine, Metabolic & Immune Disorders – Drug Targets*:21: 2043-2054

101- Al-Ruwaili M, **Jarrar B**, Jarrar Q, Al-Doaiss A, Alshehri M, Melhem W. Renal ultrastructural damage induced by chronic exposure to copper oxide

nanomaterials: Electron microscopy study. *Toxicol Ind Health*. 2022 38(2):80-91.

102- **Bashir Jarrar**, Mohammed Abu-Shqueir, Yazun Jarrar, Qais Jarrar (2022). Knowledge and Awareness of Viral Diseases among University Students in Jordan: Spring 2020. *Jordan Medical Journal*, Volume 56, No.4 2022 DOI: <https://doi.org/10.35516/jmj.v56i4.469>

103 – Jarrar Q, Al-Doaiss A, **Jarrar BM**, Alshehri M. (2022). On the toxicity of gold nanoparticles: Histological, histochemical and ultrastructural alterations. *Toxicol Ind Health*, 38(12):789-800. doi: 10.1177/07482337221133881. PMID: 36253334.

104- O Alkhawaldeh, Y Jarrar, M Gharaibeh, S Abudahab, D Abulebdah, B Jarrar (2023) Alterations in the gene expression of SARS-COV-2 entry receptors and enzymes in lungs and hearts of controlled and uncontrolled diabetic mice. *Fundamental & Clinical Pharmacology*

105- Q Jarrar, M Almansour, B Jarrar, A Al-Doaiss, A Shati (2023). Hepatic ultrastructural alterations induced by copper oxide nanoparticles: In vivo electron microscopy study. *Toxicology and Industrial Health* 39 (11), 651-663

106 – Alruwaili M, **Jarrar B**, Jarrar Q, Alruwaili M, Goh K, Moshawih S, Ardianto C, Ming L. (2023). Hydroxychloroquine toxicity in the vital organs of the body: In vivo study. *Frontiers in Bioscience-Landmark*, 28(7): 137 DOI: 10.31083/j.fbl2807137

107 – Makableh y, Jarrar B, and Shdiefat a. (2023). Toxicity assessment of perovskite nanocomposites: In vivo study. *Toxicology and Industrial Health* 40(3). <https://doi.org/10.1177/07482337231224512>

108 – Jarrar B, Almoekel N, Meriene J. 2023. Dust fall and suspended particulates in Skaka City of Saudi Arabia. *Jerash Journal for Research and Studies* 24(1): 30-64.

109 – Almansour m, Jarrar B, Faye B, Al-Doaiss and Meriene J. (2024). The Salivary Glands of the Camel: An Element of Adaptation to Desert Conditions and Mitigation of Climate Change Impacts. *Jordan Journal of Biological Sciences*, 17(1): 99-108.

110 - Jarrar, Q., Almansour, M., Jarrar, B., Al-Doaiss, A., & Shati, A. (2023). Hepatic ultrastructural alterations induced by copper oxide nanoparticles: In vivo electron microscopy study. *Toxicology and industrial health*, 39(11), 651–663. <https://doi.org/10.1177/07482337231205921>

111- Sewelam A, Kabil S, Jarrar B, Sabry M, Morsy M. (2024). *Lycium barbarum* Polysaccharide Attenuates Acute Toxicity Caused by Titanium Dioxide Nanoparticles in

Splenic and Pulmonary Tissues. *Pharmaceutical Sciences* 30(3): 339-354.

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112- Jarrar, B., Almansour, M., Al-Doaiss, A., Lee, S. Y., Melhem, W., Jarrar, Q., & Sewelam, A. (2024). Metallic and metallic oxide nanoparticles toxicity primarily targets the mitochondria of hepatocytes and renal cells. *Toxicology and industrial health*, 40(12), 667–678. <https://doi.org/10.1177/07482337241282860>

113- Jarrar, Bashir, Almansour, Mansour, Jarrar, Qais, Al-Doaiss, Amin, Lee, Shiou Yih and Boudemagh, Djalila. "Toxicity assessment of copper oxide nanoparticles: *In vivo* study" *Nanotechnology Reviews*, vol. 13, no. 1, 2024, pp. 20240122. <https://doi.org/10.1515/ntrev-2024-0122>

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### Scientific Articles

- 1-Taib, N.T. and **Jarrar**, B.M. (1998). Histochemistry: A historical review. *Saudi Chemical Society Bulletin*: 33-34
- 2- Taib, N.T. and **Jarrar**, B.M. (2001). Immunohistochemistry. *Saudi Chemical Society Bulletin*, 14:14-15
- 3- Taib, N.T. and **Jarrar**, B.M. (2001). Urine chemistry. *Saudi Chemical Society Bulletin* 15:20-21
- 4- **Jarrar**, B.M. and Taib, N.T. (2002). Semen chemistry. *Saudi Chemical Society Bulletin*. 16:
- 5- **Jarrar**, B.M and Taib, N.T. (2002). Indoor Pollution. *Saudi Chemical Society Bulletin* 17:50-53
- 6- **Jarrar**, B.M. (2002). Some carcinogenic environmental pollutants.

*Saudi Chemical Society Bulletin*, 18:22-24

- 7- **Jarrar**, B.M. ( 2003). Chemical additives to chips. *Saudi Chemical Society Bulletin*. 20:40-41
- 8- **Jarrar**, B.M. (2003). Chemistry of renal calculi. *Al-Khaffi*, 33(3):10-13
- 9- **Jarrar**, B.M. (2003). Chemistry of the gallstone. *Kuwait Chemical Society Bulletin*, 52: 24-27
- 10- **Jarrar**, B.M. (2003). Air pollution and biodiversity. *Saudi Biological Bulletin (Alhaya)*, 5: 24-25
- 11- **Jarrar**, B.M. (2004). Terminology in DNA. *Saudi Chemical Society Bulletin*. 22:35
- 11- **Jarrar**, B.M. (2004). Sewage and environmental health. *Al-Jouf*, 131:44-45
- 12- **Jarrar**, B.M. (2004). Reading in the Saudi environmental measures. *Al-Khaffi*, 34(8):14-20
- 13- **Jarrar**, B.M. (2004). Fast food and responsibility of the deterioration of the human health. *Al-Khaffi*, 34(10): 44-45
- 14- **Jarrar**, B.M. (2005). Sources and risks of chemical indoor pollutants. *Kuwait Chemical Society Bulletin*, 58: 20-23
- 15- **Jarrar**, B.M. (2005). Silicon implant: Beauty and health risk. *Saudi Chemical Society Bulletin*. 24:38-39
- 16- **Jarrar**, B.M.(2006). Indoor pollution sickness. *Aljoba Magazine*, 65-67
- 17- **Jarrar**, B.M. (2006). Chemistry of bioterrorism. *Saudi Chemical Society Bulletin*. 25:48-50
- 18- **Jarrar**, B.M. (2007). White phosphorus and environmental health.

*Saudi Chemical Society Bulletin*. 26:56-57

- 19- Jarrar**, B.M. (2007). Soft drinks and health. *Aljoba Magazine*, 16:54-55
- 20- Jarrar**, B.M. (2007). Histochemistry education in the arab universities. *Chemistry Education*. 6:24-26
- 21- Jarrar**, B.M. (2008). Risks on health induced by microwave cooking. *Al-Khafji*, 38(8):14-20
- 22- Jarrar**, B.M. (2008). Prostate calculi. *Al-Khafji*, 38(12):22-23
- 23- Jarrar**, B.M. ( 2008). Environmental chemistry. *Chemistry Education*. 7:26-28
- 24- Jarrar**, B.M. (2009). Indoor Radon . *Al-Khafji*, 39(2):6-7
- 25- Jarrar**, B.M. (2009). Dust and health. *Nokoosh magazine*, 1: 94
- 26- Jarrar**, B.M. (2009). Wolf in Arabian heritage. *Al-Khafji*, 39(5): 4-5
- 27- Jarrar**, B.M. (2009). Enteritis and summer vacation . *Al-Khafji*, 39(9):42-43
- 28- Jarrar**, B.M. (2010). Domate Aljandal lake. *Nokoosh magazine*,
- 29- Jarrar**, B.M. (2010). Phenylketonuria. *Al-Khafji*, 40(11): 72-73
- 30- Jarrar**, B.M. (2010). Rare calculi. *Medical Arabization*, 29: 71-73

### Conferences

- 1- Title: **The international Scientific Conference On Camels**
- Date: 9-11/5/2006
- Place: Qassim University

Mode of participation: Scientific paper: " Renal Phosphatase histochemistry in the nephrons of the Dromedary Camel, *Camelus Dromedarius*"

- 2- Title: **The second conference for planning and development of education and scientific research in Arab countries**

Date: 24-27/2/2008

Place: King Fahad University

Mode of participation: Attendance

- 3- Title: **Scientific Publication in Saudi Arabia**

Date: 19-21/3/2001

Place: King Saud University

Mode of participation: Scientific paper: "From a Private Experience on Scientific Publication in Saudi Arabia"

- 4- Title: **Indoor Chemicals**

Date: 16-17/12/2003

Place: King Saud University

Mode of participation: Attendance

- 5- Title: **Biological Terrorism**

Date: 7-9/3/2005

Place: Naif Arab University For Security Sciences

Mode of participation: a- Scientific paper: " Biological Weapon Development"

b- Heading one session of the symposium

- 6- Title: **2011 International Symposium Forum of Biotechnology and Medical Industry**

Date: 23-25/5/2011

Place: Shijiazhuang, Hebei Province, China

Mode of participation: - Scientific paper: " Histological  
Alterations in the testicular tissue induced by  
sildenafil overdoses"

7- Title: **Symposium on Environmental Pollutants: Analysis and control**

Date: 26-28/9/2011

Place: Taibah University

Mode of participation: Scientific paper: " Environmental  
pressures on Domate Al-Jandal Lake of Al-Jouf Province, Saudi Arabia"

8- Title: **TM's Ist World Drug Discovery Online Conference**

Date: 20-22/10/2011

Place: Online

Mode of participation: Speaker- Presentation a scientific paper:  
"Alterations in the hepatic tissue induced by sertraline overdoses"

9- Title: **The Eighth Environmental Symposium of German-Arab  
Scientific Forum for Environmental Studies.**

Date: 8-9/10/2018

Place: The University of Jordan

Mode of participation: Speaker- Presentation a scientific paper:  
"Environmental Study on the Biodiversity of Domate Aljandal  
Lake of Saudi Arabia"

10- Title: **Third Adumato Conference Program**

**"Water Through Ages in the Arab World in the Light of  
Archaeological Excavations"**

Date: 13-14/10/2018



Place: The Jordan Museum

Mode of participation: : Attendance

**11- Title: The Eighth Scientific Agricultural Conference ESAC-2018.**

Date: 15-17/10/2018

Place: Mutah University

Mode of participation: Speaker- Presentation a scientific paper:  
"Physico-Chemical Characterization of Domate Aljandal  
Lake of Saudi Arabia"

**Committees**

- Member in the **Scientific council**, Al-Jouf University (2010-2014)
- Member in the **Scientific Research Committee**, Al-Jouf University (2006-2012).
- Member in the **Promotion Committee** Al-Jouf University.
- Member in the committee of Al-Jouf University in "**Olive Festival**" which is held annually in Al-Jouf Province.
- Member in the committee for evaluation of the research work presented at the **Scientific Research week** which is held annually at Al-Jouf University.
- Supervisor of **the Electron Microscope Unit**, College of Applied Medical Sciences.
- Supervisor of **the Animal House**, College of Applied Medical Sciences.
- Supervisor **of the Central Laboratory**, College of Applied Medical Sciences.
- Coordination of the research work of the **Student Research** course (CLS 452).
- Coordinator of the **Academic Advice Committee**, College of Applied

Medical Sciences.

- Coordinator of the **Scientific Research Committee**, College of Applied Medical Sciences.

### **International Participation**

1- Member since April, 2007 in the **International of the Scorpion Consensus Expert Group** which includes sixteen experts from sixteen countries (16/16).

### **VIVA Examiner and Dissertation Supervision**

1- **External Examiner** of the Viva of the MSC thesis, University Faisal university, College of Science, Dept. of Zoology, Girls Colleges in Eastern Province. Presented by Miss Nouf Khalifa Al-Akeil.

**Thesis title:** " Histomorphometric study on the effect of hydroquinone on melanocytes and Langerhans cells "

**March, 2009.**

2- **External Examiner** of the Ph.D thesis, King Saud University, College of Science, Dept. of Zoology,. Presented by Msaed Al-Fara.

**Thesis title:** Histochemical alterations induced by lead in the liver and kidney of male rats and the protective role of ascorbic acid "

**May 2010**

3- **External Examiner and dissertation supervision** of the M. Sc thesis, King Saud University, College of Science, Dept. of Zoology. Presented by Abdulla M. Aal-Edan.

**Thesis title:**" Histological and functional Alterations induced by lead in the liver and kidney of chicken, *Gallus gallus domesticus*"

### **June, 2011**

- 4- **External Examiner** of the Viva of the MSC thesis, Taibah University, College of Science, Dept. of Biology. Presented by Miss Nahed Al-Maneh. **Thesis title:** " Pulmonary tissue response in guinea pig *Cavia porcellus* exposed to exhaust diesel gases (a histological and histochemical study) ".

### **September, 2011.**

- 5- **External Examiner** of the Viva of the PhD thesis, King Saud University, College of Science, Zoology Department. Presented by Mr. Amin Al-Doaiss.

**Thesis title:** " Histological, histochemical and ultrastructural alterations induced by statins therapeutic doses ".

### **April, 2013.**

- 6- **External Examiner** of the Viva of the B.Sc. thesis, King Saud University, College of Science, Zoology Department. Presented by Mr. Dawi Z. Al-Dajani.

**Thesis title:** " Can Lead Exposure Cessation Normalize Histological and Histochemical Alterations Induced in the Liver and Kidneys of *Columba livia* ".

### **Manuscript Reviewer**

- Reviewer for:
  - 1- Saudi Journal of Biological Sciences
  - 2- Saudi Medical Journal
  - 3- Journal Royal Medical Services
  - 4- African Journal of Microbiology

- 5- Journal of Medicinal Plant Research
- 6- Journal of Taibah University
- 7- Naturwissenschaften (The Science of Nature)
- 8- Pakistan Journal of pharmaceutical Sciences
- 9- International Journal of Biochemistry Research and Review
- 10- International Journal of Nanomedicine
- 11- IET Nanobiotechnology
- 12- Jordan Journal of Biological Sciences
- 13- Journal of Hazardous Materials

#### **Editorial Team Member**

- 1- Journal of Medical Case Studies – Academic Journals (2009)
- 2- Nanoparticles Journal (2019)

#### **Scientific Societies Membership**

- American Chemical Society (membership code 131WAC033)
- Saudi Biological Society

#### **Cooperation with local research institutions**

Cooperation with Camel and Range Research Center- Al-Jouf Province in different aspects of joint research.

#### **National Olympiad for Scientific Creativity Examiner:**

Examiner for Olympiad for Scientific Creativity for 5 years started in 2010 which is held regularly in Aljouf Province of Saudi Arabia.

## **Workshops**

**1- Title: Strategic Planning in Academic Institutions**

Date: 3-4/5/1428AH

Place: Al-Jouf University

Mode of participation: Attendance

**2- Title: Education Administration - Josor**

Date: 6/11/1429AH

Place: Al-Jouf University (By National Center of Electric Education)

Mode of participation: Attendance

**3- Title: Self Assessment and Peers Assessment**

Date: 9-10/5/2009

Place: Al-Jouf University (By Umm Al-Qura University)

Mode of participation: Attendance

**4- Title: Institutional Mission and its Relation to Accreditation in High Education**

Date: 13/5/2009

Place: Al-Jouf University

Mode of participation: Attendance

**5- Title: Transmission Electron Microscope Training**

Date: 28-30/5/2009

Place: Al-Jouf University (By Al-Qusaibi Company)

Mode of participation: Attendance

6- Title: **Theoretical Foundations for Educational  
Assessment Based on Learner**

Date: 1/6/2009

Place: Al-Jouf University ( By Umm Al-Qora University)

Mode of participation: Attendance

7- Title: **Education evaluation by Rubrics**

Date: 2-3/6/2009

Place: Al-Jouf University (By Ministry of High Education)

Mode of participation: Attendance

8- Title: **Education evaluation by Portfolio**

Date: 6-8/6/2009

Place: Al-Jouf University (By Umm Al-Qura University)

Mode of participation: Attendance

9- Title: **Training Course of Transmission Electron  
Microscope**

JEM-1011/CCD Camera

Date: 28/6/2009 - 2/7/2009

Place: JEOL LTD, Tokyo-Japan

Mode of participation: Attendance

10- Title: **Training Course of Leica Microsystems**

Date: 21-23/2/2010

Place: Al-Jouf University

Mode of participation: Attendance

11- Title: **Joint cooperation between Al-Jouf university and  
the Institute of Environment and Agriculture – Tskopa  
University -Japan**

Date: 17/4/2011

Place: Al-Jouf University

Mode of participation: Attendance

12- **Title:** International Conference of Chemistry and Bioscience

**Date:** April 5-6, 2017

**Organizer:** Egyptian Society for Cytology and Histology

**Mode of participation:** Oral talk: Physical, chemical and biological characterization of total suspended particulates and dust fall at Skaka city of Saudi Arabia

13- **Title:** **The Eighth Environmental Symposium of German-Arab Scientific Forum for Environmental Studies.**

**Date:** 8-9/10/2018

**Place:** The University of Jordan

**Mode of participation:** Speaker- Presentation a scientific paper: "Environmental Study on the Biodiversity of Domate Aljandal Lake of Saudi Arabia"

14- **Title:** **Third Adumato Conference Program**

**"Water Through Ages in the Arab World in the Light of Archaeological Excavations"**

**Date:** 13-14/10/2018

**Place:** The Jordan Museum

**Mode of participation:** Attendance

15- **Title:** **The Eighth Scientific Agricultural Conference ESAC-2018.**

**Date:** 15-17/10/2018

**Place:** Mutah University

Mode of participation: Speaker- Presentation a scientific paper:  
"Physico-Chemical Characterization of Domate Aljandal  
Lake of Saudi Arabia"

16- **Title:** The 42<sup>th</sup> annual conference of Egyptian Society for Cytology and Histology – Nanoparticles Benefits and Hazards.

**Date:** December, 2018

**Organizer:** Egyptian Society for Cytology and Histology

**Place:** Ain Shams University

**Mode of participation:** Oral talk: On the toxicity of silver nanoparticles

17- **Title:** Jordan-European Union Higher Education  
Reagional Day Cooperation

**Date:** October 8, 2019

**Place:** Al-Bayt University

**Organizer:** Erasmus+

**Mode of participation:** Attendance

18- **Title:** Al-Zaytoonah University of Jordan and The University of Toledo  
Seventh International Pharmaceutical Conference (ZTIPC 2019)

**Date:** November 6-7, 2019

**Organizer:** Al-Zaytoonah University of Jordan and The  
University of Toledo

**Mode of participation:** Posters (n=2)

19- **Title:** Building New Bridges Together: Strengthening Ethics in Higher Education after COVID-19

**Date:** June 25-26,2020

**Organizer:** Globethics



**Mode of participation:** Attendance

20- **Title:** Biodiversity

**Date:** September 9, 2020

**Organizer:** Abdelrahman Al-Sudairy Cultural Center

**Mode of participation:** Presentation- Biodiversity of domate  
Aljandal Lake

21- **Title:** Climate Change Network Conference

**Date:** September 26-27, 2020

**Organizer:** Green Economic Institute (GEI)

**Mode of participation:** Speaker-Presentation: On the climate  
change Impacts in Jordan

22- **Title:** The 44<sup>th</sup> annual conference of Egyptian Society for Cytology and  
Histology - Cell Intelligence Against Covid-19.

**Date:** December 7, 2020

**Organizer:** Egyptian Society for Cytology and Histology

**Mode of participation:** Oral talk: Renal Histological and  
Ultrastructural Alterations Induced by the Toxicity of 10 nm  
Copper Oxide Nanoparticles

23- **Title:** Scientific Research Funding.

**Date:** December 17, 2020

**Place:** Abdelhameed Showman Establishment

**Mode of participation:** Attendance

24- **Title:** Impacts of Climate Change in Human Rights.

**Date:** December 12, 2020

**Organizer:** Green Economy, Morocco

**Mode of participation:** Attendance

25- **Title:** Jordan Nanosymposium 2021.

**Date:** 13-16 March, 2021

**Organizer:** The University of Jordan

**Mode of participation:** Presentation: Nanotoxicity Horizons

المؤتمرات للعام الدراس ٢٠٢٢/٢٠٢٣ م	
<ul style="list-style-type: none"><li>- المحفل العلمي الدولي الحادي عشر (أريد) (١١-١٢/١١/٢٢م)</li><li>- مؤتمر الجامعات الماليزية (٨-٩/١/٢٣م)</li><li>- الملتقى العلمي التخصصي في العلاج الطبيعي - جامعة الزيتونة (٢٢/١/٢٣م)</li><li>- مؤتمر المنظمة الجزائرية لهندسة الطاقة (١٤-١٦/٤/٢٣م)</li><li>- مؤتمر الكيمياء الخضراء - جامعة الأغواط، الجزائر (١٣/٥/٢٣م)</li><li>- المؤتمر الدولي للمواد المتقدمة - جامعة العلوم والتكنولوجيا الأردنية (٢٢-٢٤/٥/٢٣م)</li><li>- المؤتمر الدولي للميكانيكا الحيوية - الجمعية العربية للميكانيكا الحيوية في الرياضة (١٩/٦/٢٣م)</li><li>- المؤتمر الإقتصادي التاسع - الجمعية الأردنية للبحث العلمي والإبتكار والريادة (١٩/٨/٢٣م)</li><li>- المؤتمر الدولي الأول في البحث العلمي - جامعة جرش (٢٣-٢٤/٨/٢٣م)</li></ul>	

المؤتمرات للعام الدراس ٢٠٢٣/٢٠٢٤ م	
<ul style="list-style-type: none"><li>- Attendance and participation in “BIOTECHNOLOGY FOR FOOD SECURITY” conference held at Jerash university for two days (April 23-24, 2024).</li><li><b>Presentation:</b> “Nanobiotechnology for Food Security”</li><li>- Participation in “<b>Talents of China Tech Tour Program</b>” for 9</li></ul>	

days (May 4–13, 2024), which was organized by INNO–APAC company.

**Presentation:** Two lectures

**1** – “Exploring Nanotoxicity: A Case Study of Copper Oxide Nanoparticles”

**2**–“Nanofood: Produce More with Less and More Effective”

– Workshop titled “Ships of the Deseret” organized by the National Agriculture Research Center as part of the world celebration by the “International Year of Camelids 2024for two days May 16–17, 2024.

– Libya International Conference for Industry and Technology, May 2–22, 2024.

Presentation: “Nanofood: Produce More with Less and More Effective.

- Conference of the Arab Society of Biomechanics in sports, Amman, July 5–6, 2024