

Curriculum Vitae

Personal Information

Prof. Bashir M. Jarrar

Date of Birth: June 12, 1954

Place of Birth: Jenin

Academic Rank: Professor

Faculty / Dept: Biology/Science

Mobile : 00962786467951

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Major: **Biological Sciences**

Minor: **Histocytotechnology and Nanotoxicity**

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

MSc Thesis: Incidence and accumulation of aflatoxins in animal tissues

Authorship

| | |
|--------------------------|-------|
| Books | 37 |
| Research Papers | 99 |
| Scientific Articles | 52 |
| Funded Research Projects | 16 |
| H-index | 18 |
| i 10-index | 31 |
| Citation | 1296 |
| Research Gate index | 26.97 |
| Readers | 15152 |

Employment Record

Current Positions: Teaching Staff

Biology Department

College of Science

Jerash University

Previous Positions Held

1- Full Professor

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)
- Nanobiology
 - Histology
 - Histotechnology
- Independent Study
 - Electron microscopy
 - Histocytotechnology (Microtechnique)
(Health College Students –Riyadh, Ministry of Health)
 - Cytopathology
 - Medical laboratory Terminology
 - Laboratory Technology
(Urine, stool, blood, calculi and semen analysis,)
- Poisonous Animals
- Environmental Pollution
- 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-Qaily, 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 Thaqqif 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 Aljouf 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

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 mucosubstances 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*.18:231-238
- 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, N.T. ; Mubarak, M. and **Jarrar**, B.M. (2006). Ultrastructural alterations of peripheral blood lymphocytes of white rats (*Rattus norvegicus*) exposed to lead. *International Journal of Zoological Research*, 2(4):
- 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 ncluding 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, karyorrhesis 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. *Ciencia 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 B.** (2017). Ameliorative effect of propolis against hepatorenal alterations 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
- 95-** Jarrara Y, Al-Doaiss A, Alfaifi M., Shati A., Al-Kahtani M., **Jarrar B.** (2020). The influence of five metallic nanoparticles on the expression of major drugmetabolizing enzyme genes with correlation of inflammation in mouse livers. *Environmental Toxicology and Pharmacology*, 80: 103449
- 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- Al-Doaiss A, Shati A, Alfaifi M, Mohammed Al-Kahtani M, Jarrar Q, **Jarrar B.** (2021). Behavioral alterations induced by chronic exposure to 10 nm silicon dioxide nanoparticles. *IET Nanobiotechnology*. Accepted for Publication.

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 humans 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: Beuty 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-Khaffi*, 38(8):14-20
- 22- **Jarrar**, B.M. (2008). Prostate calculi. *Al-Khaffi*, 38(12):22-23
- 23- **Jarrar**, B.M. (2008). Environmental chemistry. *Chemistry Education*. 7:26-28
- 24- **Jarrar**, B.M. (2009). Indoor Radon . *Al-Khaffi*, 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-Khaffi*, 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). Phenyketonuria. *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 Advise 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 42th 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

Regional 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 44th 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