

CURRICULUM VITAE

Shreen D. Nusair



Associate Professor, Clinical Pharmacy Department,
Faculty of Pharmacy, Jordan University of Science and Technology
P. O. Box 3030, Irbid 22110, JORDAN

Phone: +962 (2) 720 1000 Ext: 26173

Fax: +962 (2) 720 1075

E-mail: sdnusair@just.edu.jo

Marital status: Married / Two children

Nationality: Jordanian

Languages: English/Arabic (Fluent)

EDUCATION AND EXPERIENCE PROFILE

EDUCATION

Ph.D., Toxicology and Forensic Science, University of Western Australia, Perth, Australia, 2014.

Dissertation: "*Polyclonal Antibodies in Livestock for Treatment of Ingested Toxin in Human.*"

M.S., Analytical Toxicology, University of Jordan, Amman, Jordan, 2006.

Dissertation: "*8-Hydroxy-2-Deoxyguanosine (8-OHdg) As an Indicator for Environmental Toxicity.*"

B.S., Veterinary Medicine and Surgery, Jordan University of Science and Technology (JUST), Irbid, Jordan, 2002.

ACADEMIC POSITIONS

Associate Professor:

Clinical Pharmacy Department, JUST, Jordan, July 2019 - Present

Faculty of Pharmacy, JUST, Jordan, July 2019- present

Assistant Professor:

Clinical Pharmacy Department, JUST, Jordan, Sep 2016 – June 2019

Assistant Professor:

Faculty of Pharmacy, JUST, Jordan, Apr 2014- Aug 2016

Full-Time Lecturer:

Applied Biological Sciences Department, JUST, Jordan, Sep 2012- Jun 2014

Teaching Assistant:

Applied Biological Sciences Department, JUST, Jordan, Feb 2007- Jan 2008

PROFESSIONAL EXPERIENCE

Student Officer/Forensic Toxicology- Doping test of Racing Dogs- ChemCentre- Curtin University-Perth, Australia, Nov 2009 – Mar 2010

Research Assistant, Toxicology Laboratory, Princess Haya Biotechnology Center (PHBC), Jordan, Jan 2007 – Feb 2007

Research Assistant, Pathology Laboratory, Jordan University of Science and Technology, Jordan, Mar 2004 – May 2005

Research Assistant, Microbiology Laboratory, Jordan University of Science and Technology, Jordan, Sep 2004 – Feb 2005

Veterinarian, Private Pet Clinic, Amman, Jordan, Jul 2002 – Aug 2003

ACADEMIC AND TEACHING PROFILE**TEACHING ACTIVITIES**

- Toxicology (Faculty of Pharmacy)
- Analytical Toxicology (Master Program-Faculty of Medicine)
- Toxicology (Faculty of Science)
- Analytical Toxicology (Faculty of Science)
- Clinical Seminar (Pharm. D)
- Introduction To Toxicology (Master Program-Faculty of Medicine)
- Clinical Training: Pharmaceutical Research (Pharm. D)
- Clinical Training: Clinical Pharmaceutical Research (Master Program-Pharm. D)
- Drug Literature Evaluation Lab (Pharm. D)
- Ethics And Pharmacy Practice (Faculty of Pharmacy)
- Scientific Writing and Research Ethics (Master Program-Pharm. D)

- Immunology and Vaccines (Pharm. D)
- Immunology & Serology (Lab)
- Forensic Chemistry (Faculty of Science)
- Forensic Microscopy (Faculty of Science)
- General Biology (Faculty of Science)
- Immunology & Serology (Faculty of Science)
- Advanced Immunology & Serology (Master Program- Biology)
- Introduction To Criminalistic (Faculty of Science)
- Introduction To Forensic Science (Master Program-Faculty of Medicine)
- Laboratory Management (Faculty of Science)
- Non-Prescription Pharmaceuticals (Faculty of Pharmacy)
- Scientific Writing and Presentation (Faculty of Pharmacy)
- Selected Topics (2)
- Selected Topics in Forensic Sciences (B)
- Selected Topics in Forensic Sciences (C)
- Technical Writing in Forensic Science

ADMINISTRATIVE AND ACADEMIC/PROFESSIONAL ACTIVITIES

- Head of **Scientific Research committee** at Department of Clinical Pharmacy, Faculty of Pharmacy, JUST, Oct 2023-present.
- Member (MC Observer of the COMET association) of **European Cooperation in Science and Technology (COST)**, Sep 2018 – Present.
- Member of the **Association of Jordanian Women Academics**, Jordan, Jan 2017 – Present.
- Poster evaluator of the **5th International Pharmacy Conference “Multidisciplinary Pharmaceutical Research”** May 31st – June 1st, 2023, Irbid, Jordan.

- Head of **Student Learning and Curricular Improvement committee** at Faculty of Pharmacy, JUST, Oct 2023-Present.
- Member of **American, Malaysian and National Accreditation Program Monitoring, Review and Continuity Improvement committee** at Faculty of Pharmacy, JUST, Oct 2023-Present.
- Member of **Student Issues committee** at Faculty of Pharmacy, JUST, Oct 2021-Present.
- Member of **ACPE committee** at Faculty of Pharmacy, JUST, Oct 2023-Present.
- Member in 26 **Thesis examination committees**, 2014-present.
- Member of **Students with Special Needs** at Faculty of Pharmacy, JUST, Oct 2021-2023.
- Member of **Scientific Research committee** at Faculty of Pharmacy, JUST, Oct 2021-2022.
- Member of **Peer evaluation committee** at Faculty of Pharmacy, JUST, Oct 2020- Sep 2021.
- Member in the **Association of Veterinary Medicine** Jul 2002 – Present
- Member of the **Scientific Committee of Narcotic Drugs and Psychotropic Substances**, Jordan, Nov 2017 – Present
- Member of the Scientific Research Committee, Faculty of Pharmacy, JUST, Sep 2017 – Aug 2018
- Member of the **Laboratories and Supplies Committee**, Faculty of Pharmacy, JUST, Oct 2017 – Sep 2020
- Member of the **Public Safety Committee**, Faculty of Pharmacy, JUST, Oct 2017 – Sep 2021
- Member of a special **committee for the evaluation and development of courses in Biochemistry, Immunology and Toxicology**, Faculty of Pharmacy, JUST, Oct 2016 – Jan 2017
- Participant of **Faculty for Factory (FFF) program**, Jordan, Nov 2016 – May 2017
- Speaker of the Second **Conference of Jordanian Medical Colleges** and the 3rd Conference of the Arab Medical College, Jordan, 12 & 13 Apr 2006

- Member of **Promotion Committee** at Faculty of Science and Arts, JUST, Jan 2016
- Participant in “**Women Innovators in Charge!**”, **USAID**, Short listed for the design of a filter detector for the synthetic Cannabis JWH018, May – Jun 2016
- Manuscript **Reviewer at Journal of Exposure & Health**, July-Sep 2023
- Manuscript **Reviewer at Journal of Research in Pharmacy**, July-Oct 2023
- Manuscript **Reviewer at Chemosphere**, May-Sep 2022 & Jan 2023
- Manuscript **Reviewer at Therapeutics and Clinical Risk Management**, Jun-Dec 2022
- Manuscript **Reviewer at Journal of Environmental Science and Pollution Research**, 2020-2022.
- Manuscript **Reviewer at Asian Pacific Journal of Tropical Biomedicine**, 2021-present.
- Manuscript **Reviewer at Human and Experimental Toxicology**, Jan 2019 & Nov 2018
- Manuscript **Reviewer at Toxicon**, Jan 2019 & Nov 2018
- Two Posters for conference "**Recent Trends in Pharmacy Between Science and Industry**", Faculty of Pharmacy, Yarmouk University, Jordan, 22-23 Nov 2017
- Manuscript **Reviewer at Mutation Research - Genetic Toxicology and Environmental Mutagenesis**, Dec 2018
- Manuscript **Reviewer at Australian Journal of Forensic Sciences**, 2019

RESEARCH AND PUBLICATIONS PROFILE

RESEARCH INTERESTS

- Toxicity (Environmental, Forensic, *In vivo*, and *In vitro*)
- Pollution and Oxidative Biomarkers
- Organ Toxicity (Cardiotoxicity, Genotoxicity, Renal/hepatic toxicity, Immunotoxicity, and neurotoxicity) and potential therapies

- Molecular Toxicology
- Antitoxic Effect of Plant Extracts
- Analytical Toxicology and Risk assessment
- Toxicokinetic and Toxicodynamic
- Toxins Mechanism of Action
- Envenomation and Herbal Therapy
- Autism and Environmental Pollution

RESEARCH FUNDINGS

Project Title	Year	Granted by: (Amount)
The Investigation of The Impact Of Toxic Doses Of The Antipsychotic Drug Chlorpromazine On The Development Of Red-Tailed Flesh Fly <i>Sarcophaga haemorrhoidalis</i> Native To Jordan And Possible Utilizations In Estimation Of Death Time For Legal Investigations	2015	JUST: 6,500\$
Local Earthworms as A Bio-indicator Of Environmental Pollution and Toxicity Due to Electronic Waste	2015	JUST: 6,520\$
Genotoxicity In People Environmentally Or Occupationally Exposed To Bromine In The Dead Sea Area	2016	JUST: 6,660\$
Toxicity of synthetic cannabinoid AB CHMINACA known as (Joker) on the reproductive system in male Balb/c mice	2016	JUST: 6,545\$

Death Biomarkers for Estimation of Post Mortem Interval in Corpses Post Decapitation, Suffocation, Euthanasia and Intoxication	2017	JUST: 6,500\$
The Effect Of Chlorpromazine On The Growth Rate Of Native Blowflies (Diptera, Calliphoridae) For Post-Mortem Interval Determination	2017	JUST: 5,900\$
Evaluation of the antagonistic effects of herbal extract of <i>Eryngium creticum</i> Lam (Family: Umbelliferae) against snakebite envenomation by the native Palestine viper (<i>Daboia palaestinae</i>)	2018	JUST: 9,024\$
Early Postmortem Time-Course Of Methomyl Toxicokinetic And Toxicodynamic	2018	JUST: 6,383\$
Renal Failure by Orellanine From The Poisonous Webcap Mushroom <i>Cortinarius orellanus</i> : Mechanism Of Action	2018	JUST: 6,470\$
Effect of parsley leaf extract of <i>Petroselinum crispum</i> in rats poisoned with orellanine from the webcap mushroom <i>Cortinarius orellanus</i>	2018	JUST: 5,006\$
Cardiotoxicity and Genotoxicity of Brominated Vegetable Oil (BVO)	2019	JUST: 8,660\$
Quantification of Aflatoxins in Frequently Consumed Herbal Medicines	2019	JUST: 6,350\$
Endocrine Toxicity of Zinc Oxide Nanoparticles and Antagonistic Effect of Sage extract	2019	JUST: 5,808\$
Immunotoxicity of Ciprofloxacin in Rats and Protective Effect of Vitamin C	2020	JUST: 6,444\$
Neurotoxicity of Zinc Oxide Nanoparticles and Protective Effect of Folic Acid	2020	JUST: 6,500\$
Evaluation of the Effect of Coenzyme Q10 and its Combination with Atorvastatin/ N-acetyl cysteine on	2021	JUST: 9,000\$

Preventing Contrast-induced Kidney Injury in Diabetic Rats		
Exploring the Effects of Edaravone in Rats with Contrast-Induced Acute Kidney Injury	2022	JUST: 6,500\$
A Bioherbicide for Weed Control: Safety and Efficacy Studies	2021-Present	NCRD: 62,500\$
Quantitative Analysis of Gonadal Steroids Hormones and Thyroid Hormones in Serum Samples of Jordanian Children with Autism Spectrum Disorder	2021-2023	JUST: 6,500\$
Quantitation of Amino Acids in Plasma and Urine Samples of Jordanian Children with Autism Spectrum Disorder and their Mothers	2021-2023	JUST: 6,500\$
Long-Term Behavioral Consequences of Neonatal Noxious Stimulation and Sweet Solution Efficacy in Full-Term Neonates, Considering Gender Differences in Pain Response	2022-2023	JUST: 6,500\$
Sucrose administration and noxious stimulation over the initial week in Rat Pups: Long-term behavioral and developmental implications	2022-2023	JUST: 6,500\$
<i>In vitro</i> Investigation of the Protective Effect of Trolox against Ciprofloxacin-Induced Toxicity in Kidneys and Liver	2022-2023	JUST: 6,500\$

JOURNAL PUBLICATIONS "Peer Reviewed" *

1. **Nusair SD**, Abandah B, Al-Share QY, Abu-Qatouseh L, Ahmad M (2023). "Toxicity induced by orellanine from the mushroom *Cortinarius orellanus* in primary renal tubular proximal epithelial cells (RPTEC): Novel mechanisms of action". *Toxicon.*; 235: 107312.
<https://doi.org/10.1016/j.toxicon.2023.107312>

2. **Nusair SD**, E. Hammad and M. A. Y. Alqudah (2023). "Quantification of aflatoxins and health risk assessment through intake of herbal medicine formulations." *Emerging Contaminants*. 9(1): 100206. <https://doi.org/10.1016/j.emcon.2023.100206>
3. El-Elimat, T., Al-Tal, Al-Sawalha, Alsaggar, **Nusair SD**, Al-Qiam, Al Sharie, El Hajji and Hamadneh (2023). *Sumc (Rhus coriaria L.) fruit ameliorates paracetamol-induced hepatotoxicity*. *Food Bioscience*. 52, 102488. <https://doi.org/10.1016/j.fbio.2023.102488>
4. Rashaid A, Alqhazo M, **Nusair SD**, Adams J, Bashtawi M & Al-Fawares O (2023) *Profiling plasma levels of thiamine and histamine in Jordanian children with autism spectrum disorder (ASD): potential biomarkers for evaluation of ASD therapies and diet*, *Nutritional Neuroscience*. <https://doi.org/10.1080/1028415X.2022.2101976>
5. **Nusair SD**, Ananbeh M, Zayed A, Ahmad MI, Qinna NA. *Postmortem sampling time effect on toxicity biomarkers in rats exposed to an acute lethal methomyl dose*. *Toxicology Reports*. 2022;9:1674-80. <https://doi.org/10.1016/j.toxrep.2022.08.010>
6. **Nusair SD**, Zainalabdeen EA, Alshogran OY, Alkaraki A. *Evaluation of orellanine-induced toxicity from the mushroom Cortinarius orellanus and the antagonistic effect of Petroselinum crispum*. *Toxicon*. 2022;214:1-7. <https://doi.org/10.1016/j.toxicon.2022.04.018>
7. **Nusair SD**, Ahmad M, El-Elimat T, Al-Essa K, Abu-Qatouseh L, R K. *Methanolic extract of Eryngium creticum Lam leaves, flowers and roots: Quantification and qualification of phenolic contents, antitumor effect and antioxidant capacity*. *Journal of Research in Pharmacy*. 2022;26(4):770-80. <https://doi.org/10.29228/jrp.174>
8. Alshogran OY, Al Tahrawi AY, **Nusair SD**. *Exploring the effects of edaravone in rats with contrast-induced acute kidney injury*. *Life Sciences*. 2022;309:121006. <https://doi.org/10.1016/j.lfs.2022.121006>
9. OY Alshogran, **SD Nusair**, T El-Elimat, KH Alzoubi, A Obeidat, M Sweidan, 2021. *Evaluation of coenzyme Q10 combined with or without N-acetyl cysteine or atorvastatin for preventing contrast-induced kidney injury in diabetic rats*. *Naunyn-Schmiedeberg's Archives of Pharmacology*, 1-8. <https://doi.org/10.1007/s00210-021-02070-w>

10. Rashaid A, **Nusair SD**, Alqhazo MT, Adams JB, Abu-Dalo MA, Bashtawi MA. *Heavy metals and trace elements in scalp hair samples of children with severe autism spectrum disorder: A case-control study on Jordanian children*. Journal of Trace Elements in Medicine and Biology. 2021;67:126790. <https://doi.org/10.1016/j.jtemb.2021.126790>
11. Alkaraki A, Aldmoor M, Lahham J, **Nusair SD** (2021). "DNA Barcoding of Selected Medicinal Plant Species from Jordan Using *matK*, *rbcl*, and *rpoC1* Genes". International Journal Of Biology And Biomedical Engineering. 15, 46. <https://doi.org/10.46300/91011.2021.15.46>
12. AB Rashaid, Z Khasawneh, M Alqhazo, **SD Nusair**, M El-Khateeb, *Underivatized Amino Acid Analyses Using Liquid Chromatography-Tandem Mass Spectrometry in Scalp Hair of Children with Autism Spectrum Disorder*. International Journal of Chemical and Molecular Engineering. 15 (2), 59-64.
13. **Nusair, S.D.**, Almasaleekh, M.J., Abder-Rahman, H., Alkhatatbeh, M., 2019. *Environmental exposure of humans to bromide in the Dead Sea area: Measurement of genotoxicity and apoptosis biomarkers*. Mutat. Res. Genet. Toxicol. Environ. Mutagen. 837, 34-41. <https://doi.org/10.1016/j.mrgentox.2018.09.006>
14. Nusair, S.D., Ahmad, M.I., 2019. *Toxicity of Vipera palaestinae venom and antagonistic effects of methanolic leaf extract of Eryngium creticum lam*. Toxicon. <https://doi.org/10.1016/j.toxicon.2019.05.006>
15. **Nusair, S.D.**, Joukhan, A., Rashaid, A.B., Rababa'h, A., 2018. *Methomyl induced effect on fortilin and S100A1 in serum and cardiac tissue: Potential biomarkers of toxicity*. Hum. Exp. Toxicol. 25, 0960327118814153. <https://doi.org/10.1177/0960327118814153>
16. Ahmad, M.I., Al-Qawasmeh, K.A., **Nusair, S.D.**, Abu-Qatouseh, L.F., Al-Qaoud, K.M., 2018. *Stability of antibodies and proteins in camel whey powder treated by Gamma-irradiation during radurisation process*. Emir. J. Food Agric. 30, 654-659. <https://doi.org/10.9755/ejfa.2018.v30.i8.1765>
17. **Nusair, S.D.**, Abu Zarour, Y.S.i., Altarifi, A.A., 2017. *Effects of dibenzo-p-dioxins/dibenzofurans on acetylcholinesterase activity and histopathology of the body wall of earthworm Eisenia*

andrei: a potential biomarker for ecotoxicity monitoring. Water Air Soil Pollut. 228, 266.

<https://doi.org/10.1007/s11270-017-3448-8>

18. **Nusair, S.D.**, Abu Zarour, Y.S., 2017. *Molecular and cellular response of earthworm Eisenia andrei (Oligochaeta, Lumbricidae) to PCDD/Fs exposure*. Environ. Sci. Pollut. Res. Int. 24, 902-910. <https://doi.org/10.1007/s11356-016-7893-5>
19. **Nusair, S.D.**, Abed, S.I., Rashaid, A.H.B., 2017. *Chlorpromazine Impacts on the Length and Width of Sarcophaga haemorrhoidalis (Diptera: Sarcophagidae) Larvae: Potential Forensic Implications*. J Entomol Sci 52, 370-378. <https://doi.org/10.18474/JES17-33.1>
20. Abder-Rahman, H.A. and **Nusair, S.D.**, 2007. *8-hydroxy-2'-deoxyguanosine (8-OHdG) as a short-term predictor of Regional and occupational health problem*. JUOEH, 29:247-258.

* More updated publications at [Shreen Deeb Nusair - Google Scholar](#)

BOOK PUBLICATIONS "Peer Reviewed"

Nusair SD. *Fortilin as a Biomarker in Toxicity*. In: Patel VB, Preedy VR, Rajendram R, editors. Biomarkers in Toxicology. Cham: Springer International Publishing; 2022. p. 1-22. Part of the Biomarkers in Disease: Methods, Discoveries and Applications book series (BDMDA).

Thesis Directed (Master Degree)

1. *"The Investigation Of The Impact Of Toxic Doses Of The Antipsychotic Drug Chlorpromazine On The Development Of Red-Tailed Flesh Fly Sarcophaga Haemorrhoidalis Native To Jordan And Possible Utilizations In Estimation Of Death Time For Legal Investigations"*. Abed S.I., **Nusair S.D.**, 2015.
2. *"Local Earthworms As A Bio-indicator Of Environmental Pollution And Toxicity Due To Electronic Waste"*. Abu Zarour Y., **Nusair S.D.**, 2015.
3. *"Toxicity Of Synthetic Cannabinoid JWH-018 Known As (Joker) On the Reproductive System in Male Balb/c Mice"*. Bani Domi M., **Nusair S.D.**, 2016.
4. *"Death Biomarkers for Estimation of Post Mortem Interval in Corpses Post Decapitation, Suffocation, Euthanasia and Intoxication"*. Jokhan A., **Nusair S.D.**, 2016.

5. *"Monitoring Bromide Levels DNA Damage and Apoptosis in Residents Of The Dead Sea Area"*. Almasaleekh M., **Nusair S.D., 2017.**
6. *"The Effect of Chlorpromazine on The Growth Rate Of Native Blowflies (Diptera, Calliphoridae) For Post-Mortem Interval Determination"*. Mamdouh F., **Nusair S.D., 2017.**
7. *"Early Postmortem Time-Course of Methomyl Toxicokinetic and Toxicodynamic"*. Ananbeh M., **Nusair S.D., 2018.**
8. *"Renal Failure by Orellanine from The Poisonous Webcap Mushroom Cortinarius orellanus: Mechanism of Action"*. Abndah B., **Nusair S.D., 2018.**
9. *"Effect of parsley leaf extract of Petroselinum crispum in rats poisoned with orellanine from the webcap mushroom Cortinarius orellanus"*. Alabdeen E., **Nusair S.D., 2018.**
10. *"Quantification of Aflatoxins in Frequently Consumed Herbal Medicines."* Hammad E., **Nusair S.D., 2019.**
11. *"Early Postmortem Time-Course of Methomyl Toxicokinetic and Toxicodynamic."* Al Ananbeh M., **Nusair S.D., 2019.**
12. *"Immunotoxicity of Ciprofloxacin in Rats and Protective effect of Vitamin C."* Abuu-ganem H., **Nusair S.D., 2020.**
13. *"Endocrine Toxicity of Zinc Oxide Nanoparticles and Antagonistic Effect of Sage extract."* Abu-Jwayed Y., **Nusair S.D., 2020.**
14. *"Neurotoxicity of Zinc Oxide Nanoparticles and Protective Effect of Folic Acid."* Mubaideen R., **Nusair S.D., 2020.**
15. *"Exploring the Effects of Edaravone in Rats with Contrast-Induced Acute Kidney Injury."* Al Tahrawi A., Alshogran O., **Nusair S.D., 2022.**
16. *"Quantitation of Amino Acids in Plasma and Urine Samples of Jordanian Children with Autism Spectrum Disorder and their Mothers."* **Nusair S.D., 2023.**
17. *"Quantitative Analysis of Gonadal Steroids Hormones and Thyroid Hormones in Serum Samples of Jordanian Children with Autism Spectrum Disorder."* **Nusair S.D., 2023.**

18. "Long-Term Behavioral Consequences of Neonatal Noxious Stimulation and Sweet Solution Efficacy in Full-Term Neonates, Considering Gender Differences in Pain Response." **Nusair S.D., 2023.**
19. "Sucrose administration and noxious stimulation over the initial week in Rat Pups: Long-term behavioral and developmental implications." **Nusair S.D., 2023.**
20. 'In vitro Investigation of the Protective Effect of Trolox against Ciprofloxacin-Induced Toxicity in Kidneys and Liver.' Hanan Al-Qubati, **Nusair S.D., 2023.**

PERSONAL DEVELOPMENTS PROFILE

TRAINING, WORKSHOPS

- Training workshop **Developing National Capacities to Develop E-learning In Higher Education Institutions**, 29-30 Jun 2021
- Training workshop **Basics of Distance Education** JUST, 27-28 Jun 2021
- Training workshop on **Microsoft Teams software**, JUST, 2020
- Training workshop for **financial feasibility study / Applied Scientific Research Fund (ASRF)**, ASRF, Jun – Aug 2016
- **Scientific Research workshop** for faculty members, JUST, 8 Feb 2016
- **Statistical Package for Social Sciences**, JUST, 31 Jan 2016
- **Innovation Teaching in Higher Education workshop**, JUST, 4 & 5 Jan 2015
- **Program in Animal Welfare, Ethics and Science (PAWS)**, UWA, Australia, May 2009
- **Endnote training workshop**, UWA, Australia, Nov 2008
- **Thesis Writing workshop**, UWA, Australia, Oct 2008
- **Scientific writing and presentation**, Centre for English Language Teaching (CELT), Australia, April – Sep 2008
- **Chromatographic Analysis Training**, PHBC, Jun 2006 – Jun 2007
- **PCR training**, PHBC, Jun 2006 – Jun 2007
- **ELISA training**, University of Jordan, Feb 2006

SOCIAL AND COMMUNITY ACTIVITIES

- Annual Volunteer in Local Student Issue Committee.
- Annual Organizer of Brochure design 'Awareness Toxicity of substances' Contest.
- Speaker of the COST Info Day, Jordan, 24 Jan 2019
- Annual Volunteer lecturer of Toxicology at Faculty of Medicine, JUST.
- Organizer of the scientific awareness activity "Toxicity of Medicinal Herbs", JUST, 20 Dec 2018.
- Organizer of the scientific awareness activity "Toxicity of Natural and Manufactured

Pharmaceuticals”, JUST, 12 Dec 2017.

- Co-organizer of the Competition of “Best OTC Poster”, JUST, 4 May 2017.