

AMAL AL-ABOUDI

Professor

Organic Chemistry

Chemistry Department

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ACADEMIC QUALIFICATIONS

2001	PhD in chemistry. University of Jordan, Amman, Jordan. Title of the thesis: Heavy metal removal from wastewater using <i>Phragmites australis</i> . <i>The Highest GPA in the science faculty</i>
1985	M.Sc. in chemistry. University of Jordan, Amman, Jordan. Natural products. Title of the thesis: <i>Chemical constituents of flora of Jordan I.</i> <i>The highest GPA in the chemistry department.</i>
1983	B.Sc. in chemistry. University of Jordan, Amman, Jordan. <i>The highest GPA in the chemistry department.</i> <i>Honors: King Hussein award for distinguished students.</i>

WORK EXPERIENCE

2002- Current	Faculty Member at the Chemistry Department at the University of Jordan, Amman, Jordan.
2001-2002	Total Quality Management advisor at the Med-Pharma Pharmaceutical and Chemical Industry.
2001-2002	Manager of the Total Quality at Pharmaceutical Research Unit, dealing with bioequivalence studies.

1982-2000	Lecturer at the Chemistry Department at the University of Jordan, Amman, Jordan.
2002-2003	Instructor at the Chemistry Department at the University of Jordan, Amman, Jordan.
2003-2010	Assistant Professor at the Chemistry Department at the University of Jordan, Amman, Jordan.
2010-2015	Associate Professor at the Chemistry Department at the University of Jordan, Amman, Jordan.
2015-curren	Professor at the Chemistry Department at the University of Jordan, Amman, Jordan.

RESEARCH EXPERIENCE

- **Natural products:**

- ❖ Investigating the chemical constituents of medicinal plants; which involved structural elucidation of many complex natural products and the use of the latest chromatographic and spectroscopic techniques including different 2D-NMR experiments.
- ❖ Isolation and Identification of bio-active natural products from microorganisms.

- **Bioorganic Chemistry:**

- ❖ Microbial transformation of organic compounds using different microorganisms.
- ❖ Drug discovery using different assays which includes studying enzyme inhibition, enzyme kinetics followed by modeling experiments. In addition to studying of antimicrobial activities of many organic compounds.

TEACHING EXPERIENCE:

Courses taught: Fundamentals of chemistry (101, 102), organic chemistry (231, 232, 233, 236, 239, and 331), and systematic identification of organic compounds (336) and chemistry of bio-molecules.

LIST OF PUBLICATIONS:

1. **Aboudi, A**; Al-Eisawi, D; Sabri, S; Abu- Zarqa, M. (1986). Chemical constituents of Flora of Jordan I: Alkaloids of *Fumaria densiflora*. Journal of Natural Products. 49, 370.
2. Abu-zarqa. M; Sabri, S; **Aboudi, A**; Ajaz, M; Sultana, N; and Ur-Rahman A. (1995). New Cyclopeptide Alkaloids from *Zizyphus lotus*. Journal of Natural Products. 58, 504.
3. **Al-Aboudi A**; Fayyad M; Abu Zarga. (2006). Fresenius Polarographic study of the complexation between the chemical constituents of *Phragmites Australis* and heavy metals. Environmental Bulletin 15 (10), 1271- 1275.
4. **Al-Aboudi A**; Mohammad M; Musharraf S; Choudhary MI; Ur-Rahman Atta.(2008) Microbial transformation of testosterone by *Rhizopus stolonifer* and *Fusarium lini*. Natural Product Research. 22(17), 1498–1509.
5. **Al-Aboudi A**; Mohammad M; Haddad S; Al-Far R; Choudhary MI; Ur-Rahman Atta. (2009). Biotransformation of methyl cholate by *Aspergillus niger*. Steroids, 74(4-5), 483-486.
6. **Al-Aboudi A**; Odeh H; Khalid A; Naz Q; Choudhary MI; Ur-Rahman Atta. (2009). Butyrylcholinesterase inhibitory activity of testosterone and some of its metabolites, Journal of Enzyme Inhibition and Medicinal Chemistry. 24(2), 553 – 558.
7. Al-Tel T; Al-Qawasmeh R; Schmidt M; Al-Aboudi A; Rao S; Sabri S; Voelter W. Rational Design and Synthesis of Potent Dibenzazepine Motifs as β -Secretase Inhibitors. (2009). Journal of Medicinal Chemistry. 52, 6484–6488.
8. Choudhary MI; Mohammad M; Musharraf S; Parvez M; Al-Aboudi A; Ur-Rahman Atta. (2009). New oxandrolone derivatives by biotransformation using *Rhizopus stolonifer*. Steroid 74(13-14), 1040-4.
9. **Al-Aboudi A**. (2010) Synthesis of 3-deoxyclarithromycin through biotransformation of clarithromycin by *Aspergillus niger* and its antibacterial Activity, Jordan Journal of Chemistry, 5(2), 131-138.
10. Rasras A; Al-Tel T; **Al-Aboudi A**; Al-Qawasmeh R (2010). Synthesis and antimicrobial activity of cholic acid hydrazone analogues. European Journal of Medicinal Chemistry (ISSN: 0223-5234). 45, 2307–2313 (DOI: 10.1016/j.ejmech.2010.02.006).

11. **Al-Aboudi A**; Afifi F. (2011) Plants used for the treatment of diabetes in Jordan: A review of scientific evidence. *Pharmaceutical Biology* (ISSN: 1388-0209 print, 1744-5116 electronic) 49(3), 221-239, DOI: 10.3109/13880209.2010.501802.
12. **Al-Aboudi A**; Abu Zarga M; Abu-Irmaileh B; Awwadi F; Khanfar M. (2014) Three New seco-ursadiene triterpenoids from *Salvia syriaca*, *Natural Product Research* (1478-6419 Print, 1478-6427 Online) DOI: 10.1080/14786419.2014.959518.
13. Kouadri F; **Al-Aboudi A**; Khyami – Horani H (2014) Antimicrobial activity of *Streptomyces sp.* isolated from the gulf of Aqaba-Jordan and screening for NRPS, PKS-I, and PKS-II genes. *African Journal of Biotechnology* (ISSN 1684-5315) 13(31) 3505-3515 (DOI 10.5897/AJB 2014.13869).
14. Al-Sinjilawi H; El-Abadelah M ; Mubarak M; **Al-Aboudi A**; Abadleh M; Mahasneh A; Ahmad A. (2014). Synthesis and antibacterial activity of some novel 4-oxopyrido[2,3-a]phenothiazines. *Archiv der Pharmazie - Chemistry in Life Sciences* (Print ISSN: 0365-6233, Online ISSN: 1521-4184), 347(11), 861-872 (DOI: 10.1002/ardp.201400196).
15. Khan N; Atif M; **Al-Aboudi A** (2014) Microbial transformation of (-)-Alloisolongifolene. *Oriental Journal of Chemistry* (ISSN: 0970-020 X). 30(3), 941-945 (DOI.org/10.13005/ojc/300304).
16. Abu Irmaileh B; **Al-Aboudi A**; Abu Zarga M; Awwadi F; Haddad S. (2015) Selective phytotoxic activity of 2,3,11 β ,13-tetrahydroaromaticin and ilicic acid isolated from *Inula graveolens*. *Natural Product Research* (1478-6419 Print, 1478-6427 Online) 29(10):893-8 (DOI: 10.1080/14786419.2014.955489)
17. **Al-Aboudi A**; Al-Qawasmeh R; Shahwan A; Uzma Mahmood; Khalid A; Ul-Haq Z; Saied S. (2015). In-silico identification of the binding mode of synthesized adamantyl derivatives inside cholinesterase enzyme. *Acta Pharmacologica Sinica* . 36, 879-886 (doi:10.1038/aps.2014.173)
18. **Al-Aboudi A**; Abu Zarga M; Abu-Irmaileh B; Awwadi F; Khanfar M. (2015). Three new seco-ursadiene triterpenoids from *Salvia syriaca* . *Natural product research* 29 (2), 102-108.
19. **Al-Aboudi A**; Kana'an B; Zarga M; Bano S; Javed K; Choudhary MI. (2017). Fungal biotransformation of diuretic and antihypertensive drug spironolactone with *Gibberella fujikuroi*, *Curvularia lunata*, *Fusarium lini*, and *Aspergillus alliaceus*. *Steroids* 128, 15-22
20. Abu Irmaileh B; Salem N; **Al Aboudi A**; Abu Zarqa M; Abdeen A. (2017). Antifungal Activity of the Stinkwort (*Inula graveolens*) Extracts *Journal of Plant Pathology & Microbiology* 8 (8)

21. Hala I. Al-Jaber, Musa H. Abu Zarga, **Amal F. Al-Aboudi**, MahmoudA. Al-Qudah, Ali F. Al-Shawabkeh, Ismail F. Abaza, Marwa N. Abuaisheh & Fatma U. Afifi (2018): Essential Oil Composition and Anticholinesterase Activity Evaluation of *Achilleafragrantissima* Growing Wild in Jordan, *Journal of Herbs, Spices & Medicinal Plants*, 24(3), 272-281. DOI:10.1080/10496475.2018.1463933 To link to this article: <https://doi.org/10.1080/10496475.2018.1463933> Published online: 02 May 2018
22. Khadidja Aya Beladjila, Djemaa Berrehal, **Amal Al-Aboudi**, Zahia Semra, Hala I Al-Jaber, Khaldoun Bachari, Zahia Kabouche (2018) Composition and Antioxidant, Anticholinesterase, and Antibacterial Activities of the Essential Oil of *Salvia buchananii* from Algeria. *Chemistry of Natural Compounds* 54(3) 581-3. DOI:10.1007/s10600-018-2414-z
23. Marwa N. Abu-Aisheh, Amal Al-Aboudi, Mohammad S. Mustafa, Mustafa M. El-Abadelah, Saman Yousuf Ali, Zaheer Ul-Haq, Mohammad S. Mubarak. (2019) Coumarin derivatives as acetyl- and butyrylcholinestrerase inhibitors: An in vitro, molecular docking, and molecular dynamics simulations study. *Heliyon* 5 e01552. doi: 10.1016/j.heliyon.2019. e01552
24. Nikhil Agrawal, Balakumar Chandrasekaran and **Amal Al-Aboudi**. (2019) Recent Advances in the In-silico Structure-based and Ligand-based Approaches for the Design and Discovery of Agonists and Antagonists of A2A Adenosine Receptor, *Current Pharmaceutical Design*. 25(7): 774 – 782. DOI: 10.2174/1381612825666190306162006
25. Sumit Jamwal, Ashish Mittal, Puneet Kumar, Dana M. Alhayani and **Amal Al-Aboudi**. (2019) Therapeutic Potential of Agonists and Antagonists of A1, A2a, A2b and A3 Adenosine Receptors. *Current Pharmaceutical Design*. 5(26) 2892-2905. DOI: 10.2174/1381612825666190716112319
26. Pran Kishore Deb, Omar Al-Attraqchi, Johnson Stanslas, **Amal Al-Aboudi**, Noor Al-Attraqchi, Rakesh K. Tekade. Chapter-5: Biotechnology based pharmaceutical products. In: Rakesh Kumar Tekade (Ed.), *Biomaterials and Bio-Nanotechnology: Advances in Pharmaceutical Product Development and Research Series*, Vol. IV, Academic Press, 2019, 153-189.
27. Pran Kishore Deb, Haifa'a Marouf Odetallah, Bilal Al-Jaidi, Raghuram Rao Akkinapalli, **Amal Al-Aboudi**, Rakesh K. Tekade. (2019) Chapter-11: Biomaterials and Nanoparticles for Hyperthermia Therapy. In: Rakesh Kumar Tekade (Ed.), *Biomaterials and Bio-Nanotechnology: Advances in Pharmaceutical Product Development and Research Series*, Vol. IV, Academic Press, 375-413.
28. Sarah Falah Kokaz, Pran Kishore Deb, Sara Nidal Abed, **Amal AlAboudi**, Nirupam Das, Fatimah Amin Younes, Ruba Anwar Salou, Yazan A. Bataineh, Katharigatta N. Venugopala, and Raghu Prasad Mailavaram (2020). Pharmacology of Acetylcholine and Cholinergic Receptors. In: Kumar, P., Deb, P.K. (eds) *Frontiers in Pharmacology of Neurotransmitters*. Springer, Singapore. https://doi.org/10.1007/978-981-15-3556-7_3

29. Pran Kishore Deb, Sara Nidal Abed, Hussam Maher, **Amal Al-Aboudi**, Anant Paradkar, Shantanu Bandopadhyay, Rakesh K. Tekade. (2020). Chapter-11: Aerosols in pharmaceutical product development. In: Rakesh Kumar Tekade (Ed.), Drug Delivery Systems: Advances in Pharmaceutical Product Development and Research Series, Vol. V, Academic Press, Pages 521-577.
30. A. Aboalhaja, R. Amro, I. Abaza, E. Khalil, **A. Al-Aboudi**, M. Abu-Zarga & F.U. Afifi (2019) Schinus molle L. Collected from Jordan and Turkey: Essential Oil Composition and Anticholinesterase Activity, Journal of Essential Oil Bearing Plants, 22:3, 704-716, DOI: 10.1080/0972060X.2019.1639552 To link to this article: <https://doi.org/10.1080/0972060X.2019.1639552>
31. MH Abu Zarga, HI Al-Jaber, MA Al-Qudah, AMF Al-Aboudi (2022) A new cyclic polyketide and other constituents from Ononis spinosa growing wildly in Jordan and their antioxidant activity Journal of Asian Natural Products Research 24 (3), 290-295.
32. Hala Khyami-Horani¹, Amal Al-Aboudi , Musa Abu Zarga , Monther Sadder , and Halima Othman¹Antibacterial Activity of Streptomyces Strains Isolated from Different Regions of JordanMicrobiol. Biotechnol. Lett. (2023), 51(4), 474–483 <http://dx.doi.org/10.48022/mbi.2303.03011> pISSN 1598-642X eISSN 2234-7305.

MEMBERSHIP AND SCIENTIFIC ACTIVITIES

2002- 2013	Administrative board of the Jordanian Chemical Society.
2002-2013	Organizing a yearly celebration for the chemistry graduate students at the University of Jordan.
2003	Writing three chapters in a chemistry book for Al-Arabia Open University.
2004	Revising the scientific material for the secondary classes in Jordan, as part of re-writing and developing the Jordanian curriculum national team.
2005-2008	Organizing international seminars at the chemistry department: Among other speakers are three Nobel laureates: Jean-Marie Lehn; Dudley Herschbach (May 2005) Sir Harold Kroto (May 2008).
2006- Current	International Advisory Board of the International Eurasia Conference on Chemical Sciences.
2006- 2008	Accreditation team at the University of Jordan.
2008	MIT Blossom Project, producing teaching video: http://blossoms.mit.edu/videos/lessons/why_are_sky_blue_and_leaves_gr

	<u>een.</u>
20-24 Oct 2011	Organizing Science fair to secondary schools at the University of Jordan.
27 Sept 2011	Organizing visit of professors from Reading University UK to the chemistry department.
	Organizing national seminars at the chemistry department: Among other speakers are: Dr. Omar Jawan (Pharmaceutical industry); Dr. Mohammad Gouti (RSS); Mr. Nabil Ismael (Chamber of Industry).
2012- Current	Associate Member At Bio-Molecular Chemistry/ Division III, International Union of Pure and Applied Chemistry (IUPAC).
2014- Current	National representative of the Jordanian Chemical Society (JCS) at the Chemical Research Applied to World Needs (CHEMRAWN) standing Committee, IUPAC.
2014	Revising the scientific material for the secondary classes in Jordan, as part of re-writing and developing the Jordanian curriculum national team.
Jan- Feb 2013	Visiting professor at International Center for Chemical and Biological Sciences (ICCBS), teaching a short course for the PhD.
Jun-Aug 2013	Visiting researcher at Harvard Medical School.
2017- current	International Advisory board of COMSATS

Conferences Attended:

Conference	Role	Dates and Place
The 4 th International Conference on Natural Products Chemistry.	Attendance	25 Jan.-2 Feb. 1990 Karachi Pakistan.
The 5 th International Conference On Natural Products Chemistry	Attendance	22-29 Jan. 1992 Karachi Pakistan.
The 1 st National Conference For Jordanian Chemists	Attendance	20-27 June, 1993 Amman Jordan.
The 7 th International Conference on Natural Products Chemistry	Poster presentation	22-29 Jan. 1996 Karachi - Pakistan.
The 8 th International Conference on Natural Products Chemistry	Speaker	18-22 Jan. 2000 Karachi - Pakistan.
The 7 th Eurasian Conference On Chemical Sciences	Speaker	9-12 March. 2002 Karachi - Pakistan.

The Third Jordanian International Conference of Chemistry	Poster presentation	22-26, April. 2002 Yarmouk University, Irbid, Jordan.
The 9 th International Conference on Natural Products Chemistry	Speaker	24-29 Jan. 2004 Karachi, Pakistan.
The 3rd International Conference on Natural Products And Physiologically Active Substances	Speaker	12-17 Sept. 2004, Novosibirsk, Russia.
International Conference on Drug Biotechnology and Medicinal Plants	Speaker	9-11 October, 2004 Philadelphia Private University, Jordan
Second International Workshop on Supramolecular Nanoscience of Chemically Programmed Pigments.	Invited Speaker	6-8 June, 2005 Kusatsu, Shiga, Japan
Biotrans 2005.	Poster presentation	3-8 July 2005 Delft, Netherlands.
The 10 th International Conference on Natural Products Chemistry.	Invited Speaker	6-9 Jan. 2006 Karachi – Pakistan.
The 9 th Eurasia Conference on Chemical Sciences.	Invited Speaker	3-9 Sept 2006 Antalya- Turkey
6th SESAME Users' Meeting	Member of Two Committees	17-19 Nov. 2007 Amman, Jordan.
The 10 th Eurasian Conference on Chemical Sciences	Invited Speaker	7-11 Jan. 2008 Manila- Philippine.
8 th SESAME Users' Meeting	Attendance	19 -21 Nov. 2009 Petra-Jordan.
45 rd General Assembly & 43 th International Union of Pure and Applied Chemistry (IUPAC): World Chemistry Congress.	Participant and National Representative of the Jordanian Chemical Society (JCS) at the General Assembly (GA) meeting, and attended the preparative meetings of the International Year of Chemistry (IYC).	31 July- 7 Aug 2009 Glasgow, United Kingdom.
International conference of the Federation of Asian Chemical	Speaker & National Representative of the JCS at the	14-16 Sept 2009 Shanghai, China.

Societies.	General Assembly (GA) meeting	
The 43 rd IUPAC World Chemistry Congress.	Invited speaker and National Representative of JCS at the GA meeting. Invited to attend the chemist world leaders meeting.	27 Jul- 6 Aug 2011 San Juan, Puerto Rico.
International Symposium On Women In Science And Engineering.	Keynote Speaker.	29-30 Sept 2011 Kuala Lumpur, Malaysia.
19 th IUPAC International Conference on Chemical Research Applied to World Needs (CHEMRAWN XIX).	Member of the Future Action Plan.	27-29 Sept 2011 Kuala Lumpur, Malaysia.
The 12 th Eurasia Conference on Chemical Sciences.	Invited speaker and member of the International Advisory Board.	16-21 April 2012 Corfu, Greece.
The 13 th International Conference on Natural Products Chemistry.	Invited Speaker	22-25 Sept 2012 Karachi - Pakistan.
Drug Discovery and Therapy World Congress.	Speaker.	3- 6 June 2013 Boston, USA.
44 th World Chemistry Congress and 47 th General Assembly IUPAC meeting	National representative of JCS in the GA meeting and member of Division III and member in the CHEMRAWN standing committee and attended the chemical education division meetings.	11- 16 Aug 2013 Istanbul, Turkey.
The 13 th Eurasia Conference on Chemical Sciences.	Invited speaker and member of the International Advisory Board.	14-18 Dec 2014 Bangalore. India
The 14 th Eurasia Conference on Chemical Sciences.	member of the International Advisory Board.	December 15 – 18, 2016. Karachi, Pakistan

Conferences Organized:

Conference	Role	Dates and Place
Chemistry in Academia and Industry	Chair	April 2005 The University of Jordan, Amman, Jordan.

The 9 th Eurasian Conference On Chemical Sciences	International Advisory Board	3-9 Sept 2006 Antalya- Turkey
The 2 nd Chemistry Scientific day	Scientific Committee	9 May 2007 Yarmouk University Irbid, Jordan.
Petra International Conference of Chemistry and Trans-Mediterranean Colloquium of Heterocyclic Chemistry (TRAMECH -5)	Scientific Committee	June 25-28 2007 Tafila University, Tafila, Jordan
The 8 th Jordanian International Conference of Chemistry	Organizing Committee	17-19 June, 2008 Yarmouk University Irbid- Jordan.
The 9 th Jordanian Conference of Chemistry.	Scientific Committee	28 April 2009 The Hashemite University Zarqa, Jordan.
The 11 th Eurasian Conference on Chemical Sciences: <i>Under the Royal Patronage of HM King Abdullah; One of the biggest conferences organized in the region with four Nobel Laureates lecturing. Scientific activities included the following:</i> a) 12 Plenary Lectures. b) 13 Keynote Lectures. c) 79 Invited Lectures. d) 162 Oral Presentations. e) 231 posters. In addition to 5 Panel Discussions entitled: a) Chemistry – Industry Interaction. b) Scientists’ Social Responsibilities. c) Frontiers of Chemical Research. d) The Role of Chemical Associations in Enhancing	Secretary General of the National Organizing Committee.	6 -10 Oct 2010 The Dead Sea, Jordan

International Cooperation. e) Youth Involvement in Chemistry.		
The 6 th Jordanian International Conference of Chemistry.	Scientific Committee.	19 - 21 April 2011 Jordan University of Science and Technology, Irbid, Jordan
International Conference of Young Chemists. <i>Under the Royal Patronage of Her Majesty Queen Rania Al-Abdullah</i> 600 International and National participants.	Chair.	8 -10 April 2012 The University of Jordan. Amman, Jordan.
The 12 th Eurasia Conference on Chemical Sciences.	International advisory Board.	16-21 April 2012 Corfu, Greece.
The 12 th Jordanian Conference of Chemistry: Chemistry and Industry.	Chair of the Scientific Committee.	17 Nov. 2012 Chamber of Industry, Amman, Jordan
The 13 th Jordanian Conference of Chemistry. (Chemistry and scientific Challenges; Energy needs in Jordan).	Chair of the Scientific Committee.	9 Nov 2013 Private Jerash University, Jerash, Jordan.
The 1st International Conference on Natural Products and Drug Discovery	Conference Secretary	8 – 10Sept. 2015 University of Jordan.
Workshop on Modern Spectroscopic Techniques and Their Applications In Research	Chair	March 12-14/03/2023 University of Jordan
Cancer Genetics and Signal Transduction	Chair	15th -16th March 2023. University of Jordan

Workshops Organized/ participant:

Workshop	Role	Dates and Place
A training program which included: i- A training program on the	Participant	Oct. 1991- Jan.1992 HEJ research Institute of chemistry, Karachi

latest techniques of on 1-D and 2-D NMR Spectroscopy. ii- A workshop on 3-D NMR. iii-A training program on the latest experiments on mass spectroscopy. iv- Training on some bench- top bioassays such as brine shrimp lethality and crown gall tumors on potato disc.		University, Karachi, Pakistan.
Technology for Product Development from Medicinal Plants.	Participant	21- 27 Jan. 2000. HEJ research Institute of Chemistry, Karachi University, Karachi, Pakistan.
Different Methods Used for Wastewater Treatment.	Participant	20 June- 15 July 2000. Water research center; The University of Jordan Amman Jordan
Training Course on Human Resources for Quality Assurance; Reviewing an Academic Department.	Participant	April 2004 The University of Jordan Amman Jordan.
Tempus	Participant	2005, The University of Jordan; Amman, Jordan
Chemical Safety and Security.	Participant	(20 -25 May 2006) Jordan University of Science and Technology Irbid. Jordan
Course on International Relations (Tempus Project N° M001B05-2005)	Participant	10-16 June 2007. University of Rome «La Sapienza» Cattid. Rome, Italy
Science is fun.	Organizer with collaboration of the Sir Harold Kroto Nobel Laureate in Chemistry.	May 2008 Kid Museum, Amman Jordan
Safety in Laboratories.	Organizer with collaboration with Sandia Laboratories USA.	6 Oct 2010 The Dead Sea, Jordan.
Cheminformatics.	Organizer with collaboration	7 Oct 2010

	with ChemAxon & International Organization for Chemical Sciences in Development.	The Dead Sea, Jordan
Scifinder/Locating Chemical and Related Scientific Information.	Organizer with collaboration with American Chemical Society, Scifinder, USA.	8 Oct 2010 The Dead Sea, Jordan
Writing Papers and Proposals.	Organizer with collaboration with Reading University	9 Oct 2010 The Dead Sea, Jordan
Article XI of the Chemical Weapons Convention and its follow up.	Participant of the workshop organized by the Organization of Prohibition of Chemical Weapons (OPCW).	24 -25 Nov 2010 The Hague, Netherlands.
Chemical Safety and Security for Jordanian Industry.	Organizer with collaboration with Middle East Scientific Intuition for Security (MESIS), RSS.	5- 10 Oct 2011 MESIS, Royal Scientific Society, Amman, Jordan.
Identification of Hazardous Chemical and Fire Residues for the Civil Defense.	Organizer and trainer with collaboration with National Academy for Environment.	13-16 Feb 2012 Civil Defense, Amman, Jordan.
Code of conduct for the chemists in the Middle East.	Participant.	4-5 July 2012 MESIS, RSS. Amman, Jordan.
Managing a Chemical Laboratory Safety and Security	Organizer with collaboration with Sandia Laboratories, USA.	⁹ th April 2012 The University of Jordan, Amman, Jordan.
Strategic Planning for Yemen Chemical Society	Guest Speaker and trainer in Strategic Planning. Organized by Chemical Security Engagement Program (CSP, CRDF global), USA	25-27 March 2013 Amman, Jordan.
International workshop on Computer Aided Drug Design	Organizer and trainer for faculty, graduate students and pharmaceutical industry.	23-25 April 2013 The University of Jordan, Amman, Jordan.
Network of universities and institutes for raising awareness on dual-use concerns of chemical materials.	Scientific Adviser at EU CBRN-Project 31, and presenting the national gap analysis.	6-7 October 2013 MESIS, RSS, Amman, Jordan.

Network of universities and institutes for raising awareness on dual-use concerns of chemical materials.	Scientific Adviser at EU CBRN-Project 31, and presenting the national perspective of future plans.	27-29 Oct 2014 Beirut, Lebanon.
Teacher Skills Forum (QRTA)	Giving a workshop: From Observation to Knowledge. Sub-plenary lecture: Education, Science and Technology; A Recipe for a Vibrant Nation.	6-7 Dec 2014-12-26 Dead Sea, Jordan.
NASIC Conference cum Workshop on Herbal Drug Development for Socio-Economic Uplift in Developing World	Co-Chair	6-8 Sept. 2015 University of Jordan.

Administrative Posts:

Assistant Dean at the Faculty of Science 2005-2011

Vice Dean at the Faculty of Science 2016- 2018.

Supervising Graduate Students

Student's Name	Role	Program	Thesis' Title	Year
Anas Rasras	Co-Supervisor	MSc	Synthesis and Anti Microbial Studies of Some New Cholic Acid Derivatives.	2009
Fayzeh Kouadri	Co-Supervisor	PhD	Isolation and Identification of Bioactive Compounds from Marine Streptomyces from the Gulf Of Aqaba-Red Sea.	2010
Alaa' Shahwan	Supervisor	Master	Synthesis and Acetylcholinesterase Inhibition Of Adamantane Derivatives.	2012
Belal Kana'an	Supervisor	PhD	Isolation and Identification of the Biotransformation Products of Spironolactone, Betamethasone acetate, and Marubiin by Different Fungi.	2014
Rannem ayman	Supervisor	MSc	Stability of Enalapril maleate in the presence of some pharmaceutical excipients in solid state	2017

Examining Committees of Graduate Student:

Student's Name	Title of the Thesis	Program	Supervisor	University	Year
Tahsin Gulzar	Studies on the Chemical Constituents of the Seeds of <i>Piper nigrum Linn</i>	PhD	Prof. Mohammad Iqbal Choudary	The University Karachi, Pakistan	2005
Hajem Bataineh	Physiochemical Studies of Inclusion Complexes of Steroids and Cyclodextrins	Master	Dr. Nathir Al-Rawashdeh	JUST, Irbid, Jordan	2005
Nuha Sweidan	Isolation and Identification of the chemical	PhD	Prof. Musa Abu Zarga	The University of Jordan, Chemistry	2003

	constituents of <i>Marrubium vulgare</i> and <i>Calotropis</i> <i>procera</i>			Department.	
Mohmoud Morad	Potential Role of Cyclic Adenosine Monophosphate Signaling Pathway in Fluconazole Antifungal Resistanein the Opportunistic Pathogen.	PhD	Dr. Basem Jaber	UJ, Dept. of Biol. Sciences	2012
Maha Khazaaleh	Design and Synthesis of Monovalent Mannosides as Inhibitors of Bacterial Adherence	Master	Dr. Hussein Al-Mughaid	JUST, Irbid Jordan	2014