

## **Curriculum Vitae**

### **Dr. Abdul-Wahab O. El-Rjoob**

Associate Professor of Analytical Chemistry

<b>Personal Information</b>
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**Name:** Abdul-Wahab El-Rjoob

**Date of Birth:** Dec. 12, 1957

**Marital Status:** Married

**Permanent Address:**

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Department of Chemistry

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<b>Education</b>
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<b><u>Program</u></b>	<b><u>Field</u></b>	<b><u>School</u></b>	<b><u>Date</u></b>
* B. Sc.	General Chemistry	Yarmouk University	1/7/1980
* M.Sc.	Analytical Chemistry	Yarmouk University	9/6/1987
* Ph.D	Analytical Chemistry	University of Missouri-Columbia, U.S.A.	18/5/1996

**Title of Ph.D. dissertation:** Dynamic Stationary Phase Modification in Reversed-Phase High Performance Liquid Chromatography.

**Dissertation Supervisor:** Prof. S. Roy Koirtyohann

**Title of M.Sc. thesis:** Determination of Propantheline Bromide in Tablet Formulations by Reversed-Phase High Performance Liquid Chromatography.

**Thesis Supervisor:** Prof. Suleiman Sa'sa'

<b>Employment</b>
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* 1980 - 1988	High School Teacher	Jordan
* 1988 - 1991	Teaching and Research Assistant	JUST
* 1993 - 1995	Teaching and Research Assistant	University of Missouri-Columbia, U.S.A.
* 1996 - 2010	Assistant professor in Chemistry	JUST
* 2010 - 2011	Assistant professor in Chemistry	Jerash University
* 2011 - 2014	Associate Professor in Chemistry	JUST
* 2014 - 2015	Associate Professor in Chemistry	Al al-Bayt University
* 2015 - Present	Associate Professor in Chemistry	JUST

### **Teaching Assignments:**

#### **Undergraduate courses:**

1.	General chemistry-1	(Chem. 101)
2.	General chemistry-2	(Chem. 102)
3.	General chemistry	(Chem. 103)
4.	General chemistry-Lab	(Chem. 107)
5.	Analytical chemistry	(Chem. 233)
6.	Analytical chemistry-Lab	(Chem. 234)
7.	Environmental Chemistry	(Chem. 361)
8.	Literature Seminar	(Chem. 391)
9.	Chemical Separation Methods	(Chem. 437)
10.	Laboratory Project	(Chem. 492)

#### **Graduate courses:**

1.	Advanced Instrumental Analysis	(Chem. 731)
2.	Chromatographic Separation Methods	(Chem. 732)
3.	Environmental Chemistry	(Chem. 734)

### **Research Interest:**

- Separation and analysis of drugs and pesticides using chromatographic methods.
- Determination of heavy metals in air, soils and medicinal plants.
- Spectroscopic and electrochemical studies of antibiotics interactions with biometals.

## **Supervision and Examiner for M.Sc. Theses**

### **Supervision:**

1. Advisor of M.Sc. student, Thesis of Moufaq Abous /Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**August 2000**) "Spectroscopic and Conductometric Investigation of Azithromycin Interaction with Biometals".
2. Co advisor of M.Sc. student, Thesis of Reyad S.S. Al-Ashram /Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**August 2000**) " Investigation of the Role of the Conformational Shifts in Hemoglobin".
3. Advisor of M.Sc. student, Thesis of Mohammad N. Omari/ Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**January 2006**) "Evaluation of Heavy Metals in Soil and Selected Medicinal Plants Grown in Selected Zones in Jordan.
4. Advisor of M.Sc. student, Thesis of Hala F. Al-Smadi/ Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**January 2006**) "An Assessment of Some Heavy Metals in Human Hair Samples in Northern Part of Jordan".
5. Co advisor of M.Sc. student, Thesis of Mohammad Kamal Harb/ Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**January 2006**)" Determination of Selected Heavy Metals in Air Samples from Northern Part of Jordan".
6. Co advisor of M.Sc. student, Thesis of Samar A. Gharaibeh / Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**January 2006**)"Preconcentration Techniques for the Determination of Selected Heavy Metals in Portable and Waste Water in the Northern Part of Jordan".
7. Advisor of M.Sc. student, Thesis of Mohammad Majed Eiadeh/ Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**January 2008**) "Determination of Vitamin B12 Concentration in Meat by High Performance Liquid Chromatography and Atomic Absorption Spectrometry in Jordan Market".
8. Co advisor of M.Sc. student, Thesis of Monther Mohammad Tahtamouni/ Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**May 2008**)" Determination of Selected Antidepressant Drugs in Plasma by High Performance Liquid Chromatography with Mass Spectrometric Detection (HPLC/MS)".
9. Co advisor of M.Sc. student, Thesis of Mohamad Fayeze Khashan Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**2009**)" Determination of glimepiride in human plasma by liquid

chromatography – atmospheric pressure chemical ionization – tandem mass spectrometry".

10. Advisor of M.Sc. student, Thesis of Yousef Moustafa Bani Moustafa, Department of Applied Chemical Sciences/ Jordan University of Science and Technology ( may **2013**) "Determination of heavy metals in water, soil, and vegetables grown in different regions in Jordan ".
11. Advisor of M.Sc. student, Thesis of Dareen Ayoub Hmedat/ Department of Applied Chemical Sciences/ Jordan University of Science and Technology (**May 2013**) "Monitoring of chlorpyrifos residues in grapes leaves, grapes, and soil in Jordan by High Performance Liquid Chromatography with ultraviolet detection”
12. Co advisor of M.Sc. student, Thesis of Abdallah Hassan Abu Jahjah, Department of Applied Chemical Sciences/ Jordan University of Science and Technology (August **2013**)" Determination of residues of common antibiotics in waste water from Jordanian hospitals by liquid chromatography coupled to tandem mass spectrometric detector (LC-MS/MS)".

#### **Examiner for M.Sc. Theses:**

1. A member of the examination committee for M.Sc. Thesis entitled "Separation and Characterization of Anthocyanin Derivatives from pheasant Eye Plant by Chromatographic and Spectroscopic Techniques". Mohammad S. Battineh. Department of Applied Chemical Sciences/ Jordan University of Science and Technology. **July 2000.**
2. A member of the examination committee for M.Sc. Thesis entitled "Spectrophotometric Determination of Thiosulfate and Tetrathionate Using Flow Injection Analysis". Essa Hassan Abdel-Qader. Department of Chemistry /Faculty of Science/ Yarmouk University. **August 2001.**
3. A member of the examination committee for M.Sc. Thesis entitled " Thermodynamic Study of the Interaction of Some Transition Metal Cations and Some Amine Cations with Crown Ethers in Different Solvents". Qasem Yahya Al-Jubury. Department of Chemistry /Faculty of Science/Yarmouk University. **December 2001.**
4. A member of the examination committee for M.Sc. Thesis entitled "Determination of pyrethroides in Domestic Fly Aerosols in Jordanian Water by Gas Chromatography Mass Spectrometry and Gas Chromatography Electron Capture Detector". Mohammad Saleh Bani Salameh. Department of Applied Chemical Sciences/ Jordan University of Science and Technology. **August 2003.**
5. A member of the examination committee for M.Sc. Thesis entitled "Determination of PAHs in Air Samples from Northern Part of Jordan". Ayman Jamel Mustafa Baidas. Department of Applied Chemical Sciences/ Jordan University of Science and Technology. **January 2004.**

6. A member of the examination committee for M.Sc. Thesis entitled "Heavy Metal Concentrations in Living and Nonliving Components of Scleractinean from Northern Gulf of Aqaba, Jordan". Mousa S. Al-Trabeen. Department of Applied Chemical Sciences/ Jordan University of Science and Technology. **January 2004.**
7. A member of the examination committee for M.Sc. Thesis entitled "Determination of Some Heavy Metals in Jordan Dairy Products". Sani Yahya Bala. Department of Applied Chemical Sciences/ Jordan University of Science and Technology. **October 2014.**
8. A member of the examination committee for M.Sc. Thesis entitled "Determination of Selected Elements by Inductively Coupled Plasma Mass Spectrometry". Iman Samir Hasan Al-Bataineh. Department of Applied Chemical Sciences/ Jordan University of Science and Technology. **February 2017.**

### **Publications:**

1. **Abdul-Wahab O. El-Rjoob**, Adnan M. Massadeh, Mohammad N.Omari, "Evaluation of Pb, Cu, Zn, Cd, Ni, and Fe Levels in Rosmarinus officianalis labaiatae (Rosemary) medicinal plant and soils in selected zones in Jordan", *Environ. Monit. Assess.*, 140, 61-68 (2008).
2. **Abdul-Wahab El-Rjoob**, Jamil Al-Mustafa, Ziyad Taha, and Moufaq Abous, "Spectroscopic and Conductometric Investigation of the Interaction of Azithromycin with Iron (II) Ion", *JJC*, 3(2), 199 - 209 (2008).
3. **Abdul-Wahab O. El-Rjoob**, and Mohammad N.Omari, "Heavy metals contamination in *Malva Parviflora* L. (Mavaceae) grows in soils near the Irbid-Amman Highway", *J. Int. Environmental .Application & Science*, 4(4), 433-441 (2009).
4. **Abdul-Wahab El-Rjoob**, Munther Tahtamouni, Yahya R. Tahboub, "Simultaneous Analysis of Fluoxetine, Norfluoxetine, Citalopram and Haloperidol in Plasma by LC-ESI-IT-MS", *Chromatographia*, 71, 423-430 (2010).
5. Ahmad A. Gharaibeh, **Abdul-Wahab O. El-Rjoob**, Mohammad K. Harb "Determination of selected heavy metals in air samples from the northern part of Jordan", *Environ Monit Assess* 160, 425-429 (2010).
6. Barakat M Shabsoug, M.Zaater, **A. El-Rjoob**, R.Khalil "Zinc Content in Human Hair of Healthy and Sick Subjects", *Journal of the Bahrain Medical Society*, 22(3), 89-91 (2010).
7. Adnan Massadeh, **Abdul-Wahab El-Rjoob**, Hala Smadi "Lead, cadmium, copper, zinc, iron, and calcium in human hair as a function of gender, age, smoking, and hair dyeing", *Toxicological & Environmental Chemistry*, 93(3), 494-503 (2011).

8. **Abdul-Wahab El-Rjoob**, Ziyad A. Taha, Jamil Al-Mustafa, Abdulaziz M. Ajlouni "A thermodynamic Study of Complexation of Iron Ions with Clarithromycin and Roxithromycin in Methanol Using a Conductometric Method", *J Solution Chem*, 41, 1079-1087 (2012).
9. Adnan M. Massadeh, **Abdul-Wahab O. El-Rjoob**, & Mohammad N. Al-Omari "Assessment of Heavy metals in Different Parts of Ruta Chalepensis L. Rutaceae Medicinal Plant and Soil Samples Collected from Three Selected Zones in Jordan", *Soil & Sediment Contamination*, 25(6), 587-596 (2016).

## References:

**Dr. Isam M. Arafa**, Chemistry department, Jordan University of Science and Technology, Email: [isamarafa@just.edu.jo](mailto:isamarafa@just.edu.jo)

**Dr. Raed M. Al-Zoubi**, Chemistry department, Jordan University of Science and Technology, Email: [rmzoubi@just.edu.jo](mailto:rmzoubi@just.edu.jo)

**Dr. Yahya R. Tahboub**, Chemistry department, Jordan University of Science and Technology, Email: [tahboub@just.edu.jo](mailto:tahboub@just.edu.jo)

**Dr. Amin T. Haj-Hussein**, Chemistry department, Yarmouk University, Irbid-Jordan. Email: [Haj-Hussein@yu.edu.jo](mailto:Haj-Hussein@yu.edu.jo)

**Dr. Nathir A. Al-rawashdeh**, Jordan University of Science and Technology, Email: [nathir@just.edu.jo](mailto:nathir@just.edu.jo)

**Dr. Abdulrahman Sh. Attiyat**, Chemistry department, Yarmouk University, Irbid-Jordan. Email: [attiyat@yu.edu.jo](mailto:attiyat@yu.edu.jo)