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**Dr. Samah Abbas Saleh Ata, Ph.D.**

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**Scientific Qualifications/ Education:**

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1. 2009/2010: **Ph. D.**, “Investigation of Reversing Adverse Biochemical Effects of Lead Poisoning by N,N` - Bis [(1,2-didehydro-1-hydroxy- 2-thioxopyrid-4-yl)-carbonyl] -L-Lysine”

Faculty of Science / Chemistry Department  
University of Jordan / Amman  
(Specialization: Bioinorganic and Analytical chemistry)

2. 2000/2001: **M.Sc.**, “ Spectrophotometric Study of the Inclusion Complexes of Ciproloxacin with Cyclodextrins in Aqueous Solutions”

Faculty of Science / Applied Chemistry Department  
Jordan University of Science & Technology / Irbid.  
(Specialization: Physical and analytical chemistry)

3. 1995 / 1996: **B.Sc.**, Chemistry (major), Biology (minor)

Faculty of Science / Chemistry Department  
Yarmouk University / Irbid

4. 1991/1992: The General Secondary Education Certificate Examination

Scientific Track.  
Al-Mafraq First Secondary School,  
Al- Mafraq/ Jordan

**Experiences:**

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**1. Research Assistance Experiences**

a. From 1/ 9 / 1996 to 1/ 7 / 1998: Faculty of Veterinary Medicine,. Jordan University of Science and Technology – Irbid-Jordan:

- I. Study on Caseous lymphadenitis in sheep/ serological test [ ELISA].

- II. Experimental study on Brucella meliterisis / serological test (ELISA, CFT, TAT, and RBT), Hematology.
- III. Iodine deficiency in sheep in Jordan determine and thyroid hormones ( T3, T4, TSH) using immunoassay test.
- IV. Electrophoresis/ isolation and separation of DNA of bacterial cells.
- V. Microbiology.

b. From Summer 2001 to summer 2003: Faculty of Science - Jordan University of Science and Technology / chemistry department- Irbid - Jordan:

- I. Physical Chemistry (study the inclusion process of several pharmaceutical products with cyclodextrin in aqueous and organic solvents)
- II. Organic chemistry (synthesis of dimer Steroids).
- III. Organometallic Chemistry ( synthesis an identification of some carbonyl compounds and applying kinetic studies)
- IV. Surfactant and industrial Applications (Study the inclusion process of surfactants with cyclodextrin in aqueous and organic solvents, determining the CMC value)

## 2. Teaching Assistance Experiences (Part Time):

a. From September 1998 to June 2000: Jordan University of Science and Technology / chemistry department- Irbid -Jordan:

- I. General Chemistry (Chem. 105,106, and 107)
- II. Application of Computer in Chemistry (Chem. 302)

b. Second semester (spring) 2002/2003: Jordan University of Science and Technology / chemistry department- Irbid - Jordan:

- I. Organic Chemistry (Chem. 213 and Chem. 214).

c. September 2006 to January 2010- University of Jordan / chemistry department-Amman-Jordan

- I. General Chemistry (Chem.109)
- II. Instrumental Methods of Analysis (Chem. 316)
- III. Experimental Inorganic Chemistry (Chem. 326)

d. Second semester 2009/2010 University of Jordan / chemistry department-Amman – Jordan:

- I. Instrumental Methods of Analysis (Chem. 316)

e. Second semester 2010/2011, Al albayte University /chemistry department-AlMafrq-Jordan:

- I. Analytical Chemistry (Chem 231)
- II. Analytical Chemistry lab (Chem 233)

### **3. Educational Teaching Experiences:**

a. 1998 , first semester: Ministry of Education – Um Al-Qoutteen Secondary School for girls, Al-Mafrq- Jordan, teaching the following subjects:

- I. Chemistry for 10<sup>th</sup>, 11<sup>th</sup> grad and 12<sup>th</sup> (Certificate Examination ).

b. 2003 to 2006 : Ministry of Education - Princess Eman Bent Al-Husain Secondary School for girls, Al-Mafrq- Jordan , teaching the following subjects:

- I. Chemistry and biology for 10<sup>th</sup> grad
- II. Chemistry for 11<sup>th</sup> grad and 12<sup>th</sup> (Certificate Examination )

**4. February 7<sup>th</sup>, 2010 – July 31<sup>st</sup> , 2010 , Researcher – PharmaquestJo (Drug Evaluation and Research) / Amman –Jordan.**

**5. August 1<sup>st</sup> 2010 – September 30<sup>th</sup> 2011, Clinical Data Manager, Clinical Quest (Clinical Research Services) / Amman-Jordan.**

**6. October 1<sup>st</sup> 2011 – now, Assistant professor, Faculty of pharmacy, Al-Zaytoonah University /Amman -Jordan**

### **Skills & Languages:**

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1. Languages (spoken & written): Arabic (Native).  
English (Very good).

2. Skills:

a. Computer skills:

- 1. Driving License: Computer & Internet (ICDL)
- 2. Analysis programs: Sigma plot and Graphs
- 3. Molecular modeling: **Hyper Chem.**

4. Statistical programs: SPSS and SAS

b. Laboratories skills: using the following instruments:

1. UV-Vis and Fluorescence spectroscopy,
2. FTIR
3. NMR
4. HPLC
5. Atomic Absorption Spectroscopy
6. DSC ( differential scanning calorometry),
7. Tesiometer (surface tension).
8. Electrophoresis
9. ELISA

c. Laboratory Animal Caring and Animal study.

**Training:**

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1. From 16/5 to 24/6/1996: Training in the Medical Laboratory - Al-Mafraq Hospital, Al-Mafraq- Jordan:

1. Hematology.
2. Microbiology.
3. Serology.
4. Blood chemistry.
5. Urine analysis.
6. Microscopic analysis.

2. October 2003-October 2004: The International Driving Licence –UNESCO:  
Basic concept or information technology:

1. Using the computer and managing files
2. Word processing
3. Spreadsheets
4. Database
5. Presentation
6. Information and communication

3. 13-15/4/2010: Clinical Trials, A Methodology Perspective , 15 training hours - Consultative Center for Science and Technology- Irbid/ Jordan , NYT- Amman/Jordan:

1. Introduction to clinical trials (clinical trials history, research process)
2. Good Clinical Practice (GCP)
3. Clinical Safety data management

4. Investigator selection
5. Subject recruitment, retention and compliance
6. Trial registration and publication.

4. 25<sup>th</sup> to 27<sup>th</sup> November/ 2010, Best Practice for Clinical trials, 3 days workshop - Pharmaceutical Training International- Britain and Clinical Quest (Clinical Research services) , Amman – Jordan:

1. Introduction to Clinical Research
2. Good Clinical Practice (GCP)
3. Regulatory updates
4. Introduction to Common Technical Documentation
5. Clinical Trials Documentation
6. Clinical Project Managements
7. Clinical Trials Supplies

### **Patents:**

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1. "1-hydroxy-2-thioxopyrid-4-carboxylic acid derivatives of amine, amino acids and amino acid ester, a process for their preparation and their potential utilization as drug for the chelation therapy of lead and other heavy metals from biological system", **Kamal Abu-Dari**, Amman, Jordan; **Maha F. Tutunji**, Amman, Jordan; **Manal Al Khabbas**, Amman, Jordan ; **Samah A. Ata**, Amman, Jordan, University of Jordan (pending for approval)

### **Conferences:**

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1. "Photostability Study of Ciprofloxacin with Cyclodextrins", Nathir A. F. Al-Rawashdeh, Khaled Q. Shawakfeh, **Samah A. Ata**, *Pure and Applied Chemistry Conference 2008 (PACCON 2008) Proceeding*, Bangkok, Thailand, **2008**, 416-421.

2. "Efficacy of a novel compound for reversing adverse biochemical effects in subchronic and acute lead intoxicated Wistar male rats", **Samah A. Ata**, Kamal I. Abu-Dari and Maha F. Tutunji. 11<sup>th</sup> Euroasia Conferance on Chemical Science (Dead Sea-Jordan 2010) Abstract Book, p52.

3. "N,N'-Bis[(1,2-didehydro-1-hydroxy-2-thioxopyrid-4-yl)-carbonyl]-L-Lysine(HTPL), A Potential drug for the chelation therapy of lead poisoning", Kamal I. Abu-Dari, Maha F.

Tutunji, **Samah A. Ata**, Manal Khabbas. 11<sup>th</sup> Euroasia Conferance on Chemical Science (Dead Sea-Jordan 2010) Abstract Book , p 50.

### **Publications:**

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1. Determination of Cefdinir in human plasma using HPLC coupled with tandem mass spectroscopy: Application to bioequivalence studies, Lara F Tutunji, Maha F Tutunji, Sireen A Shilbayeh, Mohammed Al-bayari, **Samah A Ata**, (manuscript for publication).
2. "Determination of Sibutramine and its *N*-desmethyl metabolites in human plasma using HPLC coupled with tandem mass spectroscopy: Application to bioequivalence studies", Lara F Tutunji, Maha F Tutunji, Mohammed Al-bayari, **Samah A Ata**, (manuscript for publication).
3. "1-hydroxy-2-pyridinethiones; synthesis, lead complexes and study of their efficacy in the treatment of lead poisoning", Manal Khabbas, Kamal I. Abu-Dari, Maha F. Tutunji, **Samah A. Ata**, (manuscript for publication)
4. "Efficacy of a novel compound for the treatment of lead poisoning in biological system. Part I: Reversing adverse biochemical effect of Subchronic lead intoxicated Wistar male rats", **Samah A. Ata**, Kamal I. Abu-Dari and Maha F. Tutunji (manuscript for publication)
5. "Efficacy of a novel compound for the treatment of lead poisoning in biological system. Part II: Reversing adverse biochemical effect of Acute lead intoxication in Wistar male rats", **Samah A. Ata**, Kamal I. Abu-Dari and Maha F. Tutunji, (manuscript for publication)

**References:**

<p><b>Prof. Kamal I. Abu Dari</b> Professor of Inorganic Chemistry Department of Chemistry University of Jordan JORDAN- -Amman Phone: +962 6 5355000 Ext. 22135 Fax: +962 6 5348932</p> <p>Mobile: +962 796100176</p> <p>e-mail: <a href="mailto:abudarik@ju.edu.jo">abudarik@ju.edu.jo</a></p>	<p><b>Prof. Maha F. Tutunji</b> Professor of Analytical Chemistry Department of Chemistry University of Jordan JORDAN -Amman</p> <p>Mobile: +962 795151121</p> <p>e-mail: <a href="mailto:maha.tutunji@clinicalquest.jo">maha.tutunji@clinicalquest.jo</a></p>	<p><b>Prof. Mohammed Khair Hourani</b> Professor of Analytical Chemistry Department of Chemistry University of Jordan JORDAN- -Amman Phone: +962 6 5355000 Ext. 22140 Fax: +962 6 5348932 Mobile: +962 777358639 e-mail: <a href="mailto:mhourani@ju.edu.jo">mhourani@ju.edu.jo</a></p>
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