Dr. Jalal N. Jeber

Contact Information

Faculty Member
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Date of Birth: 10-November-1983

Interests

- Chemical Sensors and Biosensors
- Flow Injection Analysis
- Drug delivery, development, validation and analysis.
- Bio analyses as markers for different diseases
- Validation methods in accordance with ICH guidelines for the appropriate phase of development
- Quantitative Analysis of Toxicology Samples Development of novel analytical methods.
- Direct analysis of active pharmaceutical ingredient samples through HPLC with ultraviolet, fluorescence, and mass spectrometry detection.
- Performing a detailed analysis and testing of soils, fertilizers, compost, feed, drinking and waste water for a wide range of heavy and toxic metals via ICP and AAS.
- Analyze, develop, and validate HPLC methods to test pharmaceutical drug products.
- Biochemistry: extraction, purification and characterization of proteins.
- Bionanotechnology
- Medical Chemistry
- Choosing the proper statistical method for analytical validation

Education

- **University of Baghdad/College of Science**,
  Baghdad, Iraq — September 2016 – September 2019
  PhD in analytical chemistry — (GPA 3.7/4.0 PhD degree with honor)

  Thesis title:"A newly developed instrument for determination of some drugs using Dual and Solo system for precipitated particulate in an instrumental on-line analysis homemade via CFIA"
  Taught subjects: Thermal analysis, advanced analysis of organic compounds, Advanced Inorganic chemistry, heterocyclic compounds, metals analysis, Physical chemistry, Nanochemistry, quantum chemistry, Molecular imprinted polymer (MIP), Biochemistry, Inductive coupled, Plasma(ICP), HPLC, GC-MS
  Thesis Grade: Distinction with honor (95 %)
- **University of Manchester/School of Chemistry**,
  Manchester, UK — September 2013 – September 2014
  MSc in analytical chemistry — (GPA 3.6/4.0 MSc)

  Thesis title:"Characterization Early Stage Aggregation of The Transthyretin Protein (TTR105-115) Using ESI-Mass Spectrometry "
  Taught subjects: Analytical Chemistry, Organic Chemistry, Inorganic Chemistry, Spectroscopy Techniques, Generic and Research Skills, Organometallic, Soft matter Chemistry, X-Ray Diffraction and Health and Safety induction
  Thesis Grade: Distinction

- **University of Baghdad/Department of Chemistry**,
  Baghdad, Iraq — September 2001 – September 2005
  BSc in chemistry — (GPA 3.7/4.0 BSc)

  Taught subjects: Analytical Chemistry, Organic Chemistry, Inorganic Chemistry, Physical chemistry, biochemistry.
  BSc Grade: Distinction

Awards and Fellowships

1. Prime minister of Iraq fellowship 2012 (HCED) Fellowship
2. President of University of Baghdad for publishing a paper in a scientific journal (clarivate Index Science Citation Index Expanded (SCI))2016 . Award.
3. Outstanding postgraduate student, University of Baghdad, College of Science 2019 [Top 5%] (Award).

Personal Achievements

1. Member of the Iraqi Chemists Association
2. Member of the Examination Committee of the Department of Chemistry
3. Member of the Association of Mesopotamian Scientists
4. Editor in Science Journal of Chemistry(SJC)ISSN Print: 2330-0981, ISSN Online: 2330-099X.
5. Peer-reviewer in Iraqi Journal of Science(Scopus index, 0067-2904)
6. Reviewer in Egyptian Journal of Chemistry (ISSN:0449-2285)
7. Peer-reviewer in Baghdad science journal (Scopus index, ISSN:2078-8665E-ISSN:2411-7986)
8. Member of the Postgraduate Studies Board

Conferences, professional societies and activities

1. Participate in Two workshops about(how to deal with the chemicals)
2. Participate in a seminar about "the relationship between research institutions and universities in research to harness the chemistry in the service of society.
3. Attending two conferences about the effect of chemistry science on the development of the industry field.
4. Attending 50 seminars which held at Iraqi universities.
5. Participate as a lecturer in a seminar about (Using nanotechnology in analytical Chemistry).
6. Participate in IEE(Impact of predatory of publishing on Research Quality):USA

Talks

1. Jalal N. Jeber. Postgraduate students research. 4th annual, college of medicine, University of Baghdad, 11/18/8112 [15 minutes, lightning talk].
2. Jalal N. Jeber. The development of nanochemistry and its applications. 1 st international scientific conference of the Faculty of Sciences/University of Baghdad, 01/11/2016 [10 minutes.]
3. Jalal N. Jeber. The chemistry among the Arabs. 2 nd international scientific conference in the Center for a revival of Arabic scientific heritage, 06/12/2017 [15 minutes.]

Computer Skills

- Expert In Most of The Microsoft Office Programs (Word, Excel, PowerPoint, Outlook, and Access).
- Expert In Microsoft Office Document Imaging and Scanning
- Expert In Latex
- Expert In Origin Pro
- Expert In Endnote
- Expert In Chem-Bio Office
- Expert In SPSS
- Expert In Sloid Works
- Expert In Sketch up
- Expert in Table curve 2D and 3D
- Expert in GraphPad Prism
- Expert in E-draw max
- Expert in Sigma plot

- Expert in 3D max
- Expert in Adobe Photo shop and acrobat

Professional Experience

1- University of Baghdad, College of Science,
Department of Chemistry, Baghdad, Al-Jadriya. Iraq. October 2009 – Present

Job description

Assistant Professor and researcher with 10+ years of experience teaching courses on undergraduate and postgraduate levels. Supervised 10 BSc theses. Published lots of articles in peer-reviewed journals. I taught a total of 6 undergraduate and 2 postgraduate courses, mainly focused on the principle of analytical chemistry, research methods, identify the metals, the principle of Mass spectrometry, GC and instrumental analysis. Member of the Postgraduate Studies Board from 2018 to present. The responsibilities of my job are the followings:

- Oversaw the general operation of the analytical laboratory.
- Maintained laboratory instruments and installed new laboratory equipment.
- Calibration and troubleshot laboratory instruments.
- Operated and maintained laboratory equipment including electron, optical and FTIR microscopes, thermal analysis instrumentation and mercury porosimeter.
- Authored Standard Operating Procedures and test methods in accordance with cGMP guidelines.
- Operate and maintain the HPLCs and ancillary equipment, maintaining proper logs and documentation in strict compliance with FDA, GLPs and writing technical reports.
- Diagnose and troubleshoot any issues that arise with the Agilent HPLC.

2- Technical Resources, private company, Kirkuk, Iraq. August 2005 – January 2008

Head of Water Analysis Lab

I worked for the Technical Resources for almost 3 years which is a private company responsible for the construction and maintenance of the water supplement projects for drinking consumption. First, I worked as a junior analysis in the lab and after a while, I became the head of it. My responsibilities were as follow:

- Quantitative Analysis of Toxicology Samples Development of novel analytical methods.
- Served as a lab assistant to senior analyst.
- Maintained laboratory instruments and installed new laboratory equipment
- Analyzed final product samples, and intermediate samples from producing departments.
- Recorded test results using a variety of chemistry-specific software programs.
- Organized lab test solutions, compounds, and reagents.
- Interpreted test results and developed nonstandard tests.
- Direct analysis of water samples through high-performance liquid chromatography with ultraviolet, fluorescence, and mass spectrometry detection.
- Extractions of water samples for analysis through gas chromatography with flame ionization,

electron capture, and mass spectrometry detection.

- Soil, feed, and biological matrix extractions accomplished using diverse solid and liquid phase techniques.
- Comprehensive physical maintenance of Agilent instrumental systems.

Technical Skills

Expertise with the following chemical instruments:

- Gas chromatography (GC/FID)
- Mass spectrometry (GC/MS)
- Liquid chromatography (LC/MS)
- Fourier-transform infrared spectroscopy (FTIR)
- Atomic absorption spectrophotometer (AAS)
- 1D-NMR (multinuclear)
- UV/Vis
- Thermal analysisi DSC and TGA
- pH , conductivity and turbidity meters
- Atomic Force Microscopy (AFM)
- Electrophoresis (EP
- PCR

Social Skills

Teamwork is the collaborative effort of a group to achieve a common goal or to complete a task in the most effective and efficient way. This concept is seen within the greater framework of a team, which is a group of interdependent individuals who work together towards a common goal. Therefore,

- I have participated and organized lots of several study groups during my studies both in the United Kingdom and in Iraq.
- have been part of the national coordination council for the creation of the Analytical Chemistry without the border.
- I have volunteered in many of nonprofit to help and support a student to get their goals.

Intercultural skills

I have lived, studied and worked in three different countries (Italy, Spain, France and UK) and I have learned that cultural aspects have a strong influence in both professional and personal relations. So I have gained and learned lots of things such as:

- Strong communication throughout the interview and selection process.
- The ability to speak foreign languages.

- Experience studying overseas.
- Experience working overseas.

Language skills

I have taken a pre-sessional English language course for 6 moths in University of Manchester, English language center. I have pass the exam with 7.0 IELTS score with verified certificate.

Mother language	Arabic
Second Language	English
Reading Skills	Excellent
Writing Skills	Excellent
Speaking Skills	Excellent
Listening Skills	Excellent

Professional Training

- Participate in training course and workshop about "HPLC" at Manchester University for (2 week)
- Participate in training course and workshop about "GC-MS" at Manchester University (2 week)
- Participate in training course and workshop about "NMR+X-Ray" at Manchester University (4 week)

Publications

- Jeber, Jalal N., "Using the Water Quality Index as a Powerful Tool to Assess the Water Quality for Drinking Purposes in Al-Salam, Western Region of Baghdad City, Iraq",*Journal of Global Pharma Technology 11 (3), 76-88*, 2019
- Jeber, Jalal N., Hassan, Raad F., "Solid Phase Extraction of Theophylline in Aqueous Solutions by Modified Magnetic Iron Oxide Nanoparticles as an Extractor Material and Spectrophotometry Technique for the Determination",*RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT 23((Special Issue I) May (2019)):94*, 2019
- Jeber, Jalal N., "QUANTITATIVE DETERMINATION OF EPHEDRINE HYDROCHLORIDE IN PHARMACEUTICAL INJECTIONS BY HIGHLY SENSITIVE TURBIDIMETRIC AND REVERSED-PHASE COMBINED WITH UFLC METHODS",*Chemistry and Chemical Technology 13 (No: 2), 269-274*, 2018
- Maher, Ahmed Abd., Jeber, Jalal N., "Based on Water Quality Index, An Assessment of the Water Quality at Some Areas of Anbar City, West Iraq",*International Journal of Science and Research (IJSR) 6(5)*, 2017
- Hmood, Mohammed K., Jeber, Jalal N., "Two Techniques (Spectrophotometric and Turbidimetric) for Determination of Ciprofloxacin HCl in Pharmaceutical Drugs with Comparison between the Techniques",*Iraqi Journal of Science 57 (3A), 1620-1628*, 2016
- Hassan, Hathama R., Jeber, Jalal Nl., "Determination of Lead Metal in roadside plants in some of Baghdad's Highways, Iraq",*Journal of Chemical and Pharmaceutical Research 8 (4), 186-191*, 2016

REFERENCES

- 1-Prof. Dr. Hathama R. Hasan
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- 2- Prof. Dr. Raad Filah Hasan

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- 3-Prof. Dr. Mohammed K. Hmood

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DRIVING LICENSE **Yes**

Note Note: All the training courses, workshops and other activities that I mentioned in my CV are with verified certificates. So, if you need any one of them them let me know to send it to you.
Regards