



## Mousa Khames Mezel Magharbeh

Sakka, Al-Karak, Jordan

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### EDUCATION AND QUALIFICATION

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<b>The University of Jordan, Jordan</b> <b>Doctor of Philosophy</b> <i>PhD Thesis</i> "Preparation of a natural standard reference material (SRM) for El-Lajjun oil shale/Jordan "	<b>2005– 2010</b>
<b>Mutah University, Jordan</b> <b>Master in Chemistry</b>	<b>1995 – 2000</b>
<b>Mutah University, Jordan</b> <b>Bachelor of Chemistry</b>	<b>1991 – 1995</b>

### RESEARCH SKILLS

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- Professional user of HPLC.
- Professional user of flame photometer and spectrophotometer.
- Outstanding experience in using atomic absorption spectroscopy(AAS)
- Outstanding experience in using mass spectrometry (GC/MS).
- Outstanding experience in using FTIR
- Conducting the analytical assays for in vitro drug analysis.
- Inter-laboratory comparison of SRM
- Elemental analysis
- Extraction and digestion of samples
- Proficient user of statistical analysis software (Chemdraw, SigmaPlot and Graphpad Prism).
- Instruments maintenance and troubleshooting abilities.

### TEACHING / LECTURING EXPERIENCE

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<b>Faculty of pharmacy, Mutah University, Jordan</b> <b>Assistant professor of Analytical Chemistry</b>	<b>Sep 2014 – present</b>
<ul style="list-style-type: none"><li>• Delivering lectures for course in General chemistry</li><li>• Delivering lectures for course in Analytical chemistry</li><li>• Delivering lectures for course in Pharmaceutical Instrumental Analysis</li><li>• Delivering lectures for course in Practical general chemistry</li><li>• Delivering lectures for course in practical analytical chemistry</li><li>• Delivering lectures for course in practical Pharmaceutical Instrumental Analysis</li></ul>	

**Al Balqa Applied University, Jordan**

**Assistant professor of Analytical Chemistry**

**Feb 2011-sep 2011**

- Delivering lectures for course in Organic Chemistry theory and practical
- Delivering lectures for course in Analytical Chemistry theory and practical
- Delivering lectures for course in Biochemistry theory and practical
- Delivering lectures for course in Instrumental Analysis theory and practical
- Delivering lectures for course in Quality Assurance

**University of Tabuk, Kingdom of Saudia Arabia**

**Sep 2011 – Sep 2012**

**Assistant professor of Analytical Chemistry**

- Delivering lectures for course in General Chemistry

**Al Balqa Applied University, Jordan**

**lecturer of Chemistry in Al Balqa Applied University**

**2006-2011**

**Mutah University, Jordan**

**2000-2006**

**Teaching assistant (TA) in Chemistry Department**

**Ministry of educational, Jordan.**

**1995-2000**

**Teacher of science and chemistry**

**CONFERENCES AND WORKSHOPS ATTENDED**

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1-the 10th International Conference of Jordanian Geologists Association and The 7th International Symposium on Middle East Gology that were held in Amman – Jordan, 3-5 April 2011.

2-Workshop in Vocational training center for undergraduate university students and teachers in Jordan , In the Oporto Training Week at ISPAP/P&B from 17 to 21th . Co-funded by the Erasmus + Program of the European Union  
Oporto, Portugal 24th April 2017.

3- Workshop in Vocational training center for undergraduate university students and teachers in Jordan, In the Leipzig Training Workshop at Leipzig University of Applied Science from 11th to 17th March 2018.

Co-funded by the Erasmus + Program of the European Union  
Leipzig ,Germany 17th March 2018.

4-“Active Pedagogical Techniques in Higher Education: Combining Multidisciplinary Learner-Centered Educational Experience from Egypt, Germany, Malaysia and the United State”, Mutah, Jordan (2018)

5-The first international conference of faculty of pharmacy, Mutah University " Advanced technology in pharmaceutical sciences" Dead Sea, Jordan . 18-19 April, 2018.

## SKILLS

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- Languages: English: very good Written and spoken.
- Computer Skills: WinWord, Excel, PowerPoint, Internet and mailing (ICDL certified).
- Personal Skills: Excellent presentation skills, effective working individually or as a part of a team, gain Experience and skills quickly, utilization of interactive teaching; datashow; powerpoint presentation; seminars and workshops.

## ADMINISTRATIVE WORK

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- **Head of Pharmaceutical chemistry Department (2017 -2018)**
- **Head of Pharmaceutical chemistry Department (2021 -2022)**
- **Assistant Dean for Student Affairs(2021 -2022)**
- Member of the quality assurance and accreditation committee
- Member of the libraries committee
- Member of the Pharmaceutical Study Plan committee
- Member of the examination control office

## RESEARCH INTEREST

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- Analysis and treatment of Jordanian Oil shale
- Using of Medicinal plants in medicine
- Treatment of waste water pollutants

## REFEREES

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1-Manar Khaled Fayyad

Prof. Analytical Chemistry

Email: [manar.fayyad@gnu.edu.jo](mailto:manar.fayyad@gnu.edu.jo)

2-Mufeed I. Batarseh

Prof. Analytical Chemistry

Email: [batarseh@mutah.edu.jo](mailto:batarseh@mutah.edu.jo)

## PUBLICATIONS

ORCID: 0000-0002-9638-2108

- **Mousa Magharbeh**, Manar Fayyad, Mufeed Batarseh. Preparation of natural standard reference material (SRM) for El-lajjun oil shale, The Jordan journal of earth and environmental sciences (JJEES) .2012. 4(2):15-22.
- **Mousa Magharbeh**, Manar Fayyad, Mufeed Batarseh. Inter-laboratory comparison measurements of constituents of oil shale standard reference sample (SJL-), Chemistry and Materials Research. 2014. 6(4): 33-43.
- Saied M. I. Al-Dalaen\*, Abdul-Wahab R. Hamad, Fawaz Al-Saraireh, RawanNayef Alkaraki, **Mousa Khames Mezel Magarbeh** and Fahil M. Abid. Bioavailability and Bioequivalence of Allopurinol in Two Tablet Formulations. Biomedical & Pharmacology Journal, June 2020. 13(2):789-798.

- **Magharbeh Mousa K.** , Al-Hujran Tayel A., Al-Jaafreh Ahmad M., Alfarrayeh Ibrahim I. and Ebada Sherif S. Phytochemical Screening and in vitro antioxidant and antiurolithic activities of *Coffea arabica*. *Research Journal of Chemistry and Environment*. (2020) .24 (12) December:109 -114.
  
- **Mousa K. Magharbeh** , Tayel A. Al-Hujran,Saied M. I. Al-Dalaen and Abdul-Wahab R. Hamad. Assessment of *Paronychia Argentea* Extraction on Kidney Stone By Using Calcium Oxalate Method. *Biomedical & Pharmacology Journal*, December 2020. 13(4), : 1745-1754.
  
- **Mousa K. Magharbeh**, Tayel A. Al-Hujran, Sherif S. Ebada. Herbal treatment for urinary stones using crude aqueous and fractionated methanol extract of *Prosopis fracta* cultivated in Jordan. *Mutah Lil-Buhuth ead-Dirasat Mutah Journal for Research and Studies*. March 2020 .36(1), :51-74
  
- Tayel A. Al-Hujran, **Mousa K. Magharbeh**, Hayat A. Al-Btoush, Abdallah A. Al-Ja'afreh, Yasser Gaber. GC-mass determination for the biodegradative products of 2,6-dimethylpyridine using Dead-Sea bacterial isolate . *Research Journal of Chemistry and Environment*; September 2021. 25(9), : 1-8.
  
- Abdul-Wahab R. Hamad, Saied M. I. Al-Dalaen, Tayel A. Al-Hujran, Hayat AlBtoush, Lidia AlHalaseh, **Mousa K. Magharbeh**, Nariman A. Al-Jawabri and Fadil M. Abid. Bioavailability and Bioequivalence of two oral single dose of ibuprofen 400 mg to healthy volunteers. *Biomedical & Pharmacology Journal*,March 2021.14(1), :435-444
  
- Tayel A. Al Hujran, , **Mousa K. Magharbeh**, Samer Al-Gharabli, Rula R. Haddadin, Manal N. Al Soub and Hesham M. Tawfeek . Studying the Complex Formation of Sulfonatocalix[4]naphthalene and Meloxicam towards Enhancing Its Solubility and Dissolution Performance. *Pharmaceutics*, 30 June 2021, 13, 994.
  
- Salah H. Aljbour, Khaled M. Khleifat, Amjad Al Tarawneh, Batool Asasfeh, Haitham Qaralleh, Tayel El-Hasan, **Mousa K. Magharbeh**, Muhamad O. Al-Limoun. Growth Kinetics and Toxicity of *Pseudomonas fredriksbergensis* Grown on Phenol as Sole Carbon Source. *Journal of Ecological Engineering* 2021, 22(10), 251–263.
  
- Tayel A. Al Hujran, **Mousa K. Magharbeh**, Almeqdad Y. Habashneh, Rasha S. Al-Dmour, Ashraf Aboelela and Hesham M. Tawfeek . Insight into the Inclusion Complexation of Fluconazole with Sulfonatocalix[4]naphthalene in Aqueous Solution, Solid-State, and Its Antimycotic Activity. *Molecules* 2022, 27, 4425.
  
- Fawaz Al-Saraireh, Abdul-Wahab R. Hamad, **Mousa Khames Mezel Magarbeh**, Tayel A. AL-Hujran and Mutasem Elfalah. Analysis of Metals in Cataract Fluid of Jordanian Patients by Using the Inductively Coupled Plasma Optical Emission Spectrometry. *Biomedical & Pharmacology Journal*, March 2022. 15(1), 515-521.

- **Mousa K. Magharbeh**, Khaled M Khleifat; Mohammad A. Al-kafaween, Razan Saraireh, Moath Alqaraleh, Haitham Qaralleh, Amjad Al-Tarawneh, Muhamad O. Al-limoun, Tayel El-Hasan, Tayel Hujran, Salah H. Ajbour, Nabeel Jarrah, Malik Amonov, Hamid Ali Nagi Al-Jamal. Biodegradation of Phenol by Bacillus simplex: Characterization and Kinetics Study. Applied Environmental Biotechnology 2021 6(2).1-12.
  
- Rasha M. Hussein, Ahmed M. Youssef, **Mousa K. Magharbeh**, Saed M. Al-Dalaen, Nariman A. Al-Jawabri, Taymaa N. Al-Nawaiseh, Abdullah Al-Jwanieh, and Fakhir S. Al-Ani. Protective Effect of Portulaca oleracea Extract Against Lipopolysaccharide-Induced Neuroinflammation, Memory Decline, and Oxidative Stress in Mice: Potential Role of miR-146a and miR-let 7. Journal of Medicinal Food 2022. 25(8).
  
- Wael Abu Dayyih , Mohammad Hailat , Tayel A. Al Hujran , **Mousa Magharbeh** , Zainab Zakaraya, Lina Al Tamimi , Aseel M. Aburumman , Hamza Abumansour , Riad Awad. Spectrophotometric analysis of empagliflozin tablets as SGLT2 inhibitors in pharmaceutical samples. Journal of Applied Pharmaceutical Science. , 2022 .0(00), .001-007.