

## CURRICULUM VITAE

### Mohammad Khaled Mohammad Abu Sini

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#### 1. Personal Data

Date of Birth: 16<sup>th</sup> of December. 1981

Nationality: Jordanian

#### 2. Education

- Ph.D. (Biological Sciences/Microbiology) 2014, The University of Jordan, Amman, Jordan
- M.Sc. (Biological Sciences/Mycology) 2006, The Hashemite University, Zarqa, Jordan
- B.Sc. (Biological Sciences) 2003, The Hashemite University, Zarqa, Jordan

#### 3. Ph.D. Dissertation

*In-Vitro and In-Vivo Evaluation of Synthetic Triazoloquinolone Derivatives against Helicobacter pylori*, The University of Jordan, Amman, Jordan.

#### 4. Employment

##### Academic Positions

- Assistant Professor, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan  
February 1, 2014 – now
- Instructor, Ministry of Education, Ajloun & Amman, Jordan  
2005-2014



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- Graduate Assistant, Department of Biology and Biotechnology, The Hashemite University, Zarqa, 2003-2005

#### Administrative Positions

- Not Applicable

#### 5. Research Interests

- Isolation, identification and characterization of pathogenic bacteria from different sources including various clinical cases and water.
- Antimicrobial activity of synthetic compounds and natural products.
- Antimicrobial resistance.
- Establishment of an *in vivo* system for *H. pylori* infection.

#### 6. Membership in Scientific Societies and Associations

- Not Applicable

#### 7. Honors and Awards

- Honored for participation in receiving the Faculty of Pharmacy the first Quality Assurance Certificate from Accreditation and Quality Assurance Commission for Higher Education Institutions in Jordan, 2017.

#### 8. Fellowships and Scholarships

- Not Applicable

#### 9. Teaching Experience

- *Graduate Courses*

- Not Applicable

- *Undergraduate Courses*

1. Pharmaceutical Microbiology 1
2. Pharmaceutical Microbiology 2
3. Pharmaceutical Microbiology Laboratory
4. Microbiology for Nurses
5. Immunology
6. Biology
7. Biology Laboratory
8. Physiology 1
9. Physiology for Nurses



## 10. Supervision of Graduate Research

- Master Students
- 1. Rafeef A. Maharmah: Evaluation of compounding practices that increases the risk of microbial spoilage of pharmaceutical products in Jordanian community pharmacies, 2020.
- 2. Rana Ahmad Derbas: Microbial Infections Profile and Pattern for Diabetic Foot Ulcers in Jordanian Patients, 2022.

## 11. Grants

- *Isolation, identification and characterization of soil bacteria from Jordan and evaluation of their antimicrobial activity*, 2019, Deanship of Scientific Research and Innovation, Al-Zaytoonah University of Jordan. Grant No. (09/18/2018-2019).
- *Design, Synthesis and Biological Evaluation of Novel Recognition Motifs for Retinoic Acid Signaling Pathway with Potential Fluorescence Tracking*, 2019, Deanship of Scientific Research and Innovation, Al-Zaytoonah University of Jordan. Grant No. (03/18/2018-2019)
- *Synthesis and Characterization of Biodegradable Polyesters Derived from Bio-based Products*, 2015, Deanship of Scientific Research and Innovation, Al-Zaytoonah University of Jordan. Grant No. (09/34/2015)

## 12. Patents

- Not Applicable.

## 13. Membership of Committees

- **National and International**
  - Not Applicable
- **University**
  - *The University Council (member).*
  - *The Committee for Quality Assurance, a Faculty committee (member).*
  - *The ACPE Committee, a Faculty committee (member).*
  - *The Committee for Cultural, Social and Sport activities, a Faculty committee (member).*
  - *The Committee for Curriculum and Educational Resources, a Faculty committee (member).*
  - *The Committee for Computing and E-learning, a Faculty committee (member).*
  - *The committee for Examinations and Evaluations, a Faculty committee (member).*
  - *The committee for Scientific Research, a Faculty committee (member).*
  - *The committee for Equivalency and Advising, a Faculty committee (member).*



#### 14. Professional and Scientific Meetings

##### *Scientific Meetings Organized*

- Not Applicable

##### *Participation in Scientific meetings*

- *Al-Zaytoonah University of Jordan, The 8<sup>th</sup> international pharmaceutical conference (ZIPC 2022). "Promising Prospective in Pharmaceutical Sciences". Amman 18-19 Oct 2022.*
- *The School of Pharmacy 2021 conference - The University of Jordan. Held blended on 7 – 8 April, 2021 Amman, Jordan.*
- *Al-Zaytoonah University of Jordan and the University of Toledo, The 7<sup>th</sup> international pharmaceutical conference (ZTIPC 2019). ". Amman 06-09 Nov 2019.*
- *Al-Zaytoonah University of Jordan and the University of Toledo, The 6<sup>th</sup> international pharmaceutical conference (ZTIPC 2017). "New horizons in pharmaceutical research". Amman 29-30 Nov 2017.*
- *ASU-Pharmacy Fourth Conference. "Recent Trends in Postgraduate Research". Amman, 15-16th April 2017.*
- *Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference (ZTIPC 2015). "Frontiers in the pharmaceutical sciences and pharmacy practice: A global perspective". Amman, 21-23th October 2015.*
- *ASU-Pharmacy First National Conference. "Recent Trends in Postgraduate Research". Amman, 20-21th December 2014.*
- *The 15<sup>th</sup> Scientific Congress of the Association of the Pharmacy Colleges in the Arab World & The 3<sup>rd</sup> International Conference of the Faculty of Pharmacy / The University of Jordan. "RECENT TRENDS AND ADVANCES IN PHARMACY". Amman, 9-11th October 2012.*

#### 15. Participation in or organization of curricular and/or extra-curricular activities

- Not Applicable

#### 16. Publications

Provide numbered lists of:

- Papers in refereed journals

1. Mayyas Amal, Abu-Qatouseh Luay, **Abu Sini Mohammad**, Amr Rula, Akasheh T. Rand, Alrabadi Nasr, Darwish M. Rula and Aburjai Talal, *Fighting H. pylori with Medicinal Plants: A Study on Jordan's Traditional Remedies*,

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- Current Traditional Medicine 2024; 10(0)  
: e160823219806 . <https://dx.doi.org/10.2174/2215083810666230816095403>
2. Hamed R, Abu Alata W, **Abu-Sini M**, Abulebdah DH, Hammad AM, Aburayya R. *Development and Comparative Evaluation of Ciprofloxacin Nanoemulsion-Loaded Bigels Prepared Using Different Ratios of Oleogel to Hydrogels*. Gels. 2023; 9(7):592. <https://doi.org/10.3390/gels9070592>
  3. Hussein, B., L. M. S. Bourghli, M. Alzweiri, Y. Al-Hiari, **M. Abu Sini**, S. Alnabulsi, and B. Al-Ghwairi. *Synthesis and Biological Evaluation of Carbonic Anhydrase III and IX Inhibitors Using Gas Chromatography With Modified PH Sensitive Pellets*. Jordan Journal of Pharmaceutical Sciences, vol. 16, no. 2, July 2023, pp. 426-39, [doi:10.35516/jjps.v16i2.1470](https://doi.org/10.35516/jjps.v16i2.1470)
  4. **Mohammad Abu-Sini**, Mohammad A. Al-Kafaween, Rania M. Al-Groom, Abu Bakar Mohd Hilmi. *Comparative in Vitro Activity of Various Antibiotic against Planktonic and Biofilm and the Gene Expression Profile in Pseudomonas aeruginosa*. AIMS Microbiology, 9(2), (2023), 313-331. DOI: [10.3934/microbiol.2023017](https://doi.org/10.3934/microbiol.2023017)
  5. **Abu-Sini, M.K.**; Maharmah, R.A.; Abulebdah, D.H.; Al-Sabi, M.N.S. *Isolation and Identification of Coliform Bacteria and Multidrug-Resistant Escherichia coli from Water Intended for Drug Compounding in Community Pharmacies in Jordan*. Healthcare, 11(3), (2023), 299. <https://doi.org/10.3390/healthcare11030299>.
  6. Al-Masri, E., Al-Refai, M., Al-Masri, H. T., Ali, B. F., Makhseed, S., Salah, L., Ghazal, B., Geyer, A., Ivlev, S. I., & **Abu-Sini, M.** *Synthesis, characterization, crystal structure, and fluorescence behavior of new 4-aryl-6-(2,5-dichlorothiophen-3-yl)-2-methylpyridine-3-carbonitrile derivatives*. Journal of Molecular Structure, 1271, (2023), 134034. DOI: <https://doi.org/10.1016/j.molstruc.2022.134034>
  7. Majed Shtaiwi, Nayyef Aljaar, Lana Al-Najjar, Chandi C. Malakar, Amneh Shtaiwi, **Mohammad Abu-Sini** & Mahmoud Al-Refai. *Design, Synthesis, Biological Activity, and Molecular Modeling of Novel Spiroquinazoline Derivatives as Acetylcholinesterase Inhibitors for Alzheimer Disease*, Polycyclic Aromatic Compounds, (2022). DOI: <https://doi.org/10.1080/10406638.2022.2144911>
  8. Ibrahim, A.I.M.; Abul-Futouh, H.; Bourghli, L.M.S.; **Abu-Sini, M.**; Sunoqrot, S.; Ikhmais, B.; Jha, V.; Sarayrah, Q.; Abulebdah, D.H.; Ismail, W.H. *Design and Synthesis of Thionated Levofloxacin: Insights into a New Generation of Quinolones with Potential Therapeutic and Analytical Applications*. Curr. Issues Mol. Biol., 44(10), (2022), 4626-4638. DOI: <https://doi.org/10.3390/cimb44100316>
  9. Al-kafaween, M.A., **Abu-Sini, M.** and Al-Jamal, H.A.N. *Antibiotic Susceptibility and Differential expression of virulence genes in Staphylococcus aureus*. Applied Environmental Biotechnology, 7(1), (2022), 6-15. DOI: <http://doi.org/10.26789/AEB.2022.01.002>



10. Luay Al-Essa, Mohammad Hasan Abunaja, Lama Hamadneh, **Mohammad Abu-Sini**. *Mapping the Intensive Care Unit Environment and Health Care Workers for Methicillin-Resistant Staphylococcus aureus with mecA Gene Confirmation and Antibacterial Resistance Pattern Identification in a District Hospital in Amman*, Kuwait Medical Journal, 53(3), (2021), 265-270.
11. Mayyas A, **Abu-Sini M**, Amr R, Akasheh RT, Zalloum W, Khair A, Hamad I, Aburjai T, Darwish RM, Abu-Qatouseh L. *Novel in vitro and in vivo anti-Helicobacter pylori effects of pomegranate peel ethanol extract*, Veterinary World, 14(1), (2021), 120-128. DOI: [www.doi.org/10.14202/vetworld.2021.120-128](http://www.doi.org/10.14202/vetworld.2021.120-128)
12. Shukur MI, Ibrahim AK, AL-Taie OK, AL-Rawi SK, **Abu Sini MK**. *Predominant Actinobacteria baumannii among bacterial isolates from neonatal bacteremia and their antimicrobial susceptibilities*, Ann Trop Med & Public Health; 23(S16), (2020), SP231623. DOI: <http://doi.org/10.36295/ASRO.2020.231623>
13. Sweidan KA, Al-Shamaileh AM, **Abu Sini MK**, Joshi R. *Synthesis, characterization and antimicrobial evaluation of some new substituted 1H-indole-2 carboxamide derivatives*, J. Indian Chem. Soc; 97(9b), (2020), 1557-1562. DOI: <http://doi.org/10.5281/zenodo.5657219>
14. Mahmoud, I.S.; Altaif, K.I.; **Abu Sini, M.K.**; Daoud, S.; Aqel, N.N. *Determination of antimicrobial drug resistance among bacterial isolates in two hospitals of Baghdad*. Jordan Journal of Pharmaceutical Sciences, 13(1), (2020), 1–9.
15. Ihsan Shabeeb, Luay Issa, Majed Shtaiwi, Eveen Al-Shalabi, Eyad Younes, Rouzi Okasha and **Mohammad Abu Sini**, “*New Hydrazide-Hydrazone Derivatives of Quinoline 3-Carboxylic Acid Hydrazide: Synthesis, Theoretical Modeling and Antibacterial Evaluation*”, Letters in Organic Chemistry, 16 (5), (2019) 430-436. DOI: <https://doi.org/10.2174/1570178616666181227122326>.
16. **Abu-Sini M**, Mayyas A, Al-Karablieh N, Darwish R, Al-Hiari Y, Aburjai T, Arabiyat S, Abu-Qatouseh L. *Synthesis of 1,2,3-Triazolo[4,5-h]quinolone Derivatives with Novel Anti-Microbial Properties against Metronidazole Resistant Helicobacter pylori*. Molecules. 22(5), (2017), 841. DOI: <https://doi.org/10.3390/molecules22050841>.
17. Abu-Qatouseh L, **Abu-Sini M**, Mayyas A, Al-Hiari Y, Darwish R, Aburjai T. *Synthesis of New Nitrofluoroquinolone Derivatives with Novel Anti-Microbial Properties against Metronidazole Resistant H. pylori*. Molecules. 22(1), (2017), 71. DOI: <https://doi.org/10.3390/molecules22010071>.
18. Abu-Qatouseh, L., **Abu-Sini, M.**, Amal Mayyas, A., Darwish, R., Aburjai, T., Qusai abdoh, Q., & Sabri, I. *Molecular characterization and antibiotic susceptibility profiles of Helicobacter pylori isolated from patients with Gastrodeudenal diseases in Jordan*. The International Arabic Journal of Antimicrobial Agents, 6(3), (2016), 1-10. DOI: <https://doi.org/10.3823/794>.



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19. **Abu Sini, M.K.**, Abu-Elteen, K.H., Elkarmi, A.Z., Hamad, M.A. and Khuzaie, R.F. *Influence of Various Ultraviolet Light Intensities on Pathogenic Determinants of Candida albicans*. *Biotechnology*, 6(2), (2007), 210-217. DOI: <https://doi.org/10.3923/biotech.2007.210.217>.

- Books and Book Chapters
  - Not Applicable
- Conference Presentations
  - Not Applicable
- Reports
  - Not Applicable