

CURRICULUM VITAE

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1. Personal Data

Date of Birth: 1st of April, 1972

Nationality: Jordanian

2. Education

- Ph.D. (Chemistry) 1998, University of Manchester Institute of Science and Technology, Manchester, UK
- B.Sc. (Applied Chemistry) 1993, Jordan University of Science and Technology, Irbid, Jordan

3. Ph.D. Dissertation

Studies Related to Anthracyclines, University of Manchester Institute of Science and Technology, Manchester, UK

4. Employment

Academic Positions

- Assistant Professor, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan. [March 1, 2015 – now].



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- Assistant Professor, Al-Qunfudah University College, Umm Al-Qura University, Al-Qunfudah, Saudi Arabia. [September 28, 2010 – January 16, 2013].
- Assistant Professor, Department of Chemistry, Al-Hussein Bin Talal University, Ma'an, Jordan. [September 26, 2004 – September 11, 2011].
- Full-Time Lecturer, Department of Chemistry, Jordan University of Science and Technology, Irbid, Jordan. [February 11, 2001 – June 13, 2002].

Administrative Positions

- Business Development Manager, Jordan Company for Antibody Production (MONOJO), Amman, Jordan. [October 2013 – January 2015].
- Head of Chemistry Department, Al-Hussein Bin Talal University, Ma'an, Jordan. [September 2005 – September 2006].

5. Research Interests

- Organic Synthesis
- Medicinal Chemistry
- Dendrimers and Polymers

6. Membership in Scientific Societies and Associations

- None

7. Honors and Awards

- None

8. Fellowships and Scholarships

- None

9. Teaching Experience

- *Graduate Courses*

None

- *Undergraduate Courses*

1. Organic Chemistry courses



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2. Practical Organic Chemistry courses
3. Polymer Chemistry
4. General Chemistry courses
5. Practical General Chemistry courses
6. Chemistry of Heterocyclic Compounds
7. Spectroscopy of Organic Compounds

10. Supervision of Graduate Research

None.

11. Grants

1. *Design and Synthesis of Novel Tetraamides Based on a Non-novel Traditional Trio*, April 2023 – April 2024, Al-Zaytoonah University of Jordan, 7,950 JD. (Principal Investigator)
2. *Design, Synthesis and Biological Evaluation of a New Series of Carbonic Anhydrase Inhibitors*, April 2019 – January 2022, Al-Zaytoonah University of Jordan, 25,843 JD. (Co-Investigator)
3. *Preparation of New Polymer Scaffold Bearing Antioxidant Natural Products*, May 2019-September 2021, The Hashemite University, 8,000 JD (Co-Investigator).
4. *Synthesis and Characterization of Biodegradable Polyesters Derived from Bio-based Products*, December 2015 – August 2017, Al-Zaytoonah University of Jordan, 69,000 JD. (Principal Investigator)
5. *Design, Synthesis and Application of New Sulfonate Ester Dendrimers*, February 2016 – February 2017, Jordan University of Science and Technology. Irbid, Jordan, 6,050 JD. (Co-Investigator)
6. *Polysulfonimide Dendrimers: Design, Synthesis, and Applications*, June 2009 – September 2009. Chemnitz University of Technology, Chemnitz, Germany. (DFG Grant)
7. *Tomato Seed Oil: Extraction, Composition, Properties, and Uses*, September 2005 – September 2007, Al-Hussein Bin Talal University, Ma'an, Jordan, 6,700 JD. (Principal Investigator)

12. Patents

- Not Applicable

13. Membership of Committees

- **National and International:**
 - *Examination Committee of the following postgraduate students:*
 - 1) *Facile, One Pot and Gram Scale Synthesis of 3,4,5-*



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Triiodoanisole Through a C-H Iodination/Ipso-Iododecarboxylation Strategy: Potential Application Towards 3,4,5-Trisubstituted Anisoles, Mariam Adel Al-Zoubi, Jordan University of Science and Technology, 2016.

- **University:**
 - *The Committee for Scientific Research, a Faculty committee (member).*
 - *The Committee for Curriculum and Educational Resources, a Faculty committee (member).*
 - *The Committee for Laboratories, a Faculty committee (Chair).*
 - *The Committee of the Detection of the Remaining Equipment in the Warehouses of the Supplies Department, a University committee (Chair).*

14. Professional and Scientific Meetings

Scientific Meetings Organized

- None

Participation in Scientific meetings

- *Al-Zaytoonah 8th International Pharmaceutical Conference 2022 (ZIPC 2022), Amman, Jordan, 18th to 20th of October, 2022.*
- *Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2019), Amman, Jordan, 6th to 7th of November, 2019.*
- *Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman, Jordan, 29th to 30th of November, 2017.*
- *Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman, Jordan, 29th to 30th of November, 2015.*
- *Financial Management Skills, organized by Business Development Center, Amman, Jordan, 3/2014 (4-Day training workshop)*
- *Entrepreneurship Training Workshop "Empretec", organized by Business Development Center, Amman, Jordan, September 2013 (5-Day training workshop)*



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- *Modern Training and Pruning Systems in Olive Trees*, organized by Jordan Agriculture Engineers Association, Syria, April 2004 (5-Day training workshop)
- *Strategic Management*, organized by Royal Scientific Society, Amman, Jordan, May 2003 (5-Day course)
- *Chemical Development and Scale-Up in the Fine Chemical Industry*, organized by Scientific Update, London, UK, February 2000 (4-Day course)
- *Stereochemistry at Sheffield*, Sheffield, UK, December 1997 (One day conference).
- *Stereochemistry at Sheffield*, Sheffield, UK, December 1996 (One day conference).
- *Stereochemistry at Sheffield*, Sheffield, UK, December 1993 (One day conference).

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

- Several Alumni and public lectures and presentations held in Al-Zaytoonah University of Jordan campus.
- Test Construction and analysis of Results, 18th – 20th of June, 2017, Al-Zaytoonah University of Jordan. Amman, Jordan.
- Presented a lecture entitled: "Industrial Uses of Plants and Natural Products". Medicinal Plants Scientific Conference, organized by Jordan Society for Medicinal Plants. December 10th 2015, Amman, Jordan.
- Project Manager; "Specialty Chemicals Market Needs Analysis", Faculty for Factory (FFF) program, Higher Council of Science and Technology, September 2008 – November 2008, Amman, Jordan.
- Project Manager; "Total Synthesis of Hydroxyitraconazole", Arabic Company for Drug Industries and Medical Appliances (ACDIMA), February 2002 – June 2002, Amman, Jordan.

16. Publications

- Papers in refereed journals:
 1. Buthaina Hussein, Laurance M. S. Bourghli, Muhammed Alzweiri, Yusuf Al-Hiari, Mohammad Abu Sini, Soraya Alnabulsi, Batool Al-Ghwairi. "Synthesis and Biological Evaluation of Carbonic Anhydrase III and IX Inhibitors using Gas Chromatography with Modified pH-Sensitive Pellets".



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Jordan Journal of Pharmaceutical Sciences, 2023, 16, No. 2, Supplement 1, 426-438.

DOI: 10.35516/jjps.v16i2.1470

2. Ali I. M. Ibrahim, Hassan Abul-Futouh, **Laurance M. S. Bourghli**, Mohammad Abu-Sini, Suhair Sunoqrot, Balqis Ikhmais, Vibhu Jha, Qusai Sarayrah, Dina H. Abulebdah and Worood H. Ismail. "Design and Synthesis of Thionated Levofloxacin: Insights into a New Generation of Quinolones with Potential Therapeutic and Analytical Applications". *Curr. Issues Mol. Biol.* 2022, 44, 4626–4638.
DOI: 10.3390/cimb44100316
 3. Mohammed Ameen Fouad Salih, Yusuf Al-Hiari, Violet Kasabri, Rula Darwish, Hamza Abumansour, **Laurance Bourghli**, Sundus Al Alawi, Rabab Albashiti. "Newly Substituted Anilino-Fluoroquinolones with Proliferation Inhibition Potential against a Panel of Cancer Cell Lines". *Asian Pac J Cancer Prev*, 23 (7), 2507-2521, 2022.
DOI: 10.31557/APJCP.2022.23.7.2507
 4. Ibrahim, K.A, Abu-sbeih, K.A., Al-Tarawneh, I., **Bourghli, L.** "Preparation and Characterization of Alkyd Resins of Jordan Valley Tomato Oil". *J.Polym. Environ*, Vol. 22, 553-558, 2014.
DOI: 10.1007/s10924-014-0664-9
 5. **Laurance M. S. Bourghli** and Richard J. Stoodley, "Total Synthesis of 8-Hydroxy-8-Methylidarubicinone". *Bioorg. Med. Chem.*, Vol. 12, 2863-2866, 2004.
DOI: 10.1016/j.bmc.2004.03.047
- Books and Book Chapters:
 - Not Applicable
 - Conference Presentations:
 - Not Applicable
 - Reports
 - Not Applicable