



CURRICULUM VITAE

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1. Personal Data

Date of Birth: 19/06/1985

Nationality: Jordanian

2. Education

- Ph.D. (Analytical Chemistry) 2016, University of Duisburg-Essen, Essen, Germany
- M.Sc. (Analytical Chemistry) 2011, The University of Jordan, Amman, Jordan
- B.Sc. (Chemistry) 2007, The University of Jordan, Amman, Jordan

3. Ph.D. and M.Sc. Dissertations

- *“Target and Suspect Screening of Organic Micropollutants and Their Transformation Products in Aqueous Samples”*, **Ph.D.**, University of Duisburg-Essen, Essen, Germany.
- *“Separation of Polyphenols from Jordanian Olive Oil Mill Wastewater”*, **M.Sc.**, The University of Jordan, Amman, Jordan.



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4. Employment

Academic Positions

- Assistant Professor, Pharmacy Department, Al-Zaytoonah University of Jordan, Amman, Jordan
September 09, 2018 – now
- Assistant Professor, Pharmacy Department, Zarqa University, Zarqa, Jordan
September 25, 2016 – September 24, 2018
- Lecturer, Chemistry Department, University of Jordan, Amman, Jordan
October 01, 2007 – April 30, 2012

Administrative Positions

- Not Applicable

5. Research Interests

- Development of sample preparation techniques which enable determination of multiclass components in various environmental and biomedical matrices
- Development of high selective, high sensitive, and fast chromatographic methods to analyze compounds of interest
- Development of multidimensional GC and LC systems coupled with different detectors (FID, ECD, TCD, UV, IR, Fluorescence and MS) for industrial, food and natural products separation and detailed compound identification
- Coupling of modern instrumental techniques for better/faster detection and quantification purposes

6. Membership in Scientific Societies and Associations

- German Chemical Society
- Jordan Chemical Society

7. Honors and Awards

- Top Poster Award, 5th EuCheMS Chemistry Congress, Istanbul, Turkey, 2014
- First Class Honors Award, The University of Jordan, Amman. Jordan, 2007
- First Class Honors Award, Zain Company, Amman. Jordan, 2007
- First Class Honors Award, We are all Jordanian Youth Commission, Amman. Jordan, 2007



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8. Fellowships and Scholarships

- Ph.D. Scholarship, German Academic Exchange Service (DAAD) (2012 – 2016)
- Undergraduate Scholarship, Ministry of Higher Education, Amman, Jordan (2006 – 2007)

9. Teaching Experience

- *Graduate Courses*

Not Applicable

- *Undergraduate Courses*

1. Chromatography
2. Pharmaceutical Instrumental Analysis
3. Pharmaceutical Instrumental Analysis Laboratory
4. Pharmaceutical Analytical Chemistry
5. Pharmaceutical Analytical Chemistry Laboratory
6. Medicinal Chemistry Laboratory
7. Pharmaceutical Organic Chemistry
8. Pharmaceutical Organic Chemistry Laboratory
9. General Chemistry
10. General Chemistry Laboratory

10. Supervision of Graduate Research

- Supervision of Graduate Research – Co-supervisor – Hadeel Abu Mahfouz (M.Sc.) – “Development and characterization of urinary biomaterials to minimize microbial adherence” – Faculty of Pharmacy, Al-Zaytoonah University of Jordan, 2020-2021.

11. Grants

- Isolation, identification and characterization of soil bacteria from Jordan and evaluation of their antimicrobial activity, Deanship of Scientific Research and Innovation, 2019, Deanship of Scientific Research, Al-Zaytoonah University of Jordan, Jordan, "78,000" JD.



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- The development and characterization of urological hydrogel to minimize microbial adhesion and encrustation, Deanship of Scientific Research and Innovation, 2020, Deanship of Scientific Research, Al-Zaytoonah University of Jordan, Jordan, "23,700" JD.

12. Patents

- Not Applicable

13. Membership of Committees

- **National and International**
 - *German Centre for Water and Environmental Research (ZWU): member (2012 - 2016), Essen, Germany.*
- **University**
 - *The Committee for Quality Assurance, a Faculty committee (member).*
 - *The Committee for Computing and E-Learning, a Faculty committee (member).*
 - *The Committee for Curriculum and Learning Resources Committee, a Department committee (member).*
 - *The Committee for Cultural, Social, and Sports Activities, a Department committee (member).*

14. Professional and Scientific Meetings

Scientific Meetings Organized

- Member of the Scientific Committee of the *18th Jordanian Chemistry Conference (JCC18) at the Hashemite University, Zarqa, Jordan, 12th to 13th of September, 2023.*
- Member of the Organizing Committee of the *Al-Zaytoonah International Pharmaceutical Conference 2022 (ZIPC2022) at Al-Zaytoonah University of Jordan, Amman, Jordan, 17th to 18th of October, 2022.*
- Member of the Organizing Committee of the *4th Scientific Day of The College of Pharmacy at Zarqa University (Pharmaceutical practice, Good Practice and Better Health), Zarqa, Jordan, 10th of March, 2016.*
- Member of the Organizing Committee of the *ANAKON 2013 Conference at University of Duisburg-Essen, Essen, Germany, 4th to 7th of March, 2013.*



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Participation in Scientific meetings

- *SETAC Europe 25th Annual Meeting*, Barcelona, Spain, 3rd to 7th of May 2015.
- *Analytical Forum Water Contaminants Meeting*, Koblenz, Germany, 28th to 30th of April 2015.
- *5th EuCheMS Chemistry Congress*, Istanbul, Turkey, 31st of August to 4th of September 2014.
- *11th Eurasia Conference on Chemical Sciences*, The Dead Sea, Jordan, 6th to 10th of October 2010.
- *4th Petra Conference of Nobel Laureates*, Jerash, Jordan, 17th to 19th of June, 2014.

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

- Several career, alumni and medical days and public lectures held in Al-Zaytoonah University of Jordan campus and Zarqa University campus.

16. Publications

- Papers in refereed journals
1. Abu Dayyih, W., Al Omari, R.H., Hailat, M., Zakareia, Z.Z., **Deeb, A.A.**, Abu Assab, M., and Hamad, M.; *The HPLC-Method for the Quantification of Canagliflozin, Dapagliflozin, and Empagliflozin in Pharmaceutical Dosage Forms*, Journal of Applied Pharmaceutical Science, (2023), **Accepted for publication.**
 2. **Deeb, A.A.**, Abuothman, M., Hailat, M., Abuyaman, O., and Albizreh, R.K.; *Analyzing the Presence of Ten Synthetic Colors in Selected Food and Drink Samples Using Ultra High-Performance Liquid Chromatography Diode Array Detection Analysis*, Acta Chromatographica, (2023), **Accepted for publication.** DOI: [10.1556/1326.2023.01175](https://doi.org/10.1556/1326.2023.01175)
 3. Abu Dayyih, W., Rasras, A.A., Hailat, M., Karaki, R., **Deeb, A.A.**, Al-Ani, I., AlTamimi, L.N., Zakaraya, Z., Matalqah, S.M., Mareekh, B., Alkhader, E., and Abu-Nameh, E.S.M.; *Determination of Five Phosphodiesterase-5 Inhibitors in Multiple Honey-Based Consumer Products by Chromatographic Technique in Rat Plasma*, Processes, 11 (10), (2023) 3019, DOI: [10.3390/pr11103019](https://doi.org/10.3390/pr11103019).



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4. **Deeb, A.A.**, Hailat, M., Aldoqum, H.M, Abuothman, M., Abuyaman, O., and Abu Dayyih, W.; *An Analytical Method for Determining N-Nitrosodimethylamine and N-Nitrosodiethylamine Contamination in Irbesartan, Olmesartan and Metformin by UPLC-APCI-MS/MS in Tablet Dosage Form*, Journal of Chromatographic Science, (2023), DOI: [10.1093/chromsci/bmad068](https://doi.org/10.1093/chromsci/bmad068).
5. Tarawneh, O., Abu Mahfouz, H., Hamadneh, L., **Deeb, A.A.**, Al-Sheikh, I., Alwahsh, W., and Fadhil Abed, A.; *Assessment of persistent antimicrobial and anti-biofilm activity of p-HEMA hydrogel loaded with rifampicin and cefixime*, Scientific Reports, 12 (1), (2022) 3900, DOI: [10.1038/s41598-022-07953-3](https://doi.org/10.1038/s41598-022-07953-3).
6. Abuyaman, O., Hatmal, M.M., Hijjawi, N., **Deeb, A.A.**, Abuothman, M., and Taha, M.; *Vitamin B12 binding to mutated human transcobalamin, in-silico study of TCN2 alanine scanning and ClinVar missense mutations/SNPs*, Journal of Biomolecular Structure and Dynamics, 41 (8), (2022) 3222-3233, DOI: [10.1080/07391102.2022.2046638](https://doi.org/10.1080/07391102.2022.2046638).
7. Sunpqrot, S., Alfaraj, M., Hammad, A.M., Kasabri, V., Shalabi, D., **Deeb, A.A.**, Ibrahim, L.H., Shnewer, K., and Yousef, I.; *Development of a Thymoquinone Polymeric Anticancer Nanomedicine through Optimization of Polymer Molecular Weight and Nanoparticle Architecture*, Pharmaceutics, 12 (9), (2020) 811, DOI: [10.3390/pharmaceutics12090811](https://doi.org/10.3390/pharmaceutics12090811).
8. Arar, S.H., ALSoufi, H., Abu-Nameh, E., **Deeb, A.A.**, and Habahbeh, A.; *Screening of (Aminoalkylindols) Cannabinoids in smoking products by GC-EI/MS in Jordan: Liquid-liquid extraction optimization*, Egyptian Journal of Chemistry, 63 (2), (2020) 373-387, DOI: [10.21608/ejchem.2019.11591.1737](https://doi.org/10.21608/ejchem.2019.11591.1737).
9. Brcker, C., **Deeb, A.A.**, Teutenberg, T., Jochmann, M., and Schmidt, T.C.; *Determination of liquid chromatography/flame ionization detection response factors for N-heterocycles, carboxylic acids, halogenated compounds, and others*, Analytical and Bioanalytical Chemistry, 412 (1), (2019) 171-179, DOI: [10.1007/s00216-019-02222-1](https://doi.org/10.1007/s00216-019-02222-1).
10. **Deeb, A.A.**, Stephan, S., Schmitz, O.J., and Schmidt, T.C.; *Suspect Screening of Micropollutants and their Transformation Products in Advanced Wastewater Treatment*, Science of The Total Environment, 601-602, (2017) 1247-1253, DOI: [10.1016/j.scitotenv.2017.05.271](https://doi.org/10.1016/j.scitotenv.2017.05.271).
11. Lamotte, S., Gruendling, T., Loeb, U., Stritesky, R., Gerhardt, R., Schmidt, M., and **Deeb, A.A.**; *Generic ultrahigh resolution HPLC methods: An Efficient Way to Tackle Singular Analytical Problems in Industrial Analytics*; Chromatographia, 80 (5), (2017) 763-769, DOI: [10.1007/s10337-017-3300-8](https://doi.org/10.1007/s10337-017-3300-8)



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12. Stephan, S., Hippler, J., Köhler, T., **Deeb, A.A.**, Schmidt, T.C., and Schmitz, O.J.; *Contaminant Screening of Wastewater with HPLC-IM-qTOF-MS and LC+LC-IM-qTOF-MS Using a CCS Database*, Analytical and Bioanalytical Chemistry, 408 (24), (2016) 6545-6555, DOI: [10.1007/s00216-016-9820-5](https://doi.org/10.1007/s00216-016-9820-5).
13. **Deeb, A.A.** and Schmidt, T.C.; *Tandem Anion and Cation Exchange Solid Phase Extraction for the Enrichment of Micropollutants and their Transformation Products from Ozonation in a Wastewater Treatment Plant*, Analytical and Bioanalytical Chemistry, 408, (2016) 4219-4232, DOI: [10.1007/s00216-016-9523-y](https://doi.org/10.1007/s00216-016-9523-y).
14. **Deeb, A.A.**, Fayyad, M.K., and Alawi, M.A.; *Separation of Polyphenols from Jordanian Olive Oil Mill Wastewater*, Chromatography Research International, 2012, (2012) 8 pages, DOI: [10.1155/2012/812127](https://doi.org/10.1155/2012/812127).

- Books and Book Chapters

- Not Applicable

- Conference Presentations

1. **Deeb, A. A.** and Schmidt, T. C.; *Solid Phase Extraction Strategies for the Enrichment and Isolation of Micropollutants and their Transformation Products from Different Water Matrices*. 5th EuCheMS Chemistry Congress, Istanbul, Turkey, 31st of August to 4th of September 2014.
2. **Deeb, A. A.** and Schmidt, T. C.; *Tandem Anion and Cation Exchange Solid Phase Extraction for the Enrichment of Micropollutants and their Transformation Products from Wastewater Samples*. SETAC Europe 25th Annual Meeting, Barcelona, Spain, 3rd to 7th of May 2015.

- Reports

- Not Applicable