

Faculty Portfolio

Dr. Mufarreh M. Asmari

Assistant Professor

Pharmaceutical Chemistry Department (Pharmaceutical Analysis)

College of Pharmacy

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Education:

Year of Graduation	Qualifications (Specializations if any)	University/College, Country
2019	Doctor of Philosophy (Pharmaceutical Chemistry)	Braunschweig Technical University BS, Germany
2012	Master of Pharmaceutical Chemistry	King Saud University Riyadh, Saudi Arabia
2003	Bachelor of Pharmacy	King Saud University Riyadh, Saudi Arabia

Professional experience:

Year	Positions	University/College, Country
October 2020- present	Assistant Professor Pharmaceutical Chemistry Department	College of Pharmacy, King Khalid University, Abha, Saudi Arabia
2013-2015	Vice Dean	College of Applied Medical Sciences in Khamis Mushait, King Khalid University, Abha, Saudi Arabia
2012-2013	Head of Department of Basic Medical sciences	College of Applied Medical Sciences in Khamis Mushait, King Khalid University, Abha, Saudi Arabia
2006-2009	Pharmacist in College of Health sciences in Abha	Abha, Saudi Arabia
2005-2006	Pharmacist in Asir Central Hospital (MOH)	Abha, Saudi Arabia
2003 –2004	Pharmacist in private sector (Alamal Hospital, Jamjoom Pharmaceutical company)	Jeddah, Saudi Arabia

Community Service Activities:

Year	Name of activity	Activity site
2022	Public Lecture about drug abuse	online
2021	Workshop in Cosmetic formulation and testing.	College of Pharmacy, King Khalid University, Abha, Saudi Arabia

Academic/research awards:

Year/Duration of Award	Name of the Award	University/Company, Country
2019	Awarded from Saudi Embassy in Germany	Saudi Embassy, Berlin, Germany
2008	Awarded as a clinical instructor, Fellowship program for the clinical instructors, (Ministry of Health), Saudi Arabia	General Directorate for Institutes and Colleges of Health sciences Riyadh, Saudi Arabia
2003	Honored as a leader for non-academic activities in Faculty of Pharmacy, King Saud University	King Saud University Riyadh, Saudi Arabia

Research interests:

- Drug quality control testing.
- Metal-molecular/biomolecular interactions.
- Drug analysis using hyphenated techniques (LCMS, LCMS/MS, GCMS..etc)
- Molecular/biomolecular interactions using advanced probing techniques.
- QC testing of Cosmetics.
- Biosensor development.

Teaching experience:

- Working as Assistant Professor in the Department of Pharmaceutical Chemistry, College of Pharmacy, King Khalid University, Abha from 07/03/2023) to till date.
- Teaching assistant (graduate level) at Braunschweig technical University (College of Pharmacy)- Capillary electrophoresis training during the academic years 2016 and 2018.
- Teaching Pharmacology courses for Nursing and Public health students in the college of Applied Medical sciences in Khamis Mushait (2012-2015).
- Teaching Assistant in the department of Pharmacy, College of Health sciences in Abha (2006-2009).

Professional membership:

Year/Duration	Name of the professional body	Role
2006-present	Membership of Saudi Pharmaceutical Society	Regular member
2014-present	Membership of American Chemical Society	Regular member

Research grants:

Year/Duration	Project title	Awarding body
2022	Studying of glycation of human serum albumin on drug-protein binding.	DSR, KKU, Fund No: RGP200, 2022.
2023	Comparative studies for investigating the different reversed-phase HPLC columns in separation of pharmaceutical compounds.	DSR, KKU, Fund No: No: RGP312, 2023.

Training Course & workshops:

1. Training course on (Microfluidic) Paper-Based Analytical Devices – (μ)PADs From Basics to Applications 26th September 2023, Geneva, Switzerland
2. Training course in sensory test for Honey, 7th to 9th August 2023, Albaha, Saudi Arabia.
3. Training workshop on Confocal Raman Microscopy: Illuminating Today's Technology & Applications, 6th and 7th December 2022, KAUST, Thuai, Saudi Arabia
4. Effective meeting workshop, Grade life program, 6th and 7th November 2017, Braunschweig, Germany
Scientific integrity workshop, Grade life program, 18th and 19th December 2017, Braunschweig, Germany
5. Basic chemometrics course, Euroanalysis 2017, 28th August 2017, Stockholm, Sweden
6. Robust CE method Course, Euroanalysis 2017, 28th August 2017, Stockholm, Sweden
7. Targeted metabolomics for biomarker discovery workshop, MHH, 2nd November 2016,

Publications:

1. Al Bratty M., Alhazmi A. H., Javed A. S., Lalitha G. K., Asmari M., Wölker J., El Deeb S., Development and Validation of LC–MS/MS Method for Simultaneous Determination of Metformin and Four Gliptins in Human Plasma, *Chromatographia* (2017), 80, 891- 899.
 2. Asmari M., Ratih R., Alhazmia H., El Deeb S., Thermophoresis for characterizing biomolecular interaction, *Methods* (2018), 146, 107-119.
 3. Asmari M., Michalcova L., Alhazmi H., Zdenek G., El Deeb S., Investigation of deferiprone binding to different essential metal ions using microscale thermophoresis and electrospray ionization mass spectrometry, *Microchemical Journal* (2018), 137, 98-104.
 4. Asmari M., Abdel-megied A., Michalcova L., Zedenk G., ElDeeb S., Analytical approaches for the determination of deferiprone and its iron (III) complex: Investigation of binding affinity based on liquid chromatography-mass spectrometry(LC-ESI/MS) and capillary electrophoresis-frontal analysis(CE/FA), *Microchemical Journal* (2020), 154, 104556.
 5. Ratih R., Waetzig H., Ma'mur A., Asmari M., Peter B., El Deeb S., Immobilization of Chondroitin Sulfate A onto Monolithic Epoxy Silica Column as a New Chiral Stationary Phase for High-Performance Liquid Chromatographic Enantioseparation, *Pharmaceuticals*, (2021), 14, 98.
 6. Ratih R., Asmari M., Abdel-megied A., Elbarbry F., El Deeb S., Biosimilars: Review of regulatory, manufacturing, analytical aspects and beyond,), *Microchemical Journal* (2021), 165, 106143.
 7. M. Asmari, X. Wang, N. Casado, M. Piponski, S. Kovalenko, L. Logoyda, R. Hanafi, S. El Deeb, Chiral Monolithic Silica-Based HPLC Columns for Enantiomeric Separation and Determination: Functionalization of Chiral Selector and Recognition of Selector-Selectand Interaction, *Molecules* (2021), 17, 5241.
 8. HA Alhazmi, W Ahsan, B Mangla, S Javed, MZ Hassan, M Asmari, M. Al Bratty, A. Najmi, Graphene-based biosensors for disease theranostics: Development, applications, and recent advancements, *Nanotechnology Reviews* (2021), 11 (1), 96-116.
 9. F Chaudhry, ML Ahmad, Z Hayat, MMAN Ranjha, K Chaudhry, N. Elboughdiri, M. Asmari, J. Uddin, Extraction and evaluation of the antimicrobial activity of polyphenols from banana peels employing different extraction techniques, *Separations* (2022), 9 (7), 165.
 10. M Asmari, M Waqas, AE Ibrahim, SA Halim, A Khan, A Al-Harrasi, H. Wätzig, S. El Deeb, Microscale Thermophoresis and Molecular Modelling to Explore the Chelating Drug Transportation in the Milk to Infant Molecules (2022), 27 (14), 4604.
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