



# Ahmed Mostafa

Associate Professor

## Personal Data

Nationality | Canadian

Date of Birth | November 17, 1978

Department | Pharmaceutical Chemistry, College of Clinical Pharmacy

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## Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2012	PhD (Analytical Chemistry)	Canada	University of Waterloo
2005	Master of Pharmaceutical Sciences (Analytical Chemistry)	Egypt	Faculty of Pharmacy, Suez Canal University
2000	BSc. of Pharmaceutical Sciences	Egypt	Faculty of Pharmacy, Suez Canal University

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Advances in multidimensional chromatography
Master	Spectrophotometric and chromatographic analysis of some important basic nitrogenous compounds in pharmaceutical preparations



### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Associate Professor	College of Clinical Pharmacy, Imam Abdulrahman University	10/2020 - present
Assistant Professor	College of Clinical Pharmacy, Imam Abdulrahman University	4/2014 – 10/2020
Postdoctoral Research Fellow	Ryerson University, Ontario, Canada	9/2013 – 4/2014
Postdoctoral Research Fellow	Ontario Ministry of the Environment, Toronto, Ontario, Canada	9/2013 – 4/2014
Adjunct Research Associate (Prof. T. Górecki group)	University of Waterloo, Waterloo, Ontario, Canada.	8/2012 – 9/2013
Teaching & Research Assistant	University of Waterloo, Waterloo, Ontario, Canada.	5/2008 – 8/2012
Instructor of Analytical Chemistry	Suez Canal University, Faculty of Pharmacy, Ismailia, Egypt	8/2000 – 10/2002

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Head of Quality Management and Academic Accreditation Unit	College of Clinical Pharmacy, Imam Abdulrahman University	9/2023 – Present
Vice Deanship for Quality, Development and Community Services Coordinator	College of Clinical Pharmacy, Imam Abdulrahman University	7/2014 – 9/2021
Head of Professional Development Unit	College of Clinical Pharmacy, Imam Abdulrahman University	6/2019 – 9/2022
Head of Quality and Development Committee	College of Clinical Pharmacy, Imam Abdulrahman University	9/2015 - Present
Head of Teaching and Learning Unit	College of Clinical Pharmacy, Imam Abdulrahman University	6/2014 – 1/2018

### Scientific Achievements

#### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
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1	Abdulmalik M. Alqarni, <b>Ahmed Mostafa</b> , Heba Shaaban, Hatem I. Mokhtar, Atheer Aseeri, Badriah Alkarshami, Shareefa Alonaizi, Rafidi Dham Alrafidi, Amjad Aoussi Aseeri, Mohammad A. Alrofaidi	Air-agitated liquid-liquid microextraction method based on solidification of a floating organic droplet (AALLME-SFO) followed by UPLC-MS/MS for trace analysis of steroids in water samples: Assessment of the method environmental impact using Analytical Eco-Scale, green Analytical procedure Index and the Analytical GREeness metric.	Microchemical Journal, 2024
2	Abdulmalik M. Alqarni, <b>Ahmed Mostafa</b> , Heba Shaaban, Mohamed S. Gomaaa, Danyah Albashrayi, Batool Hasheeshi, Nujud Bakhshwain, Atheer Aseeri, Abdulaziz Alqarni, Abdulgani Alamri and Mohammad A. Alrofaidi	Development and optimization of natural deep eutectic solvent-based dispersive liquid-liquid microextraction coupled with UPLC-UV for simultaneous determination of parabens in personal care products: evaluation of the eco-friendliness level of the developed method.	RSC Advances, 2023
3	Heba Shaaban, <b>Ahmed Mostafa</b> , Abdulmalik M Alqarni, Ruya Alsultan, Zahra Aljarrash, Weaam Al-Zawad, Shahad Al-Kahlah, Mohd Amir	Dispersive liquid-liquid microextraction utilizing menthol-based deep eutectic solvent for simultaneous determination of sulfonamides residues in powdered milk-based infant formulas	Journal of Food Composition and Analysis, 2023
4	Heba Shaaban, <b>Ahmed Mostafa</b>	Simultaneous determination of antibiotics residues in edible fish muscle using eco-friendly SPE-UPLC-MS/MS: Occurrence, human dietary exposure and health risk assessment for consumer safety	Toxicology Reports, 2023
5	<b>Ahmed Mostafa</b> , Heba Shaaban	GC-MS determination of undeclared phthalate esters in commercial perfumes: Occurrence, profiles and assessment of carcinogenic and non-carcinogenic risk associated with their consumption among adult consumers	Molecules, 2023



6	<b>Ahmed Mostafa</b> , Heba Shaaban, Abdulmalik Alqarni, Raneem Al-Ansari, Ahlam Alrashidi, Fatima Al-Sultan, Mohammed Alsulaiman, Fatimah Alsaif, Omer Aga	Multi-class determination of pharmaceuticals as emerging contaminants in wastewater from Eastern Province, Saudi Arabia using eco-friendly SPE-UHPLC-MS/MS: Occurrence, removal and environmental risk assessment	Microchemical Journal, 2023
7	<b>Ahmed Mostafa</b> , Heba Shaaban	Chemometric Assisted UV-Spectrophotometric Methods Using Multivariate Curve Resolution Alternating Least Squares and Partial Least Squares Regression for Determination of Beta-Antagonists in Formulated Products: Evaluation of the Ecological Impact	Molecules, 2023
8	Rizwan Ahmad, Mohammed Aldholmi, Aljawharah Alqatham, Ebtihal Althomali, Fatema Aljishi, <b>Ahmed Mostafa</b> , Abdulmalik M. Alqarni, Heba Shaaban	The effect of natural antioxidants, pH, and green solvents upon catechins stability during ultrasonic extraction from green tea leaves ( <i>Camellia sinensis</i> )	Ultrasonics Sonochemistry, 2023
9	<b>Ahmed Mostafa</b> , Heba Shaaban, Abdulmalik M. Alqarni, Meshal Alghamd, Semat Alsultan, Jenan Saleh Al-Saeed , Sahar Alsaba, Amal AlMoslem, Yasir Alshehry , Rizwan Ahmad	Vortex-assisted dispersive liquid-liquid microextraction using thymol based natural deep eutectic solvent for trace analysis of sulfonamides in water samples: Assessment of the greenness profile using AGREE metric, GAPI and analytical eco-scale	Microchemical Journal, 2022
10	Shahanas Chathoth, Mona H. Ismail, Hanan M. Alghamdi, Hazem Mohamed Zakaria, Khairi Ahmed Hassan, Saeed Alshomimi, Chittibabu Vatte, Cyril Cyrus, Hind S. Alsaif, <b>Ahmed Mostafa</b> , Heba Shaaban and Amein Al Ali	Insulin resistance induced by de novo pathway-generated C16-ceramide is associated with type 2 diabetes in an obese population	Lipids in Health and Disease, 2022
11	Rizwan Ahmad, Heba Shaaban, Sahar Y. Issa, Anwar Alsaad, Majd Alghamdi, Njoud Hamid, Rand Osama, Sara Algarni, <b>Ahmed Mostafa</b> , Abdulmalik M. Alqarni, Mohammed Aldholmi & Muhammad Riaz	ICP-MS determination of elemental abundance in traditional medicinal plants commonly used in the Kingdom of Saudi Arabia	Food Additives & Contaminants: Part B, 2022



12	Heba Shaaban, Sahar Y. Issa, Rizwan Ahmad, <b>Ahmed Mostafa</b> , Sara Refai, Nooran Alkharraa, Batool T. Albaqshi, Dania Hussien, Abdulmalik M. Alqarni	Investigation on the elemental profiles of lip cosmetic products: concentrations, distribution and assessment of potential carcinogenic and non-carcinogenic human health risk for consumer safety	Saudi Pharmaceutical Journal, 2022
13	Heba Shaaban, <b>Ahmed Mostafa</b> , Abdulmalik M. Alqarni, Yasmeen Almohamed, Duaa Abu alrahi, Dania Hussien, Meshal Alghamdi	Simultaneous determination of bisphenol A and its analogues in foodstuff using UPLC-MS/MS and assessment of their health risk in adult population	Journal of Food Composition and Analysis, 2022
14	Rizwan Ahmad, Aljawharah Alqathama, Mohammed Aldholmi, Muhammad Riaz, Ashraf N. Abdalla, <b>Ahmed Mostafa</b> , Hamdi M. Al-Said, Abdulmalik M. Alqarni, Riaz Ullah, Sami. S. Asgher, Mohd. Amir, Heba Shaaban, Wasim Ahmad	Gas chromatography-mass sepectrometry (GC-MS) metabolites profiling and biological activities of various Capsicum annum cultivars	Plants, 2022
15	Reem K. Aldakheel, Suriya Rehman, Munirah A. Almessiere, Firdos A. Khan, Mohammed A. Gondal, <b>Ahmed Mostafa</b> and Abdulhadi Baykal	Bactericidal and In Vitro Cytotoxicity of Moringa oleifera Seed Extract and Its Elemental Analysis Using Laser-Induced Breakdown Spectroscopy	Pharmaceuticals, 2020
16	<b>Ahmed Mostafa</b>	Spectrophotometric and multivariate calibration techniques for simultaneous determination of different drugs in pharmaceutical formulations and human urine: evaluation of greenness profile	Journal of Analytical Methods in Chemistry, 2020
17	Heba Shaaban, <b>Ahmed Mostafa</b> , Bushra Al-Zahrani, Bushra Al-Jasser and Raghad Al-Ghamdi	Simultaneous Determination of Drugs Affecting Central Nervous System (CNS) in Bulk and Pharmaceutical Formulations using Multivariate Curve Resolution Alternating Least Squares (MCR-ALS)	Journal of Analytical Methods in Chemistry, 2020
18	Heba Shaaban, <b>Ahmed Mostafa</b> , Zahra Almatar, Reem Alsheef, Safia Alrubbh	Simultaneous Determination of Over-the-Counter Pain Relievers in Commercial Pharmaceutical Products Utilizing Multivariate Curve Resolution-Alternating Least Squares (MCR-ALS) Multivariate Calibration Model	Journal of Analytical Methods in Chemistry, 2019



19	<b>Ahmed Mostafa</b> , Heba Shaaban	Quantitative analysis and resolution of pharmaceuticals in the environment using multivariate curve resolution-alternating least squares (MCR-ALS),	Acta Pharmaceutica, 2019
20	<b>Ahmed Mostafa</b> , Heba Shaaban	Development and validation of a dispersive liquid-liquid microextraction method for the determination of phthalate esters in perfumes using gas chromatography – mass spectrometry	RSC Advances, <b>2018</b>
21	<b>Ahmed Mostafa</b> , Heba Shaaban, Khaled Alasmry, Abdulaziz Alshammari, Rashid Alsuwaigh, Omer Aga	Development and validation of SPE-LC-MS method for simultaneous determination of selected pharmaceuticals in hospital wastewater	Journal of Analytical & Pharmaceutical Research, <b>2018</b>
22	<b>Ahmed Mostafa</b> , Heba Shaaban, Mishal Al Mousa, Mishal Al Sheqawi, Montadher Al Mousa	Eco-friendly pharmaceutical analysis of multicomponent drugs co-formulated in different dosage forms using multivariate curve resolution and partial least squares: A comparative study	International journal of AOAC, <b>2018</b>
23	Heba Shaaban, <b>Ahmed Mostafa</b> , Wejdan Alhajri, Laila Almubarak, Khawlah AlKhalifah	Development and validation of an eco-friendly SPE-HPLC-MS method for simultaneous determination of selected parabens and bisphenol A in personal care products: Evaluation of the greenness profile of the developed method	Journal of Liquid Chromatography & Related Technologies, <b>2018</b>
24	Heba Shaaban, <b>Ahmed Mostafa</b>	Sustainable eco-friendly ultra-high performance liquid chromatographic method for simultaneous determination of caffeine and theobromine in commercial teas: Evaluation of greenness profile using NEMI and Eco-scale assessment tools	International journal of AOAC, <b>2018</b>
25	Heba Shaaban, Hajer Alghamdi, Nada Alhamed, Anhar Alzaydi and <b>Ahmed Mostafa</b>	Environmental contamination by pharmaceutical waste: Assessing patterns of disposing unwanted medications and investigating the	Journal of pharmacology and pharmaceutical research, <b>2018</b>



		factors influencing personal disposal choices	
26	Niyaz Ahmad, Rizwan Ahmad, Abdullah Al-layly, Hassan Al-shawi, Ahmed Al-ali, Mohd Amir, <b>Ahmed Mostafa</b>	Ultra-High-Performance Liquid Chromatography-Based Identification and Quantification of Thymoquinone in Nigella sativa Extract from Different Geographical Regions	<i>Pharmacognosy Magazine</i> , 57 (14), <b>2018</b>
27	<b>Ahmed Mostafa</b> , Alaa El-Gindy, Samy Emara	Simultaneous spectrophotometric estimation of bisoprolol fumarate and hydrochlorothiazide in tablet formulation using partial least-squares, principal component regression multivariate calibrations and RP-HPLC methods	<i>Journal of Analytical &amp; Pharmaceutical Research</i> , 4(6): 00124, <b>2017</b>
28	Heba Shaaban, <b>Ahmed Mostafa</b> , Tadeusz Górecki	Green gas and liquid capillary chromatography" in Francisco Pena-Pereira and Marek Tobiszewski (ed.), "The Application of Green Solvents in Separation Processes"	Elsevier, 2017, pp.453-482
29	<b>Ahmed Mostafa</b> , Tadeusz Górecki	Development and characterization of a single-stage cryogenic modulator for comprehensive two-dimensional gas chromatography	Analytical Chemistry, 88, 5414-5423, 2016
30	<b>Ahmed Mostafa</b> , Heba Shaaban, Tadeusz Górecki	"Multidimensional liquid chromatography applied to analysis of pesticides" in J. Sharma and T. Tuzimski (ed.), "High-Performance Liquid Chromatographic Methods of Pesticide Residues Analysis"	CRC Press Taylor and Francis, 2015, p. 393-410.
31	Win Winit-Watjana, Mohamed A. Baraka, <b>Ahmed Mostafa</b> , Raniah A. Aljaizani	Assessment of motivation, learning styles and programme selections of Saudi pharmacy and nonpharmacy candidates during the preparatory year	Pharmacy Education, 15 (1) 281 - 289, 2015
32	<b>Ahmed Mostafa</b> , Tadeusz Górecki	Sensitivity of comprehensive two-dimensional gas chromatography (GCxGC) versus one dimensional gas chromatography (1D-GC)	LCGC Europe, 26, 672-679, 2013
33	Tomasz Dymerski, Tomasz Chmiel, <b>Ahmed Mostafa</b> , Magdalena Śliwińska <sup>1</sup> , Paulina Wiśniewska,	Botanical and Geographical Origin Characterization of Polish Honeys by Headspace SPME-GCxGC-TOFMS	Current Organic Chemistry, 17, 853-870, 2013



	Waldemar Wardencki, Jacek Namieśnik, Tadeusz Górecki		
34	<b>Ahmed Mostafa</b> , Matthew Edwards, Tadeusz Górecki	Optimization aspects of comprehensive two-dimensional gas chromatography	Journal of Chromatography A, 1255: 38-55, 2012
35	Jochen Vestner, Sulette Malherbe, Maret du Toit, Hélène H. Nieuwoudt, <b>Ahmed Mostafa</b> , Tadeusz Górecki, Andreas G.J. Tredoux, André de Villiers	Investigation of volatile composition Pinotage wines fermented with different malolactic starter cultures using comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry (GCxGC-TOF-MS)	Journal of Agricultural and Food Chemistry, 59 (24):12732-44, 2011
36	<b>Ahmed Mostafa</b> , Alaa El-Gindy, Samy Emara	Development, application and validation of RP-HPLC method for the simultaneous determination of butamirate citrate and its main degradation product in pharmaceutical dosage forms	Analytical Methods, 3 (7), 1643 – 1651, 2011
37	<b>Ahmed Mostafa</b> , Tadeusz Górecki, Peter Tranchida, Luigi Mondello	"History and evolution of comprehensive two-dimensional gas chromatography" in: L. Mondello (ed.), "Comprehensive Chromatography in Combination with Mass Spectrometry"	Wiley Interscience Series on Mass Spectrometry, Hoboken (NJ), 2011, p. 93-115.
38	Matthew Edwards, <b>Ahmed Mostafa</b> , Tadeusz Górecki	Modulation in comprehensive two-dimensional gas chromatography: 20 years of innovation	Analytical and Bioanalytical Chemistry, 401(8): 2335 – 2349, 2011
39	Berhane T. Weldegeris, André de Villiers, Christopher McNeish, Suresh Seethapathy, <b>Ahmed Mostafa</b> , Tadeusz Górecki, Andrew M. Crouch	Comprehensive chromatography of volatile components of Pinotage wines using comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry (GCxGC-TOFMS)	Food Chemistry, 129, 188 – 199, 2011
40	Alaa El-Gindy, Samy Emara, <b>Ahmed Mostafa</b>	UV PLS calibration and LC methods for direct quantitation of levofloxacin in urine	Journal of AOAC International, 90, 5, 1258 – 1265, 2007
41	Alaa El-Gindy, Samy Emara, <b>Ahmed Mostafa</b>	Application and validation of chemometrics-assisted spectrophotometry and liquid chromatography for the	Journal of Pharmaceutical and Biomedical Analysis, 41, 421-430, 2006





		simultaneous determination of six component pharmaceuticals	
42	Alaa El-Gindy, Samy Emara, <b>Ahmed Mostafa</b>	HPLC and chemometric- assisted spectrophotometric methods for simultaneous determination of atenolol, amiloride hydrochloride and chlorthalidone	IL Farmaco, 60, 269-278, 2005
43	Alaa El-Gindy, Samy Emara, <b>Ahmed Mostafa</b>	Spectrophotometric and LC determination of two binary mixtures containing antihistamines	IL Farmaco, 59, 713-722, 2004
44	Alaa El-Gindy, Fawzy El- Yazby, <b>Ahmed Mostafa</b> , Moustafa M. Maher	HPLC and chemometric methods for the simultaneous determination of cyproheptadine hydrochloride, multivitamins and sorbic acid	Journal of Pharmaceutical and Biomedical Analysis, 35, 703-713, 2004
<b>Book Chapters</b>			
1	Heba Shaaban, <b>Ahmed Mostafa</b> , Tadeusz Górecki	Green gas and liquid capillary chromatography" in Francisco Pena-Pereira and Marek	Elsevier, 2017
2	<b>Ahmed Mostafa</b> , Tadeusz Górecki, Peter Tranchida, Luigi Mondello	History and evolution of comprehensive two-dimensional gas chromatography" in: L. Mondello (ed.), "Comprehensive Chromatography in Combination	Wiley Interscience Series on Mass Spectrometry, Hoboken (NJ), 2011, p. 93-115.
3	<b>Ahmed Mostafa</b> , Heba Shaaban, Tadeusz Górecki	"Multidimensional liquid chromatography applied to analysis of pesticides" in J. Sharma and T. Tuzimski (ed.),	CRC Press Taylor and Francis, 2015.

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Zahra Alsultan, Salwa Abdulkarim, Heba Shaaban, Abdulmalek Alqarni, Abdulaziz Alkhzem and Ahmed Mostafa	A Novel Green Deep Eutectic Solvent Air-Assisted Liquid-Liquid Microextraction Coupled to UHPLC-MS-MS for Rapid Determination of Psychotropic Agents in Different Water Environments	International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT) Dubai, UAE. 2024
2	Rakan Almutairi, Adel Alwayli, Musaad Alibrahim, Abdulmalik Alqarni, Heba Shaaban and Ahmed Mostafa	A novel green deep eutectic solvent-based liquid-liquid microextraction for the analysis of antibiotics in cow and chicken meat using UPLC-MS/MS	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 22-24 January 2024



3	Zahra Alsultan, Salwa Abdulkarim, Heba Shaaban, Abdulmalek Alqarni, Abdulaziz Alkhzem and Ahmed Mostafa	A Novel Green Deep Eutectic Solvent Air-Assisted Liquid-Liquid Microextraction Coupled to UHPLC-MS-MS for Rapid Determination of Psychotropic Agents in Different Water Environments	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 22-24 January 2024
4	Sarah AlQahtani, Shahad AlKahlah, Arjwan AlQarni, Najd AlMutairi, Heba Shaaban, Ahmed Mustafa, Abdulmalik AlQarni	Dispersive liquid-liquid microextraction based on a novel deep eutectic solvent followed by UPLC-MS/MS for trace analysis of bisphenols in beverages	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 22-24 January 2024
5	Arjwan Alqarni, Najd Almutairi, Heba Shabaan, Ahmed mostafa, Abdulmalik Alqarni	Determination of parabens in foodstuffs marketed in Saudi Arabia using U P L C - M S / M S and assessment of dietary exposure in adult population	International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT) Dubai, UAE. 2024
6	Shahad AlKahlah, Sarah AlQahtani, Heba Shaaban, Ahmed Mustafa, Abdulmalik AlQarni	Dispersive liquid-liquid microextraction based on a novel deep eutectic solvent followed by UPLC-MS/MS for trace analysis of bisphenols in beverages	International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT) Dubai, UAE. 2024
7	Fatimah Alsaif, Heba Shaaban , Ahmed Mostafa, Abdulmalik Alqarni	GC-MS determination of undeclared phthalate esters in commercial perfumes: Occurrence, profiles and assessment of carcinogenic and non-carcinogenic risk associated with their consumption among adult consumers	International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT) Dubai, UAE. 2023, (2nd place best poster presentation award)
8	Semat Alsultan, Jenan Alsaeed, Meshal Alghamdi, Abdulmalik Alqarni, Heba Shaaban and Ahmed Mostafa	Optimization of an eco-friendly dispersive liquid-liquid microextraction method for trace analysis of sulfonamides in water: Assessment of the greenness profile	KSAPT2023, Khobar, Saudi Arabia (2nd place best poster presentation award)
9	Makarem Alkhalaf, Marwa Al Salman, Abdulmalik Alqarni, Heba Shaaban and Ahmed Mostafa	A novel natural anisaldehyde- based deep eutectic solvent for green dispersive liquid-liquid microextraction of different antibiotics in food samples	The annual meeting of APS (SIPHA), Al Khobar, Saudi Arabia, 2023



10	Norah ALsubaie, Heba Shaaban, Ahmed Mostafa, Abdulmalik Alqarni	Synthesis of a novel deep eutectic solvent as a sustainable alternative in dispersive liquid-liquid microextraction for trace analysis of bisphenol A and its alternatives in baby products	The annual meeting of APS (SIPHA), Al Khobar, Saudi Arabia, 2023
11	Zainab Al Shehab. Ruya Alsultan, Heba Shaabn , Ahmad Mostafa, Abdulmalik Alqarni	Dispersive liquid-liquid microextraction method based on a natural deep eutectic solvent for eco-friendly analysis of sulfonamides in milk-based infant formulas	The annual meeting of APS (SIPHA), Al Khobar, Saudi Arabia, 2023
12	Norah ALsubaie, Heba Shaaban, Ahmed Mostafa, Abdulmalik Alqarni	Trace Analysis of Bisphenol A and its Alternatives in Baby Products Marketed in Saudi Arabia Using a Novel Eco-friendly Fenchone- based Deep Eutectic Solvent as a Green Alternative in Dispersive Liquid-liquid Microextraction and UPLC-MS/MS	International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT) Dubai, UAE. 2023
13	Semat Alsultan, Jenan Al- Saeed, Meshal Alghamdi, Abdulmalik Alqarni, Heba Shaaban and Ahmed Mostafa	A novel natural thymol-based deep eutectic solvent for green dispersive liquid-liquid microextraction of sulfonamides in water and fruit juice samples	KSAPT 2021, Khobar, Saudi Arabia (2nd place best poster presentation award)
14	Hussein Al-zarra, Ali Altammar, Ali Alammar, Abdulmalik Alqarni, Ahmed Mostafa and Heba Shaaban	Monitoring of Bisphenol A and its alternatives in thermal paper receipts from Saudi Arabia: Assessment of human daily exposure	KSAPT 2021, Khobar, Saudi Arabia
15	Noor Aldawood, Zainab Alsadah, Ahmed Mostafa, Heba shaban, Abdul- Malik El-Qarni, Meshal Alghamdi, "" ,	Development and Validation of A High-speed Liquid Chromatographic Method for Simultaneous Determination of Preservatives in Condiments Marketed in Saudi Arabia	KSAPT 2021, Khobar, Saudi Arabia
16	Yasmeen Almohamed Duaa Abualrahi, Heba Shaaban, Ahmed Mostafa, Abdulmalik Al Qarni and Meshal Alghamdi	Trace analysis of endocrine disrupting compound bisphenol A and some of its analogues in food products marketed in Saudi Arabia	KSAPT 2021, Khobar, Saudi Arabia



17	Osama alabbadi, Ibrahim almuebid, Hamad alshamsi, Meshal Alghamdi, Abdulmalik Alqarni, Heba Shaaban and Ahmed Mostafa	Green and fast UHPLC-MS/MS method for monitoring of synthetic phosphodiesterase type 5 inhibitors as possible adulterants in dietary supplements from Saudi market	KSAPT 2021, Khobar, Saudi Arabia
18	Njoud AlHamid, Heba Shaaban, Sahar Y. Issa, Ahmed Mostafa, Saleha Algarni, Majd Aghamdi, Rand Alabdulmohsin, Anwar Alsaad	Determination of heavy metals in traditional herbs commonly used in Saudi Arabia.	International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT) Dubai, UAE. 2020
19	Eman Almousa , Heba Shaaban, Ahmed Mostafa, Zahra Almaa and Heba Abu Kabbs	Exposure to endocrine disruptors among Saudi female population: assessment of urinary levels of bisphenol A and triclosan	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020
20	Zainab Aldarwish, Heba Shaaban, Ahmed Mostafa, Zainab Sharroufna, and Mariam Abu Al-Ruha	Determination of pharmaceutical residues in fish using UHPLC-MS/MS	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020
21	Layali Alalwan, Heba Shaaban, Ahmed Mostafa, Mohsina Bano Skaikh and Arwa Alghamdi	Assessment of knowledge and perception of risks associated with exposure to heavy metals among Saudi population	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020
22	Zahra Almatar, Heba Shaaban, Ahmed Mostafa, Reem Alsheef and Safia Alrubh	Determination of over-the-counter pain relievers in commercial pharmaceutical products: A green approach for quality control	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020
23	Bushra Al-Jasser, Bushra Al-Zahrani, Raghad Al-Ghamdi Ahmed Mostafa, Heba Shaaban	Eco-friendly spectrophotometric methods for simultaneous determination of drugs affecting central nervous system in pharmaceutical dosage forms	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020



24	Ahoud Alotaibi, Sarah Almakki, Ahmed Mostafa, Heba Shaaban	A green approach for the spectrophotometric quantification of fluoroquinolones in pharmaceutical and veterinary formulations	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020
25	Sara Refai, Ahmed Mostafa, Heba Shaaban	Graphical spectrophotometric and multivariate calibration techniques for simultaneous determination of atenolol, naproxen, dexamethasone and levofloxacin in pharmaceutical formulations and human urine	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020
26	Raneem Alansari, Ahlam Alrashedy, Fatima Alsultan, Ahmed Mostafa, Heba Shaaban	Development and validation of liquid chromatography -tandem mass spectrometry (LC-MS/MS) method for determination of multiclass pharmaceutical residues in wastewater	The annual meeting of APS (SIPHA), Riyadh, Saudi Arabia, 2020 <b>1<sup>st</sup> place Best Oral Presentation. Award to student: Raneem Alansari, A. Alrashedy, F. Alsultan</b>
27	Fatima Alsultan, Ahlam Alrasheedy and Raneem Alansari, Ahmed Mostafa, Heba Shaaban	Development and validation of liquid chromatography-tandem mass spectrometry (LC-MS/MS) method for determination of multiclass pharmaceutical residues in wastewater	1 <sup>st</sup> Pharmacy and Toxicology Conference (KSAPT), Khobar, Saudi Arabia, April 4, 2019 <b>1<sup>st</sup> place Best Poster Presentation. Award to student: Fatima Alsultan, A. Alrashedy, R. Alansari</b>
28	Anhar Alziadi, Nada Alhamad, Heba Shaaban, Hajer Alghamdi, Ahmed Mostafa	Environmental contamination by pharmaceutical waste: Assessing patterns of disposing unwanted medications and investigating the factors influencing personal disposing choices	1 <sup>st</sup> Pharmacy and Toxicology Conference (KSAPT), Khobar, Saudi Arabia, April 4, 2019 <b>3<sup>rd</sup> place Best Poster Presentation. Award to student: Anhar Alziadi, Nada Alhamad</b>
29	Bushra AlZahrani, Bushra AlJasser, Raghad AlGhamdi, Ahmed Mostafa, Heba Shaaban	Chemometrics-assisted spectrophotometric methods for simultaneous determination of drugs affecting central nervous system in pharmaceutical formulations	International Pharmaceuticals & Technologies Conference & Exhibition, Dubai, UAE. (DUPHAT), 2019 <b>10<sup>th</sup> place Best Poster Presentation. Award to student: B. Alzahrani, B. Aljasser, R. Alghamdi</b>
30	Raneem AlAnsari, Ahlam AlRashedy,	Development and validation of fast UHPLC-MS/MS method for	(DUPHAT), Dubai International Pharmaceuticals & Technologies



	Fatima AlSultan, Ahmed Mostafa, Heba Shaaban	simultaneous determination of pharmaceuticals in wastewater: Investigation of the efficiency of wastewater treatment plants in Eastern Province, Saudi Arabia	Conference & Exhibition, Dubai, UAE, 2019
31	Wejdan Alhajri, Khawlah AlKhalifah, Lyla Almubarak, Heba Shaaban, Ahmed Mostafa	Determination of parabens and bisphenl A in skin care and hair care products marketed in Saudi Arabia using solid phase extraction coupled to high performance liquid chromatography mass spectrometry (SPE-HPLC-MS)	The annual meeting of APS (SIPHA), Jeddah, Saudi Arabia, 2019
32	Khawlah AlKhalifah, Lyla Almubarak, Heba Shaaban, Ahmed Mostafa, Wejdan Alhajri	Determination of endocrine disruptors in skin care and hair care products marketed in Saudi Arabia using high performance liquid chromatography mass spectrometry.	Arab International Pharmacy Congress, Riyadh, Saudi Arabia <b>2018</b>
33	Ghada Al-ghofari, Layla Saleh, Ahmed Mostafa, Heba Shaaban	In-home medication storage and disposal practices in Eastern province, Saudi Arabia.	Arab International Pharmacy Congress, Riyadh, Saudi Arabia <b>2018</b> <b>1<sup>st</sup> place Best Poster Presentation. Award to student: Ghada Alghofari</b>
34	Heba Shaaban, Ahmed Mostafa, Wejdan Alhajri, Laila Almubarak, Khawlah AlKhalifah	Determination of parabens and bisphenol A in personal care products marketed in KSA using solid phase extraction coupled to high performance liquid chromatography	Saudi Food and Drug Authority Second Annual Conference (SFDA), Riyadh, Saudi Arabia 2018
35	Ahmed Mostafa, Heba Shaaban, Mishal Al Mousa, Mishal Al Sheqawi, Montadher Al Mousa	Eco-friendly pharmaceutical analysis of multicomponent drugs co-formulated in different dosage forms using chemometrics	Saudi Food and Drug Authority Second Annual Conference (SFDA), Riyadh, Saudi Arabia 2018
36	Anhar Alzayd, Heba Shaaban, Hajer Alghamdi, Nada Alhamed, Ahmed Mostafa	Environmental contamination by pharmaceutical waste: Assessing patterns of disposing unwanted medications in Saudi Arabia and investigating the factors influencing personal disposal choices	Dubai International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT), Dubai, UAE , 2018
37	Paul Yang, Ahmed Mostafa, Serei Thach,	Qualitative and Quantitative Analysis of Environmental	CALA Catalyst Conference, June 2-4, 2014, Toronto, ON, Canada



	Chunyan Hao, David Morse	Contaminants of Emerging Concern – Development and Validation of an UHPLC-Orbitrap MS Method	
38	Ahmed Mostafa, Paul Yang, Serei Thach, Lynda McCarthy, Dave Morse	Determination of Pharmaceuticals in Biosolids Using UHPLC- High Resolution Orbitrap Mass Spectrometry	CALA Catalyst Conference, June 2-4, 2014, Toronto, ON, Canada
39	Ahmed Mostafa, Paul Helm, Lynda McCarthy, Paul Yang, Dave Morse	Determination of Contaminants of Emerging Concern Using a POCIS Sampler and UHPLC-Orbitrap Mass Spectrometry	57 <sup>th</sup> International Association for Great Lakes Research (IAGLR) Conference, May 26-30, 2014, Hamilton, ON, Canada
40	Ahmed Mostafa, Paul Yang, Jonathan Beck, Maciej Bromirski, Dipankar Ghosh, Charles Yang, Lynda McCarthy	Qualitative and Quantitative Analysis of Contaminants of Emerging Concern in Biosolids Using Dilute-and-Shoot UHPLC- Orbitrap MS Method	62 <sup>nd</sup> ASMS Conference on Mass Spectrometry and Allied Topics, June 15-19, 2014, Baltimore, MD, USA
41	Ahmed Mostafa and Tadeusz Górecki	Single-stage cryogenic modulation in comprehensive two-dimensional gas chromatography	5 <sup>th</sup> Multi-Dimensional Chromatography Workshop, January 7 and 8, 2014, Ministry of Environment, Toronto, ON.
42	Tadeusz Górecki, Ahmed Mostafa, Matthew Edwards	Optimization aspects of comprehensive two dimensional gas chromatography	4 <sup>th</sup> Multi-Dimensional Chromatography Workshop, January 8 and 9, 2013, Ministry of Environment, Toronto, ON (invited lecture).
43	Ahmed Mostafa and Tadeusz Górecki	Simple and viable single-stage cryogenic modulator for comprehensive two-dimensional gas chromatography	36 <sup>th</sup> International Symposium on Capillary Chromatography and 9 <sup>th</sup> GCxGC Symposium, May 27-June 1, 2012, Riva del Garda, Italy.
44	A. De Villiers, T. Górecki, Ahmed Mostafa, J. Vestner	Application of comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry for the characterization of wine volatiles	36 <sup>th</sup> International Symposium on Capillary Chromatography and 9 <sup>th</sup> GCxGC Symposium, May 27-June 1, 2012, Riva del Garda, Italy
45	Tadeusz Górecki, Matthew Edwards, Ahmed Mostafa	Comprehensive two-dimensional gas chromatography 20 years later: opportunities and challenges	36 <sup>th</sup> International Symposium on Capillary Chromatography and 9 <sup>th</sup> GCxGC Symposium, May 27-June 1, 2012, Riva del Garda, Italy
46	Ahmed Mostafa and Tadeusz Górecki	A new single-stage cryogenic modulator for comprehensive two dimensional gas chromatography (GCxGC)	Graduate student research conference, 2012



47	Tadeusz Górecki, Matthew Edwards, Ahmed Mostafa	Comprehensive two-dimensional gas chromatography: 20 years later	29 <sup>th</sup> International Symposium on Chromatography, Sep. 9 – 13, 2012, Torun, Poland
48	Jochen Vestner, S. Malherbe, M. du Toit, H. Nieuwoudt, Ahmed Mostafa, Tadeusz Górecki, A. Tredoux, A. de Villiers	Comparative GC×GC-TOF-MS analysis of the volatile composition of Pinotage wines fermented with different malolactic fermentation (MLF) starter cultures	36 <sup>th</sup> International Symposium on Capillary Chromatography and 9 <sup>th</sup> GC×GC Symposium, May 27-June 1, 2012, Riva del Garda, Italy
49	Ahmed Mostafa, Pak Hin Law, Tadeusz Górecki	Comprehensive Two Dimensional Gas Chromatography (GC×GC) with a Single-Stage Cryogenic Modulator	Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Orlando, FL, USA, Mar 11 - 15, 2012
50	Tadeusz Górecki, Matthew Edwards, Ahmed Mostafa	Effective and cost-efficient modulation in comprehensive two dimensional gas chromatography coupled to time-of-flight mass spectrometry (GC×GC-TofMS)	12 <sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers (HTC-12), Jan. 31 – Feb. 2, 2012, Brugge, Belgium (invited lecture)
51	Tadeusz Górecki, Matthew Edwards, Ahmed Mostafa	Advances in Thermal GC×GC Modulation: Towards Simpler (and Less Expensive) Future	11 <sup>th</sup> Asia-Pacific International Symposium on Microscale Separations and Analysis, 27 - 30 November 2011, Hobart, Tasmania, Australia (invited lecture)
52	Ahmed Mostafa and Tadeusz Górecki	Development and design of a new single-stage cryogenic modulator for comprehensive two dimensional gas chromatography (GC×GC)	Canadian Society for Chemistry (CSC), 94 <sup>th</sup> Canadian chemistry conference and exhibition, Montreal, Quebec, Canada, June 5 – June 9, 2011
53	Ahmed Mostafa, Tadeusz Górecki, Tomasz Dymerski, Tomasz Chmiel, Waldemar Wardencki	Comprehensive two-dimensional gas chromatography-mass spectrometry (GC×GC-TOFMS) analysis and characterization of volatile organic compounds in Polish honeys	Canadian Society for Chemistry (CSC), 94 <sup>th</sup> Canadian chemistry conference and exhibition, Montreal, Quebec, Canada, June 5 – June 9, 2011
54	Tadeusz Górecki, Ahmed Mostafa, Tomasz Chmiel, Tomasz Dymerski, Andre de Villiers, Weldegergis B., Jochen Vestner, Andreas Tredoux	Characterization of Natural Products by Comprehensive Two-Dimensional Gas Chromatography	Canadian Society for Chemistry (CSC), 94 <sup>th</sup> Canadian chemistry conference and exhibition, Montreal, Quebec, Canada, June 5 – June 9, 2011





55	Ahmed Mostafa and Tadeusz Górecki	A new single-stage cryogenic modulator for comprehensive two dimensional gas chromatography (GC×GC)	Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Atlanta, GA, USA, Mar 13 – Mar 18, 2011
56	Tadeusz Gorecki, Ahmed Mostafa, Tomasz Chmiel, Tomasz Dymerski, Andre de Villiers, Andreas Tredoux	Applications of GCxGC in natural product analysis	35 <sup>th</sup> International Symposium on Capillary Chromatography and 8 <sup>th</sup> GCxGC Symposium, San Diego, CA, USA, May 1 – May 5, 2011
57	Tomasz Chmiel, Ahmed Mostafa, Tadeusz Górecki, Tomasz Dymerski, Waldemar Wardencki	Characterization of the volatile components of blue honeysuckle berries using comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry (GC×GC-TOFMS)	Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Atlanta, GA, USA, Mar 13 – Mar 18, 2011
58	Tomasz Chmiel, Tomasz Dymerski, Paulina Biernacka, Waldemar Wardencki, Agnieszka Bartoszek, Ahmed Mostafa, Tadeusz Górecki	Characterization of flavor profile of blue honeysuckle berries	EuroFoodChem XIV - Translating food chemistry into health benefits, Gdansk, Poland, July 6-8, 2011
59	Tadeusz Górecki, Ahmed Mostafa, Tomasz Chmiel, Tomasz Dymerski, A. de Villiers, Jochen Vestner, A.G.J. Tredoux	Applications of GC×GC-ToF MS in Natural Product Characterization	2 <sup>nd</sup> Multi-Dimensional Chromatography Workshop, January 11, 2011, Ministry of Environment, Toronto, ON (invited lecture)
60	Tadeusz Górecki, Ahmed Mostafa, Tomasz Chmiel, Tomasz Dymerski, A. de Villiers, Jochen Vestner, A.G.J. Tredoux	Applications of comprehensive two-dimensional gas chromatography – time-of-flight mass spectrometry (GC×GC-TOFMS) in natural product characterization	Analitika 2010, December 5 – 9, 2010, Stellenbosch, South Africa, abstract O29 (invited keynote lecture)
61	Tadeusz Górecki, O. Panic, C. McNeish, T N. Oldridge, Ahmed Mostafa	Shifting the paradigm in thermal GCxGC modulation	Eastern Analytical Symposium and Exposition, November 15-18, 2010, Somerset, New Jersey, abstract 136 (invited lecture)
62	Ahmed Mostafa and Tadeusz Górecki	Sensitivity of comprehensive two-dimensional gas chromatography (GC×GC) versus one dimensional gas chromatography (1D-GC)	Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Orlando, FL, USA, Feb 28 – Mar 5, 2010



63	Tomasz Dymerski, Tomas Chmiel, Waldemar Wardencki, Ahmed Mostafa, Tadeusz Górecki	Identification of the volatile constituents of Polish honeys using comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry	Extech 2010 - the 12 <sup>th</sup> International Symposium on Advances in Extraction Technologies, Poznań, Poland, Sep 20-22, 2010
64	Ahmed Mostafa and Tadeusz Górecki	Sensitivity in comprehensive two-dimensional gas chromatography (GC×GC)	Canadian Society for Chemistry (CSC), 93 <sup>rd</sup> Canadian chemistry conference and exhibition, Toronto, Ontario, Canada, May 29 – June 2, 2010
65	Ahmed Mostafa and Tadeusz Górecki	Sensitivity of comprehensive two-dimensional gas chromatography (GC×GC) versus one dimensional gas chromatography (1D-GC)	GWC <sup>2</sup> Annual General Meeting, Poster and Conference, Waterloo, Ontario, Canada, 2010
66	Ahmed Mostafa and Tadeusz Górecki	Limits of detection in GC×GC vs. 1D-GC	34 <sup>th</sup> International Symposium on Capillary Chromatography and 7 <sup>th</sup> GCxGC Symposium, Riva del Garda, Italy, May 30 – June 4, 2010
67	Tadeusz Górecki, O. Panic, C. McNeish, T N. Oldridge, Ahmed Mostafa	Single stage modulation – a curiosity or a viable idea	34 <sup>th</sup> International Symposium on Capillary Chromatography and 7 <sup>th</sup> GCxGC Symposium, Riva del Garda, Italy, May 30 – June 4, 2010
68	Alaa El-Gindy, Samy Emara, Ahmed Mostafa	Development and validation of chemometrics-assisted spectrophotometry and liquid chromatography for the simultaneous determination of two multicomponent cough mixtures containing guaiphenesin	The 29 <sup>th</sup> International Conference of Pharmaceutical Sciences and 8 <sup>th</sup> Conference of the Colleges of Pharmacy in the Arab World, Cairo - Egypt, December 2004
69	Alaa El-Gindy, Samy Emara, Ahmed Mostafa	Development and validation of chemometrics-assisted spectrophotometry and liquid chromatography for the simultaneous determination of six-component pharmaceuticals	The 29 <sup>th</sup> International Conference of Pharmaceutical Sciences and 8 <sup>th</sup> Conference of the Colleges of Pharmacy in the Arab World, Cairo - Egypt, December 2004
70	Alaa El-Gindy, Samy Emara, Ahmed Mostafa	Spectrophotometric and LC determination of binary mixture containing bisoprolol fumarate and hydrochlorothiazide	The 29 <sup>th</sup> International Conference of Pharmaceutical Sciences and 8 <sup>th</sup> Conference of the Colleges of Pharmacy in the Arab World, Cairo - Egypt, December 2004



80	Alaa El-Gindy, Samy Emara, Ahmed Mostafa	HPLC and chemometric - assisted spectrophotometric methods for simultaneous determination of atenolol, amiloride hydrochloride and chlothalidone	The 29 <sup>th</sup> International Conference of Pharmaceutical Sciences and 8 <sup>th</sup> Conference of the Colleges of Pharmacy in the Arab World, Cairo - Egypt, December 2004
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### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Heba Shaaban, <b>Ahmed Mostafa</b> , DSR (IAU)	Monitoring and Assessment of pharmaceutically active compounds as environmental emerging contaminants in wastewater in Dammam	March, 2017
2	Heba Shaaban, Wejdan AlHajri, <b>Ahmed Mostafa</b>	Assessment and determination of endocrine disrupting compounds in cosmetic and personal care products marketed in Saudi Arabia	2018

### Current Researches

#	Research Title	Name of Investigator(s)
1	Human health risk assessment of exposure to xenobiotics among population in Saudi Arabia	<b>Ahmed Mostafa</b> , Heba Shaaban, Dania Hussein, Abdulmalik Alqarni, Joseph Royes
2	Development of a smart nanohybrid material for solar photodegradation and disinfection of organic (biological) pollutants in water	Hafedh Kochkar, Nuhad Alomair, Omer Aga, <b>Ahmed Mostafa</b>
3	Comprehensive characterization and assessment of the contaminants of emerging concern in seawater, biota and sediment of Arabian Gulf and its impact on marine environment using state-of-the-art chromatographic techniques	<b>Ahmed Mostafa</b> , Heba Shaaban, Omer Aga
4	Monitoring and assessment of antibiotic use in aquaculture in KSA	Heba Shaaban, <b>Ahmed Mostafa</b> , Faten Alhomoud
5	Chemo-profiling, isolation and partial synthesis of natural products from plants/microbes for potent anti-cancer, anti-microbial and antidiabetic interest	Ashik Mosaddiq, Noor Almandil, Mohamed Ibrahim, <b>Ahmed Mostafa</b> , Muhammad Nawaz, Muhammad Taha
6	Molecular insights into the antiepileptic effects of Carbamazepine, Imipramine and their combinations in animal models of epilepsy	Faheem Potto, Mohammad Ansari, <b>Ahmed Mostafa</b> , Mohammed Salahuddin

### Membership of Scientific and Professional Societies and Organizations

- Canadian Society for Chemistry.



- Environmental Technology and Management Association (Saudi Arabian section of air and waste management association).
- Egyptian General Syndicate of Pharmacists.

## Teaching Activities

### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Pharmaceutical Analytical Chemistry	PHCH 208	<ul style="list-style-type: none"> <li>▪ Course Coordinator.</li> <li>▪ Taught the whole course to male students.</li> <li>▪ Prepared the lab manual.</li> <li>▪ Supervised labs.</li> </ul>
2	Instrumental Analysis	PHCH 515	<ul style="list-style-type: none"> <li>▪ Course Coordinator.</li> <li>▪ Taught the whole course to male students.</li> </ul>
3	Medicinal Chemistry III	PHCH 403	<ul style="list-style-type: none"> <li>▪ Course Coordinator (2015, 2016, 2019 and 2020).</li> <li>▪ Taught the whole course to male students (2015 &amp; 2016).</li> <li>▪ Taught the whole course to female students (2015 &amp; 2016).</li> <li>▪ Taught half of the course to female students (2017 &amp; 2018).</li> <li>▪ Taught half of the course to male students (2017 &amp; 2018).</li> <li>▪ Taught half of the course to female students (2019).</li> <li>▪ Taught half of the course to male students (2019).</li> </ul>
4	Graduation Project	CLPH 507	<ul style="list-style-type: none"> <li>▪ Supervising and co-supervising students' graduation projects.</li> </ul>
5	Pharmacy Orientation	CLPH 201	<ul style="list-style-type: none"> <li>▪ Course Coordinator (2014/2015).</li> <li>▪ Taught the whole course to male students.</li> <li>▪ Taught the whole course to female students.</li> </ul>
6	Introduction to Analytical Chemistry	Chem 220 (University of Waterloo, Canada)	<ul style="list-style-type: none"> <li>▪ TA for the course.</li> </ul>
7	Analytical Chemistry Laboratory	Chem 224L (University of Waterloo, Canada)	<ul style="list-style-type: none"> <li>▪ Instrumental analysis experiments (GC and HPLC) for undergraduate students.</li> </ul>



8	Physical and chemical properties of matter	Chem 120 (University of Waterloo, Canada)	<ul style="list-style-type: none"> <li>▪ TA</li> <li>▪ Tutored undergraduate students</li> </ul>
9	Pharmaceutics 1	Pharm 124L (University of Waterloo, Canada)	<ul style="list-style-type: none"> <li>▪ TA</li> <li>▪ Undergraduates' labs.</li> </ul>
10	Qualitative inorganic analysis	Faculty of Pharmacy, Suez Canal University, Egypt	<ul style="list-style-type: none"> <li>▪ TA</li> <li>▪ Undergraduates' labs.</li> </ul>
10	Quantitative analytical chemistry	Faculty of Pharmacy, Suez Canal University, Egypt	<ul style="list-style-type: none"> <li>▪ TA</li> <li>▪ Undergraduates' labs.</li> </ul>
11	Instrumental analysis	Faculty of Pharmacy, Suez Canal University, Egypt	<ul style="list-style-type: none"> <li>▪ TA</li> <li>▪ Undergraduates' labs.</li> </ul>

### Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
1	Pharmaceutical Analytical Chemistry – PHCH 208	√		√		Jan. 2021	June. 2022
2	Medicinal Chemistry III – PHCH 403	√		√		Sep.2 020	Dec. 2022
3	Pharmaceutical Analytical Chemistry – PHCH 208	√		√		Jan. 2015	June. 2020
4	Instrumental Analysis – PHCH 515	√		√		Sep. 2017	Dec. 2019
5	Medicinal Chemistry III – PHCH 403	√		√		Sep.2 015	Dec. 2018
6	Pharmacy Orientation – CLPH 201	√		√		Sep.2 015	Dec. 2016
7	Medicinal Chemistry III – PHCH 403	√		√		Sep. 2019	Present

### Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	College and University or Program	Date
1	Health Professional Ethics from Islamic Perspective	Health Club at IAU	March 2017
2	Research Process	Undergraduate 4 <sup>th</sup> year students	Nov. 2016
3	How to use EndNote	Undergraduate 4 <sup>th</sup> and 5 <sup>th</sup> year students	Oct. 2017 & Oct. 2018
4	Career pathways for pharmacists	Undergraduate pharmacy students at IAU	Feb. 2019



### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Masters – External Supervisor	Master of Pharmaceutical Quality Assurance and Biotechnology	Dublin Institute of Technology, School of Chemical and Pharmaceutical Sciences, Dublin, Ireland	Nov. 2017

### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

#### Administrative Responsibilities

#	From	To	Position	Organization
1	9/2023	Present	Head of Quality management and Academic Accreditation Unit	College of Clinical Pharmacy, Imam Abdulrahman University
2	7/2014	9/2021	Vice Dean for Quality, Development and Community Services	College of Clinical Pharmacy, Imam Abdulrahman University
2	6/2019	9/2023	Professional Development Unit	College of Clinical Pharmacy, Imam Abdulrahman University
3	7/2014	1/2018	Teaching & Learning Unit coordinator	College of Clinical Pharmacy, Imam Abdulrahman University
4	11/2017	Present	Program reviewer	Education Evaluation Commission – National Center for Academic Accreditation and Evaluation (EEC-NCAAA), KSA
	10/2018	Present	Institution and Program Reviewer	Education Evaluation Commission – Saudi Arabian Qualification Framework (EEC-SAQF), KSA

#### Committee Membership

#	From	To	Position	Organization
1	9/2021	Present	Curriculum Committee	College of Clinical Pharmacy, Imam Abdulrahman University
2	9/2021	9/2023	Postgraduate Committee	College of Clinical Pharmacy, Imam Abdulrahman University
3	9/2021	9/2023	Scientific Research Committee	College of Clinical Pharmacy, Imam Abdulrahman University



4	9/2015	9/2021	Quality and Development Committee, Head	College of Clinical Pharmacy, Imam Abdulrahman University
5	4//2016	9/2021	Strategic Planning Committee, Vice-chair	College of Clinical Pharmacy, Imam Abdulrahman University
6	2/2017	12/2020	Self-evaluation Main Steering Committee, Vice-chair	College of Clinical Pharmacy, Imam Abdulrahman University
7	3/2018	Present	External Advisory Committee, Member	College of Clinical Pharmacy, Imam Abdulrahman University
8	10/2015	9/2021	Imam Abdulrahman Bin Faisal University Permanent Executive Committee for Quality, member	Imam Abdulrahman University
9	10/2014	4/2019	College of Clinical Pharmacy Foundation Committee	College of Clinical Pharmacy, Imam Abdulrahman University
10	4/2019	9/2021	College of Clinical Pharmacy Board	College of Clinical Pharmacy, Imam Abdulrahman University
11	1/2017	5/2020	Students Disciplinary Committee	College of Clinical Pharmacy, Imam Abdulrahman University
12	9/2019	9/2021	Risk Management Committee	College of Clinical Pharmacy, Imam Abdulrahman University
13	4/2014	4/2019	Laboratory Preparation Committee	College of Clinical Pharmacy, Imam Abdulrahman University
14	3/2015	6/2019	Curriculum Development Committee	College of Clinical Pharmacy, Imam Abdulrahman University

### Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2/2018	Present	Editorial board member	Journal of Advances in Analytical and Pharmaceutical Chemistry
2	1/2018	Present	Editorial board member	SEJ Pharmaceutical Analysis.
3	4/2018	Present	Editorial board member	Pharmacy Practice and Pharmaceutical Sciences journal
4	6/2017	Present	Journal Reviewer	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
5	11/2022	Present	Journal Reviewer	Sustainable Chemistry and Pharmacy



6	7/2022	Present	Journal Reviewer	Journal of Pharmaceutical and Biomedical Analysis
7	3/2017	Present	Journal Reviewer	Energy & Fuels
8	11/2011	Present	Journal Reviewer	AOAC International
9	9/2013	Present	Journal Reviewer	RSC Advances
10	4/2012	Present	Journal Reviewer	Scientia Pharmaceutica
11	1/2013	Present	Journal Reviewer	Analytical Methods
12	8/2011	Present	Journal Reviewer	The Analyst
13	5/2009	Present	Journal Reviewer	African Journal of Pharmacy & Pharmacology
14	5/2020	Present	Journal Reviewer	Journal of Separation Science
15	1/2018	Present	Journal Reviewer	Journal of Liquid Chromatography & Related Technologies
16	5/2019	Present	Journal Reviewer	Spectroscopy Letters
17	10/2013	3/2014	Teacher at Almanar Evening School Program	Waterloo, Ontario, Canada
18	10/2010	7/2012	Program Coordinator, Almanar Evening School	Waterloo, Ontario, Canada
19	10/2009	10/2010	Teacher at Almanar Evening School Program	Waterloo, Ontario, Canada
20	10/2009	7/2012	Teacher at Al-Huda weekend school	Waterloo, Ontario, Canada

### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	More than 20 years of experience in the field of Analytical Chemistry, specializing in method development and validation.
2	Strong administrative and teaching skills and experience.
3	Strong experience in quality in higher education, curriculum development and teaching methods.
4	Best Researcher Award at the College of Clinical Pharmacy, IAU (2018-2019)
5	Proficiency in LC, GC, GCxGC – Quadrupole and TOF mass spectrometry, LC-MS-MS, LC-Orbitrap
6	Proficiency in sample preparation techniques such as SPME, SPE, accelerated solvent extraction (ASE) and ultrasonic-assisted extraction
7	Strong experience in method development, validation and complex sample analysis.
8	Strong mathematical knowledge of chemometrics (e.g., CLS, PCR, PLS-1 and MCR-ALS) and its application in pharmaceutical, environmental and food analysis.
9	Applications: TEX, LATEX, BibTEX, Microsoft office, Openoffice, HTML, TurboCAD professional 16, ChemDraw, and various chromatography data processing software's

### Honors and Awards

1.	Project PI for Best Poster Presentation (2 <sup>nd</sup> place) Award to student: Nour Alhaddad and Zainab Alsadah 2/2022 – DUPHAT2022, Dubai, UAE.
2.	Project PI for Best Poster Presentation (2 <sup>nd</sup> place) Award to student: Semat Alsultan and Jenan Alsaeed





- 12/2021 – KSAPT2021, Khobar, KSA.
- 3.** *Project PI for Best Poster Presentation (2<sup>nd</sup> place) Award to student: Sara Alrefai*  
12/2020 – KSAPT2020, Khobar, KSA.
  - 4.** *Project PI for Best Poster Presentation (3<sup>rd</sup> place) Award to student: Batool Albaqshi and Waqar Alhussain*  
12/2020 – KSAPT2020, Khobar, KSA.
  - 5.** *Project PI for Best Oral Presentation (Pharmaceutical Science – 1<sup>st</sup> place) Award to student: Raneem Alansari*  
1/2020 – SIPHA 2020, Riyadh, KSA.
  - 6.** *Best Researcher Award*  
5/2019 – College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University.
  - 7.** *Project PI for Best Poster (1<sup>st</sup> place) Award to presenting students: Fatima Alsultan, Ahlam Alrasheedy and Raneem Alansari*  
4/2019 – 1<sup>st</sup> KSAPT, Dammam, KSA
  - 8.** *Project Col for Best Poster (3<sup>rd</sup> place) Award to presenting students: Anhar Alziadi, Nada Alhamad*  
4/2019 – 1<sup>st</sup> KSAPT, Dammam, KSA.
  - 9.** *Project PI for Best Poster (1<sup>st</sup> place) Award to presenting students: Ghada Algofari, Laila Alghalaween*  
11/2018 – Arab International Pharmacy Congress, Riyadh, KSA
  - 10.** *Project PI for Best Poster (10<sup>th</sup> place) Award to presenting students: Bushra Alzahrani, Bushra Aljasser and Raghad Alghamdi*  
2/2019 – DUPHAT, Dubai, UAE
  - 11.** *The Best Inspiring Person Title*  
5/2015 - Selected by College of Clinical Pharmacy students, College of Clinical Pharmacy Magazine (Volume 1), University of Dammam, Dammam, KSA
  - 12.** *Canadian Water network (CWN) Postdoctoral Research Fellowship*  
9/2013 - 4/2014, Ryerson University, Toronto, Ontario, Canada
  - 13.** *Best Innovative Poster Award*  
36<sup>th</sup> International Symposium on Capillary Chromatography and 9<sup>th</sup> GCxGC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy
  - 14.** *The Prestigious Ontario Graduate Scholarship (OGS)*  
2011-2012, Ontario, Canada
  - 15.** *University of Waterloo Presidential Award*  
2011-2012, University of Waterloo, Ontario, Canada
  - 16.** *Nominated for the gold medal for the best PhD thesis Award*  
Spring 2012, University of Waterloo, Ontario, Canada



- 17. Graduate Research Studentship**  
Winter 2009 – Winter 2011, University of Waterloo, Ontario, Canada  
Spring 2012, University of Waterloo, Ontario, Canada
- 18. International Doctoral Student Award**  
Spring 2008 – Winter 2009, University of Waterloo, Ontario, Canada
- 19. Science Graduate Experience Award**  
Spring 2008 – Fall 2011, Chemistry department, University of Waterloo, Ontario, Canada
- 20. Nominated for The F.W. Karasek Scholarship Award**  
Winter 2012, Chemistry department, University of Waterloo, Ontario, Canada
- 21. Nominated for R.H.F. Manske Prize**  
Winter 2012, Chemistry department, University of Waterloo, Ontario, Canada
- 22. Distinguished undergraduate student Award**  
1995 – 2000, Suez Canal University, Faculty of Pharmacy, Ismailia, Egypt
- 23. Placed on a high honor list of all academic semesters of my graduate and undergraduate studies.**

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### Last Update

2/4/2024