

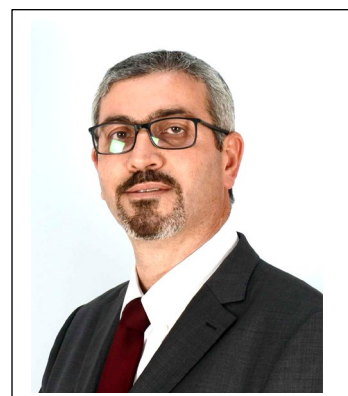
## CURRICULUM VITAE (CV)

MOHAMMAD H. SEMREEN  
COLLEGE OF PHARMACY  
UNIVERSITY OF SHARJAH  
P.O. BOX 27272 SHARJAH  
UNITED ARAB EMIRATES

OFFICE: (971)-6-5057419

CELL: (971)-55-6295892

[msemreen@sharjah.ac.ae](mailto:msemreen@sharjah.ac.ae)



### Management Experience

- ❑ Chairman of Medicinal Chemistry Department, College of pharmacy, University of Sharjah, 2016 to present.
- ❑ Chairman of Pharmaceutical Chemistry Department, Isra University, Amman, Jordan, 2004- 2006.
- ❑ Integrated Analytical Center coordinator, University of Sharjah, 2015-Present.
- ❑ Acting Dean, College of Pharmacy, Isra University, Amman, Jordan, summer semesters, 2004, 2005 and 2006.
- ❑ Lab. Coordinator, College of Pharmacy, Isra University, Amman, Jordan, 2003-2007
- ❑ Quality Control Manager, Ram Pharmaceutical Company, Amman, Jordan: May 2001- September 2002.
- ❑ Long Service in Key Senior Committees at the University and College levels

### Significant Undergraduate and Graduate Program Development Experience

- ❑ Analytical Toxicology business plan preparation, submitted to the vice chancellor for medical affairs, UOS, 2019.
- ❑ Major contribution in developing the MSc. Program in Pharmaceutical Sciences, College of Pharmacy, University of Sharjah, UAE
- ❑ Currently involved in developing the Ph.D. Program in Pharmaceutical Sciences, College of Pharmacy, University of Sharjah, UAE.
- ❑ Major restructuring of the BSc Program in Pharmacy to meet accreditation requirements, UAE.
- ❑ Major contribution in developing the Medicinal Chemistry concentration in the MSc program.
- ❑ Major restructuring of the MSc program to streamline its many specializations.

### **Significant National and International Program Accreditation Experience**

- ❑ Actively participated in the accreditation of the BSc. Program in Pharmacy by the Ministry of Higher Education, Isra University, Jordan.
- ❑ Actively participated in the accreditation of the BSc. Program in Pharmacy by the Ministry of Higher Education, a number of times, University of Sharjah, UAE.
- ❑ Actively participated in the accreditation of MSc Program in Pharmaceutical Sciences by the Ministry of Higher Education, University of Sharjah, UAE.
- ❑ Ph.D. program in Pharmaceutical sciences, College of Pharmacy, University of Sharjah
- ❑ ACPE accreditation, College of Pharmacy, University of Sharjah, (running)

### **Significant Community Service Activity**

- ❑ Drug registration and pricing, technical committee, Ministry of Health, UAE, 2009-Present.
- ❑ Drug registration and pricing, higher committee, Ministry of Health, UAE, 2009-2018.
- ❑ Member of the International Forensic Scientific Council – IFSC, Dubai, 2016-present, UAE.
- ❑ Scientific committee member “Emirates International Forensic Conference and Exhibition” 2016-2018.
- ❑ Organizing committee member: International Conference on Pharmaceutical Drugs, May 2017, Dubai-UAE.
- ❑ Organizing committee member, International conference of personalized medicine and targeted therapy in cancer, Sharjah institute for medical research, University of Sharjah, UAE, 2013.
- ❑ Think Science Competition (Judge- Scientific Committee)), Emirates Foundation, Abu Dhabi, UAE, 2016-Present.

### **Academic and Professional Awards and Scholarships**

- ❑ Merit award for distinction in teaching, University of Sharjah, 2017 & 2021
- ❑ Full professor rank promotion, University of Sharjah, 2021, UAE.
- ❑ Sharjah Islamic Bank award, for distinguished research article, University of Sharjah, 2014.
- ❑ Associate professor rank promotion, University of Sharjah, 2014, UAE.
- ❑ Best research article award, University of Sharjah, UAE, 2012.
- ❑ Best research group award, University of Sharjah, UAE, 2012.
- ❑ Assistant professor, Isra University, Jordan, 2003.
- ❑ Scholarship for Ph.D. In pharmaceutical sciences from Italian government, 1998.
- ❑ Scholarship for B.SC. In Pharmacy, from Italian government, 1990.

---

## EDUCATION

Ph.D. in Pharmaceutical Sciences (Pharmaceutical Chemistry), Pharmaceutical Chemistry Department, College of Pharmacy, Messina University, Italy, 1997- 2001.

B. Sc. in Pharmacy, Messina University, Italy, June 1996

## Employment history

Position	Name of University	Duration	
		From	To
Chairman of Medicinal Chemistry Department, College of pharmacy	University of Sharjah, UAE	9/2016	Present
Associate Professor of Medicinal Chemistry	University of Sharjah, UAE	2/2014	Present
Visiting Assistant Professor, Department of Pharmaceutical Sciences, College of Pharmacy	University of Kentucky, USA.	1/7 2011	1/8 2011
Visiting Assistant Professor, Medicinal Chemistry Department, College of Pharmacy	Messina University	1/7 2009	1/8 2009
Chairman of Pharmaceutical Chemistry Department	Isra University, Amman, Jordan	9/2004	9/2006
Assistant Professor of Medicinal Chemistry, College of Pharmacy	University of Sharjah, UAE	2/2007	2/2014
Acting Dean College of Pharmacy	Isra University, Amman, Jordan	Summer semesters 2004, 2005 and 2006	
Consultant for Ram Pharmaceutical, adjunct to full time employment at Al-Isra University	Ram Pharmaceuticals	2/2003	8/2006
Assistant professor of Pharmaceutical Chemistry, College of Pharmacy	Isra University, Amman, Jordan	2002	2007
Graduate Research/Teaching Assistant	Pharmaceutical Chemistry Dep. Messina University	1997	2001
Researcher in R&D	Jordanian Pharmaceutical company (JPM)	1996	1997

## MEMBERSHIP OF SENIOR ACADEMIC COMMITTEES

Committee	Member/ Chair	Organization	Duration of Experience	
			From	To
Ph.D. program in Pharmaceutical sciences.	Chair	UoS	2020	
Master program in Pharmaceutical sciences.	Member	UoS	2016-Present	
Establishment of a specialized quality assurance analytical laboratory for Chemical, Health and Environmental Analysis	Chair/ Lab Director	UoS	2015- Present	
Purchasing and Laboratories	Chair	UoS	2009-Present	
College of Pharmacy space needs	Chair	UoS	2018	
Promotion& Recruitment	Member	UoS	2016-2018	
Curriculum	Member	UoS	2016-Present	
Teaching and Learning Approaches	Member	UoS	2018	
Student Affairs	Member	UoS	2017- Present	
Incentive Teaching Award	Member	UoS	2016	
Establishment of Ph.D. Program in biomedical and Pharmaceutical Sciences.	Member	UoS	2016- Present	
Establishment of MSc Program in Pharmaceutical Sciences	Member	UoS	2015	2019
University Council	Elected Member	UoS	2014	2015
Examination	Chair	UoS	2012	2015
College Council	Member	UoS	2007-2013 2016-Present	
Faculty Development	Chair	UoS	2012-2015	
Innovation Box, Scientific Advisory Board Member, Biomedical Sciences Track	Member	UoS	2016-Present	
Health Insurance	Member	UoS	2012	2014
Faculty Affairs	Member	UoS	2012	2014

Curriculum	Member	UoS	2014	Present
Laboratory & Safety	Member	UoS	2014	Present
Faculty Grievance	Member	UoS	2007	2008
Student Affairs & Advising	Member	UoS	2008	2009
Academic Accreditation	Member	UoS	2015	2019
Purchasing & Laboratories	Chair	Isra University-Jordan	2002	2007
College Council	Member	Isra University-Jordan	2002	2007
University Council	Member	Isra University-Jordan	2004	2005
Students Training	Member	Isra University-Jordan	2002	2007
Quality Assurance	Member	Isra University-Jordan	2002	2008
Curriculum	Member	Isra University-Jordan	2002	2006

## PROFESSIONAL REGISTRATION

Professional Registration	Date
Jordanian Pharmacists association-Jordan	1996-Present
Arab Union of Pharmacists association	(1996-Present)
American Chemical Society, Medicinal Chemistry Division	2010-2015
American Chemical Society, Analytical Chemistry Division	2010-2015 2017-2018

## JOURNAL EDITORIAL INVOLVEMENT

Position	Organization	Duration of Experience	
		From	To
Member - Editorial Board	International Forensic Scientific Council – IFSC	2016	Present
Member - Editorial Board	International Journal of Chromatography & Separation Techniques.	2016	Present

Member - Editorial Board	Journal Natural Products Chemistry & Research.	2015	Present
Member - Editorial Board	Journal of Medicinal Chemistry	2016	Present

<b>Courses Developed/Taught/Coordinated</b>	<b>University</b>	<b>Course Type</b>
Instrumental Analysis/ Master	University of Sharjah	Graduate
Pharmaceutical Analysis/ Master		
Pharmaceutical Analysis I/Master		
Advanced Techniques in Molecular Biology/ Master		
Advanced Techniques in Molecular Biology/ Ph.D		
Medicinal Chemistry IA	University of Sharjah Under-Graduate	
Medicinal Chemistry IA Lab & Tutorials		
Medicinal Chemistry IB		
Medicinal Chemistry IB Lab. & Tutorials		
Analytical Methods of Nutraceuticals		
Analytical Methods of Nutraceuticals lab.		
Chemistry for Pharmacy		
Chemistry for Pharmacy lab.		
Graduation projects		
Medicinal Chemistry II		
Analytical Chemistry		
Instrumental Analysis		
Physical Pharmacy		
Instrumental Analysis lab.		

<b>Professional Conference and Events Organized/Being Planned</b>

## GRANTS AND FUNDING

Type	Project Title	Granting Organization	Investigators/ Partners	Dates
Res.	Computational models applied to multi-omics data for the early diagnostics biomarkers of breast cancer in Arab and Russian population	UOS-Skoltech	Prof. Christoph Borchers; Prof. Evgeny Nikolaev, Dr. Maxim Sharaev, Dr. Grigoriy Kovalev, Dr. Alexey Kononikhi, UOS: Dr. Nelson Alexandre da Cruz Soares Riyadh Bendardaf, Dr. Adnane Guella	2021-2023
Res.	A modern test for the timely personalized diagnosis of lung cancer onset and the disease progression based quantitative multiplexed determination of the proteome/metabolome profile of blood and exhaled breath condensate	Ministry of Science and Higher Education of Russian Federation and UOS	Prof. Christoph Borchers; Prof. Evgeny Nikolaev, Dr. Grigoriy Kovalev,	2021-2022
Res.	Synthesis and biophysical characterization of DNA binding ligands as potential antibacterial and anticancer agents.	University of Sharjah	Hassan Alniss (P.I) and Mohammad Semreen (Co-PI)	2020-2022
Res.	Development of solid phase lexitropsin synthesis to target the androgen response element sequence.	University of Sharjah	Hassan Alniss (P.I) and Mohammad Semreen (Co-PI)	2020-2022

Res.	The Discovery of novel salivary biomarkers for early detection of oral cancer with background of smokeless tobacco using targeted and untargeted quantitative proteomic & Transcriptomic approaches	University of Sharjah	Natheer Hashim (P.I), Mohammad Semreen (Co-P.I), and Sawsan Qawwas	2021-2023
Res.	Ecological Risk Assessment of Pharmaceuticals and Hormones in the UAE Aquatic Environment	University of Sharjah	Lucy Semerjian (P.I), Mohammad Semreen (Co-P.I) and Aballah Shanableh.	2021-2023
Res.	Development of sensitive and selective analytical methods for the investigation and detection of pharmaceutical products and xenobiotics contaminants in UAE wastewater and its remediation	University of Sharjah	Mohammad H. Semreen et al.	2019-2021
Res.	Design, synthesis and biological evaluation of new sulfonate derivatives as potential anticancer agents	Boehringer Ingelheim	Mohammad H. Semreen	2017-2018
Res.	Molecular and metabolic signature of iron store in pancreatic $\beta$ -cells	Al-Jalila foundation	Jalal Tannera, Mohammad Semreen, Rifat hammodi, Moawiah Hamad and Sara Dhiban	2017-Present
Res.	Design and synthesis of new sulfamate derivatives as potential inhibitors of steroid sulfatase enzyme for treatment of hormone-dependent cancers	Boehringer Ingelheim	Mohammad H. Semreen and Mohammad El-Gamal	2016-2017
Res.	Targeting cancer: Imidazopyridine and imidazopyrizine as potential inhibitors of cycline dependent kinase	Boehringer Ingelheim	Mohammad H. Semreen	2015-2016



Res.	Design, synthesis, and in vitro antiproliferative activity of new sulfonate derivatives possessing naphthyl moiety	Boehringer Ingelheim	Mohammad El-Gamal and Mohammad Semreen	2014-2015
Res.	Inhibition of Biogas Production from Sewage Sludge Co-Digested with Date palm Seeds and Antibacterial and Anticancer Characteristics of Date Seed Extracts	University of Sharjah	A. Shanableh. Mohammad Semreen and I. Saadoun	2015-present
Res.	Emerging Contaminants in Wastewater Reuse in The Emirate of Sharjah (Under Consideration)	University of Sharjah, UAE Desert Research Institute, USA, Sharjah Research Academy, UAE	A. Shanableh. Mohammad Semreen and L. Semrejian	2016-2017
Res.	Design, Synthesis and Pharmacological evaluation of Tyrosine and Tyramine prodrugs as candidates for Parkinsonism's treatment	University of Sharjah	Mohammad H. Semreen et al.	2014-2017
Res.	Tyramine and Tyrosine as a Tetrahydro-2H-1,3,5-thiadiazine-2-thione derivatives)	University of Sharjah	Mohammad H. Semreen et al.	2008-2010
Res.	Design, synthesis and development of bioreversible carriers for $\gamma$ -aminobuterric acid.	University of Sharjah	Mohammad H. Semreen et al.	2009

## Published articles

- 1- Rawan M. Sbenati, **Mohammad H. Semreen**, Ahlam M. Semreen, Mahmoud K. Shehata, Fai M. Alsaghir, and Mohammed I. El-Gamal, Evaluation of imidazothiazole-based anticancer agents in one decade (2011-2020): Current status and future prospects, *Bioorganic & Medicinal Chemistry*, 29, 1, **2021**,115897.
- 2- Abdallah Shanableh; Sourjya Bhattacharjee; Sama Alani; Noora Darwish; Mohamed Abdallah; Muath Mousa; **Mohammad Semreen**, Assessment of sulfamethoxazole removal by nanoscale zerovalent iron, *Science of the Total Environment*, 761, 20, **2021**, 143307.
- 3- Sameh S. M. Soliman, Tasneem Al Hamidi, Shifaa Abdin, Ahmed M. Almehdi, **Mohammad H. Semreen**, Razan Al Hamidi, Sarra B. Shakartalla, Mohamed Haider, Mohamed I. Hussein, Hany A. Omar, Effective targeting of breast cancer cells (MCF7) via novel biogenic synthesis of gold nanoparticles using cancer-derived metabolites, *PLOS ONE*, 27, **2020**, 3390-3396.
- 4- Muhammad Nasir Khan Khattak, Abdallah Shanableh, Muhammad Iftikhar Hussain Amir Ali Khan, Muhammad Abdulwahab, Wameed Radeef, **Mohammad H. Semreen**, Anticancer activities of selected Emirati Date (*Phoenix dactylifera* L.) variet-ies pits in human triple negative breast cancer MDA-MB-231 cells, *Saudi Journal of Biological Sciences*, 2020.
- 5- **Mohammad H. Semreen**, Hasan Alniss, Stefano Cacciatore, Rafat El-Awady, Muath Mousa, Ahmed M. Almehdi, Waseem El-Huneidi, Luiz Zerbini, Nelson C. Soares, GC-MS based comparative metabolomic analysis of MCF-7 and MDA-MB-231 cancer cells treated with Tamoxifen and/or Paclitaxel, *In press, J. of Proteomics*, **2020**, 225, 103875.
- 6- Mohammed I. El-Gamal , Hany A. Omar, **Mohammad H. Semreen**, Israa A. Younes, Youmna Y. Zaghoul, Ayat E. Abbas, Iman G. Moussa, Fatima Hersi, and Chang-Hyun Oh, Antiproliferative activity of cycloalkanecarboxamide derivatives possessing sulfonate or sulfamate moiety, accepted article, *Bioorganic Chemistry*, **2020**, 97,103677.
- 7- Hussain MI, **Mohammad H. Semreen**, Shanableh A, Khattak MNK, Saadoun, Ahmady IM, Mousa M, Darwish N, Radeef W, Soliman SSM, Phenolic Composition and Antimicrobial Activity of Different Emirati Date (*Phoenix dactylifera* L.) Pits: A Comparative Study, *Plants*, **2019** 12; 8(11) 498.
- 8- Alniss HY, Witzel, **Mohammad H. Semreen**, Panda PK, Mishra YK, Ahuja R., Investigation of the Factors That Dictate the Preferred Orientation of Lexitropsins in the Minor Groove of DNA. *J Med Chem.* **2019**, 62(22):10423-10440.

- 9- **Mohammad H. Semreen**, Hasan Y. Alniss, Stefan Grgic, Rafaat El-Awady, Ahmed Almeahdi, Muath K. Mousa, Rifat Hamoudi. GC-MS based comparative metabolomics of MCF-7 breast cancer cells using different extraction solvents assessed by mass spectroscopy, *scientific reports*, **2019**, 9(1):13126.
- 10- **Mohammad H. Semreen**, Mohammed I. El-Gamal, Saif Ullah, Saquib Jalil, Sumera Zaib, Chang-Hyun Oh, Joanna Lecka, Jean Sévigny, and Jamshed Iqbal, Synthesis, biological evaluation, and molecular docking study of sulfonate derivatives as nucleotide pyrophosphatase (NPPs), *Bioorganic and Medicinal Chemistry*, **2019**, 27, (13), 2741-2752.
- 11- **Mohammad H. Semreen**, Hasan Y. Alniss, Muath K. Mousa and Hassan Y. Aboul-Enein, Quick and Sensitive UPLC-ESI-MS/MS Method for Simultaneous Estimation of Sofosbuvir and Its Metabolite in Human Plasma, *Molecules*, **2019**, 24(7), 1302.
- 12- **Mohammad H. Semreen**, Abdallah Shanableh, Lucy Semerjian, Hasan Alniss, Mouath Khairi, Xuelian Bai and Kumud Acharya, Simultaneous determination of pharmaceuticals in by solid-phase extraction and liquid chromatography–tandem mass spectrometry: a case study from Sharjah sewage treatment plant, *Molecules*, **2019**, 24(3), 633.
- 13- **Mohammad H. Semreen**, Sameh S. M. Soliman, Balsam Q. Saeed, Abdullah Alqarihi, Priya Uppuluri and Ashraf S. Ibrahim, Metabolic Profiling of *Candida auris*, a Newly-Emerging Multi-Drug Resistant *Candida* Species, by GC-MS, *Molecules*, **2019**, 24(3), 399.
- 14- Lucy Semerjian, Abdallah Shanableh and **Mohammad H. Semreen**, Human health risk assessment of pharmaceuticals in treated wastewater reused for non-potable applications in Sharjah, United Arab Emirates, *Environment International*, **2018**, 121, 325–331.
- 15- **Mohammad H. Semreen**, Hasan Y. Alniss, Muath K. Mousa, Rafaat El-Awady, Farman Khan, and Khalid Abu Al-Rub, Quantitative study of doxorubicin in the exosomes of A549/MCF-7 cancer cells and human plasma using liquid chromatography-tandem mass spectrometry, *Saudi Pharm. J.* **2018**, 26 (7), 1027-1034.
- 16- Ana Cláudia Pompeu Raminelli, Valéria Romero, **Mohammad H. Semreen** and Gislaine Ricci Leonardi, Nanotechnological advances for cutaneous release of tretinoin: an approach to minimize side effects and improve therapeutic efficacy, *Current Medicinal chemistry*, **2018**, 25, 31.
- 17- **Mohammad H. Semreen**, Mohammed I. El-Gamal, Shifaa Abdin, Hajar Alkhazraji, Leena Kamal, Saba Hammad, Faten El-Awady, Dima Waleed, and Layal Kourbaj; "Recent updates of marine antimicrobial peptides". *Saudi Pharm. J.* **2018**, 26(3), 396-409.
- 18- Soliman, S., **Mohammad H. Semreen**, Ali A. El-Keblawy, Arbab Abdullah, Priya Uppuluri and Ashraf S. Ibrahim. Assessment of herbal drugs for

- promising anti-Candida activity. *BMC Complementary and Alternative Medicine*, **2017**, 17, (1): 257.
- 19- Radeef, W., Shanableh, A., **Mohammad Semreen**, Saadoun, I., Extraction solvent's effect on biogas production from mixtures of date seed and wastewater sludge, **2017**, MATEC Web of Conferences.
- 20- Raed A. Al-Qawasmeh, Basil B. Huthaila, Mutasem. Sinnokrot, **Mohammad H. Semreen**, Raed A. Odeh, Musa H. Abu-Zarga, Hamadeh Tarazi, Imad A. Yousef and Taleb H Al-Tel, Design, Synthesis and Qualitative Structure Activity Relationship Evaluations of Quinoline-Based Bisarylimidazoles as Antibacterial Motifs. *Medicinal chemistry*, **2016**, 11, 563-573.
- 21- Mohammed I. El-Gamal, **Mohammad H. Semreen**, Paul A. Foster, and Barry V.L. Potter; "Design, synthesis, and biological evaluation of new arylamide derivatives possessing sulfonate or sulfamate moieties as steroid sulfatase enzyme inhibitors" *Bioorganic & Medicinal Chemistry*, **2016**, 24(12), 2762-2767.
- 22- Raafat A. El-Awady, **Mohammad H. Semreen**, Maha M. Saber, Farhan Cyprian, Taleb Al-Tel, Modulation of DNA damage response and induction of apoptosis mediates synergism between doxorubicin and a new imidazopyridine derivative in breast and lung cancer cells, *DNA-Repair*, **2016**, 37, 1-11.
- 23- Subash Chandra Sahoo, Naba K. Nath, Lidong Zhang, **Mohammad H. Semreen**, Taleb H. Al-Tel and Panče Naumov, Actuation based on thermo/photosensitive effect: a biogenic smart hybrid driven by light and heat, *RSC Adv.*, **2014**, 4, 7640-7647.
- 24- Raed A. Al-Qawasmeh, Monther A. Khanfar, Mohamad H. Semreen, Raed Abu Odeh, and Taleb H. Al-Tel, Design and synthesis of new hybrid triazine-indol derivatives as potential antimicrobial agents against hospital resistant strains, *Heterocycles*, **2013**, 87, 11, 2385-2394.
- 25- **Mohammad H. Semreen**, Raafat El-Awady, Raed Abu-Odeh, Maha Saber-Ayada, Raed A. Al-Qawasmeh, Salem Chouaib, Wolfgang Voelterg and Taleb H. Al-Tel, Tandem Multicomponent Reactions Toward the Design and Synthesis of Novel Antibacterial and Cytotoxic Motifs, *Current Medicinal Chemistry*, **2013**, 20, 1445-1459
- 26- Taleb H. Al-Tel, **Mohammad H. Semreen**, Raed Al-Qawasmeh, Marco F. Schmidt, Rafat El-Awadi, Mustafa Ardah, Rania Zaarour, Shashidhar N. Rao, and Omar El-Agnaf, Design, Synthesis and qualitative structure-activity evaluation of novel  $\beta$ -secretase inhibitor as potential Alzheimer's drug leads, *J. Med. Chem.* **2011**, 54, 8373-8385.
- 27- **Mohammad H. Semreen**, Hassan Y. Aboul-Eneien, Enantioselective separation and determination of citalopram enantiomers in pharmaceutical dosage forms and bulk drug using experimental design approach on chiralcel®

- OC as a chiral stationary phase. *Acta chromatographica*, **2011**, 23, (3) 389-401
- 28- **Mohammad H. Semreen**, Hassan y. Aboul-Enein , Determination of heavy metals contents in wild- Edible mushrooms from Jordan, *Analytical letters*, **2011** (44) 932–941.
- 29- Taleb H. Al-Tel , **Mohammad H. Semreen** and Wolfgang Voelter, Tandem Achmatowicz-Knoevenagel protocol: diastereoselective synthesis and anticancer evaluation of cyclopenta[b] pyrane derivatives, *J. Org. & Biomolecular Chemistry*, **2010**, 8, 5375-5382
- 30- **Mohammad H. Semreen**, Abdel-Nasser El-Shorbagi, Taleb H. Al-Tel, Izzeddin M. M. Alsalahat, Targeting  $\gamma$ -aminobutyric acid (GABA) carrier to the brain, potential relevance as antiepileptic drug, *Medicinal chemistry*, **2010**, (6) 144-149.
- 31- **Mohammad H. Semreen**, Hassan Y. Aboul-Eneien, LC-UV method development and validation for the non-steroidal antiinflammatory agent Tenoxicam. *J. Liquid chromatography and related technologies*, **2010**, 33,720-729.
- 32- **Mohammad H. Semreen**, Hassan y. Aboul-Enein , Experimental design strategies in LC method development and in robustness testing for reversible cholinesterase inhibitor rivastigmin in pharmaceutical formulation, *J. Liquid chromatography and related technologies*, **2010**, 33, 191-201.
- 33- I. I. ABU-ABDOUN, **Mohammad H. Semreen** , M. Qato, Development and validation of HPLC method for the Analysis of Vardenafil Hydrochloride , *International Journal of Chemistry*, **2007**, 17 (4 ) 259-267.
- 34- **Mohammad H. Semreen**, A. Naddaf , K. Abu-Alrub, Liquid chromatographic method for the analysis of Clopidogrel bisulphate utilizing experimental design, *International Journal of Chemistry*, **2007**, 17,( 2) 143-150.
- 35- Maswadeh H., **Mohammad H. Semreen**, A. Naddaf, anti-inflammatory activity of achillea and ruscus topical gel on carragenan –induced paw edema in rats, *Acta pol., Pharmaceutical-Drug research* , **2006**, 63(4) 277-281.
- 36- Maswadeh H., **Mohammad Semreen**, A. Abdul Halim, In vitro dissolution kinetic study of theophylline from hydrophilic and hydrophobic matrices. *Acta Pol. Pharmaceutical-Drug Research*, **2006**, 63 (1) 63-67.
- 37- **Mohammad H. Semreen**, Development and validation of HPLC method for the Analysis of Ketotifen fumarate in pharmaceutical formulation, *Bull. Pharm. Sci.*, **2005**, 28 (2) 291-296.
- 38- **Mohammad H. Semreen**, H. Maswadeh, and A.Abdul Halim. Synthesis, characterization and analytical study of humic acid orcinol resin. *International Journal of Chemistry*, **2005**, 15 (1) 55-61.

- 39- Adel M. Ali, **Mohammad H. Semreen** and M. Qato, Superdisintegrants for Solid Dispersion to produce Rapidly Disintegrating tenoxicam tablets via Camphor sublimation, *Pharmaceutical technology*, **2005**, 29 (1) 68-79.
- 40- A. Naddaf, **Mohammad H. Semreen**, "Influences of Postmenopausal Hormone Replacement Therapy on Women's Health". *Pakistan Journal of Biological Sciences*, **2005**, 8 (2) 198-201.
- 41- A. Abdul Halim, A. Naddaf and **Mohammad H. Semreen**, Development and validation of HPLC method for the analysis of sildenafil citrate in pharmaceutical formulation, *International Journal of chemistry*, **2005**, 15 (1) 1-8.
- 42- Ficarra R, Calabrò ML, Cutroneo P, Tommasini S, Melardi S, **Semreen M.**, Furlanetto S, Ficarra P, Altavilla G. Validation of LC method for the analysis of oxaliplatin in a pharmaceutical formulation using an experimental design. *J. Pharm. Biomed. Anal.*, **2002**, 29, 1097-1103
- 43- Ficarra R, Ficarra P, Tommasini S, Melardi S, Calabrò ML, Furlanetto S, **Semreen M.** Validation of HPLC method for the analysis of Zafirlukast in a Pharmaceutical Formulation, *J. Pharm. Biomed. Anal.*, **2000**, 23, 169-174
- 44- Ficarra R, Calabrò ML, Tommasini S, Villari A, Melardi S, Coppolino S, **Semreen M**, Ficarra P. Determination of Fludarabin in a Pharmaceutical Formulation by HPLC, *J. Pharm. Biomed. Anal.*, **1999**, 21, 1077-1081.

## Conferences

- 1- Mohammad H. Semreen, Abdallah Shanableh, Lucy Semerjian, Hasan Alniss, Mouath Khairi, Xuelian Bai and Kumud Acharya, Simultaneous determination of pharmaceuticals in by solid-phase extraction and liquid chromatography–tandem mass spectrometry: a case study from Sharjah sewage treatment plant, 257<sup>th</sup> ACS National meeting& exposition, Orlando, Florida, USA, 31-March, 4-April 2019.
- 2- Mohammad H. Semreen, Hassan Al-Niss, Mouath Khairi, Rapid and sensitive UPLC-ESI-MS/MS method for simultaneous quantification of sofosbuvir and its metabolite, GS-331007, in human plasma, 255<sup>th</sup> ACS National meeting& exposition, San Francisco, California, USA, March, 18-22, 2018.
- 3- Mohammad H. Semreen, Hassan Al-Niss, Mouath Khairi, Rafaat El-Awady, Hassan Aboul-Enein, Development and validation of a sensitive ultra-performace liquid chromatography with tandem mass spectroscopy for quantification of doxorubicin in human plasma, 253<sup>th</sup> ACS National meeting& exposition, San Francisco, California, USA, April, 2-4, 2017.

- 4- Mohammad H. Semreen, Stability indicating liquid chromatographic method Development for the estimation of atorvastatin in bulk drug and pharmaceutical formulation. 251<sup>th</sup> ACS National Meeting & Exposition, San Diego, California, USA. March 12-17, 2016.
- 5- Mohammad H. Semreen, Raed Abu Odeh, Raed A. Al-Qawasmeh, Musa H. Abu- Zarga, Basil Bani Huthail, Hamadeh Tarazi and Taleb H. Al-Tel, Design, Synthesis and Structure Activity Evaluations of Broad Spectrum Antibacterial Activity of Quinoline-Based Bisarylimidazole Motifs 251<sup>th</sup> ACS National Meeting & Exposition, San Diego, California, USA. March, 12-17, 2016.
- 6- Mohammad Semreen et. al. Imidazoazines as Potential Inhibitors of Cycline Dependent Kinases, Anatolian Conference on Synthetic Organic Chemistry ACSOC. Antalya TURKEY, March 16-19, 2015.
- 7- R. El-Awady, M.M. Saber, M.H. Semreen, T. Tl-Tel, S.M.E. El-Ansassy, R.A. Sahib, S. Hassan, M. Rahimi, D. El-Wahiby, Y. Deire, Molecular mechanisms of a novel imidazopyridine Cdk-inhibitor alone and in combination with doxorubicin, 6<sup>th</sup> Asian Oncology Summit and 10<sup>th</sup> Annual Conference of the Organisation for Oncology and Translational Research, Kuala Lumpur, Malaysia, April 2014.
- 8- Mohammad H. Semreen, Khalid Abu-Al Rub, Enantioselective separation of ( $\pm$ )[R\*[S\*[S\*-(S\*)]]]- $\alpha,\alpha'$ -[iminobis(methylen)]bis[6-flouro-3,4-dihydro-2H-1-benzopyrane-2-methanol] using experimental design strategies. 247<sup>th</sup> ACS National Meeting & Exposition, Dallas, Texas, USA. March, 16-25, 2014.
- 9- Mohammad H. Semreen, Raafat El-Awady, Raed Abu-Odeh, Maha Saber, Raed A. Al-Qawasmeh, Salem Chouaib and Taleb H. Al-Tel, Tandem Multicomponent Reactions Toward the Design and Synthesis of Novel Antibacterial and Cytotoxic Motifs 245<sup>th</sup> ACS National Meeting & Exposition, New Orleans, Louisiana, USA. April 7-11, 2013.
- 10- Mohammad H. Semreen, Taleb H. Al-Tel and Wolfgang Voelter, Tandem Achmatowicz-Knoevenagel protocol: Diastereoselective Synthesis and Anticancer Evaluation of cyclopenta[b]pyrane Derivatives, 243<sup>rd</sup> ACS National Meeting San Diego, California, March 25-29, 2012.
- 11- Mohammad H. Semreen, Hassan Y. Aboul-Eneien, Enantioselective separation and determination of citalopram enantiomers in pharmaceutical dosage forms and bulk drug using experimental design approach on chiralcel® OC as a chiral stationary phase. Dubai International Pharmaceuticals and Technologies Conference and Exhibition, March 22-22, 2011, Dubai, UAE
- 12- Mohammad H. Semreen, El-Shorbagi AN, Al-Tel T.H, Alsalahat I.M., Targeting 4-Aminobutyric Acid (GABA) Carriers to the brain: Potential relevance as Antiepileptic Pro-drugs, 239<sup>th</sup> american Chemical society National Meeting & Exposition, March 21-25, 2010, San francisco, CA, USA.
- 13- Mohammad H. Semreen, Experimental design strategies in the rogustness and in the development and validation of cloinesterase reversibile inhibitor rivastigmine, 239<sup>th</sup>

American Chemical Society National Meeting & Exposition, March 21-25, 2010, San Francisco, CA, USA.

- 14- Mohammad H. Semreen, Hassan Y. Aboul-Eneien, Determination of heavy Metals content in wild-Edilbe Mushrooms Species from Jordan, the 20<sup>th</sup> International Symposium on pharmaceutical and biomedical analysis, 1-4 March 2009, Agra-India.
- 15- Dubai International Pharmaceuticals and Technologies Conference and exhibition DUPHAT, March -2008, Dubai-UAE.
- 16- Dubai International Pharmaceuticals and Technologies Conference and exhibition DUPHAT, March -2007, Dubai-UAE.
- 17- Mohammad H. Semreen, A. Naddaf, K. Abu-Alrub, Liquid chromatographic method for the analysis of Clopidogrel bisulphate utilizing experimental design, Toward New Advances in Pharmaceutical sciences, Jordan International Pharmaceutical Conference, Al-Zaytoonah Private University, 2006, Amman-Jordan.
- 18- Abdul jabber N. Al-Shammari, Mohammad Semreen, M. Qato, Isolation of Halophilic bacteria from dead sea soil produced antibiotic activities, First Egyptian –Jordanian conference on biotechnology and sustainable development current status and future scenarios, 11-14 December, 2006, Cairo-Egypt.
- 19- First OTC Conference, Jordanian Association of Pharmacists, 2006. Amman-Jordan,
- 20- Mohammad H. Semreen, Mazen Qato and Abdel-Nasser El- Shorbagi, Tetrahydro-2H-1, 3, 5-thiadiazin-2-thiones as new carriers for GABA; Gabaminergic delivery to the brain, 5<sup>th</sup> Pharmaceutical Sciences Conference, March 7-8, 2006, Assuit University, Assuit, Egypt
- 21- Mohammad Semreen, Izz Al-Deen Salahat, Bio-Reversible carrier of neurotransmitters, the 11<sup>th</sup> Jordanian conference of pharmaceutical science. September 28-30, 2005, pharmaceutical association, Amman-Jordan.
- 22- Jordanian 9<sup>th</sup> science week (Biotechnology and its role in (Jordanian economy), 2004, Jordan Technology University, Irbid-Jordan.
- 23- HPLC-HPLC/MS Methods for natural substances analysis, March 2000, Messina University, Messina-Italy.
- 24- International meeting on recent development in pharmaceutical analysis, 1999, Rome-Italy June.



### **Selected thesis supervision:**

- Metabolomics of breast cancer cells with different hormonal status treated with Tamoxifen and/or Trastuzumab assessed by Mass spectroscopy
- Cell metabolomics and proteomics as an approach to identify the molecular targets of anti-lung cancer agents UHPLC-Q/TOF-MS and multivariate data analysis
- Metabolomics and proteomics based comparative study of hepatocellular carcinoma (HCC) cell lines with multi drug resistant hepatocellular carcinoma (MDR- HCC) cell lines assessed by (TIMS-QTOF) mass spectroscopy.
- Metabolomics of plasma and saliva for COVID-19 biomarkers identification and disease monitoring
- Removal of Selected Pharmaceutical Compounds from Water Using Nanomaterials.
- GC-MS based comparative metabolomic analysis of MCF7 and MDA-MB-231 cancer cells treated with Tamoxifen and/or Taxol
- GC-MS based comparative metabolomics of MCF-7 breast cancer cells using different extraction solvents: evidence of Warburg Effect.
- Trace Elements investigation in haemodialysis patients using ICP-OES.
- Simultaneous determination of pharmaceuticals by solid-phase extraction and liquid chromatography–tandem mass spectrometry in Sharjah water treatment plant.
- RP-LC Analysis of Cephodoxim proxetil in tablet dosage form, an application of method development and validation according to the ICH guidelines.
- Quantification of Thiamine and Nicotinamide in multivitamin preparations by RP-LC, an application of method development and validation according to the ICH guidelines

### **Workshops- Selected**

- 1- Advanced certificate in health professions education, Medical Education Center, University of Sharjah, 2021.
- 2- Basic certificate in health professions education, Medical Education Center. University of Sharjah, Medical colleges, 2020
- 3- Enhancing In-class student's engagement using socratic, Medical Education Center, 2020.
- 4- Advanced E-assessment Skills: Crafting Credible Exam Questions & Effective Online Proctoring, Medical Education Center, 2020.
- 5- Excellence in Health Professions Education certificate, Medical Education Center, University of Sharjah, 2019.
- 6- Hands on Training: Applications to support flipping the classroom, Medical education center, 2018.
- 7- Writing effective course learning outcomes, Institute of Leadership, University of Sharjah, 2017.
- 8- Developing a course assessment plan, Institute of Leadership, University of Sharjah, 2017.

- 9- Strategic planning and leadership in higher education, Institute of Leadership, University of Sharjah, 2017.
- 10- Designing an instructional plan incorporating research based instructional strategies, Institute of Leadership, University of Sharjah, 2017.
- 11- University training on faculty promotion bylaws, Center for continuing education & professional development, University of Sharjah, 2016.

**Research interest:**

- Cancer Biomarkers-early diagnosis and treatment follow up, using Mass-Spectroscopy
- Biomarkers of Infectious diseases (Covid-19 and Candida)
- Metabolomics and proteomic studies.
- Design and synthesis of novel anti-cancer drug leads.
- Drug stability studies.
- Enantioselective separation.
- Pharmaceuticals and biopharmaceutical analysis.
- Bioanalysis and drug metabolism

**References**

To be submitted upon request