

CURRICULUM VITAE

1. PERSONAL DETAILS

NAME: **Haythem Ali Saadeh**
CURRENT POSITION: Associate Professor,
The University of Jordan
CONTACT ADDRESS: Department of Chemistry, The School of Science,
The University of Jordan
Amman 11942, Jordan
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2. DEGREES AND DIPLOMAS

Ph.D. – The University of Chicago, Chicago, USA, **March 2000**
M.Sc. – The University of Jordan, Amman, Jordan, **May 1990**
B.Sc. – Yarmouk University, Irbid, Jordan, **January 1988**

3. MOST RECENT PUBLICATIONS

45. **Haythem Saadeh**, Raneem Kaddoura, Ismail El-Haty, Mohammad Khasawneh, Abdelouahid Samadi, Abdelhabib Semlali and Nael Abutaha. Synthesis of Some *N*-(1*H*-Benzo[*d*]imidazol-2-yl)-2-(4-Arylpiperazin-1-yl) acetamides as Anticancer Agents. *Indian Journal of Heterocyclic Chemistry* **2024**, 34, 499.
44. Ziad Moussa , Alejandro Perez Paz, Zaher M. A. Judeh, Ahmed, Alzamy, **Haythem A. Saadeh**, Basim H Asghar, Sara Alsaedi, Bayan Masoud, Salama Almeqbaali, Saeda Estwani, Amna Aljaberi, Munirah M Al-Rooqi, And Saleh A. Ahmed. First X-ray crystal structure characterization, computational studies, and improved synthetic route to the bioactive 5-arylimino-1,3,4-thiadiazole derivatives. *Int. J. Mol. Sci.* **2023**, 24 (4), 3759.
43. Mohammed A. Meetani, Ahmad Alhalabi, Mohammed K. Al-Tabaji, Abdulla Al-Hemyari, **Haythem A. Saadeh** and Na'il Saleh. Cucurbituril—assisted sensitive fluorescence detection and quantitation of naproxen drug in waste water samples: Guest-host characterization and HPLC investigation. *Front Chem*, **2022**, 10:1093231. doi: 10.3389/fchem.2022.1093231.
42. Ziad Moussa, Ranem Kaddoura, **Haythem A. Saadeh**, , Saleh A. Ahmed. Highly bioactive novel aryl-, benzyl-, and piperazine-selenoureas: synthesis, structural characterization and in vitro biological evaluation. *Heliyon* **2022**, 8(9), e10709.
41. Mohammad A. Khasawneh, Ayesha AlKaabi, Abdelouahid Samadi, Priya Antony, Ranjit Vijayan, **Haythem A. Saadeh**, Nael Abutaha and Lamya Ahmed Al-Keridis. Synthesis and Biological Applications of Some Novel 8-Hydroxyquinoline Urea and Thiourea Derivatives. *Arabian Journal of Chemistry* **2022**, 15 (7), 103905.
40. Rukayat Bojesomo, Khaleel I. Assaf, **Haythem A. Saadeh**, Lamia A. Saddig, and Na'il Saleh. Benzimidazole-Piperazine-Coumarin/CB7 Supramolecular PET Fluorochrome for Detection of Carnosol by Stimuli-Responsive Dye Displacement and pKa Tuning. *ACS Omega*, **2022**, 7 (2), 2356-2363.
39. Lamia A. Siddig, Rukayat Bojesomo, Mohammad A Khasawneh, Abdelouahid Samadi, Alejandro Perez Paz, **Haythem Saadeh** and Na'il Saleh. Bz-8HQ: A Novel Supramolecular Fluorochrome Exhibiting Multiple Stimuli Responsiveness. *New Journal of Chemistry* **2022**, 46 (1), 385-397.
38. Lamia A. Siddig, Mohammad A Khasawneh, Abdelouahid Samadi, **Haythem Saadeh**, Nael Abutaha and Mohammad A. Wadaan. Synthesis of novel thiourea/urea benzimidazole derivatives as anticancer agents. *Open Chemistry*, **2021**, 19 (1), 1062-1073.

37. **Haythem A Saadeh**, Kamal A Sweidan, Mohammad S Mubarak. Recent Advances in the Synthesis and Biological Activity of 8-Hydroxyquinolines. *Molecules*, **2020**, 25 (18), 4321-4346. (Review)
36. Othman Hamed, Oswa Fares, Shaima Taleeb, Ghaleb Adwan, **Haythem Saadeh**, Shehdeh Jodeh, Manuel Algarra. New Insights Towards 1,4-Benzodiazepines from Curcumin. Design, Synthesis and Biological Activities. *Medicinal Chemistry* **2020** 16 (8), 1112-1123.
35. Reyes-Resina, Irene; Samadi, Abdelouahid; Navarro, Gemma; **Saadeh, Haythem***; Mestres, Jordi; Contelles, Jose Marco ; Franco, Rafael Identification of a new tool compound to study the mechanisms of functional selectivity between D2 and D3 dopamine receptor. *ACS Omega*, **2018**, 3 (12), pp 17368–17375.
34. **Haythem A. Saadeh**,, Mohammad A. Khasawneh, Youssef A. Abou-Zeid, Ismail A. El-Haty, Sylvain Pechangou Nsangou, Kapil Goyal, Rakesh Sehgal, Abdelouahid Samadi and José Marco-Contelles. Novel 5-Nitroimidazole and 5-Nitrothiazole Peperazine Derivatives and their Antiparasitic Activity. *ChemistrySelec* **2017**, 2 (20), 5684-56872.
33. **Haythem A. Saadeh**, Mohammad A. Khasawneh, Abdelouahid Samadi, Ismail A. El-Haty Grzegorz Satała, Andrzej J. Bojarski, Lhassane Ismaili, Óscar M. Bautista-Aguilera, Matilde Yañez, Jordi Mestres and José Marco-Contellesg. Design, Synthesis and Biological Evaluation of Potent Antioxidant 1-(2,5- Dimethoxybenzyl)-4-arylpiperazines and N-Azolyl Substituted 2-(4- Arylpiperazin-1-yl)acetamides. *ChemistrySelec* **2017**, 2 (13), 3854-3859.
32. **Saadeh, Haythem A.**, Mubarak, Mohammad S. Hybrid Drugs as Potential Combatants Against Drug-Resistant Microbes: A Review. *Current Topics in Medicinal Chemistry*, **2017**, 17(8), 895-906.
31. Saleh, Yasmin R. H.; **Saadeh, Haythem A.**; Kaur, Hargobinder; Goyal, Kapil; Sehgal, Rakesh; Mubarak, Mohammad S. The synthesis of novel hybrid compounds containing 5-nitrothiazole moiety as potential antiparasitic agents. *Monatsh Chem* **2015**, 146, 2087-2095.
30. Alawadi, Dua Y.; **Saadeh, Haythem A.**; Kaur, Hargobinder; Goyal, Kapil; Sehgal, Rakesh; Ben Hadda, Taibi; ElSawy, Naser A.; Mubarak, Mohammad S. Metronidazole derivatives as a new class of antiparasitic agents: synthesis, prediction of biological activity and molecular properties. *Medicinal Chemistry Research* **2015**, 24(3), 1196-1209.
29. Al-Qtaitat, Malath A.; **Saadeh, Haythem A.**; Al-Bakri; Amal G.; Kaur, Hargobinder; Goyal, Kapil; Sehgal, Rakesh; Mubarak, Mohammad S. Synthesis, characterization, and biological activity of novel metronidazole-piperazine amides. *Monatsh Chem* **2015**, 146, 705–712.
28. Hamed, Othman A.; Jaber, Firas; Hamed, Emad M.; Adwan, Kamel; Jodeh, Shehdeh; Salghi; Rachid; **Saadeh, Haythem A.** New routes to prepare superabsorbent polymers free of acrylate cross-linker. *Iran Polym J* **2015**, 24, 849-859.
27. **Saadeh, Haythem A.**; Al-Qaoud, Khaled M.; Abu-Qatouseh, Luay F.; Shihab, Penelope A.; Kaur, Hargobinder; Goyal, Kapil; Sehgal, Rakesh; Mubarak, Mohammad S. Synthesis and biological activity of novel amidrazones incorporating 5-nitroimidazole, ciprofloxacin, and 7-chloro-4- piperazinylquinoline. *Medicinal Chemistry Research* **2014**, 24, 2247-22564.
26. Nasr, Wafa'a T.; **Saadeh, Haythem A.**; Mubarak, Mohammad S.; Abdel-Hafez, Sami K. In vitro activity of novel metronidazole derivatives on larval stages of Echinococcus granulosus. *Jordan Journal of Biological Sciences* **2014**, 7(3), 187-194A.
25. Kassan, Nabil E.; **Saadeh, Haythem A.**; Talib, Wamid H.; Mahasneh, Adel M.; Kaur, Hargobinder; Goyal, Kapil; Sehgal, Rakesh; Mubarak, Mohammad S. Synthesis and biological activity of novel Schiff bases derived from metronidazole. *Medicinal Chemistry Research* **2014**, 23(11), 4872-4882.
24. AlShamaileh, Ehab; **Saadeh, Haytham**, Favry, Valerie. Modification of gold surface with gold nanoparticles and cyclohexyl dithiocarbamate as a selective sensor for cysteine. *Journal of Chemistry* **2013**, 1-5.
23. **Saadeh, Haythem A.**; Lu, Luyao; He, Feng; Bullock, Joseph E.; Wang, Wei; Carsten, Bridget; Yu, Luping. Polyselenopheno[3,4-b]selenophene for Highly Efficient Bulk Heterojunction Solar Cells. *ACS Macro Letters* **2012**, 1(3), 361-365.
22. Preparation and antimicrobial screening of novel 2, 2-dichloro-cyclopropane-cis-dicarbamates and comparison to their alkane and cis-alkene analogs. Kailani, Mohammed H.; Al-Bakri, Amal G.; **Saadeh, Haytham**; Al-Hiari, Yusuf M. *Jordan Journal of Chemistry* **2012**, 7(3), 239-252.

21. **Saadeh, Haythem A.**; Abu Shairah, Eman A.; Charef, Nouredine; Mubarak, Mohammad S. Synthesis and Adsorption Properties, Toward Some Heavy Metal Ions, of a New Polystyrene-Based Terpyridine Polymer. *J. Appl. Polym. Sci.* **2012**, *124*, 2717–2724.
20. **Saadeh, Haythem A.**; Abu Shairah, Eman A.; Mosleh, Ibrahim M.; Al-Bakri, Amal G.; Mohammad S. Mubarak. Synthesis Characterization and Biological Activity of Schiff Bases Derived from Metronidazole. *Med. Chem. Res.* **2012**, *21*, 2969.
19. Al-Masri, Ahmed T.; **Saadeh, Haythem A.**; Mosleh, Ibrahim M.; Mubarak, Mohammad S. Synthesis of new compounds derived from metronidazole and amino acids and their esters as antiparasitic agents. *Medicinal Chemistry Research* **2012**, *21*(8), 1700-1707.
18. Baghiani, Abderrahmane; Charef, Nouredine; Djarmouni, Meriem; **Saadeh, Haythem A.**; Arrar, Lekhmici; Mubarak, Mohammad S. Free radical scavenging and antioxidant effects of some anthraquinone derivatives. *Medicinal Chemistry* **2011**, *7*, 639-644.
17. Al-Noaimi, Mousa; El-Khateeb, Mohammad; Haddad, Salim F.; **Saadeh, Haythem**. Ruthenium(II) 2,2'-bipyridine complexes incorporating substituted phenylazo-(2-phenylthio))phenylmethine ancillary ligands. Synthesis, crystal structure, spectroscopic and redox properties. *Trans. Met. Chem.* **2010**, *35*(7), 877-883.
16. **Saadeh, Haythem A.**; Mosleh, Ibrahim M.; Al-Bakri, Amal G.; Mubarak, Mohammad S. Synthesis and antimicrobial activity of new 1,2,4-triazole-3-thiole metronidazole derivatives. *Monatshefte Fur Chemie* **2010**, *141*, 471-478.
15. **Saadeh, Haythem A.**; Mosleh, Ibrahim M.; El-Abadelah, Mustafa M. New Synthesis and Antiparasitic Activity of Model 5-Aryl-1-methyl-4-nitroimidazoles. *Molecules* **2009**, *14*, 2758-2767.
14. Karapanagiotis, I.; Mantzouris, D.; Chryssoulakis, Y.; **Saadeh, H. A.**; Alawi, M. A.; Mubarak, M. S.; Karadag, R.; Yurdun, T.; AlSaad, Z.; Abdel-Kareem, O.; Puchinger, L.; Sauter, F. Inter-Laboratory Chemical Study of Natural Materials from the Historical Wiesner Collection. *Jor. J. Chem.* **2009**, *4*, 195-207.
13. **Saadeh, Haythem A.**; Mosleh, Ibrahim M.; Mubarak, Mohammad S. Synthesis of Novel Hybrid Molecules from Precursors With Known Antiparasitic Activity. *Molecules* **2009**, *14*, 1483-1494.
12. Alshamaileh, Ehab; Alawi, Mahmoud; Dahdal, Yara; **Saadeh, Haythem**. Kinetic Stability study of Selected Hydroxamic Acids Using HPLC/UV. *Jordan Journal of Pharmaceutical Sciences* **2008**, *1*(1), 28-37.
11. Salih, Kifah S. M.; Ayoub, Mikdad T.; **Saadeh, Haythem A.**; Al-Masoudi, Najim A.; Mubarak, Mohammad S. Synthesis, characterization, and biological activities of new benzofuran derivatives. *Heterocycles*, **2007**, *71*(7), 1577-1587.
10. Al-Noaimi, Mousa Z.; **Saadeh, Haythem**; Haddad, Salim F.; El-Barghouthi, Musa I.; El-Khateeb, Mohammad; Crutchley, Robert J. Syntheses, crystallography and spectroelectrochemical studies of ruthenium azomethine complexes. *Polyhedron*, **2007**, *26*(14), 3675-3685.
9. **Saadeh, H.**; Wang, L.; Yu, L. Supramolecular Solid State Assembly Exhibiting Electro-Optic Effects. *J. Am. Chem. Soc.* **2000**, *122*, 546.
8. Saadeh, H.; Wang, L.; Yu, L. A New Synthetic Approach to Novel Polymers Exhibiting Large Electrooptic Coefficients and High Thermal Stability. *Macromolecules*, **2000**, *33*, 1570.
7. Qing, L.; Wang, L.; **Saadeh, H.**; Yu, L. A New Family of Amorphous Molecular Materials Showing Large Photorefractive Effect. *Chem. Comm.* **1999**, 1689.
6. Wang, L.; Ng, Man-Kit; **Saadeh, H.**; Yu, L. Photorefractive Properties of Molecules Containing Oligothiophenes and a Nonlinear Optical Chromophore: The Influence of Conjugation length. *Polymer Preprints*, **1999**, *40*, 1250.
5. **Saadeh, H.**; Goodson, T.; Yu, L. Synthesis of a Polyphenylene-co-furan and Polyphenylene-co-thiophene and Comparison of Their Electroluminescent Properties. *Macromolecules*, **1997**, *30*, 4608.
4. **Saadeh, H.**; Gharavi, A.; Yu, D.; Yu, L. Polyimides with a Diazo Chromophore Exhibiting Large Electrooptic Coefficients. *Polymer Preprints*, **1997**, *38*, 552.
3. **Saadeh, H.**; Gharavi, A.; Yu, D.; Yu, L. Polyimides with a Diazo Chromophore Exhibiting High Thermal Stability and Large Electrooptic Coefficients. *Macromolecules*, **1997**, *30*, 5403.
2. **Saadeh, H.**; Thompson, C.; Fernandez, E.; Pavkovic, S. 1-Benzyl-5-Methoxycarbonylmethylthio-4-Nitroimidazole. *Acta Crystall. Sec. C-Crystal Structure Comm.* **1995**, *51*, 950.
1. El-Abadelah, M.; Hussein, A.; **Saadeh, H.** Substituent Effect on Ring-Chain Tautomerism of 1,2,3,4-Tetrahydro-s-tetrazines. *Heterocycles*, **1991**, *32*, 1063.

4. Patents

1. **Saadeh, Haythem**; Gharavi, Alireza Polyaryl azo dye chromophores and their optical use. *PCT Int. Appl.* (2002) WO 2002033005 A2 20020425.
2. Gharavi, Alireza; **Saadeh, Haythem**. Preparation of water-soluble polyimides. *U.S.* 6894174 (2005).
3. Gharavi, Alireza; **Saadeh, Haythem** Substituted-polyaryl chromophoric compounds. *U.S.* 7,205,347, (2007)
4. Abu Shairah, Eman Ahmad Mohammad; **Saadeh, Haythem Ali Mohammad**; Mosleh, Ibrahim Mousa Ibrahim; Al Arif, Mikidad Tawfig Ayoub; Mubarak, Mohammad Suleiman. Preparation of metronidazole derivatives as antiparasitic agents. *Eur. Pat. Appl.* (2009), EP 2 085 394 A2, 19pp.
5. Alawi, M.A.; **Saadeh, H. A.** and Al-Hawadi, J. S. Synthesis of defined polychlorinated terphenyls (PCT) single congeners. (Granted by Ministry of Industry and Trade/ Directorate of Industrial Property Protection-Jordan) **2015**.

5. PRESENTATIONS AND POSTERS

1. **Saadeh, Haythem A**, Mohammad A. Khasawneh, Abdelouahid Samadi, Ismail A. El-Haty Grzegorz Satała, Andrzej J. Bojarski, Lhassane Ismaili, Óscar M. Bautista-Aguilera, Matilde Yañez, Jordi Mestres and José Marco-Contellesg. Synthesis, Antioxidant and Biological Evaluation of Novel 5-Nitroimidazole and 5-Nitrothiazole Piperazine Derivatives. Drug Discovery & Therapy World Congress Boston, USA, July 10-13, **2017**.
2. **Saadeh, Haythem A**, Mohammad A. Khasawneh, Youssef A. Abou-Zeid, Ismail A. El-Haty, Sylvain Pechangou Nsangou, Kapil Goyal, Rakesh Sehgal, Abdelouahid Samadi and José Marco-Contelles Novel 5-Nitroimidazole and 5-Nitrothiazole Piperazine Derivatives and their Antiparasitic Activity” Abstracts of Papers, 253rd American Chemical Society National meeting & Exposition at SAN FRANCISCO, CA, USA, APRIL 2-6, **2017**
3. **Saadeh, Haythem Ali**; Al-Masri, Ahmed T.; Mosleh, Ibrahim M.; Mubarak, Mohammad S. **Synthesis, characterization, and biological activities of new compounds derived from metronidazole and amino acids and their esters.** Abstracts of Papers, 238th ACS National Meeting, Washington, DC, United States, August 16-20, **2009**.
4. Abdul-Jawad, S.; Al-Najjar, A.; Bader, M. M.; Saadeh, H. A.; Yu, L. “**AC Electrical Behavior of A Novel Electro-optic Polyimide**” *Book of Abstracts, 213th ACS National Meeting, San Francisco*, April 13-17, **1997**, PMSE-195.
5. **Saadeh, Haythem**; Gharavi, Alireza; Yu, Dong; Yu, Luping “**Polyimides with a Diazo Chromophore Exhibiting High Thermal Stability and Large Electrooptic Coefficients**” *Book of Abstracts, 214th ACS National Meeting, Las Vegas, NV*, September 7-11, **1997**, Poly-217.

6. STUDENTS INVOLVEMENT IN RESEARCH

Research Projects: I actively supervised **21 research project** students in my laboratory and their work was presented as oral presentations and posters.

Summer Undergraduate Experiences (SURE) program: I actively supervised **9 research project** students through **SURE program** their work was presented as oral presentations and posters.

7. EMPLOYMENT

2022 – current	Associate Professor in Organic Chemistry Department of Chemistry, College of Science, The University of Jordan, Jordan
2012 – 2022	Associate Professor in Organic Chemistry Department of Chemistry, College of Science, UAE University, UAE
2011 – 2012	Associate Professor in Organic Chemistry Department of Chemistry, College of Science, The University of Jordan, Jordan
2004 – 2011	Assistant Professor in Organic Chemistry

2003 – 2004	Department of Chemistry, College of Science, The University of Jordan, Jordan lecturer in Organic Chemistry
2000 – 2003	Department of Chemistry, College of Science, The Hashemite University , Zarqa Senior Chemist
1995 – 2000	Shayda Technologies and Transphotonics L.L.C. Chicago, IL, USA PhD Student
	Department of Physical Sciences, The University of Chicago, Chicago, IL, USA
1998 – 1999	PhD Student
	Department of Chemistry, Loyola University of Chicago, Chicago, IL, USA
1994 – 1996	Teaching Assistant
	Department of Chemistry, College of Science, The University of Jordan, Jordan
1990 – 1994	MSc Student
	Department of Chemistry, College of Science, The University of Jordan, Jordan

8. EXPERIENCES

I. RESEARCH EXPERIENCE AND ACHIEVEMENTS

1. Inventor of a patent on synthesis of novel Polyaryl azo dye chromophores and their optical use, Transphotonics L.L.C., USA.
2. Co-inventor of a patent on the synthesis of novel water soluble polyimides. Transphotonics L.L.C., USA.
3. Co-inventor of a patent on the development of novel metronidazole derivatives as potent antiparasitic agents. The University of Jordan.
4. Co-inventor of a patent application on the sufficient Synthesis of defined polychlorinated terphenyls (PCT) single congeners and now sold as standards worldwide by LGC dr.ehrenstofer™, Germany
5. Development of Polyselenopheno[3,4-b]selenophene Highly Efficient Bulk Heterojunction Solar Cells (highest citation, 143).
6. The first synthesis of novel polyphenylene-co-furan as a LED material (second highest citation, 96).
7. Design and synthesis of organic compound with functional selectivity between D2 and D3 dopamine receptor.
8. Design and synthesis of drug hybrids to combat antimicrobial resistance.

II. TEACHING EXPERIENCE

Courses taught at University of Jordan, UAEU and Hashemite University

1. General Chemistry (I)
2. General Chemistry Lab
3. General Chemistry for Engineering
4. General Chemistry (II)
5. Organic Chemistry (I)
6. Organic Chemistry Lab (I)
7. Organic Chemistry Lab for nonmajors
8. Organic Chemistry (II)
9. Organic Chemistry Lab(II) systematic identification of organic compounds
10. Organic Chemistry for nonmajors
11. Chemistry in the modern world
12. Seminar (undergraduate)

13. Heterocyclic Chemistry
14. Research Project
15. Seminar I and II (Graduate Students)
16. Advanced Organic Synthesis (Graduate Students)

III. TECHNICAL EXPERIENCE

1. Liquid and solid polymer synthesis
2. Synthesis of nonlinear optical polymers and measure its r_{33} and χ^2
3. Synthesis and fabrication of electroluminescent molecules and polymers
4. Synthesis and fabrication polymers for optical data storage and optical switch
5. Design and synthesis of a photo-induced electron transfer (PET) materials (current project)

9. GRANTS

1. A New Series of "Double-Drugs" to Combat Resistant Microbes (**PI**), **400,000 Dhs**, pending UAEU- UPAR in **2018** for 2 years.
2. Hybrid Compounds as Potential Combatants against Drug-Resistant Microbes (**PI**), **400,000 Dhs**, funded by Center-Based Interdisciplinary in **2017** for 2 years.
3. Synthesis and antimicrobial activity of novel penicillin-piperazine derivatives **60,000 Dhs** funded by UAEU-SURE Plus(Summer undergraduate research experiences program) during Summer **2017**.
4. Synthesis and biological evaluation of novel benzimidazole-piperazine derivatives. **34,000 Dhs** funded by UAEU- SURE (Summer undergraduate research experiences program) during Summer **2016**.
5. Design, Synthesis and Pharmacological Evaluation of new Multipotent Anti-Alzheimer Disease Agents. (co-**PI**), **400,000 Dhs**, in **2015** funded by UAEU- UPAR for 2 year.
6. Synthesis and biological evaluation of benzimidazole derivatives as acetylcholinesterase inhibitors.(**PI**) **45,000 Dhs** funded by UAEU- SURE (Summer undergraduate research experiences program) during Summer **2015**.
7. Synthesis and Characterization of Novel Antiparasitic Reagents. (**PI**), **280,000 Dhs**, funded by UAEU-NRF in **2013** for 2 years
8. Synthesis and Biological Activity of Novel Piperazine-Quinones. **25,000 Dhs**, funded by Individual UAEU in **2012** for 1 year.
9. Synthesis, Characterization, and Possible Biological Activities of New 1,2,4-Triazoles and 1,2,4-thiazole-3-thiones (co-**PI**), 2750 JD (**~15,000 Dhs**), funded by Deanship of Scientific Research, The University of Jordan in **2007** for 1 yaer

10. THESIS SUPERVISION

I. PhD DEGREE

1. **Jihad S. Al-Hawadi**, POLYCHLORINATED TERPHENYLS (PCT)-SYNTHESIS AND ENVIRONMENTAL ANALYSIS (co-advisor). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2008**

II. MSc DEGREE

1. **Mervat S. Samour**, SYNTHESIS AND PROPERTIES OF SOME NEW N-(4-NITROIMIDAZOL-5-YL)-L-A-AMINO ACID, THEIR NEW HYDANTOINS/ THIOHYDANTOINS DERIVATIVES AND MODEL THIENOPYRIMIDINES. (co-advisor). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2007**
2. **Eman A. Abu- Shairah**, SYNTHESIS AND CHARACTERIZATION OF NEW METRONIDAZOLE DERIVATIVES. (co-advisor). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2007**.

3. **Ahmad T. Al-Masri**, SYNTHESIS, CHARACTERIZATION, AND BIOLOGICAL ACTIVITIES OF NEW COMPOUNDS DERIVED FROM METRONIDAZOLE AND AMINO ACIDS AND THEIR ESTER. (**co-advisor**). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2008**
4. **Eman A.Ahmad**, COMPLEXATION AND STABILITY STUDY OF SUBEROYLANILIDE HYDROXAMIC ACID. (**co-advisor**). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2009**
5. **Nabil Anklow**, SYNTHESIS AND BIOLOGICAL ACTIVITY ON NOVEL SCHIFF BASES DERIVED FROM METRONIDAZOLE. (**co-advisor**). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2011**
6. **Dua'a Alawadhi**, Synthesis and Characterization of New Metronidazole Derivatives. (**Main-advisor**). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2012**
7. **Malth Qutaitat**, SYNTHESIS AND CHARACTERIZATION OF NEW METRONIDAZOLE DERIVATIVES CONTAINING PIPERAZINE GROUP. (**co-advisor**). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2012**
8. **Yasmeen Al-Haj Saleh**, SYNTHESIS OF NOVEL HYBRID COMPOUNDS CONTAINING 5-NITROTHIAZOLE MOIETY AS POTENTIAL ANTIPARASITIC AGENTS. (**Main-advisor**). Graduate Program at Chemistry Department, Jordan University, Amman, Jordan - defended in **2014**
9. **Aysha M. Alkaabi**, Synthesis and Biological Applications of some Novel Urea and Thiourea-Quinoline Derivatives. (**co-advisor**). MSc program in Chemistry, UAE University, UAE – defended in **2019**
10. **Lamia A. Siddig**, Synthesis and Biological Applications of some Novel Urea and Thiourea-Benzimidazole Derivatives (**Main advisor**). MSc program in Chemistry, UAE University, UAE – defended in **2019**
11. **Raneem Kaddoura**, Synthesis and Characterization of Novel Derivatives of 1,3,5-Oxadiazole and Isoniazid. (**Main-advisor**). MSc program in Chemistry, UAE University, UAE – defended in **2020**
12. **Abedalqader Abuhusseini**. Synthesis and Biological Applications of Some Novel Selenourea-Quinoline, Selenourea-Benzimidazole and Selenourea-Chromenone Derivatives. MSc program in Chemistry, UAE University, Started **2022**. (**external co-Advisor**)

11. AWARDS

1. **Recipient** of the Jordanian Council of Science and Technology award for outstanding graduate student, University of Jordan 1989-1990.

12. COMMITTEES

I was a director or a member in many committees such as: College Peer Evaluation, College Council, Department Safety, Academic Affairs, Academic development, Academic Advising, Student Activities, Students Affairs, Faculty Social Club, Community Service, Teaching Advising and Scheduling and Coordinator of Organic Chemistry Division.

13. REVIEWER OF MANUSCRIPTS/GRANT PROPOSALS

1. MENA-Swedish Research Partnership Program
2. Express polymer letters
3. Medicinal Chemistry
4. Jordan Journal of Chemistry

14. PROFESSIONAL AFFILIATIONS

1. American Chemical Society, USA
2. Royal Society of Chemistry, UK
3. Jordanian Chemical Society, Jordan

15. COLLABORATION WITH OTHER INSTITUTES

1. **Professor Luping Yu**, The University of Chicago, **USA**
2. **Dr. Alireza Gharavi**, Shayda Technologies, **USA**
3. **Professor José Marco-Contelles**, Laboratory of Medicinal Chemistry, Institute of Organic Chemistry, **Spain**
4. **Professor Rakesh Sehgal**, Postgraduate Institute of Medical Education and Research, **India**

5. **Professor Mustafa El-Abadelah**, College of Science, Jordan University, **Jordan**
6. **Professor Mohammad Mubarak**, College of Science, Jordan University, **Jordan**
7. **Dr. Zaid Moussa**, College of Science, UAE University, **UAE**
8. **Dr. Na'il Saleh**, College of Science, UAE University, **UAE**
9. **Professor Amal Al-Bakri**, College of Pharmacy , Jordan University, **Jordan**
10. **Dr. Agnes Sonnevend-Pal**, College of Medicine, UAE University, **UAE**
11. **Professor Amr Amin**, College of Science, UAE University, **UAE**

16. TRAINING AND WORKSHOPS

Education and Knowledge Professional Development program (**ADEC PD**), workshop for ADEC chemistry teachers.