

**Curriculum Vitae of Kamal AbdelRahim Sweidan**

*Vice Dean of Students Affairs and Laboratories  
School of Science-The University of Jordan (2022- )*

*Professor of Organic Chemistry*

**Biodata**

**Name:** *Kamal AbdelRahim Sweidan*

**Date of Birth:** *1973*

**Sex:** *Male*

**Marital Status:** *Married*

**Nationality:** *Jordanian*

**Current Address:** *Department of Chemistry, The University of Jordan,  
11942, Amman, Jordan*

**Tel:** +96265355000 ext. 22155

+962798801901 (mobile)

**Fax:** +96265300253

**E-mail:** *Kamal\_Sweidan@hotmail.com;k.sweidan@ju.edu.jo*

**Home Page:** <http://academic.ju.edu.jo/k.sweidan/default.aspx>

**Google Scholar:** <https://scholar.google.com/citations?user=jq79qEgAAAAJ&hl=en>

**h-index:** 17

**h-index:** 16 (Scopus)

**ORCID:** <http://orcid.org/0000-0002-2655-7523>

**Res. Nat. No.:** 1351

**Res. ID.:** C-7171-2015

## **Education**

- 1) Ph.D. in Organic Chemistry - *Eberhard-Karls Tuebingen University-Germany*, [2003-2006]

**Thesis:**

**Title:** Imidazole and Barbituric Acid Derivatives-Heterocyclic Carbene Fragments with  $\pi$ -Donor and Acceptor Properties.

**Supervisor:** Professor Norbert Kuhn

**Subject Involved:**

Synthesis of new organic derivatives of imidazole-2-ylidene, 1,3-dimethylbarbituric and Meldrums acids under an atmosphere of dry Argon using standard Schlenk technique. These derivatives include push-pull, salts and neutral systems. The characterization of those derivatives was carried out by using NMR, MS, IR and X-ray diffraction analysis.

- 2) M.Sc. in Chemistry- *The University of Jordan-Jordan*, [1996-1999]

**Thesis:**

**Title:** Use of Duckweed for Removal of Heavy Metals and Organic Pollutants from Wastewater.

**Supervisor:** Professor Manar Fayyad

**Subject Involved:**

Ability of duckweed plant to purify wastewater in terms of phenols, surfactants, COD, heavy metals (Pb, Zn, Cr,...) content. Organic derivatives of phenols and surfactants were prepared followed by their amount determination using UV-Vis spectroscopy, while atomic absorption spectrophotometer was applied for heavy metals determination. Water and plant samples were analyzed.

- 3) B.Sc. in Chemistry- *The University of Jordan-Jordan*, [1992-1996]

### **Research Interests**

Pharmaceutical Organic Chemistry: We are interested on preparation of new heterocyclic compounds containing indole, benzofuran, quinoline and benzothiophene-2-carboxamide derivatives then investigate them as potential anticancer agents. In addition, synthesis of new organic derivatives of barbituric and meldrum's acids; which may exhibit antibacterial and antifungal activities. Characterization of the target products using spectroscopic techniques (NMR, IR), MS, elemental analysis and single crystal X-ray diffraction.

Pharmaceutical Instrumental Analysis: Isolation, identification and synthesis of impurities/degradants in pharmaceutical raw materials and finished products. Semi-preparative HPLC and plate chromatography are employed for isolation purpose. LC/MS and 2D-NMR techniques are used for characterization the target impurities. Development and validation of various HPLC methods to be employed for the analyses of pharmaceutical active ingredients and their related impurities.

#### **UJ's top Research Publishing in Scopus Journals:**

Ranking of October/2016: **22**

Ranking of September/2015: **18**

Ranking of February/2015: **8**

#### **UJ's top Research Publishing in ISI Journals:**

Ranking of February/2016: **18**

Ranking of May/2015: **24**

**Teaching Philosophy**

My teaching philosophy is "teach your students as you would want to be taught" - with a passion for the subject combined with respect and understanding for the student.

Usually, the students at the early undergraduate levels are consisting mainly of non-chemist students, but they require basic chemical knowledge as an essential part of their chosen fields of study, including medicine, pharmacy, engineering, food sciences, etc. These students take selected chemistry courses for one or two academic years and may subsequently encounter very little formal chemistry in their works. They may contact with chemistry and use of basic chemical knowledge when considering issues such as substance compatibility, use of medication, personal safety and environmental responsibility during their daily jobs. I believe that it is the responsibility of chemistry teachers at the universities to equip students with such basic chemistry.

On the other hand, I have noticed along the past ten years that many students continuing in the field of chemistry have not learned the basic of chemistry. Even though it is important to keep course material up-to-date, this cannot occur at the expense of basic understanding

In my view, in order to prepare non-chemist and chemist students for excellence, each in his specific field and research, I consider undertaking a classical chemical curriculum that affords fundamental chemical skills and wrapping each concept in the context of an area where the concept is being used.

Regarding students at higher undergraduate and graduate levels, most of them have decided to make chemistry their careers. While I found those courses that teach basic chemistry concepts most useful, students at these advanced levels should be given the opportunity and chance to identify themselves with their scientific community. This involves use of the scientific literature, opportunities to be involved in seminars and conferences, as well as chances to conduct independent small research projects.

### **Teacher Responsibilities**

- To teach students according to the most recent educational needs and abilities.
- Well-preparing and presenting lectures effectively to all students in the classroom and use video to facilitate teaching process.
- Assigning exams, homework, and quizzes followed by correcting them to provide grades and feedback.
- Providing to written and oral assessments and reports.
- Continuous working towards the implementation of the university development plan.
- Executing specific educational in class (academic advising, activities,...).

### **Course Coordinator Responsibilities**

- Writing appropriate course intended learning outcomes (ILO's) and working with teaching staff to ensure that course intended learning outcomes are aligned with the program intended learning outcomes (ILO's).
- Preparing semester course reports as required by accreditation and quality assurance committee at the department.
- Organize and lead course team meetings
- Regularly meeting with teaching staff to ensure consistent delivery of topics and lectures and each course section covers the official syllabus for the course.
- Preparing (jointly by the other course instructors) all exams and their keys for a given semester.

### **Publications in Refereed ISI International Journals**

1. Dania Altaher, Hiba Zalloum, **Kamal Sweidan**, Dima A. Sabbah, Husam ALSalamat, Mahmoud Sunjuk and Reem Isleem, ‘‘Synthesis, Characterization and Preliminary Screening of New N-Substi-tuted -8-Methyl-4-Hydroxy-2-Quinolone -3-Carboxamides as Potential An-ticancer Agents’’. Current Organic Synthesis (2024), In Press.
2. Mahmoud Sunjuk, Lana Al-Najjar, Majed Shtaiwi, Bassam I El-Eswed, **Kamal Sweidan**, Paul V Bernhardt, Hiba Zalloum, Luay Al-Essa, ‘‘Metal Complexes of

## CV of Kamal Sweidan

- Schiff Bases Prepared from Quinoline-3-Carbohydrazide with 2-Nitrobenzaldehyde, 2-Chlorobenzaldehyde and 2,4-Dihydroxybenzaldehyde: Structure and Biological Activity”. *Inorganics* (2023), 11(10), 412.
3. M Al-Ghorbani, **Kamal Sweidan**, HA Krefeh, R Joshi, R Ramu, M AlDamen, “Synthesis, Molecular Docking Study, and Molecular Dynamics Simulation of New 1, 3-Dimethyl-5-methylidenebarbituric Acid Derivatives Prepared by Cyclobutane Cleavage”. *Russian Journal of Organic Chemistry* (2023), 59(3), 445-454.
  4. **Kamal Sweidan**, Hussein Elfadel, Dima A Sabbah, Sanaa K Bardaweel, Rima Hajjo, Shabana Anjum, Jithna Sinoj, Vidhya A Nair, Eman Abu-Gharbieh, Waseem El-Huneidi, “Novel Derivatives of 4, 6-Dihydroxy-2-Quinolone-3-Carboxamides as Potential PI3K $\alpha$  Inhibitors”. *ChemistrySelect* (2022), 7(19), e202202263.
  5. Rajendra Joshi, **Kamal Sweidan**, Deepti Jha, Irina Kerkis, Klaus Scheffler, Joern Engelmann, "Evaluation of crotamine based probes as intracellular targeted contrast agents for magnetic resonance imaging". *Bioorganic & Medicinal Chemistry* (2022), 69, 116863.
  6. Dima A Sabbah, Hla H Samarat, Eveen Al-Shalabi, Sanaa K Bardaweel, Rima Hajjo, **Kamal Sweidan**, Reema Abu Khalaf, Aya M Al-Zuheiri, Ghassan Abushaikha, "Design, Synthesis, and Biological Examination of *N*-Phenyl-6-fluoro-4-hydroxy-2-quinolone-3-carboxamides as Anticancer Agents". *ChemistrySelect* (2022), 7(19), e202200662.
  7. Muhammed Alzweiri, **Kamal Sweidan**, Tamam Al-Helo, "Synthesis and evaluation of new 2-oxo-1, 2-dihydroquinoline-3-carboxamides as potent inhibitors against acetylcholinesterase enzyme". *Medicinal Chemistry Research* (2022), 31(9), 1448-1460.
  8. Sanaa Bardaweel, Reem Aljanabi, Dima Sabbah, **Kamal Sweidan**, "Design, Synthesis, and Biological Evaluation of Novel MAO-A Inhibitors Targeting Lung Cancer". *Molecules* (2022), 27(9), 2887.
  9. **Kamal Sweidan**, Ghassan Abu Sheikha, Ghassan Shattat, Tariq Al-qirim, Majdi Bkhaitan, “Synthesis and *In Vivo* Hypolipidemic Effect of Some *N*-(Benzoylphenyl)-Carboxamide Derivatives in Triton WR-1339-Induced

## ***CV of Kamal Sweidan***

- Hyperlipidemic Rats”. Brazilian Journal of Pharmaceutical Sciences (2022), 58, e191142.
10. Ahmed Al-Sheikh, Eyad Mallah, **Kamal Sweidan**, Qais Abualassal, Zead Abudayeh, Luay Abu-Qatouseh, Manfred Steimann, "Synthesis, hydrogen bond interactions and crystal structure elucidation of some stable 2H-imidazolium salts". Zeitschrift für Naturforschung B (2022), 77(1), 25-29.
  11. Mahmoud Sunjuk, Lana Al-Najjar, Majed Shtaiwi, Bassam El-Eswed, Mousa Al-Noaimi, Luay Al-Essa, **Kamal Sweidan**, "Transition Metal Complexes of Schiff Base Ligands Prepared from Reaction of Aminobenzothiazole with Benzaldehydes". Inorganics (2022), 10(4), 43.
  12. Aya Mohammed kheir Al-Zuheiri, **Kamal Sweidan**, Mohammed Kamal Harb, Sanaa K. Bardaweel, Mahmoud Sunjuk, and Dima A. Sabbah, "Synthesis, Characterization and Biological Screening of New N-Substituted-7-chloro-4-hydroxy-2-quinolone-3-carboxamides as Promising Anticancer Agents". Heterocycles (2022), 104(7), 1303-1304.
  13. Muhammed Alzweiri, Qusai Aqel, **Kamal Sweidan**, "Investigation of the Chemical Stability of Lenalidomide in Methanol/Ethanol Solvents Using RP-HPLC-UV and LC-MS". Jordan Journal of Pharmaceutical Sciences (2022), 15(3), 305-314.
  14. Dima Sabbah, Bara'a Al-Azaideh, Wamid Talib, Rima Hajjo and **Kamal Sweidan**, "New derivatives of sulfonylhydrazone as potential antitumor agents: Design, synthesis and cheminformatics evaluation". Acta Pharmaceutica (2021), 71 (4), 545-565
  15. Rajendra Joshi, Baku Acharya, Kritisha Bhandari, Suzeeta Bhandari, Rajjina Duwal, Ranju Ghimire, Rajani Shakya and **Kamal A Sweidan**, "Dichloroacetyl chloride conjugated peptide-based probes: design, synthesis, and *in vitro* evaluation in breast cancer cells". International Journal of Polymeric Materials and Polymeric Biomaterials (2021), 70 (12), 841-848.
  16. **Kamal Sweidan**, Ghada Idrees, Loay Abu-Qatouseh, MN Tahir, Monther Khanfar and Rajendra Joshi, "Synthesis, Characterization, and Antimicrobial Evaluation of New Furan-2-Carboxamide Derivatives". Letters in Organic Chemistry (2021), 19(4), 314-325.
  17. **Kamal Sweidan**, Mansour Almatarneh, Murad A AlDamen, Monther Khanfar, and Rima Omeir, "Understanding the Formation of 5-(Diethylammoniothio)-1, 3-



- dimethylbarbituric Acid: Crystal Structure and DFT Studies. *Journal of Chemical Crystallography* (2021) 51 (2), 215-224
18. Dima Sabbah, R. Haroon, Sana'a Bardaweel, Rima Hajjo, **Kamal Sweidan** "N-phenyl-6-chloro-4-hydroxy-2-quinolone-3-carboxamides: Molecular Docking, Synthesis, and Biological Investigation as Anticancer Agents". *Molecules* (2021), 26 (1), 73.
  19. Majdi Bkhaitan, Sana'a Bardaweel, Ghassan Abushaikha, AZ Mirza, **Kamal Sweidan**, "Synthesis and Antiproliferative Activity of 4 $\beta$ -O-Substituted, 4 $\beta$ -N-Substituted Deoxypodophyllotoxin Derivatives, and 4 $\beta$ -OH-4'-O-Substituted Podophyllotoxin". *ChemistrySelect* (2021), 5 (47), 14924-14929.
  20. Shref Arar, Enas Al-Qudah, Mohammad Alzweiri and **Kamal Sweidan** "New forced degradation products of vildagliptin: Identification and structural elucidation using LC-MS, with proposed formation mechanisms". *Journal of Liquid Chromatography & Related Technologies* (2021), 43 (15-16), 633-644.
  21. Dima Sabbah, **Kamal Sweidan**, Rima Hajjo, H. Zhong "An Integrative Informatics Approach to Explain the Mechanism of Action of Novel N1-(Anthraquinon-2-yl) Amidrazones as BCR/ABL Inhibitors". *Current Computer-Aided Drug Design* (2020), 16.
  22. Enas Al-Qudah, Shref Arar and **Kamal Sweidan** "Forced degradation studies of vildagliptin raw material alone and in the presence of excipients using HPLC-UV analysis". *Journal of Excipients and Food Chemicals* (2020), 11 (2), 29-41.
  23. Eyad Mallah, **Kamal Sweidan**, L Abu-Qatouseha, T Arafat and R Joshi "Synthesis and characterization of some derivatives of 1, 3-Diisopropyl-4, 5-dimethylimidazol-2-ylidene". *Current Chemistry Letters* (2020), 9, 99-204.
  24. Haythem A. Saadeh, **Kamal A. Sweidan** and Mohammad S. Mubarak "Recent advances in the synthesis and biological activity of 8-hydroxyquinolines" *Molecules* (2020), 25 (18), 4321.
  25. Dima Sabbah, Rima Hajjo and **Kamal Sweidan** "Review on Epidermal Growth Factor Receptor (EGFR) Structure, Signaling Pathways, Interactions, and Recent Updates of EGFR Inhibitors". *Current Topics in Medicinal Chemistry* (2020), 20, 1-20.

26. **Kamal Sweidan** , Monther Khanfar , Ala'a Al-Shamaileh , Mahmoud Sunjuk and Rajendra Joshi "Synthesis, characterization and crystal structure of pentyl 2-(1H-indole-2- carboxamido)benzoate". *Current Chemistry Letters* (2019), 8, 63-68.
27. **Kamal Sweidan**, Hiba Zalloum, Dima A. Sabbah, Ghada Idris, Khadija Abudosh, Mohammad S. Mubarak "Synthesis, characterization, and anticancer evaluation of some new N1-(anthraquinon-2-yl) amidrazone derivatives". *Canadian Journal of Chemistry* (2018), 96, 1123-1128.
28. Dima Sabbah, Amerah Ibrahim, Wamidh Talib, Khaled Alqaisi, **Kamal Sweidan**, Sanaa Bardaweel, Ghassan Sheikha, Haizen Zhong, Even Al-Shalabi, Reema Khalaf, Mohammad Mubarak "Ligand-Based Drug Design: Synthesis and Biological Evaluation of Substituted Benzoin Derivatives as Potential Antitumor Agents". *Medicinal Chemistry* (2018), *In Press*.
29. Suhair H. Jasim, Ghassan M. Abu Sheikha, Haneen M. Abuzaid, Tariq M. Al-Qirim, Ghassan F. braShattat, Dima A. Sabbah, Samah A. Ala,a Mustafa S. Aboumair, **Kamal A. Sweidan**, and Majdi M. Bkhaitan "Synthesis and in Vivo Lipid-Lowering Activity of Novel Imidazoles-5- carboxamide Derivatives in Triton-WR-1339-Induced Hyperlipidemic Wistar Rats" (2018), 66, 953-958.
30. Malath Al-Qtaitat, Mustafa El-Abadelah, Dima Sabbah, Sanaa Bardaweel, **Kamal Sweidan**, Salim Sabri and Mohammad Mubarak "Synthesis, characterization and bioactivity of new bisamidrazone derivatives as possible anticancer agents". *Medicinal Chemistry Research* (2018), 27, 1419-1431.
31. Dima A. Sabbah . Fatima Al-Tarawneh. Wamidh H. Talib. **Kamal Sweidan** Sanaa Bardaweel. Even Al-Shalabi. Haizhen A. Zhong. Ghassan Abu Sheikha. Reema Abu Khalaf . Mohammad S. Mubarak "Benzoin Schiff Bases: Design, Synthesis, and Biological Evaluation as Potential Antitumor Agents". *Medicinal Chemistry* (2018), 14, 695-708.
32. Sharif Arar, **Kamal Sweidan** and Sami Qasem "Identification and characterization of the degradation products of prasugrel hydrochloride tablets using LC-MS technique". *Journal of Liquid Chromatography & Related Technologies*, (2018), 41, 14-23.
33. **Kamal Sweidan**, Wael Abu Dayyih, Murad Al Damen, Eyad Mallah, Tawfiq Arafat, Mustafa El-Abadelah, Hanadi Salih and Wolfgang Voelter "Ring opening of cyclobutane in 1,3-dimethyl-5-methylenebarbituric acid dimer by various

- nucleophiles". *Zeitschrift fuer Naturforschung, B: A Journal of Chemical Sciences* (2017), 72(5), 377-38.
34. Dima A. Sabbah and **Kamal Sweidan** "Molecular Docking Studies of Novel Thiosemicarbazone-based Indoles as Potential PI3K $\alpha$  Inhibitors" *Letters in Drug Design and Discovery* (2017), 14, 1252-1258.
35. **Kamal Sweidan**, Mohammad Elayan, Dima Sabbah, Gada Idrees, and Tawfiq Arafat "Study of forced degradation behavior of amisulpride by LC-MS and NMR and development of a stability-indicating method. *Current Pharmaceutical Analysis*, (2017), 14, 157-165.
36. Dima A. Sabbah, Bayan Hishmah, **Kamal Sweidan**, Sanaa Bardaweel, Murad AlDamen, Haizhen A. Zhongd, Reema Abu Khalaf, Ameerah (Hasan Ibrahim), Tariq Al-Qirim, Ghassan Abu Sheikha, Mohammad S. Mubarak " Structure-Based Drug Design: Synthesis, X-Ray Crystallography, and Biological Evaluation of N-Substituted-4-Hydroxy-2-Quinolone- 3-Carboxamides as Potential PI3K $\alpha$  Inhibitors". *Anti-Cancer Agents in Medicinal Chemistry*, (2017), *In Press*.
37. **Kamal Sweidan**, Murad A. AlDamen, Mutasem O. Sinnokrot, Ahmed Al-Sheikh, and Mohammad S. Mubarak " Stabilization of Meldrum's Acid Dimer and 1,3-Dimethylbarbituric Acid Trimer– A Theoretical Study". *Jordan Journal of Chemistry*, (2017), 12, 1-10.
38. **Kamal Sweidan**, Dima A. Sabbah, Sanaa Bardaweel, Ghassan Abu Sheikha, Tariq Al-Qirim, Hanadi Salih, Mustafa M. El-Abadelah, Mohammad S. Mubarak, Wolfgang Voelter. "Facile synthesis, characterization and cytotoxicity study of new 3-(indol-2-yl) bicyclotetrazatridecahexaens". *Canadian Journal of Chemistry*, (2016), 95, 858-862.
39. Murad A. AlDamen, Nouredine Charef, Hassan K. Juwhari, **Kamal Sweidan**, Mohammad S. Mubarak, Dennis G. Peters " Crystal Structures, Optical Properties, and TD-DFT Study of a Zinc(II) Schiff-Base Complex Derived from Salicylaldehyde and N1 -(3-aminopropyl)Propane-1,3-Diamine". *Journal of Chemical Crystallography*, (2016), 46, 411-420.
40. **Kamal Sweidan**, Dima A. Sabbah, Sanaa Bardaweel, Khadeja Abu Dush, Ghassan Abu Sheikha and Mohammad S. Mubarak "Computer-aided design, synthesis, and biological evaluation of new indole-2-carboxamide derivatives as

## *CV of Kamal Sweidan*

- PI3K $\alpha$ /EGFR inhibitors". *Bioorganic Medicinal Chemistry Letters*, (2016), 26, 2685-2690.
41. **Kamal Sweidan**, Mustafa M. El-Abadelah, Salim F. Haddad and Wolfgang Voelter "Synthesis and Characterization of Some New Fluoroquinolone-barbiturate Hybrid Systems". *Zeitschrift fuer Naturforschung, B: Chemical Sciences* (2015), 70b, 513-517.
42. **Kamal Sweidan**, Dima A. Sabbah, Jörn Engelmann, Heba Abdel-Halim and Ghassan Abu Sheikha "Computational Docking Studies of Novel Heterocyclic Carboxamides as Potential PI3K $\alpha$  Inhibitors". *Letters in Drug Design and Discovery* (2015), 12, 856-863.
43. Dima A. Sabbah, Musaab Saada, Reema Abu Khalaf, Sanaa, Bardaweel, **Kamal Sweidan**, Tariq Al-Qirim, Amani Al-Zughier, Heba Abdel Halim and Ghassan Abu Sheikha "Molecular modeling based approach, synthesis, and cytotoxic activity of novel benzoin derivatives targeting phosphoinositide 3-kinase (PI3K $\alpha$ )". *Bioorganic Medicinal Chemistry Letters*, (2015), 25, 3120-3124.
44. **Kamal Sweidan**, Jorn Engelmann, Walid Abu Rayyan, Dima Sabbah, Musa Abu Zarga, Tariq Al-Qirim, Yusuf Al-Hiari, Ghassan Abu Sheikha, Ghassan Shattat "Synthesis and Preliminary Biological Evaluation of New Heterocyclic Carboxamide Models". *Letters in Drug Design and Discovery* (2015), 12, 417-429.
45. Bernd Doser, **Kamal Sweidan**, Norbert Kuhn, Christian Ochsenfeld, "Unexpected Dimerization of 1,3-Dimethyl-5-methylenebarbituric Acid Revealed by a Combined Experimental and Computational Study". *Journal of Physical Organic Chemistry* (2015), 28, 354-357.
46. Eyad Mallah, Ahmed Al-Sheikh, **Kamal Sweidan**, Wael Abu Dayyih, Manfred Steimann "Crystal Structure of 5-[bis(methylsulfonyl)methyl]-1,3-dimethyl-5-(methylsulfonyl)pyrimidine-2,4,6(1H,3H,5H)-trione". *Acta Crystallographica, section E: Structure Report Online* (2015), E71, o58
47. Tariq Al-Qirim, Ghassan. Shattat, Ghassan Abu-Sheikha, **Kamal Sweidan**, Yusuf Al-Hiari, Anan Jarab "Synthesis of Novel N-(4-benzoylphenyl)-2-furamide Derivatives and their Pharmacological Evaluation as Potent Antihyperlipidemic Agents in Rats". *Drug Research* (2015), 65, 158-163.

48. Samer S. Ratrout, Ala'eddine M. Al Sarabi, **Kamal Sweidan** "A One Pot and Efficient Synthesis of Zoledronic Acid Starting From Tert-Butyl Imidazol-1-yl Acetate". *Pharmaceutical Chemistry Journal* (2015), 48, 835-839.
49. Riad Awad, Mallah Eyad, **Kamal Sweidan**, Ahmed Al-Sheikh, Wael Abu Dayyih, Manfred Steimann "Synthesis and Crystal Structure of 1,3-Diisopropyl-4,5-Dimethylimidazolium 4-Methyl-benzenesulfinate". *Journal of Chemical & Pharmaceutical Research* (2014), 6, 127-136.
50. **Kamal Sweidan**, Walid Abu Rayyan, Musa Abu Zarga, Mustafa El-Abadelah, Hani A. Y. Mohammad "Synthesis and antibacterial evaluation of model fluoroquinolone-benzylidene barbiturate hybrids". *Letters in Organic Chemistry* (2014), 11(6), 422-425.
51. Eyad Mallah, **Kamal Sweidan**, Wael Abu Dayyih, Manfred Steimann, Mahmoud Sunjuk "Crystal Structure of 1,3-Dicyclohexyl-4,5-dimethyl-1H-imidazol-3-ium-2-carbodithioate Chloroform Monosolvate" *Acta Crystallographica, section E: Structure Report Online* (2014), E70, o1227.
52. Eyad Mallah, Nibras Al Ani, Wael Abu Dayyih, Nidal Qinna, Riad Awad, **Kamal Sweidan** and Tawfiq Arafat "Simultaneous Determination of Sildenafil and Glimepiride in Rat Plasma by Using LC-MS Method and their Applications in Pharmacokinetic Interactions" *JSM Clinical Pharmaceutics* (2014), 1(2), 1007.
53. Riad Awad, Eyad Mallah, Wael Abu Dayyih **Kamal Sweidan** and Manfred Steimann "Bis(methylsulfonyl)methane". *Acta Crystallographica, section E: Structure Report Online* (2014), E70, o877.
54. **Kamal Sweidan** and Manfred Steimann "5-[1-(1,3-Dimethyl-2,4,6-trioxohexahydropyrimidin-5-yl)-2-oxopropyl]-1,3-dimethylpyrimidine-2,4,6(1H,3H,5H)-trione". *Acta Crystallographica, section E: Structure Report Online* (2013), E69, o1334.
55. **Kamal Sweidan**, Salim Haddad, Murad AlDamen, A. and Ahmed Al-Sheikh "4-Chlorobutyl 7-chloro-1-cyclopropyl-4-(1,3-diethyl-4,6-dioxo-2-sulfanylidene-1,3-diazinan-5-ylidene)-6-fluoro-1,4-dihydroquinoline-3-carboxylate". *Acta Crystallographica, section E: Structure Report Online* (2013), E69, o1191.
56. Wael Abu Dayyih, Eyad Mallah, **Kamal Sweidan**, Ahmed Al-Sheikh and Manfred Steimann "Crystal structure of 1,3-diisopropyl-4,5-dimethylimidazolium

- oxalic acid monomethyl ester, C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>". *Zeitschrift fur Kristallographie – New Crystal Structures* (2013), 228(1), 55-56.
57. Ghassan Shattat, Tariq Al-Qirim, Ghassan Abu Sheikha, Yusuf Al-Hiari, **Kamal Sweidan**, Rania Al-Qirim, Suhair Hikmat, Lama Hamadneh, Sameer Al-kouz "The Pharmacological effects of novel 5-fluoro-N-(9,10-dihydro-9,10-dioxoanthracen-8-yl)-1H indole-2-carboxamide derivatives on plasma lipid profile of Triton-WR-1339-induced Wistar rats". *Journal of Enzyme Inhibition and Medicinal Chemistry* (2013), 28(4), 863-869.
58. Wael Abu Dayyih, Ahmad Abu Hamaid, **Kamal Swiedan**, Khalid Matalka, and Eyad Abu Nameh "Simultaneous high performance liquid chromatographic analysis of Oxicams in pharmaceutical formulations". *International Journal of Pharmacy* (2012), 2(4), 687-695.
59. Ahmed Al-Sheikh, **Kamal Sweidan**, Munjed Ibrahim, Mohammed Alarjah, Norbert Kuhn "Synthesis of novel derivatives of pyrano[2,3-d]pyrimidine via intramolecular cyclocondensation reaction under acidic and basic conditions". *Letters in Organic Chemistry* (2012), 9(6), 386-389.
60. **Kamal Sweidan**, Murad El Damen and Cacilia Maichle-Mössmer " Synthesis, Crystal Structure and Thermodynamic Calculations of 1,3-Diethyl-5-(diethylaminium)methylene-2-thiobarbituric Acid Adduct". *Journal of Chemical Crystallography* (2012), 42(5), 427-431.
61. Tariq Al-Qirim, Ghassan Shattat, **Kamal Sweidan**, Waseem El-Huneidi, Ghassan Abu Sheikha, Reema Abu Khalaf and Suhair Hikmat "In Vivo Antihyperlipidemic Activity of a New Series of N-(Benzoylphenyl) and N-(Acetylphenyl)-1-benzofuran-2-carboxamides in Rats". *Archiv der Pharmazie* (2012), 345(5), 401-406.
62. **Kamal Sweidan**, Murad El Damen, Cacilia Maichle-Moessmer and Mohammad Mubarak "Synthesis, Crystal Structure and Thermodynamic Calculations of 1,3-Diethyl-5-(diethylaminium)methylene-2- thiobarbituric Acid Adduct". *Journal of Chemical Crystallography* (2012), 42(5), 427-431.
63. Eyad Mallah, **Kamal Sweidan**, Jorn Engelmann, Manfred Steimann, Norbert Kuhn and Martin Maier " Nucleophilic substitution approach towards 1,3-dimethylbarbituric acid derivatives-new synthetic routes and crystal structures ". *Tetrahedron* (2012), 68 (4), 1005-1010.

64. Eyad Mallah, **Kamal Sweidan**, Qutaiba Abu-Salem, Abu Dayyih Wael and Manfred Steimann "2-Bromo-1,3-diisopropyl-4,5-dimethyl-1H-imidazol-3-ium dicyanidoargentate ". Acta Crystallographica, section E: Structure Report Online (2012), E68, m17.
65. **Kamal Sweidan**, Jorn Engelmann, Rajendra Joshi, Mubarak, Mohammad S. and Mustafa El-Abadelah "Synthesis of some cyclic methylene 1,3-diaza barbiturates derivatives". Letters in Organic Chemistry (2011), 8(8), 603-60.
66. **Kamal Sweidan**, Eyad Mallah, Qutaiba Abu-Salem, Manfred Steimann and Cacilia Maichle-Mössmer "1,3-Diisopropyl-4,5-dimethylimidazolium benzenesulfonate ". Acta Crystallographica, section E: Structure Report Online (2011), E67, o2205.
67. Eyad Mallah, Qutaiba Abu-Salem, **Kamal Sweidan**, Norbert Kuhn, Cacilia Maichle-Mößmer, Manfred Steimann, Markus Strobele and Michael Walker "Imidazolium Dicyanoargentates". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2011), 66b, 545-548.
68. **kamal sweidan**, Abdel-Mottaleb Jaber, Nawzat Al-Jbour, Rana Obaidat, mayyas Al-Remawi and Adnan Badwan "Further investigation on the degree of deacetylation of chitosan determined by potentiometric titration". Journal of Excipients and Food Chemicals (2011), 2, 16-25.
69. Qutaiba Abu-Salem, **Kamal Sweidan**, Eyad Mallah, Rajendra Joshi, Mohammad S. Mubarak, Manfred Steimann and Wolfgang Voelter "Hydrogen-bonded Phosphorous Acid. Synthesis and Structure of Imidazolium-Containing Salts of Hydrogenphosphonate and Phenylphosphonate ". Jordan Journal of Chemistry (2011), 2, 113-121.
70. Rana Abu-Huwaij, Rana Obaidat, **Kamal Sweidan** and Yusuf Al-Hiari " Formulation and In Vitro Evaluation of Xanthan Gum or Carbopol 934-Based Mucoadhesive Patches, Loaded with Nicotine". AAPS PharmSciTech (2011), 12(1), 21-27.
71. Rana Obaidat, Nawzat Al-Jbour, Khaldoun Al-Sou'od, **Kamal Sweidan**, Mayyas Al-Remawi and Adnan Badwan, "Some Physico-Chemical Properties of Low MolecularWeight Chitosans and its Relationship to Conformation in Aqueous Solution". Journal of Solution Chemistry (2010), 39, 575-588.
72. Rana M Obaidat, **Kamal Sweidan**, Wafa Al-Rajab, Mai Khanfar, Rana Abu-Hwajj, " A promising Local Preparation of Mucoadhesive Oral Patches for

- Treatment of Periodontal Disease''. European Journal of Parenteral and Pharmaceutical Sciences. (2010), 15, 87-94.
73. Ghassan Shattat, Tariq Al-Qirim, **Kamal Sweidan**, Moyad Shahwan, Waseem el-Huneidi, Yusuf Al-Hiari. "The Hypolipidaemic Activity of Novel Benzofuran-2-carboxamide Derivatives in Triton WR-1339-Induced Hyperlipidaemic Rats: A Comparison with Bezafibrate". Journal of Enzyme Inhibition and Medicinal Chemistry (2010), 25, 751-755.
74. **Kamal Sweidan**, Ahmad Al-Sheikh, Cacilia Maichle-Mößmer, Manfred Steimann and Norbert Kuhn "Novel Synthetic Routes To 1,3,1',3'-Tetramethylhydurilic Acid and Tetramethylalloxantine (Amalic Acid) and Their Crystal Structures''. Journal of Structural Chemistry (2010), 51, 793-797.
75. **Kamal Sweidan**, Norbert Kuhn, Cäclia Maichle-Mössmer, and Manfred Steimann "Reaction of a Zwitterionic Pyridinium Ylide with *N,N*-dimethylaniline". Zeitschrift fuer Naturforschung, B: Chemical Sciences. (2010), 65b, 99-100.
76. **Kamal Sweidan**, Qutaiba Abu-Salem, Ahmed Al-Sheikh and Ghassan Abu-Sheikh, "Novel Derivatives of 1,3-Dimethyl-5-methylenebarbituric Acid''. Letters in Organic Chemistry (2009), 6, 669-672.
77. Ahmad Al-Sheikh, **Kamal Sweidan**, Cacilia Maichle-Mossmer, Manfred Steimann, and Norbert Kuhn "Elimination of Thiomethyl Substituent from an Anionic 5-Methylenebarbituric Acid Derivative by Oxidation and Substitution''. Zeitschrift fuer Naturforschung, B: Chemical Sciences. (2009), 64b, 307-312.
78. **Kamal Sweidan**, Norbert Kuhn, Cäclia Maichle-Mössmer and Manfred Steimann " Synthesis and Crystal Structures of an Imidazolium Enolate Salt''. Zeitschrift fur Kristallographie – New Crystal Structures (2009), 224(2), 295-296.
79. Mahmoud Sunjuk, Mousa Al-Noaimi, Ekkhart Lindner, Bassam El-Eswed and **Kamal Sweidan** "Synthesis and Characterization of Water Soluble Palladium (II)-Functionalized Diphosphine Complexes". Polyhedron (2009), 28, 1393-1398.
80. **Kamal Sweidan**, Ahmed Abu-Rayyan, Ahmad Al-Sheikh, Cacilia Maichle-Mossmer, Manfred Steimann, and Norbert Kuhn " Synthesis, Structure and Reactions of 1,3-Dimethyl-5-bis(thiomethyl)methylenebarbituric Acid". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2009), 64b, 106-110.
81. Ahmad Al-Sheikh, **Kamal Sweidan**, Cacilia Maichle-Mossmer, Manfred Steimann, and Norbert Kuhn " Synthesis and Reactions of 5-



- [Amino(thiomethyl)methylene]-2,2-dimethyl-1,3-dioxane-4,6-dione". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2009), 64b, 101-105.
82. **Kamal Sweidan**, Ahmed Al-Sheikh, Bassam Sweileh, Mahmoud Sunjuk and Norbert Kuhn "A New Route Synthesis of Phosphorous, Arsenic and Antimony 1,3-Dimethyl-2,4,6(1H,3H,5H)-pyrimidinetrione Ylides". Letters in Organic Chemistry (2009), 6, 1-3.
83. Ahmad Al-Sheikh, **Kamal Sweidan**, Bassam Sweileh, Hartmut Schubert and Norbert Kuhn "Synthesis and Crystal Structure of Triethylammonium 5-[(2,2-Dimethyl-4,6-dioxo-1,3-dioxan-5-ylidene)(methylthio)methyl]-1,3-dimethylpyrimidine-2,4,6-trionate". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2008), 63b, 1020-1022.
84. Norbert Kuhn, A. Al-Sheikh, Cäclia Maichle-Mössmer, Manfred Steimann and **Kamal Sweidan** "The Crystal Structure of 5-Bis(thiomethyl)methylene Meldrum's Acid". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2007), 62b, 1221-1223.
85. Norbert Kuhn, Cäclia Maichle-Mössmer, Manfred Steimann and **Kamal Sweidan** "Interionic C-H...O Hydrogen Bonds in 1,3-Diisopropyl-4,5-dimethylimidazolium-2-nitrodiethylmalonate". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2007), 62b 101-103.
86. Norbert Kuhn, Cäclia Maichle-Mössmer, Manfred Steimann and **Kamal Sweidan** "Bis[1,3-dimethylbarbituryl(5)]sulphide-Structure and Reactions". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2006), 61b, 521-527.
87. **Kamal Sweidan** and Manar Fayyad "The Use of Duckweeds for Removal of Heavy Metals and Organic Compounds from Wastewater in As-Samra". Fresenius Environmental Bulletin (2006), 15(5), 354-359.
88. Norbert Kuhn, Alois Kuhn, Elke Niquet, Manfred Steimann and **Kamal Sweidan** "Derivatives of 1,3-Dimethyl-5-Methylenebarbituric Acid". Z Zeitschrift fuer Naturforschung, B: Chemical Sciences (2005), 60b, 924-928.
89. Norbert Kuhn, Cäclia Maichle-Mössmer, Elke Niquet, Manfred Steimann and **Kamal Sweidan** "1,3-Dimethylbarbiturate Salts of Organic Cations". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2005), 60b, 715-719.
90. Norbert Kuhn, Ahmed Abu-Rayyan, Ahmad Al-Sheikh, Klaus Eichele, Cäclia Maichle-Mössmer, Manfred Steimann and **Kamal Sweidan** "The Structural

## ***CV of Kamal Sweidan***

Chemistry of 2-Methylenimidazolines". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2005), 60b, 294-299.

91. Norbert Kuhn, Markus Richter and **Kamal Sweidan** "The Crystal Structure of 1,3-Dicyclohexyl-4,5-Dimethylimidazolium Dicyanomethylide". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2005), 60b, 123-124.
92. Norbert Kuhn, Markus Richter, Manfred Steimann, Markus Ströbele and **Kamal Sweidan** "Hydrogen Bonding in Imidazolium Nitrates", Zeitschrift fur Anorganische und Allgemeinen Chemie (2004), 630, 2054-2058.

### **Patents & Books**

1. Benzofuran and Benzothiophene-2-Carboxamide Derivatives, A Process for their Preparation and their Use as Potential Antihyperlipidaemic Agents. **Jordan-Patent # 47 /2009**.
2. "Novel Imidazol and Barbituric Acid Derivatives - Carbene Fragments"- LAMBERT Academic Publishing. 1<sup>st</sup> Edition. **2014**.

### **Conferences & Workshops**

- 1) The First AAU International Conference on Pharmacy and Biomedical Sciences, BMC Proceedings, **2023**.
- 2) Gordon Research Conference "Frontiers of Mammalian Genomic Stability in Human Health", Ventura, CA, USA, February 19-24, **2017**
- 3) Conference "TWAS-ARO 12th Annual Meeting Sustainability in Food and Water: An Arab Viewpoint", The Dead Sea, Jordan, 18-19 Dec. **2016**.
- 4) Workshop "How to get published author workshop " by Taylor & Francis Publisher at the University of Jordan, Amman, Jordan, 29<sup>th</sup> Feb. **2016**.
- 5) Conference "International Conference on Natural Products and Drug Design" at the University of Jordan, Amman, Jordan as a preparatory-committee member from 6<sup>th</sup>. to the 10<sup>th</sup> Oct. **2016**
- 6) Workshop "How to Publish in High Impact Journals" the Library of the University of Jordan and Royal Society of Chemistry (RSC), 7<sup>th</sup> May **2015**.

## ***CV of Kamal Sweidan***

- 7) Workshop "NASIC Conference Cum Workshop on Herbal Drug Development for Socio-Economic Uplift in Developing World", Amman-Jordan, 6-8 Sep. **2015**.
- 8) Conference " TWAS 25th General Meeting", Muscat, Sultanate of Oman, Oral lecture, 26-29 Oct. **2014**.
- 9) Workshop "Letter grading system at the University of Jordan", the University of Jordan, **Amman, Jordan** from 27<sup>th</sup> Jan. to the 31<sup>st</sup> Jan. (9 hours) **2013**.
- 10) Conference "Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference" (ZTIPC 2012) in **Amman, Jordan** from the 17<sup>th</sup> -19<sup>th</sup> October **2012**.
- 11) Conference "International Conference of Young Chemists (ICYC)" in **Amman, Jordan** from the 8<sup>th</sup> to the 10<sup>th</sup> April **2012**.
- 12) Staff Development Workshops, in the University of Jordan, Amman, Jordan from 15<sup>th</sup> Jan. to the 6<sup>th</sup> Feb. (**50 hours**) **2012**.
- 13) Conference "Eurasia Conference on Chemical Sciences (EuAsC<sub>2</sub>S)" in **The Dead Sea, Jordan** from the 6<sup>th</sup> to the 10<sup>th</sup> October **2010**.
- 14) Conference "Challenges in Organic Chemistry and Chemical Biology (ISACS1)" in **San Francisco, USA** from the 6<sup>th</sup> to the 9<sup>th</sup> July **2010**.
- 15) Intensive workshop "EU-Projects with Jordan", in Amman, Jordan from 6<sup>th</sup> to the 7<sup>th</sup> December **2009**.
- 16) The 26<sup>th</sup> General Arab Pharmacists' Union Conference & 12<sup>th</sup> Jordan Pharmacists' Association Conference in Amman from 10<sup>th</sup>-12<sup>th</sup> April **2008**.
- 17) The 8<sup>th</sup> Jordanian Chemistry Conference in Amman at Al-Petra University of Jordan at 21<sup>th</sup> April **2008**.
- 18) 1<sup>st</sup> JIPC in Amman from at Al-Zaytoonah University of Jordan of Jordan 15<sup>th</sup> -17<sup>th</sup> November **2006**.
- 19) LC/MS – [2002] at Riyadh city-Kingdom of Saudi Arabia
- 20) Training course for supervisory and management skills at Hikma Pharmaceutical Co. in Amman-Jordan **2001**.

## **Academic Activities**

## ***CV of Kamal Sweidan***

- **Member** of the Accreditation and Quality Assurance Committee of the University of Jordan (2020).
- **Member** of the Accreditation and Quality Assurance Committee of the University of Jordan (2019).
- **Chairman** of the Accreditation and Quality Assurance Committee at the chemistry department of the University of Jordan (2018).
- **Member** of the Study Plan Committee at the chemistry department of the University of Jordan (2018).
- **Member** at Abdul Hameed Shoman Foundation, Amman-Jordan (2017).
- Editorial Board Member / Peer Reviewer of Chemistry Journal: **International Journal of Chemistry and Pharmacy**.
- Editorial Board Member / Peer Reviewer of Chemistry Journal: **Frontiers in Heterocyclic Chemistry**.
- Editorial Board Member of Chemistry Journal: **UK Journal of Pharmaceutical and Biosciences**.
- Editorial Board Member of Journal: **International Journal of Advanced Research in Chemical Science**.
- **Reviewer** for Letters in Organic Chemistry.
- **Member** at TYAN (TWAS Young Affiliates Network).
- **Member** at Alumniportal Deutschland.
- Member at the Association of Graduates of German Universities and Institutes (2008- ).
- Member at the development committee at the faculty of Science, the University of Jordan (2014-2015).
- Member at the Academy of Science for the developing World (**TWAS**) (2012-2016).
- Member at the Jordanian Chemical Society (JCS) (2008- )
- Member at the development committee at the faculty of Science, the University of Jordan (2012-2013).

### **Grants**

- **Research Grant**, Synthesis, characterization and biological evaluation of new derivatives of *N*-substituted-4-hydroxy-2-quinolone-3-carboxamides as

anticancer agents. The Deanship of the Scientific Research, the University of Jordan 2020.

- **Research Grant**, Synthesis, Characterization and Biological Evaluation of New *N*-(alkyl/Aryl)-1*H*-benzo[d]imidazole-2-carboxamide Derivatives as Potential Lipid--Lowering Agents. The Deanship of the Scientific Research, the University of Jordan 2018.
- **Research Grant**, Synthesis of new anthraquinone hydrazones and related congeners having the piperazinyli moiety and evaluation of their antitumor activity. The Deanship of the Scientific Research, the University of Jordan 2016.
- **Research Grant**, Synthesis and Biological Evaluation of Some New Indole-2-Carboxamide Derivatives as Anticancer Agents. The Deanship of the Scientific Research, the University of Jordan 2015.
- **Research Grant**, Synthesis, Characterization and Biological Evaluation for some PI3Ks Inhibitors-Organic Molecules. Hamdi Mango Center for Scientific Research, the University of Jordan 2014.
- **Research Grant**, Preparation of the Impurity Profile for Some Active Pharmaceutical Ingredients. Chemicals Plant at Hikma Pharmaceuticals and FFF (Faculty for Factory) Program, **Summer** 2012.
- **Research Grant**, Synthesis and Evaluation of Antimicrobial Activity of New Barbituric Acid Derivatives. The Deanship of the Scientific Research, the University of Jordan 2012.
- **Research grant**, Deutsche Forschungsgemeinschaft (DFG) and the Higher Council for Science and Technology (HCST) of Jordan-**Summer** 2011.
- **Ministry of Economics and Technology (Germany) grant** for funding my research lab equipments at the Faculty of Pharmacy, Al-Zaytoonah University-2009.
- **Research grant**, Deutsche Forschungsgemeinschaft (DFG) and the Higher Council for Science and Technology (HCST) of Jordan-**Summer** 2009.
- **Research grant**, Deutsche Forschungsgemeinschaft (DFG) and the Higher Council for Science and Technology (HCST) of Jordan-**Summer** 2008.
- **Research Grant**, Synthesis and Preliminary Pharmacological Evaluation of New Organic Derivatives of Barbituric acid's. Al-Zaytoonah University of Jordan 2007.

- **Research Grant**, Investigation of Chitosan Oligomer Solution Properties. Jordanian Pharmaceutical Manufacturing (JPM) Co. 2006-2009.

### **Main Technical Experience**

1. Two years working at Tabuk Pharmaceuticals Mfg. Co.-Research & Development department-as **Analytical R&D supervisor** since 02/2001-12/2002.
2. Two years working at Hikma Pharmaceuticals Mfg. Co.-Research & Development department-as **Analytical R&D supervisor** since 11/1998-01/2001.
3. **Researcher assistant** at Environment & Water Research Centre at Jordan University since 1996-1999.

### **Instrumental (operations & interpretation) and Computer Skills**

- HPLC Instruments (eg.: Waters, TSP, Shimadzu, Perkin Elmer),
- Microwave for the chemical digestion (from Anton Paar),
- Atomic absorption spectrophotometer & Atomic emission photometer,
- Spectrofluorometer & UV/Visible spectrophotometer,
- Near IR & FTIR spectrophotometer,
- Solid Phase Extraction technique for sample preparation,
- Advanced chemistry programs (ChemOffice, ChemSketch, Win-NMR),
- Professional Internet Search engines eg. Scifinder Scholar, Beilestein commander
- ACDlabs software: eg. NMR calculation
- Good command on internet applications.

### **Professional Experience**

- [11/2017-]                    **Professor** at Department of Chemistry, Faculty of Science, the University of Jordan
- [09/2016-09/2017]        I have a sabbatical leave at Faculty of Pharmacy, Al-Zaytoonah University of Jordan
- [2013-2017]                **Associate Professor** at Department of Chemistry, Faculty of Science, the University of Jordan

## ***CV of Kamal Sweidan***

- [2010-2013] **Assistant Professor** at Department of Chemistry, Faculty of Science, the University of Jordan
- [2006-2009] **Assistant Professor** at Faculty of Pharmacy, Al-Zaytoonah University.
- [2003-2006] **Teacher assistant** at chemistry laboratories courses at chemistry department in Eberhard-Karls Tuebingen University-Germany.
- [2001-2003] **Research & Development (R&D) Supervisor** at Tabuk Pharmaceutical Mfg. Co.-Saudi Arabia.
- [1999-2001] **Research & Development (R&D) Supervisor** at Hikma Pharmaceutical Mfg. Co.-Amman-Jordan.
- [1996-1999] **Teacher Assistant** at chemistry department in Jordan University supervised on General, Analytical and Organic chemistry laboratories.

### **Funded Research Projects**

- [03/2018-09/2021] Scientific Research Support Fund: Design, Synthesis, and Biological Evaluation of PI3K $\alpha$  and EGFR Inhibitors Targeting Colon and Breast Cancer
- [01/2014-09/2015] Hamdi Mango Center for Scientific Research for: Synthesis, Characterization and Biological Evaluation for some PI3Ks Inhibitors-Organic Molecules.
- [06-09/2011] Post-doctorant at Max-Planck Institute for: Biological Cybernetics (Germany) for: Synthesis and Relaxivity Behavior of Intracellular Targeted Probes for MR and Optical Imaging.
- [06-09/2009] Post-doctorant at Chemistry and Pharmacy Department-Tubingen University (Germany) for: New Chemistry of 5-Methylene Barbituric Acid Derivatives.

## *CV of Kamal Sweidan*

- [06-09/2008] Post-doctorant at Chemistry and Pharmacy Department-Tubingen University (Germany) for: Chemistry of 1,3-Dimethylbarbituric Acid, Preparation and X-ray Characterisation of New Derivatives.
- [2007-2010] Jordan Pharmaceutical Manufacturing (JPM) Co. for: Quantitative Analysis of the Degree of Deacetylation of Chitosan Oligomers.

### **Teaching Experiences**

- 1) Heterocyclic Chemistry for Graduate Studies at the school of Science (the University of Jordan).
- 2) Research Methods in Chemistry for Graduate Studies at the school of Science (the University of Jordan).
- 3) Introduction to the Heterocyclic Compounds for chemistry students at the school of Science (the University of Jordan).
- 4) The Systematic Identification of Organic Compounds for chemistry students at the faculty of Science (the University of Jordan).
- 5) Organic Chemistry I, Organic Chemistry II, Organic Chemistry III and Pharmaceutical Organic Chemistry for chemistry students at the faculty of Science (the University of Jordan) and non-chemistry students at the faculty of Pharmacy (Al-Zaytoonah University of Jordan).
- 6) Pharmaceutical Instrumental Analysis for pharmacy students at the faculty of Pharmacy, Al-Zaytoonah University of Jordan since 2006.
- 7) Pharmaceutical Analytical Chemistry for pharmacy students at the faculty of Pharmacy, Al-Zaytoonah University of Jordan since 2006.
- 8) General Chemistry courses (I & II).
- 9) Practical Laboratories Courses of General Chemistry, Organic Chemistry, Pharmaceutical Analytical Chemistry and Pharmaceutical Instrumental Analysis.

### **Supervision on Graduated Students**

- 1) Co-Supervision of M.Sc thesis entitled: Development and Validation of HPLC Analytical Method for Oxicams in Pharmaceutical Finished Products, for Ahmad Abu Hmaid (Chemistry Department-Applied Al-Balqa'a University), **2010**.



## *CV of Kamal Sweidan*

- 2) Supervision of **M.Sc thesis** entitled: Synthesis, Characterization and Biological Evaluation of Some New Indole-2-Carboxamide Derivatives, for Khadeja Abu-Dosh (Chemistry Department-The University of Jordan), **2014**.
- 3) Supervision of **M.Sc thesis** entitled: Synthesis, Characterization and Antimicrobial Evaluation of New Furan-2-carboxamide Derivatives, for Ghada Idris (Chemistry Department-The University of Jordan), **2014**.
- 4) Supervision of **M.Sc thesis** entitled: Establishment of Impurity Profile for Prasugrel Hydrochloride in Tablet Form by Using Liquid Chromatography: Identification and Synthesis of Impurities, for Ammar Barakat (Chemistry Department-The University of Jordan), **2014**.
- 5) Supervision of **M.Sc thesis** entitled: Isolation and Characterization of the Degradation Products of Tableted Amisulpride and Related Impurities, then Exploration of the Corresponding Degradation Pathways., for Mohammad Elian (Chemistry Department-The University of Jordan), **2015**.
- 6) Supervision of **M.Sc thesis** entitled: Synthesis, characterization and biological evaluation of new derivatives of 1,2-dihydroquinoline-3-carboxamides as anticancer agents, for Hussein Ahmad (Chemistry Department-The University of Jordan), **2015**.
- 7) Supervision of **M.Sc thesis** entitled: Synthesis, Characterization and Antimicrobial Evaluation of New Substituted 1H-Indole-2-Carboxamide Derivatives, for Ala'a Al-Shamayleh (Chemistry Department-The University of Jordan), **2016**.
- 8) Supervision of **M.Sc thesis** entitled: Isolation, Synthesis, Characterization and Exploration of mechanisms generating degradation products and related impurities in Lenalidomide raw material, for Quasi Aqel (Chemistry Department-The University of Jordan), **2016**.
- 9) Supervision of **M.Sc thesis** entitled: Synthesis and biological evaluation of new *N*-substituted-7-chloro-4-hydroxy-2-quinolone-3-carboxamides and metal complexes for those derivatives and their ester analogue as potential anticancer agents for Aya Al-Zhere (Chemistry Department-The University of Jordan), **2018**.
- 10) Supervision of **M.Sc thesis** entitled: Advance Approach in the Establishment of Impurity Profile of Vildagliptin as a Raw Material and in Tablet Form for Enas Algdah (Chemistry Department-The University of Jordan), **2018**.
- 11) Supervision of **M.Sc thesis** entitled: Investigation of the chemical stability of lornoxicam raw material and in pharmaceutical tablet formula for Sawsan Saeed (Chemistry Department-The University of Jordan), **2018**.

- 12) Supervision of **M.Sc thesis** entitled: Synthesis, characterization, molecular docking, and biological evaluation of new derivatives of 1,2-dihydroquinoline-3-carboxamide as potential anticancer agents for Dania Altaher (Chemistry Department-The University of Jordan), **2019**.
- 13) Supervision of **M.Sc thesis** entitled: Investigation of the *In-Vitro* release profile of carvedilol and evaluation of the chemical and physical stabilities of a new oral carvedilol microemulsion-loaded oleogel for Ibtihal Abohamde (Chemistry Department-The University of Jordan), **2021**.
- 14) Supervision of **M.Sc thesis** entitled: New 4-Hydroxy-2-oxo-1,2-dihydroquinoline-3-carboxamide Derivatives: Synthesis, Characterization and Biological Evaluation as Anti-Alzheimer Agents Using LC/MS for Doa'a Hasan (Chemistry Department-The University of Jordan), **2022**.
- 15) Co-Supervision of **M.Sc thesis** entitled: Synthesis and Biological Evaluation of Novel Indole-2-Carboxamide Derivatives as Antimicrobial and Anticancer Agents for Ghofran Aljabr (Pharmacy Faculty -Petra University), **2022**.
- 16) Supervision of **M.Sc thesis** entitled: Synthesis and Biological Evaluation of New Nitro Derivatives of 4-Hydroxy-2-Oxo-1,2-Dihydroquinoline-3-Carboxamid as Promising Anti-Alzheimers Agents Using GC-FID for Malak Abbadi (Chemistry Department-The University of Jordan), **2022**.
- 17) Supervision of **M.Sc thesis** entitled: Isolation and characterization of the Degradation Products of Tableted Brivaracetam Using UPLC-MS and NMR then Exploration Degradation Pathways for Muna Alkowmi (Chemistry Department-The University of Jordan), **2022**.
- 18) Supervision of **M.Sc thesis** entitled: Synthesis, Characterization, and Biological Evaluation of New 5-Nitrofurane Carboxamide Derivatives as Potential Anti-diabetic Agents for Farah Abu Taleb (Chemistry Department-The University of Jordan), **2022**.
- 19) Co-Supervision of **M.Sc thesis** entitled: Optimizing the Core Structure of 4-Hydroxy-2-quinolone Derivatives as Potentil Anticaner Agents for Hana Kassim (Faculty of Pharmacy-Al Zaytoonah University of Jordan), **2024**.
- 20) Co-Supervision of **M.Sc thesis** entitled: Design, Synthesis, and Biological Evaluation of 1,8-naphthyridin-2-one-3-carboxamide Derivatives as Potential Anticancer Agents for Nour Al-Sheikh (Faculty of Pharmacy-Al Zaytoonah University of Jordan), **2024**.

## ***CV of Kamal Sweidan***

Note: As Internal and External Examiner for about 70 dissertation-discussion committee.

### **Languages**

- Arabic (native),
- English (Excellent command),
- Germany (very good command in reading and writing) & (good command of speaking).

### **References**

- 1- Professor Dr. Mohammad S. Mubarak, The University of Jordan. E-mail: mmubarak@ju.edu.jo. Mobile: +96279 6550117.
- 2- Dr. Waseem El-Hunedi, Sharjah Institute for Medical Research Institution University of Sharjah Sharjah 27272, United Arab Emirates. E-mail: [welhuneidi@sharjah.ac.ae](mailto:welhuneidi@sharjah.ac.ae)
- 3- Professor Dr. Ghassan Abushaikha, Department of Medicinal and Biological Chemistry College of Pharmacy and Pharmaceutical Sciences, The University of Toledo, USA. E-mail: ghassan.Abushaikha@utoledo.edu