

Curriculum Vitae of Kamal AbdelRahim Sweidan

Associate Professor of Organic Chemistry



Biodata

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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 π -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- *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- *University of Jordan-Jordan*, [1992-1996]

Research Interests

Preparation of novel indole, benzofuran and benzothiophene-2-carboxamide derivatives followed by testing their bioactivities as antihyperlipidaemic, anticancer, and antibacterial agents. In addition, the work also involves some docking and computational studies. This is a collaborative research with Dr. Dima Sabbah (Al Zaytoonah University of Jordan, Jordan) and Professor Haizhen A Zhong (University of Nebraska at Omaha, USA). Moreover, we are currently working on the synthesis of new organic derivatives of barbituric and meldrum's acids which may exhibit antibacterial and antifungal activities. Complete characterization of the target products using spectroscopic techniques (NMR, IR), MS, elemental analysis and single crystal X-ray diffraction will be undertaken. This direction of research is in cooperation with Professor Mohammad Mubarak (Indiana University, Department of Chemistry, USA).

Another part of the research is related to pharmaceutical instrumental analysis which involves: 1) development and validation of new HPLC analytical methods for active ingredients in pharmaceutical raw materials and finished products 2) establishment of impurity profile for active pharmaceutical ingredients and 3) comprehensive study of the chitosan oligomer including the confirmation behavior in solutions, degree of deacetylation (DDA), pKa's at different ionic strength values.

Publications in Refereed International Journals

1. 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, *In Press*.
2. **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 PI3K /EGFR inhibitors". *Bioorganic Medicinal Chemistry Letters*, (2016), 26, 2685-2690.

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3. **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.
4. **Kamal Sweidan**, Dima A. Sabbah, Jörn Engelmann, Heba Abdel-Halim and Ghassan Abu Sheikha "Computational Docking Studies of Novel Heterocyclic Carboxamides as Potential PI3K Inhibitors". *Letters in Drug Design and Discovery* (2015), 12, 856-863.
5. 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 phosphoinostide 3-kinase (PI3K)". *Bioorganic Medicinal Chemistry Letters*, (2015), 25, 3120-3124.
6. **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.
7. 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.
8. 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
9. 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.
10. Samer S. Ratrou, 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.

11. 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.
12. **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.
13. 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.
14. 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.
15. 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.
16. **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.
17. **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.
18. 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, C₁₄H₂₄N₂O₄". *Zeitschrift für Kristallographie – New Crystal Structures* (2013), 228(1), 55-56.

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19. 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.
20. Wael Abu Dayyih, Ahmad Abu Hamaid, **Kamal Swiedan**, Khalid Matalaka, and Eyad Abu Nameh "Simultaneous high performance liquid chromatographic analysis of Oxicams in pharmaceutical formulations". *International Journal of Pharmacy* (2012), 2(4), 687-695.
21. 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.
22. **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.
23. 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.
24. **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.
25. 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.
26. Eyad Mallah, **Kamal Sweidan**, Qutaiba Abu-Salem, Abu Dayyih Wael and Manfred Steimann "2-Bromo-1,3-diisopropyl-4,5-dimethyl-1H-imidazol-3-

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- ium dicyanidoargentate ". Acta Crystallographica, section E: Structure Report Online (2012), E68, m17.
27. **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.
 28. **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.
 29. 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.
 30. **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.
 31. 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.
 32. 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.
 33. 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.
 34. Rana M Obaidat, **Kamal Sweidan**, Wafa Al-Rajab, Mai Khanfar, Rana Abu-Hwajj, " A promising Local Preparation of Mucoadhesive Oral Patches for

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- Treatment of Periodontal Disease''. European Journal of Parenteral and Pharmaceutical Sciences. (2010), 15, 87-94.
35. 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.
36. **Kamal Sweidan**, Ahmad Al-Sheikh, Cacilia Maichle-Mößmer, Manfred Steimann and Norbert Kuhn "Novel Synthetic Routes To 1,3,1',3'-Tetramethylhydrylic Acid and Tetramethylalloxantine (Amalic Acid) and Their Crystal Structures''. Journal of Structural Chemistry (2010), 51, 793-797.
37. **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.
38. **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.
39. 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.
40. **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.
41. 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.
42. **Kamal Sweidan**, Ahmed Abu-Rayyan, Ahmad Al-Sheikh, Cacilia Maichle-Mossmer, Manfred Steimann, and Norbert Kuhn "Synthesis, Structure and

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- Reactions of 1,3-Dimethyl-5-bis(thiomethyl)methylenebarbituric Acid".
Zeitschrift fuer Naturforschung, B: Chemical Sciences (2009), 64b, 106-110.
43. 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.
44. **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)-pyrimidinetriene Ylides". Letters in Organic Chemistry (2009), 6, 1-3.
45. 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.
46. 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.
47. 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.
48. 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.
49. **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.
50. 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.

51. 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.
52. Norbert Kuhn, Ahmed Abu-Rayyan, Ahmad Al-Sheikh, Klaus Eichele, Cäclia Maichle-Mössmer, Manfred Steimann and **Kamal Sweidan** "The Structural Chemistry of 2-Methylenimidazolines". Zeitschrift fuer Naturforschung, B: Chemical Sciences (2005), 60b, 294-299.
53. 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.
54. 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.
55. Kamal Sweidan, Khadeja Abudosh and Dima Sabbah "Synthesis and anticancer evaluation of new indole-2-carboxamide derivatives towards colon cancer cell lines" (2015), submitted to Die Pharmazie.

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. 1st Edition. 2014.

Conferences & Workshops

- 1) The workshop "How to get published author workshop " by Taylor & Francis Publisher at the University of Jordan, Amman, Jordan, 29th Feb. 2016.
- 2) The conference "International Conference on Natural Products and Drug Design" at the University of Jordan, Amman, Jordan as a preparatory-committee member from 6th. to the 10th Oct.
- 3) "How to Publish in High Impact Journals" the Library of the University of Jordan and Royal Society of Chemistry (RSC), 7th May 2015.

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- 4) "Letter grading system at the University of Jordan" Workshops, at the University of Jordan, **Amman, Jordan** from 27th Jan. to the 31st Jan. (9 hours) **2013**.
- 5) The conference "Al-Zaytoonah University of Jordan and the University of Toledo International Pharmaceutical Conference" (ZTIPC 2012) in **Amman, Jordan** from the 17th -19th October **2012**.
- 6) The conference "International Conference of Young Chemists (ICYC)" in **Amman, Jordan** from the 8th to the 10th April **2012**.
- 7) Staff Development Workshops, in the University of Jordan, Amman, Jordan from 15th Jan. to the 6th Feb. (**50 hours**) **2012**.
- 8) The conference "Eurasia Conference on Chemical Sciences (EuAsC₂S)" in **The Dead Sea, Jordan** from the 6th to the 10th October **2010**.
- 9) The conference "Challenges in Organic Chemistry and Chemical Biology (ISACS1)" in **San Francisco, USA** from the 6th to the 9th July **2010**.
- 10) The Intensive workshop "EU-Projects with Jordan", in Amman, Jordan from 6th to the 7th December **2009**.
- 11) The 26th General Arab Pharmacists' Union Conference & 12th Jordan Pharmacists' Association Conference in Amman from 10th-12th April **2008**.
- 12) The 8th Jordanian Chemistry Conference in Amman at Al-Petra University of Jordan at 21th April **2008**.
- 13) 1st JIPC in Amman from at Al-Zaytoonah University of Jordan of Jordan 15th -17th November **2006**.
- 14) LC/MS – [2002] at Riyadh city-Kingdom of Saudi Arabia
- 15) Training course for supervisory and management skills at Hikma Pharmaceutical Co. in Amman-Jordan **2001**.

Academic Activities

- Membership at the Association of Graduates of German Universities and Institutes (2008-).
- Membership at the development committee at the faculty of Science, the University of Jordan (2014-2015).
- Membership at the Academy of Science for the developing World (**TWAS**) (2012-2016).
- Membership at the Jordanian Chemical Society (JCS).
- Membership at the development committee at the faculty of Science, the University of Jordan (2012-2013).

Grants

- **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),

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- Professional Internet Search engines eg. Scifinder Scholar, Beilestein commander
- ACDlabs software: eg. NMR calculation
- Good command on internet applications.

Professional Experience

- [11/2013-] **Associate Professor** at Department of Chemistry, Faculty of Science, the University of Jordan
- [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

- [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.
- [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) The Systematic Identification of Organic Compounds for chemistry students at the faculty of Science (the University of Jordan).
- 2) Organic Chemistry 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).
- 3) Pharmaceutical Instrumental Analysis for pharmacy students at the faculty of Pharmacy, Al-Zaytoonah University of Jordan since 2006.
- 4) Pharmaceutical Analytical Chemistry for pharmacy students at the faculty of Pharmacy, Al-Zaytoonah University of Jordan since 2006.
- 5) General Chemistry courses (I & II).
- 6) Practical Laboratories Courses of General Chemistry, Organic Chemistry, Pharmaceutical Analytical Chemistry and Pharmaceutical Instrumental Analysis.

Supervision on Graduated Students

- 1) Supervision of **M. Sc thesis** entitled: Development and Validation of HPLC Analytical Method for Oxicams in Pharmaceutical Finished Products, for Ahmad Abu Hmaid, **2010**.
- 2) Supervision of **M.Sc thesis** entitled: Synthesis, Characterization and Biological Evaluation of Some New Indole-2-Carboxamide Derivatives, for Khadeja Abu-Dosh, **2014**.
- 3) Supervision of **M.Sc thesis** entitled: Synthesis, Characterization and Antimicrobial Evaluation of New Furan-2-carboxamide Derivatives, for Ghada Idris, **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, **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, **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, **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, **2016**.

Languages

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

Favourable Hobbies

Sport (football & swimming) and reading.

References

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