

Adnan Ahmed Kadi, Ph.D.

Associate Professor of Pharmaceutical Chemistry

Personal

Date of Birth: July 26, 1972.

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Education

Ph.D. in Pharmaceutical Sciences (Rho Chi Honorary Society of Pharmacy)

2000 - 2003 Department of Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA, USA

M.S. in Pharmaceutical Sciences

1997 – 2000 Department of Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA, USA

Entry level M.S. Program

Aug - Dec 1996 Division of Medicinal and Natural Products Chemistry, University of Iowa, Iowa City, IA, USA

B.S. in Pharmaceutical Sciences

1989 - 1995 College of Pharmacy- King Saud University, Riyadh, Saudi Arabia

Employment and Responsibilities

- Associate Professor of Pharmaceutical Chemistry, 2010 - Present.
- Assistant Professor of Pharmaceutical Chemistry, 2004 - 2010.
- *Associate Dean for Graduate Studies and Research*, College of Pharmacy - King Saud University, 2012 – Present.
- *Vice Dean for Development and Quality*, College of Pharmacy - King Saud University, 2008 – 2012.
- Laboratory Supervisor, KSU College of Pharmacy Central Laboratory, 2005-2008; 2012-Present.
- Supervisor for Student Extracurricular Activities, College of Pharmacy - King Saud University, 2005-2008
- Bioanalytical Studies Coordinator, Bioequivalence Studies Program, College of Pharmacy - King Saud University, 2006-Present
- Member, Radiation Safety Permanent Committee, King Saud University, 2007-Present.

Conferences and Symposia

- Research presentation at the Virginia Academy of Science. Norfolk, VA. May '99. Studies on the Sulfation of Phenobarbital.
- Presented a poster at The Annual School of Pharmacy Research day in Richmond, VA. Sep. '99. Studies on the Sulfation of Phenobarbital.
- Presented a poster at The Annual School of Pharmacy Research day in Oct. 2000. Studies on the Metabolism of Phenobarbital. A New Metabolite?
- Presented a poster at The 17th Annual Daniel T. Watts Research Poster Symposium in Oct. 2000. Studies on the Metabolism of Phenobarbital. A New Metabolite?
- Presented a Graduate Seminar at VCU. High Throughput Metabolic Screening. November 2001.

- Presented a poster at The Everett May Awards Poster Symposium in Apr. 2002. Studies on the Metabolism of Phenobarbital. A New Metabolite?
- “Superiority of Electronic Single-Pan versus Torsion Balances in Compounding: Myth or Reality in the Hands of Pharmacy Students”. **Adnan A Kadi**, Donna L Francioni-Proffitt, Michael Hindle, William H Soine. Presented at the American Association of Colleges of Pharmacy Annual Meeting and Seminars and PTEC Annual Meeting. Minneapolis, MN. Jul. **2003**.
- “Do No Harm: Evaluation of Basic Compounding Skills of Pharmacy Students”. Donna Francioni-Proffitt, **Adnan Kadi**, William Soine. Presented at the American Association of Colleges of Pharmacy Annual Meeting and Seminars and PTEC Annual Meeting. Minneapolis, MN. Jul. **2003**.
- Presented Final Graduate Seminar at VCU. Drug Metabolism: Phenobarbital, LC-MS, and Things Related. December **2003**.
- “Synthesis and Characterization of p-Hydroxyphenobarbital O-Glucuronide from Mouse Urine”. **Adnan Kadi**, William Soine, Michael Hindle. Presented at the 230th American Chemical Society National Meeting. Washington, D.C. Aug **2005**.
- LC-MS In The Characterization of p-Hydroxyphenobarbital O-Glucuronide from Mouse Urine. **Adnan Kadi**. 9th International Pharmaceutical Sciences Conference and Exhibition. Riyadh, Saudi Arabia. **2005**
- 56th American Society of Mass Spectrometry Meeting. May 30th – June 5th, **2008**. Denver, Colorado, USA.
- 57th American Society of Mass Spectrometry Conference. May 29th – June 4th, **2009**. Philadelphia, Pennsylvania, USA.
- “In-Vitro Metabolic Profile of Investigational Anticancer Agents KM-1081 and KM-1082 By Liquid Chromatography Ion Trap Mass Spectrometry”. Mohammed W. Attwa, **Adnan A. Kadi**. Presented at the 58th American Society of Mass Spectrometry Conference. May 23th – May 27th, **2010**. Salt Lake City, UT, USA.
- “Simultaneous Determination Of Phenytoin And Lamotrigine In Human Plasma using Hydrophilic Interaction Liquid Chromatography – Triple Quadrupole Mass Spectrometry”. Hassan A. Alhazmi; **Adnan A. Kadi**. Presented at MS2010, the 4th Portuguese Mass Spectrometry Meeting. December 13th-15th, **2010**. Lisboa, Portugal.
- “Simultaneous Determination Of Carbamazepine And Vigabatrin In Human

Plasma using Hydrophilic Interaction Liquid Chromatography – Triple Quadrupole Mass Spectrometry”. Hassan A. Alhazmi; **Adnan A. Kadi**. Presented at MS2010, the 4th Portuguese Mass Spectrometry Meeting. December 13th-15th, **2010**. Lisboa, Portugal.

- “Mass Spectrometric Fragmentation Behavior of Chalcone Derivatives Employing Direct Analysis in Real Time (DART) Technique”. **Adnan Kadi**; Mohamed Attwa; A. F. M. Motiur Rahman. Presented at the 59th American Society of Mass Spectrometry Conference. June 5th – 9th, **2011**. Denver, Colorado, USA.
- “Comparative study of in-vitro metabolites of investigational anticancer agents using RLM, rat hepatocytes and HepG2 by LC-Ion Trap Mass Spectrometry”. Mohamed Attwa; **Adnan Kadi**. Presented at the 59th American Society of Mass Spectrometry Conference. June 5th – 9th, **2011**. Denver, Colorado, USA.
- “Induced In-Source Fragmentation Pattern Of Novel (1Z,2E)-N-(aryl)Propanehydrazonoyl Chlorides by Electrospray Mass Spectrometry (ESI-MS/MS)”. Mohamed Attwa; Ali Abdelhameed; Hatem A. Abdel-Aziz; **Adnan Kadi**. Presented at the 60th American Society of Mass Spectrometry Conference. May 20th – May 24th, **2012**. Vancouver, BC, Canada.
- Direct Analysis in Real Time (DART) Screening of the Chemical Compositions of Turmeric (*Curcuma longa* Linn.) Rhizome”. A. F. M. Motiur Rahman; Pervez Ahmad; **Adnan A. Kadi**. Presented at the 60th American Society of Mass Spectrometry Conference. May 20th – May 24th, **2012**. Vancouver, BC, Canada.

Professional Activities

“Preparing Future Faculty in the Professions” professional certificate program,
Virginia Commonwealth University. 2001-2003.

Postdoctoral Fellow, Strathclyde Institute of Pharmacy and Biomedical Sciences,
University of Strathclyde, Glasgow, UK - July-September 2006.

Postdoctoral Visiting Scientist, Department of Chemistry and Pharmaceutical
Sciences, Free University, Amsterdam, Netherlands - August 2009.

Teaching Experience

At VCU: Co-taught Pharmacy Skills Lab. (PCEU 518, PCEU 617).

At KSU:

B.S.:

- Fundamental organic chemistry for first year Pharmacy students (PHC 211)
- Medicinal Chemistry III (PHC 372)
- Introduction to Medicinal Chemistry (PHC 222).

Graduate:

- Bioorganic Reaction Mechanisms (PHC 511).
- Advanced Organic Reaction Mechanisms (PHC 512).
- Special Topics in Medicinal Chemistry (PHC 532).
- Toxicological Chemistry (PHC 534).
- Modern Advances in Separation Techniques (PHC 663).
- Stereochemical Aspects of Medicinal Chemistry (PHC 670).
- Structural Elucidation Techniques in Medicinal Chemistry (PHC 671).

- Heterocyclic Chemistry (PHC 673).

Professional Memberships

Member of the American Chemical Society. **1999**

Member of the American Society for Mass Spectrometry, **2005**.

Member of the American Association of Pharmaceutical Scientists. **2003**

Member of the Saudi Pharmaceutical Society. **2008**

Interests and Activities

I am a Computer Enthusiast; I have an experience in Molecular Modeling applications. I also enjoy reading in various areas.

Publications

1. **Kadi, A.**; Francioni-Proffitt, D.; Hindle, M.; Soine, W. "Evaluation of Basic Compounding Skills of Pharmacy Students". Am. J. Pharm. Educ., 69 (4), Article 69. **2005**.
1. **Kadi, A. A.**; El-Azab A. S; Alafeefy A. M.; Abdel-Hamide S.G. Synthesis and anti- convulsant activities of some new substituted 2 –mercapto-4-(3H)-quinazolinone. Az. J. Pharm. Sci, **2006**, 34.
3. El-Azab A. S; **Kadi, A. A**; Alafeefy A. M.; Abdel-Hamide S.G.Synthesis of some new quinazoline analog and their antimicrobial activity. Az. J. Pharm. Sci, **2006**, 34.
1. **Kadi, A. A.**; El-Brollosy, N. R.; Al-Deeb, O. A.; Habib, E. E.; Ibrahim, T. M.; El-Emam, A. A., Synthesis, antimicrobial, and anti-inflammatory activities of novel 2-(1-adamantyl)-5-substituted-1,3,4-oxadiazoles and 2-(1-adamantylamino)-5-substituted-1,3,4-thiadiazoles. Eur. J. Med. Chem. **2007**, 42, (2), 235-42.
1. **Kadi, A.**; Hefnawy, M. LC–MS in the Direct Characterization of Glucuronides from Biological Fluids. Encyclopedia of Chromatography, ed. by Jack Cazes, Elsevier, 8 (**2007**) 11–21.

6. Al-Mohizea, A. M.; **Kadi, A. A.**; Al-Bekairi, A. M.; Al-Balla, S. A.; Al-Yamani, M. J.; Al-Khamis, K. I.; Niazy, E. M.; El-Sayed, Y. M., Bioequivalence evaluation of 320 mg gemifloxacin tablets in healthy volunteers. *Int. J. Clin. Pharmacol. Ther.* **2007**, 45, (11), 617-22.
7. **Kadi, A. A.**; El-Kashef, H. A.; Abdel-Aziz, A. A.; Hassan, G. S.; Tettey, J.; Grant, M. H.; Lehmann, J.; El-Subbagh, H. I., Synthesis, ultra-short acting hypnotic activity, and metabolic profile of ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a] [1,3]diazepin-3-carboxylate (HIE-124). *Arch. Pharm. (Weinheim)* **2008**, 341, (2), 81-9.
8. El-Subbagh, H. I.; El-Kashef, H. A.; **Kadi, A. A.**; Abdel-Aziz, A. A.; Hassan, G. S.; Tettey, J.; Lehmann, J., New ultra-short acting hypnotic: synthesis, biological evaluation, and metabolic profile of ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a][1,3]diazepin-3-carboxylate (HIE-124). *Bioorg. Med. Chem. Lett.* **2008**, 18, (1), 72-7.
9. Alafeefy, A. M.; **Kadi, A. A.**; El-Azab, A. S.; Abdel-Hamide, S. G.; Daba, M. H., Synthesis, analgesic and anti-inflammatory evaluation of some new 3H-quinazolin-4-one derivatives. *Arch Pharm (Weinheim)* **2008**, 341, (6), 377-85.
10. Alafeefy A.M.; **Kadi, A. A.**, Al-Deeb, O. A.; El-Tahir K.E.H. ;Al-jaber N.A. Synthesis, analgesic and anti-inflammatory evaluation of some novel quinazoline derivatives. *Eur. J. Med. Chem.* **2010**, 45, (11), 4947-52.
11. **Kadi, A. A.** Synthesis and antimicrobial activity of some new quinazolin-4(3H)-one derivatives. *J. Saudi Chem. Soc.* **2010**, 15, (2), 95-100.
12. **Kadi, A. A.**; Al-Abdullah E.S.;Shehata I.A.; Habib E.E.; Ibrahim T.M.; El-Emam A.A. Synthesis, antimicrobial and anti-inflammatory activities of novel 5-(1-adamantyl)-1,3,4-thiadiazole derivatives. *Eur. J. Med. Chem.* **2010**, 45, 5006-5011.
13. Al-Hadiyaa B. M.; **Khady, A. A.**; E.Mostafa G. A. Validated liquid chromatographic- fluorescence method for the quantitation of gemifloxacin in human plasma. *Talanta*, **2010**, 83(1):110-6.
14. **Kadi A. A.**, Mohamed MS, Kassem MG, Darwish IA. A validated stability-indicating HPLC method for determination of varenicline in its bulk and tablets. *Chem Cent J.* **2011**, 5:30.

15. **Kadi A. A.**, Hefnawy M, Julkhuf S, Abounassif M, Mostafa G, Kassem MG, Attia S, Al-Ghamdi A. Sample stacking microemulsion electrokinetic capillary chromatography induced by reverse migrating pseudostationary phase for the quantification of phenobarbital and its p-hydroxyphenobarbital metabolite in rat urine. *Analyst*. **2011**, 136 (13):2858-65.
16. Aboul-Fadl T, Abdel-Aziz HA, **Kadi A. A.**, Bari A, Ahmad P, Al-Samani T, Ng SW. Microwave-assisted one-step synthesis of fenamic acid hydrazides from the corresponding acids. *Molecules*. **2011**, 16, (5), 3544-51.
17. Aboul-Fadl T, Abdel-Aziz HA, **Kadi A. A.**, Ahmad P, Elsaman T, Attwa MW, Darwish IA. Microwave-assisted solution-phase synthesis and DART-mass spectrometric monitoring of a combinatorial library of indolin-2,3-dione schiff bases with potential antimycobacterial activity. *Molecules*. **2011**, 16, (6), 5194-206.
18. Asiri YA, Al-Hadiya BM, **Kadi A. A.**, Al-Khamis KI, Mowafy HA, El-Sayed YM. Comparative bioavailability study of cefuroxime axetil (equivalent to 500 mg cefuroxime/tablet) tablets (Zednad® versus Zinnat®) in healthy male volunteers. *Int J Clin Pharmacol Ther*. **2011**; 49, (9), 571-6.
19. El-Subbagh HI, Hassan GS, El-Azab AS, Abdel-Aziz AA, **Kadi A. A.**, Al-Obaid AM, Al-Shabanah OA, Sayed-Ahmed MM. Synthesis and anticonvulsant activity of some new thiazolo[3,2-a][1,3]diazepine, benzo[d]thiazolo[5,2-a][12,6]diazepine and benzo[d]oxazolo[5,2-a][12,6]diazepine analogues. *Eur J Med Chem*. **2011**, 46, (11), 5567-72.
20. **Kadi A. A.**, Alanzi AM, El-Emam AA, Ng SW, Tiekink ER. N'-(Adamantan-2-yl idene)thio-phen-2-carbohydrazide. *Acta Crystallogr Sect E Struct Rep Online*. **2011**, 67, (Pt 11):o3127.
21. **Kadi A. A.**, Hefnawy M, Al-Majed A, Alonezi S, Asiri Y, Attia S, Abourashed E, El-Subbagh H. Liquid chromatographic high-throughput analysis of the new ultra-short acting hypnotic 'HIE-124' and its metabolite in mice serum using a monolithic silica column. *Analyst*. **2011**, 136(3):591-7.
22. Rahman AF, Ali R, Jahng Y, **Kadi A. A.** A Facile Solvent Free Claisen-Schmidt Reaction: Synthesis of α,α' -bis-(Substituted-benzylidene)cycloalkanones and α,α' -bis-(Substituted-alkylidene)cycloalkanones. *Molecules*. **2012**, 17(1):571-83.

23. El-Emam A. A., **Kadi A. A.**, El-Brollosy N. R., Ng S. W., Tiekink E. R. 2-(Adamantan-1-yl)-5-(4-nitro-phen-yl)-1,3,4-oxadiazole. Acta Crystallogr Sect E Struct Rep Online. **2012**, 68, (Pt 3):o795.
24. Alanazi A. M., **Kadi A. A.**, El-Emam A. A., Ng S. W. N'-[(1E)-(2,6-Difluorophen-yl)methyl-idene]thio-phen-2-carbohydrazide. Acta Crystallogr Sect E Struct Rep Online. **2012**, 68, (Pt 2):o315.