

Curriculum Vitae

Yazen M Alnouti

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Education

Ph.D. **2004**

Pharmacokinetics & Bioanalytical Chemistry

College of Pharmacy, University of Georgia

Bs.Pharm **2000**

Pharmacy

College of Pharmacy, Jordan University of Science and Technology

Experience

Research Assistant Professor **8/2005-Present**

Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center

Postdoctoral Fellow **9/2004-8/2005**

Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center

Co-op Fellow **2/2004-8/2004**

Global Research and Development, Pharmacokinetics-Dynamics and Drug Metabolism, Pfizer Inc

Summer Intern **6/2003-9/2003**

Global Research and Development, Pharmacokinetics-Dynamics and Drug Metabolism, Pfizer Inc

Teaching & Research Assistant **1/2001-8/2004**

College of Pharmacy, University of Georgia

Medical Representative **6/2000-1/2001**

Department of Scientific Marketing, Arab Pharmaceuticals Inc

Raw Material Analyst **2/2000-6/2000**

Department of Quality Control, Alhayat Pharmaceuticals Inc

Highlights of Research Interests

Pharmacokinetics

Characterizing the influence of drug-drug interaction on maternal/ fetal pharmacokinetics and placental transport profiles of antiviral drugs using compartmental and non-compartmental pharmacokinetic analysis.

Drug Metabolism and Disposition

Study the expressional regulation of cellular transporters involved in drug disposition, phase I and II metabolic enzymes and characterize their contribution to the pharmacokinetic, pharmacological and toxicological behavior of xenobiotics and endobiotics using In Vitro cell culture and In Vivo knock-out animal models.

Bioanalytical Chemistry

Qualitative and quantitative analysis of biologically active compounds in complex biological matrices using LC-MS, Capillary Electrophoresis and HPLC.

High-throughput Instrumental Analysis

The application of robotic on-line sample preparation and analysis systems for high-throughput support of ADME studies.

Toxicology

Study the molecular mechanisms by which transcription factors/nuclear receptors, transporters, phase I and II metabolic enzymes maintain the homeostasis of bile acids and their role in cholestatic liver diseases.

Analytical Techniques

Mass Spectrometry

Sciex API 4000, 3000, 2000, 365 and Micromass Quatro II, Ultima Premier XE ESI, APPI, and APCI Triple quadrupole mass spectrometers

HPLC

Agilent HP 1090, 1100, Waters, Beckman, CTC-PAL, and SHIMADZU HPLC systems

Capillary Electrophoresis

Beckman P/ACE 5000 CE system

Robotic On-line Sample Preparation

Symbiosis (Prospeket) on-line SPE and Cohesive turbo-flow sample preparation systems

Radio-Chemical analysis

Beckman LS 6500 Liquid Scintillation and on-line radio-chemical systems

RNA and Protein Analysis

Panomic Branched DNA Amplification (bDNA) and Protein Arrays for mRNA and protein quantification

Publications

1. **Yazen Al-Nouti** and Michael G Bartlett. Comparison of Local Anesthetic-Cyclodextrin Non-Covalent Complexes Using Capillary Electrophoresis and Electrospray Ionization Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*. Aug **2002**, 13 (8): 928-935.
2. **Yazen Alnouti**, Catherine A White and Michael G Bartlett. Determination of Lamivudine in Plasma, Amniotic Fluid and Rat Tissues by Liquid Chromatography. *Journal of Chromatography B*. Apr **2004**, 803 (2): 279-284.
3. **Yazen Alnouti**, Catherine A White and Michael G Bartlett. Simultaneous Quantitation of Zidovudine and Zidovudine Monophosphate from Plasma, Amniotic Fluid and Tissues by Micellar Capillary Electrophoresis. *Biomedical Chromatography*. Oct **2004**, 18 (8): 523-531.
4. **Yazen Alnouti**, Catherine A White and Michael G Bartlett. Simultaneous Determination of Zidovudine and Lamivudine from Rat Plasma, Amniotic Fluid and Tissues by HPLC. *Biomedical Chromatography*. Nov **2004**, 18 (9): 641-647.
5. **Yazen Alnouti**, Summer R Lewis, Catherine A White and Michael G Bartlett. Simultaneous Determination of Zidovudine and Lamivudine from Rat Tissues by liquid chromatography/ tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*. Jan **2005**, 19 (4): 503-508.
6. **Yazen Alnouti**, Karthik Srinivasan, David Waddell, Honggang Bi, Olga Kavetskaia and Arkady I Gusev. Development and Application of a New On-line SPE System Combined with LC-MS/MS Detection for High Throughput Direct Analysis of Pharmaceutical Compounds in Plasma. *Journal of Chromatography A*. Jul **2005**, 1080 (2): 99-106.
7. Ming Li, **Yazen Alnouti**, Rachael Leverence, Honggang Bi, Arkady I Gusev. Increase of the LC-MS/MS Sensitivity and Detection Limits Using On-line Sample Preparation with Large Volume Plasma Injection. *Journal of Chromatography B*. Oct **2005**, 825 (2): 152-160.
8. **Yazen Alnouti**, Ming Li, Olga Kavetskaia, Honggang Bi, Cornelius Hop and Arkady I. Gusev. Method for Internal Standard Introduction for Quantitative Analysis using On-line Solid-Phase Extraction LC-MS/MS. *Analytical Chemistry*. Feb **2006**, 78 (4): 1331-1336.
9. **Yazen Alnouti**, Jay S Petrick and Curtis D Klaassen. Tissue Distribution and Ontogeny of Organic Cation Transporters in Mice. *Drug Metabolism and Disposition*. Mar **2006**, 34 (3): 477-482
10. **Yazen Alnouti** and Curtis D Klaassen. Hepatic Developmental Changes and Tissue Distribution of Sulfotransferase Enzymes in Mice. *Toxicological Sciences*. Jun **2006**, 93 (2): 242-255.
11. **Alnouti, Yazen M.**; Shelby, Melinda K.; Chen, Chuan; Klaassen, Curtis D. Influence of Phenobarbital on Morphine Metabolism and Disposition: LC-MS/MS Determination of Morphine (M) and Morphine-3-Glucuronide (M3G) in Wistar-Kyoto Rat Serum, Bile, and Urine. *Current Drug Metabolism*. Jan **2007**, 8 (1): 79-89.
12. Xiaoxia Yang, **Yazen Alnouti**, Yu-Jui Yvonne Wan. Identification and Quantification of Endogenous Retinoids using High Performance Liquid Chromatography-Mass Spectrometry. *Biochemical Journal* "Submitted"
13. S.R. Lewis, **Y. Alnouti**, S.D. Brown, M.G. Bartlett and C.A. White. Comparative Pharmacokinetics of Intravenous Lamivudine, Zidovudine and Lamivudine / Zidovudine Therapies in the Pregnant Rat. *Antimicrobial Agents and Chemotherapy* "Submitted"

14. S.R. Lewis, **Y. Alnouti**, M.G. Bartlett and C.A. White. Maternal-Fetal Pharmacokinetics of Intravenous Lamivudine in Pregnant Rats. *Journal of Pharmaceutical Sciences* "Submitted"
15. **Yazen Alnouti** and Curtis D Klaassen. Regulation of Sulfotransferase Enzymes by Prototypical Microsomal Enzyme Inducers in Mice. *Journal of Pharmacology and Experimental Therapeutics* "Submitted"
16. Mindy K Shelby, **Yazen Alnouti**, Chuan Chen, and Curtis D Klaassen. Effects of Phenobarbital Administration on Morphine Pharmacokinetics in Wistar Kyoto Rats: Elimination of Gender Differences. "In Preparation"
17. **Yazen Alnouti** and Curtis D Klaassen. Detailed Profiling of Bile Acids and their Metabolites in Mouse Tissues and Fluids using UPLC-Tandem Mass Spectrometry. *Hepatology* "In Preparation"

Presentations

- Non-Covalent Complexes in the Gas Phase. *University of Georgia, Athens-Georgia, January 2002.*
- Comparison of Cyclodextrin Non-Covalent Complexes Using Capillary Electrophoresis and Electrospray Ionization Mass Spectrometry. *American Society of Mass Spectrometry meeting, Orlando-Florida, June 2002.*
- Evaluation of On-line and Off-line SPE for Rapid Method Development and High Throughput Analysis of Biological Sample. *Pfizer Inc, Groton-Connecticut, August 2003.*
- Determination of Lamivudine in Rat Tissue by HPLC-UV. *American Association of Pharmaceutical Scientists meeting, Salt Lake City-Utah, October 2003.*
- Simultaneous Determination of AZT and 3TC in Pregnant Rat Tissues Using LC-MS. *American Society of Mass Spectrometry meeting, Nashville-Tennessee, May 2004.*
- Development of combined on-line SPE and Monolithic Column LC-MS Methods for Bioanalytical Support. *American Society of Mass Spectrometry meeting, Nashville-Tennessee, May 2004.*
- Organic Cation Transporters (Octs). Postdoctoral Fellows day, *University of Kansas Medical Center, Kansas City-Kansas, December 2004.*
- Tissue Distribution and Ontogeny of Organic Cation Transporters (Octs) in Mice. *Society of Toxicology meeting, New Orleans-Louisiana, March 2005.*
- Tissue Distribution and Ontogeny of Organic Cation Transporters (Octs) in Mice. *Society of Toxicology, Central States Chapter meeting, Ames-Iowa, September 2005.*
- Aldehyde Dehydrogenases (ALDHs): Regulation by Prototypical Microsomal Inducers in Mice. *International Society for the Study of Xenobiotics meeting, Maui-Hawaii, October 2005.*
- Expressional Regulation of Sulfotransferase Enzymes (Sults) by Microsomal Enzyme Inducers (MEIs) in Mice. *Society of Toxicology Meeting, San Diego-California, March 2006.*
- Influence of Phenobarbital on Morphine Metabolism and Diposition. *International Society for the Study of Xenobiotics meeting, Rio Grande-Puerto Rico, October 2006.*
- The Exponential Power of LC-MS in Biomedical and Pharmaceutical Research. *University of Kansas Medical Center, Kansas City-Kansas, May 2007.*