

## SCIENTIST-DRUG METABOLISM AND PHARMACOKINETICS

### Professional Overview

Pre-clinical pharmaceutical scientist seeking new opportunities. Strong experience in PK and ADME animal studies. Some experience with in vitro and analytical methods.

### Education

Bachelor of Science : Animal and Dairy Science 1994 Pennsylvania State University City , State

### Professional Experience

Scientist-Drug Metabolism and Pharmacokinetics 06/2003 to Current

Genentech Indiana , PA

- Responsible scientist/study director for in vivo studies to determine the absorption, distribution, metabolism and excretion of drug candidates such as isolated perfused rat liver metabolism (IPRL), excretion/mass balance in rodents and pharmacokinetic studies.
- Responsible for designing, executing, analyzing, documenting and reporting results of preclinical studies to support the registration of drug candidates, with minimal supervision.
- This includes the use of radioactivity, preparing tissues for analysis (homogenization techniques), analyzing samples using a Perkin Elmer oxidizer and scintillation counter, performing basic noncompartmental analysis using WinNonlin software and the basic ability to run established LC/MS/MS (Analyst) and HPLC/radio-detector (Chemstation/Laura) methods with support.
- Maintained accurate study data and records and ensured compliance with GLP regulations and other corporate policies and presented results at departmental and other internal meetings, and document findings in company reports.
- Assisted in the advancement of in vitro and in vivo models/sciences to support projects within DMPK.
- Effectively communicated to staff and management on all aspects of work and issues related to programs/projects.
- Principal investigator for all department IACUC animal use protocols as well as an authorized controlled substance user.
- Principal investigator responsible for all the radioactive material inventory and use.
- Responsible scientist for overseeing outsourced ADME studies.

Surgeon 08/2001 to 07/2003

Department Of The Air Force San Antonio , TX

- Surgeon performing surgeries on rats, mice and guinea pigs.
- Proficient at catheterization of the jugular vein, carotid artery, femoral artery, femoral vein and portal vein in rats; catheterization of the jugular vein and carotid artery in mice; castrations, ovariectomies, vasectomies, splenectomies, nephrectomies, adrectomies in rats and mice.
- Preparation of catheters for surgical catheterizations.
- Proficient at necropsy, perfusions, and terminal blood collection.

Executive Assistant 12/2000 to 07/2001

American Well Boston , MA

- Executive assistant providing direct support for Deputy Director of IT.
- Maintained IT Director's calendar, correspondence, files and updated organograms.
- Interacted frequently with Executive Director and support staff.
- Used Outlook, Word, Excel and Visio for maintenance of agency documents and correspondence.

Administrative Assistant 01/1999 to 11/2000

Psi Pax Baltimore , MD

- Administrative assistant providing direct support for Director of CPS, division administrators and staff.
- Created and maintained agency documents and correspondence using Word, Excel and Power Point.
- Provided general computer/software/printer troubleshooting support for staff.
- Developed database for tracking and routing of agency correspondence with Microsoft Access.

Veterinary Technician 01/1997 to 11/1998

Banfield Pet Hospital Allen , TX

- Veterinary technician providing direct support to customers and veterinarians.
- Assisted veterinarians in surgery, examination, and vaccination of pets.
- Collected and analyzed blood, prepped animals prior to surgery, and monitored anesthesia during surgery.

Research Associate 05/1996 to 12/1996

Exact Sciences Sacramento , CA

• Part-time surgical consultant (June 1995) until hire date.

• Performed all in vivo procedures including rat surgeries, blood collection and dosing.

• Performed ELISA assays with developed methods.

• Conducted stability and degradation studies of protein compounds.

• Performed some data entry and analysis of experiments.

Research Associate 11/1994 to 05/1996

Exact Sciences San Antonio , TX

- Responsible for all animals and in vivo studies conducted.
- Performed all pharmacokinetic studies including cannula implantation, dosing (oral and intravenous), and blood and/or tissue sample collection.
- Analyzed samples using Waters HPLC instruments with developed methods.
- Analyzed and presented data using Excel.
- Authored several Standard Operating Procedures (SOP's) for the company.

Animal Laboratory Technician III 07/1994 to 10/1994

Gap Solutions, Inc Fort Polk , LA

Facility manager responsible for over 10,000 research rodents used by medical, dental, and pharmaceutical researchers.

Designated work, trained staff, monitored performance, ordered feed, bedding and other supplies, and general facility maintenance.

Supervised 5 junior technicians.

Laboratory Animal Technician 12/1993 to 06/1994

Midlantic Bio-Research City , STATE

Animal technician conducting GLP toxicology studies.

Dosed animals (oral, intravenous, intraperitoneal, intramuscular or subcutaneous); collected blood (tail vein, jugular vein, or orbital sinus); euthanized animals and performed necropsies for tissue histological evaluations. Edited and formatted project reports using Excel.

Assistant Information Specialist 07/1992 to 01/1993

Animal Welfare Information Center AWIC USDA, National Agricultural Library City , STATE

- Filled reference requests related to laboratory and farm animal care laws and regulations for the Office of the Secretary of Agriculture, Congressional staff, researchers, farmers, extension agents, educators, veterinarians, librarians technicians, students and the general public.
- Prepared and edited Quick Bibliographies and Special Reference Briefs on animal models in biomedical research.
- Updated AWIC files and animal welfare publications.

#### Publications

Joseph W. Polli, Joan E. Humphreys, Kelly A. Harmon, Stephen Castellino, Michael J O'Mara, Katie L Olson, Lisa A St. John-Williams, Kevin M Koch, and Cosette J Serabjit-Singh, The Role of Efflux and Uptake Transporters in Lapatinib (Tykerb, GW572016) Disposition and Drug Interactions. Drug Metab. Dispos. 2008;dmd.107.018374v1

Joseph W. Polli, Katie L. Olson, John P. Chism, Lisa St. John-Williams, Russell L. Yeager, Sesha M. Woodard, Vicky Otto, Stephen Castellino, and Victoria E. Denby, An Unexpected Synergist Role of P-Glycoprotein and Breast Cancer Resistance Protein on the Central Nervous System Penetration of the Tyrosine Kinase Inhibitor Lapatinib (N- {3-Chloro-4-[(3-fluorobenzyl)oxy]phenyl} -6-[5-({2-(methylsulfonyl)ethyl}amino) methyl]-2-furyl]-4-quinazolinamine; GW572016) Drug Metab. Dispos. 2009 37: 439-442.

Mark de Serres, Gary Bowers, Gary Boyle, Claire Beaumont, Steve Castellino, James Sigafos, Mehul Dave, Andrew Roberts, Vishal Shah, Katie Olson, Dipak Patel, David Wagner, Russell Yeager, Cosette Serabjit-Singh Evaluation of a chimeric (uPA+/+)/SCID mouse model with a humanized liver for prediction of human metabolism. Xenobiotica June 2011, Vol. 41, No. 6 , Pages 464-475.

Lee Moss, David Wagner, Eri Kanaoka, Katie Olson, Yun Lan Yueh, Gary D Bowers The comparative disposition and metabolism of dolutegravir, a potent HIV-1 integrase inhibitor, in mice, rats, and monkeys. Xenobiotica 2014 Jul 18;1-11. Page 1 of 3 Rev. 31MAR04

#### Memberships and Affiliations

American Association for Laboratory Animal Science (AALAS) Gold Member Since 2005

#### Skills

Phoenix WinNonlin, Analyst, Laura, Chemstation, GLP, HPLC, Microsoft Access, Excel, Office, Outlook, Power Point, Word, GLP, GCP, SOP