
Julie Brumer Dumond, PharmD, MS, BCPS, AAHIVP

UNC Eshelman School of Pharmacy
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Durham, NC 27713

Current Position

August 2013 to present *Assistant Professor*
UNC Eshelman School of Pharmacy, Chapel Hill, NC
Division of Pharmacotherapy and Experimental Therapeutics
Mentee, Bill and Karen Campbell Faculty Mentoring Program
July 2009 to present *Director*, Pharmacometrics Core
Pharmacometrician, UNC Center for AIDS Research Clinical
Pharmacology and Analytical Chemistry Core

Training and Education

August 2010 to May 2012 *Masters of Science*, Pharmaceutical Sciences (Pharmacometrics)
State University of New York, University at Buffalo, Buffalo, NY
Research Advisor: Alan Forrest, PharmD
July 2005 to July 2007 *HIV Pharmacology Fellow (ACCP-Accredited)*
University of North Carolina at Chapel Hill School of Pharmacy
Division of Pharmacotherapy and Experimental Therapeutics
Program Director: Angela D.M. Kashuba, BScPhm, PharmD, DABCP
July 2004 to June 2005 *Pharmacy Practice Resident (ASHP-Accredited)*
Borgess Medical Center, Kalamazoo, MI
Program Director: Philip Early, PharmD, MS
September 2000 to May 2004 *Doctor of Pharmacy with Highest Distinction*
University of Michigan, Ann Arbor, MI
August 1996 to May 2000 *Bachelor of Science with Honor*
Lyman Briggs School Physical Science
Michigan State University, East Lansing, MI

Prior Academic Appointments

May 2009 to July 2013 *Research Assistant Professor*
UNC Eshelman School of Pharmacy, Chapel Hill, NC
Division of Pharmacotherapy and Experimental Therapeutics
August 2007 to April 2009 *Assistant Professor*
Bill Gatton College of Pharmacy, East Tennessee State University
Department of Pharmacy Practice, Johnson City, TN
July 2005 to June 2007 *Clinical Instructor*
University of North Carolina School of Pharmacy, Chapel Hill, NC

August 2004 to June 2005 *Clinical Adjunct Instructor*
Ferris State University College of Pharmacy, Kalamazoo, MI

Professional Experience

May 2009 to July 2010 *Infectious Diseases Clinic Pharmacist*
University of North Carolina Healthcare, Chapel Hill, NC

May 2008 to April 2009 *Clinic Pharmacist*
ETSU HIV/AIDS Center of Excellence, Johnson City, TN

August 2005 to June 2007 *Infectious Diseases Clinic Pharmacist*
University of North Carolina Healthcare, Chapel Hill, NC

Ongoing Research

March 2011 to present *K23 AI093156: Optimizing Antiretroviral Use in Aging:
Pharmacokinetics, Response, and Toxicity*
Role: Principal Investigator
National Institute of Allergy and Infectious Diseases
75% effort x 5 years

November 2010 to present *A 5-year Randomized Study to Compare Levonorgestrel Serum
Concentrations and Clinical Performance of Sino-Implant (II) and
Jadelle, Family Health International Study 10242*
PI: Verna Halpern, MD (FHI)
Role: Pharmacokineticist (Consultant)
Bill and Melinda Gates Foundation

Completed Research

September 2012 to June 2013 *Pharmacokinetics, pharmacodynamics, and genital tract viral
shedding in HIV+ women using combined oral contraceptives and
raltegravir*
PI: Gretchen Stuart, MD
Role: Co-Investigator
Merck Investigator-Initiated Study
10% effort x 2 years

September 2011 to March 2013 *GSK 572 Pharmacokinetics in Blood Plasma, Cervicovaginal Fluid,
Vaginal Tissue, and Cervical Tissue in HIV-negative Volunteers*
*GSK 572 Pharmacokinetics in Blood Plasma, Semen, Rectal Fluid,
and Rectal Tissue in HIV-negative Volunteers*
PI: Kristine Patterson, MD
Role: Co-Investigator
GlaxoSmithKline Investigator-Initiated Studies

July 2011 to January 2013 *Truvada for Prevention of HIV in Women (FEM-PrEP) Pharmacology
Sub-Contract*
PI: Angela Kashuba, BScPhm, PharmD, DABCP
Role: Investigator
Family Health International/USAID

July 2011 to January 2013	<p><i>U01-AI095031-01: Preventing HIV Infection in Women: Targeting Antiretrovirals to Mucosal Tissues</i> PI: Angela D.M. Kashuba, BScPhm, PharmD, DABCP Role: Investigator National Institute of Allergy and Infectious Diseases</p>
September 2009 to August 2011	<p><i>Extracellular and Intracellular Atripla (Tenofovir/Emtricitabine/Efavirenz) Pharmacokinetics in the Aging HIV Infected Population</i> Role: Principal Investigator Society of Infectious Diseases Pharmacists NC TraCS Institute \$50K Pilot Grant Program</p>
October 2009 to August 2011	<p><i>Development and Validation of a Multiplex Mass Spectrometry Assay for Antimicrobials in Premature Infants</i> PI: Angela Kashuba, PharmD Role: Collaborator (Pharmacometrics Core) NC TraCS Institute \$10K Award</p>
May 2008 to May 2009	<p><i>Evaluation of the Use of Standardized Patients and Medical School Instruction in a Physical Assessment Course for Pharmacy Students</i> Role: Principle Investigator</p>
May 2008 to May 2009	<p><i>A Randomized Study on the Use of Human Patient Simulation to Teach Clinical Skills in a Pharmacy Curriculum</i> PI: Freddy Creekmore, PharmD, BCPS Role: Co-Investigator</p>
May 2008 to May 2009	<p><i>Assessing the Impact of an Introduction to Pharmacotherapy Course on Learning in the Pharmacotherapy Series in a College of Pharmacy</i> PI: Freddy Creekmore, PharmD, BCPS Role: Co-Investigator</p>
January 2007 to July 2007	<p><i>The Effect of Pregnancy on the Pharmacokinetics of Kaletra® (lopinavir/ritonavir) Tablets: A Longitudinal Investigation in the Second and Third Trimesters Including Empiric Dosage Adjustment</i> PIs: ADM Kashuba and KB Patterson Role: Co-Investigator Abbott Virology, Abbott Park, IL</p>
November 2006 to July 2007	<p><i>A Phase I, Open Label, Study in Healthy Female Subjects to Investigate the Extent of Maraviroc Exposure in Blood, Cervicovaginal Fluid, and Vaginal Tissue Following Single and Multiple Dosing of Maraviroc</i> PI: ADM Kashuba Role: Co-Investigator Pfizer, Inc., New York, NY</p>
July 2006 to June 2007	<p>ACCP/OrthoMcNeil Infectious Diseases Fellowship Mentor: ADM Kashuba Role: Supported Fellow American College of Clinical Pharmacy and Ortho-McNeil</p>

January 2006 to June
2007

Evaluating the Effects of Tipranavir (with Ritonavir) Capsule and Liquid Formulation on Cytochrome P450 and P-Glycoprotein Activity Using a Biomarker Cocktail in Healthy Volunteers
PI: ADM Kashuba
Role: Co-Investigator
Boehringer-Ingelheim Pharmaceuticals, Inc, Ridgefield, CT

Publications

Greener BN, Patterson KB, Prince HM, Sykes CS, Adams JL, **Dumond JB**, Shaheen NJ, Madanick RD, Dellon ES, Cohen MS, Kashuba AD. Dolutegravir pharmacokinetics in the genital tract and colorectum of HIV-negative men after single and multiple dosing. *J Acquir Immune Defic Syndr*. 2013;64:39-44.

Adams JL, Patterson KB, Prince HM, Sykes C, Greener BN, **Dumond JB**, Kashuba AD. Single and multiple dose pharmacokinetics of dolutegravir in the genital tract of HIV-negative women. *Antivir Ther.*; *Antivir Ther*. 2014;18(8):1005-13. Epub 2013 Jul 31.

Dumond JB, Adams JL, Prince HMA, Kendrick RL, Wang R, Jennings SH, Malone S, White N, Sykes C, Corbett AH, Patterson KB, Forrest A, Kashuba ADM. Pharmacokinetics of Two Common Antiretroviral Regimens in Older HIV-Infected Patients: A Pilot Study. *HIV Medicine* 2013; 14:401-9. Epub 2013 Feb 24.

Patterson KB, **Dumond JB**, Prince HA, Jenkins AJ, Scarsi KK, Wang R, Malone S, Hudgens MG, Kashuba AD. Protein Binding of Lopinavir and Ritonavir During Four Phases of Pregnancy: Implications for Treatment Guidelines. *J Acquir Immune Defic Syndr*. 2013 ;63:51-8. Epub 2012 Dec 6.

Wohl DA, **Dumond JB**, Blevins S, Pittard D, Ragan D, Wang R, Massengale K, Walsh K, Floris-Moore M, Eron JJ Jr, Richardson A, Hudgens M, Kashuba AD. Raltegravir Pharmacokinetics in Treatment-Naïve Patients is not influenced by Race: Results from the Raltegravir Early Therapy in African-Americans Living with HIV (REAL) Study. *Antimicrob Agents Chemother*. 2013 Feb; 57:784-8. Epub 2012 Nov 26.

Dumond JB, Nicol MR, Kendrick RN, Garonzik SM, Patterson KB, Cohen MS, Forrest A, Kashuba ADM. Pharmacokinetic Modelling of Efavirenz, Atazanavir, Lamivudine, and Tenofovir in the Female Genital Tract of HIV-Infected Pre-Menopausal Women. *Clin Pharmacokinet*. 2012; 51:809-22.

Geller EJ, Crane AK, Wells EC, Robinson BL, Jannelli ML, Khandelwal CM, Connolly A, Parnell BA, Matthews CA, **Dumond JB**, Busby-Whitehead J. Effect of anticholinergic use for the treatment of overactive bladder on cognitive function in postmenopausal women. *Clin Drug Investig*. 2012; 32:697-705.

Kashuba AD, Patterson KB, **Dumond JB**, Cohen MS. Pre-exposure prophylaxis for HIV prevention: how to predict success. *Lancet* 2012; 379(9835):2409-11; [Epub ahead of print, Dec. 6, 2011]

Kwara A, Tashima K, **Dumond J**, Poethke P, Kurpewski J, Kashuba A, Court MH, Greenblatt DH. Modest but Variable Effect of Rifampin on Steady-State Plasma Pharmacokinetics of Efavirenz in Healthy African-American and Caucasian Volunteers. *Antimicrob Agents Chemo* 2011;55(7):3527-33. Epub 2011 Apr 25.

Brown KC, Patterson KB, Malone SA, Shaheen NJ, Prince HMA, **Dumond JB**, Spacek M, Heidt PE, Cohen MS, and Kashuba ADM. Single and Multiple Dose Pharmacokinetics of Maraviroc in Saliva, Semen, and Rectal Tissue of Healthy HIV-Negative Men. *J Infect Dis*; 2011;203:1484-90.

Dumond JB, Vourvahis M, Rezk NL, Patterson KB, Tien H, White N, Jennings S, Choi SO, Li J, Wagner MJ, La I, Drulak M, Sabo JP, Castles MA, MacGregor TR, Kashuba ADM. A Phenotype-Genotype Approach to Predicting CYP450 and P-glycoprotein Drug Interactions with the Mixed Inhibitor/Inducer Tipranavir/ritonavir. *Clinical Pharmacol Ther* 2010; 87:735-42.

Dumond JB, Patterson KB, Pecha AL, Werner RE, Andrews E, Damle B, Tressler R, Worsley J, Kashuba ADM. Maraviroc Concentrates in Cervicovaginal Fluid and Vaginal Tissue of HIV Negative Women. *J Acquir Immune Defic Syndr*. 2009; 51:546-553.

Yeh RF, Rezk NL, Kashuba ADM, **Dumond JB**, Tappouni HL, Tien H, Chen Y, Vourvahis M, Horton AL, Fiscus SA, Patterson KB. Genital Tract, Cord Blood, and Amniotic Fluid Exposures of 6 Antiretroviral Drugs During Pregnancy and Postpartum. *Antimicrob Agents Chemo* 2009; 53:2367-2374.

Dumond JB, Reddy YS, Troiani L, Rodriguez JF, Bridges AS, Fiscus SA, Yuen GJ, Cohen MS, Kashuba AD. Differential Extracellular and Intracellular Concentrations of Zidovudine and Lamivudine In Semen and Plasma of HIV-1 Infected Men. *J Acquir Immune Defic Syndr*. 2008; 48:156-162.

Dumond JB, Yeh RF, Patterson KB, Corbett AH, Jung BH, Rezk NL, Bridges AS, Stewart PW, Cohen MS, Kashuba ADM. Antiretroviral Drug Exposure in the Female Genital Tract: Implications for Oral Pre- and Post-Exposure Prophylaxis. *AIDS* 2007; 21: 1899-1907.

Shedden K, **Brumer J**, Chang YT, and Rosania GR. Chemoinformatic Analysis of a Supertargeted Combinatorial Library of Styryl Molecules. *J Chem Info Comput Sci* 2003; 43, 2068-2080.

Publications (Non-Peer Reviewed)

Dumond JB, Roland M, and Kashuba ADM. Understanding Primary and Secondary HIV Prophylaxis – Part I: Non-occupational Post-Exposure Prophylaxis and Antiretroviral Pharmacokinetics in the Male and Female Genital Tract. *The PRN Notebook* 2006; 11(2):10-16.

Dumond JB. Eating Disorders: Focus on Pharmacotherapy. *Michigan Pharmacist* 2004;42(2): 48-56.

Book Chapters

Adams JA, **Dumond JB** and Kashuba ADM. *Human Immunodeficiency Virus Infection*. In: Koda-Kimble MA, Young LY, Kradjan WA et al., eds. Applied Therapeutics: The Clinical Use of Drugs. 9th ed. Lippincott Williams and Wilkins, 2008. In Revision: 10th ed. Lippincott Williams and Wilkins, 2011.

Corbett A, Yeh R, **Dumond J**, and Kashuba ADM. *Human Immunodeficiency Virus Infection*. In: Chisholm-Burns MA, Wells BG, Schwinghammer TL, et al, eds. Pharmacotherapy Principles and Practice. 1st ed. New York City: MacGraw-Hill, 2008. Revised: 2nd ed. New York City: MacGraw-Hill, 2010. Revised: 3rd ed. New York City: MacGraw-Hill, 2012.

Abstracts

Greener BN, Adams JL, Patterson KB, Prince HMA, Sykes C, Wai M, **Dumond JB**, Shaheen N, Cohen MS, Kashuba ADM. Single and Multiple Dose Dolutegravir (DTG) Pharmacokinetics (PK) in the Genital Tract (GT) and Colorectum of HIV Negative Men and Women. 20th Conference on Retroviruses and Opportunistic Infections, March 2013. Abstract J-138.

Dumond JB, Adams JA, Prince HMA, Kendrick RN, White N, Sykes C, Corbett AH, Patterson KB, Forrest A, Kashuba AD. Tenofovir Diphosphate (TFV-DP) and Emtricitabine Triphosphate (FTC-TP) Pharmacokinetics (PK) in Older HIV+ Patients. 13th International Workshop on the Clinical Pharmacology of HIV Infection. April 2012. Abstract P_25.

Dumond JB, Nicol MR, Kendrick RN, Garonzik SM, Patterson KB, Cohen MS, Forrest A, Kashuba ADM. Pharmacokinetic Modelling of Efavirenz, Atazanavir, Lamivudine, and Tenofovir in the Female Genital Tract of HIV-Infected Pre-Menopausal Women. 13th International Workshop on the Clinical Pharmacology of HIV Infection. April 2012. Abstract O_14. (*Platform Presentation*)

Dumond JB, Adams JL, Prince HMA, Kendrick R, Wang R, Jennings S, Malone S, Corbett AH, Patterson KB, Forrest A, Kashuba ADM. Pharmacokinetics of Two Common Antiretroviral Regimens in Older HIV-Infected Patients: A Pilot Study. 2nd International Workshop on HIV and Aging. October 2011. Abstract O_12. (*Platform Presentation*)

Patterson KB, **Dumond JB**, Prince HA, Jenkins A, Scarsci K, Wang R, Malone S, Hudgens MB, Kashuba ADM. Pharmacokinetics (PK) of the Lopinavir/Ritonavir (LPV/r) Tablet in HIV-infected Pregnant Women: A Longitudinal Investigation of Protein Bound and Unbound Drug Exposure With Empiric Dosage Adjustment. 18th Conference on Retroviruses and Opportunistic Infections, February 2011. Abstract 645.

Patterson KB, **Dumond JB**, Prince HA, Kraft E, Eron JJ, Kashuba ADM. Pharmacokinetics (PK) of Tenofovir (TFV) Disoproxil Fumarate (TDF) in Blood Plasma (BP) and Cervicovaginal Fluid (CVF) of HIV-infected Post-menopausal Women (PMW) Compared with Pre-menopausal Women (Pre-MW). 18th Conference on Retroviruses and Opportunistic Infections, February 2011. Abstract 32 (*Platform Presentation, KB Patterson*)

Kendrick RN, **Dumond JB**, Forrest A, Cohen MS, Kashuba ADM. Pharmacokinetic Model for Zidovudine and Lamivudine and their Intracellular Metabolites in Blood and Semen. 50th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 2010. Abstract A1-2106.

Kwara A, Tashima K, **Dumond J**, Poethke P, Kurpewski J, Kashuba A, Court MH, Greenblatt DH. Effect of Rifampin on Efavirenz Pharmacokinetics. Poster 066. American College of Clinical Pharmacology 39th Annual Meeting, September 2010.

Wohl D, **Dumond J**, Blevins S, Pittard D, Ragan D, Wang R, Carpenter K, Floris-Moore M, Eron J, Kashuba A. Raltegravir Pharmacokinetics in Treatment Nave Patients is Not Influenced by Race: PK Results from the Early Therapy in African-Americans Living with HIV Study. Abstract 16042. XVIII International AIDS Conference. July 2010.

Brown KC, Patterson KB, Malone SA, Shaheen NJ, Prince HMA, **Dumond JB**, Spacek M, Heidt PE, Cohen MS, and Kashuba ADM. Antiretrovirals (ARVs) for Prevention: Maraviroc (MVC) Exposure in the Semen (SE) and Rectal Tissue (RT) of Healthy Male Volunteers after Single and Multiple Dosing. 17th Conference on Retroviruses and Opportunistic Infections, February 2010. (*Platform Presentation, KC Brown*)

Dumond JB, Patterson KB, Pecha A, et al. Maraviroc Pharmacokinetics in Blood Plasma, Genital Tract Fluid and Tissue in Healthy Female Volunteers. Abstract 135LB. 15th Conference on Retroviruses and Opportunistic Infections, February 2008. (*Platform Presentation, KB Patterson*)

Vourvahis M, **Dumond J**, Patterson KB et al. Effects of Tipranavir/ritonavir on the Activity of Cytochrome P450 Enzymes 1A2, 2C9, and 2D6 in Healthy Volunteers. 8th International Workshop on Clinical Pharmacology of HIV Therapy, April 2007. (*Platform Presentation, M Vourvahis*)

Vourvahis M, **Dumond J**, Patterson KB et al. Effects of Tipranavir/ritonavir on the Activity of Hepatic and Intestinal Cytochrome P450 3A4/5 and P-glycoprotein: Implications for Drug Interactions. Abstract L-150. 14th Conference on Retroviruses and Opportunistic Infections (CROI), February 2007.

Yeh RF, Patterson KB, **Dumond JB** et al. Genital Tract, Cord Blood, and Amniotic Fluid Exposures of 6 Antiretroviral Drugs During Pregnancy and Postpartum. Abstract 888 (A-0378). 46th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 2006.

Dumond J, Yeh R, Patterson K et al. First Dose and Steady-state Genital Tract Pharmacokinetics of Ten Antiretroviral Drugs in HIV-infected Women: Implications for Pre- and Post- Exposure Prophylaxis. UNC Women's Health Research Day, April 2006. (*Platform Presentation*)

Dumond J, Yeh R, Patterson K et al. First Dose and Steady-state Genital Tract Pharmacokinetics of Ten Antiretroviral Drugs in HIV-infected Women: Implications for Pre- and Post- Exposure Prophylaxis. Abstract T-119. 13th CROI. February 2006. (*Platform Presentation*)

Dumond JB, Bickel RJ, and Klepser ME. Evaluation of Vancomycin Tolerance in Blood Isolates of Methicillin-Resistant *Staphylococcus aureus* (MRSA): Prevalence, Susceptibility Patterns and Clinical Outcomes. Poster RP-304. 2004 ASHP Midyear Clinical Meeting.

Shedden K, **Brumer J**, and Rosania G. A Library Approach to the Discovery of Subcellular Localization Signals Encoded in the Chemical Structure of Small Molecules. Poster M1091. American Association of Pharmaceutical Sciences Meeting, 2003.

Selected Presentations

- June 2012 Mucosal Pharmacology for Microbicides
NIH/NIAID/DAIDS Mucosal Responses in the Context of Combined Prevention Strategies Workshop
Rockville, MD
- January 2012 HIV and the Aging Population
NC TraCS Institute Clinical Translation Research Center
Continuing Education Seminar, Chapel Hill, NC
- December 2010 Pharmacokinetics Networking Session
ASHP Midyear Clinical Meeting, Anaheim, CA
- December 2009 Clinical Pearl: Preventing Medication Errors in Hospitalized HIV-Infected Patients
ASHP Midyear Clinical Meeting, Las Vegas, NV
- December 2009 Infectious Diseases/Pharmacokinetics Networking Session
ASHP Midyear Clinical Meeting, Las Vegas, NV
- May 2008 HIV Update: DHHS Guidelines and Newer Agents
ACPE-Accredited Continuing Education Program
First District Pharmaceutical Association, Johnson City, TN
- March 2007 Antiretroviral Pharmacokinetics in the Female Genital Tract
East Tennessee State University, Johnson City, TN
- November 2006 Phenotyping with Midazolam and Digoxin Explains Unpredictable Drug Interactions of Tipranavir/ritonavir.
Division of Pharmacotherapy and Experimental Therapeutics Seminar
School of Pharmacy, University of North Carolina at Chapel Hill
- April 2005 Evaluation of Vancomycin Tolerance in Blood Isolates of Methicillin-Resistant *Staphylococcus aureus* (MRSA).
Great Lakes Pharmacy Residents Conference, West Lafayette, IN
- December 2004 Migraine Prevention and Treatment.
Co-presented to Family Practice medical residents at the Kalamazoo Center for Medical Studies (KCMS), Kalamazoo, MI

November 2004 New Targets in Chemotherapy: A Biotechnology Drug Update.
ACPE-Accredited Continuing Education Program.
Presented to pharmacy staff at Borgess Medical Center, Kalamazoo, MI

June 2004 Cystic Fibrosis: Focus on Pulmonary Management.
ACPE-Accredited Continuing Education Program.
Presented to pharmacy staff at Sparrow Hospital, Lansing, MI

Teaching Experience

Spring Semester 2014 DPET 856: Advanced Pharmacokinetics and Pharmacodynamics
Course Director
Lectures: Kinetics of Response, Effect Compartment Modeling,
Indirect Response Models, Mechanistic Pharmacodynamics

Fall Semester 2013, Fall Semester 2011 DPET 855 Principles of Pharmacokinetics
Lectures: Theory and Application of Nonlinear Regression,
Noncompartmental Analysis, Pharmacodynamics Overview
Immunization Training (3 hrs x 1 session)
MS2 Pharmacology Group Leader, Basic Pharmacology and
Respiratory/Infectious Diseases
PHCY 405 Recitation Leader, HIV Infection
PHCY 413: Hepatic Clearance

Fall Semester 2012 DPET 900: Translational Research Journal Club, Co-Course Director
Immunization Training (2hrs)
PHCY 405 Recitation Leader: Otitis Media, HIV Infection (4 hrs)

Spring Semester 2012 DPET 856: Advanced Pharmacokinetics and Pharmacodynamics
Lectures: Kinetics of Response, Effect Compartment Modeling,
Indirect Response Models, Mechanistic Pharmacodynamics
DPET 810 HIV and the Aging Patient Lecture

Spring Semester 2010 PHCY 404 Recitation Leader (1 hr x 4 sessions)
DPET 810 Drug-Drug Interactions Lecture (1hr)
PHCY 450 substitute faculty leader (~2 hours x 5 sessions)

Fall Semester 2009 Organisms and Antibiotics Review and Case Sessions for Medical
Students, May 2009
Immunization Training, Fall 2009 (3 hrs x 2 sessions)

Spring Semester 2009
Spring Semester 2008 *East Tennessee State University College of Pharmacy*
PMPR 4263: Pharmacotherapy I
Module Coordinator, Infectious Diseases
Lectures:
Review of Clinical Microbiology and Antimicrobial Pharmacology,
Urinary Tract Infections, Central Nervous Systems Infections,
Skin/Soft Tissue Infections, Bone/Joint Infections, Mycobacterial
Infections, Viral Hepatitis, Sexually Transmitted Infections, HIV
Infection and Associated Opportunistic Infections
PMPR 4244: Drug Information
How to Give a Journal Club, Ripping Apart a Journal Article Lab
PMSC 3235: Biopharmaceutics
Bioavailability and Bioequivalence

Spring Semester 2009 PMPR 5233: Clinical Pharmacokinetics

Drug-Drug Interactions, Aminoglycoside Clinical Pharmacology,
Vancomycin Clinical Pharmacology
PMPR 5361: Clinical Seminar I
Co-Course Director
Presentation Skills, Example Seminar
PMPR 5253: Advanced Clinical Skills
Case Author and Discussion Facilitator

Spring Semester 2009

PMPR 4341: IPPE-P3 Clinical
Preceptor, Johnson City Medical Center and ETSU HIV/AIDS COE

Fall Semester 2008

East Tennessee State University College of Pharmacy
PMPR 5152: Physical Assessment
Co-Course Director, Medication Histories, Micronutrients
PMPR 4163: Introduction to Pharmacotherapy
Introduction to Infectious Diseases and ID Lab Values (6 hours)
PMPR 4143: Evidence-Based Practice I
Patients and Research Setting, Use of Experimental Controls,
Nonparametric Statistics
PMSC 4134: Pharmacokinetics and Pharmacogenomics
Bioequivalence, Noncompartmental Analysis, Use of Computers in
Pharmacokinetic Analysis
PMPR 4183: Communications Skills for Healthcare Professionals
Small Group Instructor
PMPR 4341: IPPE-P3 Clinical
Preceptor, Johnson City Medical Center

Fall Semester 2007

East Tennessee State University College of Pharmacy
PMSC 3122: Pharmacy Calculations
Electrolyte Solutions: mEq, mmol, and mOsmol
PMPR 4122: Pharmacy Practice III: Biostatistics/Research Design
Nonparametric Statistics, Research Ethics and IRBs, Study Design
PMSC 4134: Pharmacokinetics and Pharmacogenomics
Bioequivalence and Noncompartmental Analysis
PMPR 4183: Communications Skills for Healthcare Professionals
Small Group Instructor
PMPR 4161: Interpreting Laboratory Data: Infectious Diseases

February 2007

DPET 810 AIDS: Principles and Practice
Antiretroviral Phenotyping and Drug Interactions
University of North Carolina School of Pharmacy, Chapel Hill, NC

September 2005

PHCY 159L Pharmaceutical Care Laboratory
Recitation facilitator, Doctor of Pharmacy students
University of North Carolina, Chapel Hill, NC

May 2005

PHPR 608 Pediatrics Clerkship
Sickle-Cell Anemia Lecture
Preceptor and lecturer, Doctor of Pharmacy students
Ferris State University, Kalamazoo, MI
Primary Preceptor: Heather Vanden Bussche, PharmD

August 2004 to April 2005

PHPR 501/502 Clinical Skills Laboratory
Physical Assessment, Respiratory, and Pharmacokinetics Laboratories
Instructor and grader, Doctor of Pharmacy students
Ferris State University, Kalamazoo, MI

March 2005	MDSC 6620 Pharmacotherapeutics II: Alzheimer's Dementia and Parkinson's Disease Lecturer, Physician Assistant students Western Michigan University, Kalamazoo, MI
February 2005	PHPR 556 Advanced Topics in Infectious Disease: Foodborne Infectious Diseases Lecturer, Doctor of Pharmacy students Ferris State University, Kalamazoo, MI
September 2004	PHPR 600/601 Internal Medicine Clerkship GERD/PUD Lecture; Diabetes-opoly Game/Lecture Preceptor and Lecturer, Doctor of Pharmacy students Ferris State University, Kalamazoo, MI Primary Preceptors: Vicki Sternhagen, PharmD; Michael Klepser, PharmD

Mentorship

July 2013 to present	Shalini Yapa, PhD, UNC/GlaxoSmithKline PK/PD Fellow
July 2013 to present	Christine Trezza Anderson, PharmD, UNC/GlaxoSmithKline Drug Development Fellow
July 2013 to present	Roseann Gammal, PharmD, UNC Eshelman School of Pharmacy Residency Teaching Certificate Program mentee
March 2013 to present	Cynthia Lee, UNC Eshelman School of Pharmacy Doctor of Pharmacy Honors Student
August 2012 to present	Kevin Watt, MD Dissertation Committee Member
July 2012 to present August 2013 to present	Mackenzie Cottrell, PharmD, HIV Clinical Pharmacology Fellow Fellow Steering Committee Member, UNC/Duke T32 Clinical Pharmacology Fellowship Training Program
July 2012 to present	Tanja Hadzic, PhD, UNC/ King Pharmaceuticals Drug Development Fellow
July 2011 to present	Benjamin Greener, PharmD, UNC/PPD Drug Development Fellow
July 2010 to July 2012	Jessica Adams, PharmD, HIV Clinical Pharmacology Fellow
June 2009 to December 2011	Tae Eun Kim, BS Dissertation Committee Member
January 2009 to May 2011	Brianna Franklin, UNC-CH Doctor of Pharmacy Honors Student
July 2009 to July 2011	Racheal Kendrick, PharmD, UNC/Quintiles PK/PD Fellow
Jan. 2007 to May 2009	Allison Pecha, UNC-CH Doctor of Pharmacy Honors Student
January 2007	Robert Hartley and Janice McMillan Visiting Undergraduate Scholars, Oberlin College, Oberlin, OH

September 2006 to July 2007 Rebecca Werner, Medical Student
Research Elective, UNC-CH School of Medicine

January 2006 to July 2007 Irene La, UNC-CH Doctor of Pharmacy Honors Student

Licensure and Certification

December 2012 to present American Academy of HIV Medicine HIV HIV Pharmacist (AAHIVP)
January 2009 to December 2012 American Academy of HIV Medicine HIV Subject Matter Expert (AAHIVE)
June 2008 Pharmacist Immunization Certificate, American Pharmacists Association
December 2006 Board Certified Pharmacotherapy Specialist (BCPS)
May 2006 North Carolina Board of Pharmacy Registered Pharmacist
July 2004 Michigan Board of Pharmacy Registered Pharmacist

Honors and Awards

April 2009 2008-2009 Outstanding Teacher, ETSU BGCOP Class of 2011
November 2005 Young Investigator Award, 13th Conference on Retroviruses and Opportunistic Infections
2003-2004 Academic Year University of Michigan College of Pharmacy Research Award
APhA-ASP Senior Recognition Award
Albert B. Prescott Memorial Scholarship
Dean's Scholarship for Highest Academic Distinction
Plough Scholarship, Charles R. Walgreen Scholarship
2002-2003 Academic Year University of Michigan College of Pharmacy Alumni Award
Dean's Scholarship for Highest Academic Distinction
Plough Scholarship
Charles R. Walgreen Scholarship
2001-2002 Academic Year University of Michigan College of Pharmacy Rho Chi Award
Dean's Scholarship for High Academic Distinction

Professional Memberships

April 2003 to present Rho Chi Honor Society
July 2003 to December 2011 American Society of Health-System Pharmacists
July 2009 to July 2011 Section of Clinical Specialists, Pharmacokinetics Networking Facilitator
November 2004 to present American College of Clinical Pharmacy
July 2009 to July 2011 Student Network CV Reviewer
Sept. 2009 to Sept. 2011 Student Travel Award Application Reviewer
October 2005 to present Society of Infectious Disease Pharmacists
Oct. 2006 to Sept. 2007 Membership Committee
Oct. 2008 to Oct. 2011 Membership Committee

Oct. 2011 to Oct. 2012	Annual Report Committee
October 2005 to present	American Society for Clinical Pharmacology and Therapeutics
December 2007 to present	American Association of Colleges of Pharmacy
September 2000 to Dec. 2006 December 2004 to June 2004	Michigan Pharmacists Association MPA Professional Affairs Committee
September 2000 to May 2004	APhA-ASP Member, University of Michigan Chapter
University Service	
August 2011 to May 2012	Mentor, UNC Eshelman School of Pharmacy Residency Teaching Certificate
May 2009 to August 2011	UNC Eshelman School of Pharmacy Admissions Interviewer ACPE Self-Study Faculty and Staff Standards Sub-committee Adviser, 10 students in Class of 2013
January 2008 to April 2009	American Society of Health-Systems Pharmacists, ETSU Student Chapter Faculty Advisor
November 2007 to April 2009	ETSU College of Pharmacy Pharmacy Practice Faculty Search Committee
October 2007 to April 2009	ETSU Office of Sponsored Research Research Development Council
August 2007 to April 2009	ETSU College of Pharmacy Admissions Committee and Interview Selection Screener Scholarship Committee

Professional Service

<i>Ad Hoc Reviewer:</i>	National Institute of Allergy and Infectious Diseases, National Institutes of Health RFA-12-018: Clinical Trial Units for NIAID Networks (UM1)
<i>Mail Reviewer:</i>	Eunice Kennedy Shriver National Institute of Child Health & Human Development, National Institutes of Health RFA-13-008/009: "Prevention of HIV transmission and acquisition through a better understanding of reproductive health"
<i>Internal Advisory Board Member:</i>	UNC Center for AIDS Research Biostatistics Core
<i>Editorial Board Member:</i>	Current Clinical Pharmacology
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