

ANGELA DM KASHUBA, BSCPHM, PHARMD, DABCP, FCP

Eshelman School of Pharmacy
Room 1094, Genetic Medicine Building
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The University of North Carolina
Chapel Hill, North Carolina
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EDUCATION

July 1993 – June 1995 **Doctor of Pharmacy**
State University of New York at Buffalo
Department of Pharmacy Practice
Amherst, New York

September 1986 – June 1990 **Bachelor of Science in Pharmacy**
University of Toronto
Faculty of Pharmacy
Toronto, Ontario, Canada

LICENSURE

Licensed Pharmacist Ontario, Canada #108812
1990 to Present

Diplomat American Board of Clinical Pharmacology
2001 to Present

POST-GRADUATE TRAINING

October 2000 – October 2002 **UNC Faculty Scholar**
Building Interdisciplinary Research Careers in Women's Health
NIH K30 Mentored Research Grant
PI: Eugene Orringer, MD
Mentor: Myron Cohen, MD

July 1995 – July 1997 **Clinical Pharmacology Research Fellow**
Attending, Clinical Pharmacology Consult Service
Bassett Healthcare
Clinical Pharmacology Research Center
Co-Directors: Joseph S. Bertino Jr., Pharm.D.
 Anne N. Nafziger, M.D., M.H.S.

June 1990 – June 1991 **Pharmacy Practice Resident (CSHP Accredited)**
University of Toronto, Faculty of Pharmacy
Women's College Hospital
60 Grenville Street, Toronto, Ontario

PROFESSIONAL EXPERIENCE - PRESENT

- July 2015 – Present* **Chair**
Division of Pharmacotherapy and Experimental Therapeutics
Eshelman School of Pharmacy
The University of North Carolina
Chapel Hill, North Carolina
- September 2015 – Present* **Associate Research Director, Resource Laboratory Network Director**
K12 Building Interdisciplinary Research Careers in Women's Health
The University of North Carolina
Chapel Hill, North Carolina
- April 2012 – Present* **John A. and Deborah S. McNeill Jr Distinguished Professor**
Eshelman School of Pharmacy
The University of North Carolina
Chapel Hill, North Carolina
- June 2012 – Present* **Adjunct Professor**
Department of Medicine, School of Medicine
The University of North Carolina
Chapel Hill, North Carolina
- November 2011 – Present* **Professor of Pharmacy**
Division of Pharmacotherapy and Experimental Therapeutics
Eshelman School of Pharmacy,
The University of North Carolina
Chapel Hill, North Carolina
- July 2004 – Present* **Director**
Clinical Pharmacology and Analytical Chemistry Core
UNC Center for AIDS Research (NIAID P30)
The University of North Carolina
Chapel Hill, North Carolina

PROFESSIONAL EXPERIENCE - PAST

- July 2011 – July 2018* **Co-Director**
Clinical Pharmacology Fellowship Program (T32 NIGMS and NICHD)
The University of North Carolina and Duke University
Chapel Hill and Durham, North Carolina
- July 2011 – December 2016* **Director**
Preclinical and Clinical Pharmacology Core
Martin Delaney Collaboratory to Eradicate HIV-1 Infection (U19 NIAID)
The University of North Carolina
Chapel Hill, North Carolina
- November 2011 – July 2015* **Vice Chair for Research and Graduate Education**
Division of Pharmacotherapy and Experimental Therapeutics

Eshelman School of Pharmacy
The University of North Carolina
Chapel Hill, North Carolina

July 2003 – November 2011

Associate Professor of Pharmacy

Division of Pharmacotherapy and Experimental Therapeutics
Eshelman School of Pharmacy,
The University of North Carolina
Chapel Hill, North Carolina

January 2006 – July 2008

Director

Verne S Caviness General Clinical Research Center Analytical
Laboratory
University of North Carolina at Chapel Hill
Chapel Hill, NC

April 2004 – July 2006

Director

Cellular Metabolism and Transport Core
School of Pharmacy, UNC-CH

July 2004 – July 2006

Divisional Director of Graduate Studies

Pharmacotherapy and Experimental Therapeutics
School of Pharmacy, UNC-CH

January 2004 – December 2005 **Director**

University of North Carolina ACTG Pharmacology Support
Laboratory

October 1999 – December 2005 **Pharmacologist**

UNC AIDS Clinical Trials Unit
The University of North Carolina
Chapel Hill, North Carolina

July 1999 – July 2004

Associate Director

Pharmacology Core, UNC Center for AIDS Research
The University of North Carolina
Chapel Hill, North Carolina

July 1997 – July 2003

Assistant Professor of Pharmacy

School of Pharmacy, Division of Pharmacotherapy
CB #7360, Beard Hall
The University of North Carolina
Chapel Hill, North Carolina
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February 1995 – July 1995

Poison Information Specialist

Western New York Poison Control Center
Children's Hospital of Buffalo
219 Bryant Street, Buffalo, New York, 14222

August 1991 – May 1993

Critical Care Pharmacist

Critical Care Preceptor, Pharmacy Students/Residents
Co-Editor, Hospital Formulary Manual
Department of Pharmacy

Mount Sinai Hospital
600 University Avenue, Toronto, Ontario

July 1990 – June 1991

Oncology Pharmacist
Department of Pharmacy
Mount Sinai Hospital
600 University Avenue, Toronto, Ontario

May 1989 – September 1989

Registered Pharmacy Student
Etobicoke General Hospital
Department of Pharmacy
101 Humber College Boulevard, Etobicoke, Ontario

May 1988 – September 1988

Medical Research Council Scholar
University of Toronto
Faculty of Pharmacy Research Laboratories
19 Russell Street, Toronto, Ontario

HONORS AND AWARDS

- 2019:** 1. *Voices of Discovery Featured Speaker*, Elon University, September 17, 2019
- 2018:** 1. American Society for Clinical Pharmacology and Therapeutics, *Featured Speaker* Annual Meeting, Washington March 22, 2018
- 2017:** 1. American College of Clinical Pharmacology *Honorary Fellowship Award (FCP)*, September 2017
2. American College of Clinical Pharmacy *Therapeutic Frontiers Lecture Award*, October 2017
3. Society of Infectious Diseases Pharmacists' *Pharmacotherapy Paper of the Year*, 2016-2017 (*The Journal of Infectious Diseases* 2016; 214:55–64)
4. *Three Minute Thesis Competition*, for Aaron Devanathan, Graduate Student, People's Choice Award
- 2016:** 1. *AFPE Pre-doctoral Fellowship* for Corbin Thompson, Graduate Student
2. *AFPE Pre-doctoral Fellowship* for Nithya Srinivas, Graduate Student
3. *AFPE Gateway Research Scholarship* for Ashlyn Norris, PY1 Pharmacy Student
4. *ASCPT 2017 Presidential Trainee Award* for Corbin Thompson, Graduate Student.
- 2015:** 1. *ASCPT 2016 Presidential Trainee Award*, for Nithya Srinivas, Graduate Student
2. *Young Investigator Scholarship* for Corbin Thompson, PharmD, PhD Candidate, Conference on Retroviruses and Opportunistic Infections, 2016
- 2014:** 1. *AFPE Pre-doctoral Fellowship* for Corbin Thompson, Graduate Student
- 2013:** 1. *UNC Chapel Hill Institute for the Arts and Humanities Academic Leadership Fellow* for 2013-2014
2. *Young Investigator Award* for Melanie Nicol, PharmD, PhD Candidate, Conference on Retroviruses and Opportunistic Infections, 2014
- 2012:** 1. *Conference-Sponsored Investigator Award* for graduate student Melanie Nicol, PharmD. GPEN 2012

- 2011:** 1. 1 of 11 women scientists featured on the “Women in Biomedical Careers” NIH Website (<http://womeninscience.nih.gov/>)
- 2010:** 1. *Young Investigator Award* for Fellow Kevin Brown, PharmD, Conference on Retroviruses and Opportunistic Infections
2. *UNC Summer Undergraduate Research Fellowship Award* to Allison Hastings, BS Candidate
- 2009:** 1. *Leon I. Goldberg Young Investigator Award*, American Society for Clinical Pharmacology and Therapeutics.
2. *F.O. Bowman Award*, for Allison L Pecha, PharmD Candidate, Best UNC Honors Program Paper
- 2008:** 1. *Rho Chi Honors Research Scholarship* for Kevin Brown, Academic Fellow
- 2007:** 1. *Pam Herriott Award* for Outstanding Service, UNC-CH Department of Infectious Diseases
- 2006:** 1. *ACCP Infectious Diseases Fellowship Award* for Julie Dumond, Academic Fellow
2. *ACCP ID PRN Minisabbatical* awarded to ADM Kashuba (Mentor, Alan Forrest)
3. *Young Investigator Award* for Fellow Manoli Vourvahis, Pharm.D., Conference on Retroviruses and Opportunistic Infections
- 2005:** 1. *Young Investigator Award* for Fellows Julie Dumond, PharmD, and Manoli Vourvahis, Pharm.D., Conference on Retroviruses and Opportunistic Infections
2. Paper of the Year, Society of Infectious Diseases Pharmacists, for **Kashuba ADM, Tierney C, Downey GF, Acosta EP, Vergis EN, Klingman K, Mellors JW, Eshleman SH, Scott TR, Collier AC. Combining fosamprenavir with lopinavir/ritonavir substantially reduces amprenavir and lopinavir exposure: ACTG protocol A5143 results. AIDS 2005; 19:145-152**
3. *F.O. Bowman Award*, Carolina Molina Lowe, PharmD Candidate, Best UNC Honors Program Paper
- 2004:** 1. *Annual Bayer Research Fellowship Award* for Rosa Yeh, Research Fellow
2. *Society of Infectious Diseases Pharmacists Fellowship Award* for Rosa Yeh, Research Fellow
3. *F.O. Bowman Award*, Vincent Gaver, PharmD Candidate, Best UNC Honors Program Paper
- 2003:** 1. *AFPE Pre-doctoral Fellowship* for Mary Peace McRae, Graduate Student
2. *F.O. Bowman Award*, Stephanie Burge Hollowell, PharmD Candidate, Best UNC Honors Program Paper
- 2002:** 1. *Hollingsworth Scholar for 2002-2004, School of Pharmacy, UNC-CH*
2. *International AIDS Society Young Investigator Award for Clinical Sciences and Care* for Sherene Min, Infectious Diseases Fellow (Differential penetration of protease inhibitors and non-nucleoside reverse transcriptase inhibitors into the female genital tract. World AIDS Conference Poster)
3. *AFPE Pre-doctoral Fellowship* for Mary Peace McRae, Graduate Student
4. *ACCP Infectious Diseases Fellowship Award* for Amanda Corbett, Academic Fellow

- 2001:** 1. *Young Investigator of the Year*, Society for Infectious Diseases Pharmacists
- 2000:** 1. *UNC Faculty Scholar*, NIH Mentored Research Grant "Building Interdisciplinary Research Careers in Women's Health"
2. *UNC Nominee*, George H. Hitchings New Investigator Award in Health Research and Training
- 1997:** 1. E. Donnell Thomas Award for Research Excellence, Bassett Healthcare
- 1996:** 1. ASM Sustaining Member Student Travel Grant, ICAAC 1996
- 1995:** 1. Rho Chi Award for Academic Excellence
- 1994:** 1. Ciba-Geigy Award for Excellence in Pharmacotherapeutics
- 1990:** 1. First Class Honors, Bachelor of Science in Pharmacy
- 1988:** 1. Southerton Wadhams Scholarship for Academic Excellence
2. Medical Research Council Scholarship
- 1987:** 1. Rokeah Centennial Scholarship for Academic Excellence

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP:

PEER REVIEWED BOOK EDITOR (1):

1. A Practical Approach to Pharmacogenomics, McGraw Hill. Bertino JS Jr, **Kashuba ADM**, Fuhr U, Devane L, Ma J, eds. June 2012.

PEER REVIEWED BOOK CHAPTERS (18):

1. Andrews E and **Kashuba ADM**. Pharmacology of Antimicrobial Drug Resistance. *In* Antimicrobial Drug Resistance (2nd edition) Mechanisms of Drug Resistance, Volume 1. Mayer D (ed). Springer International Publishing AG, 2017.
2. Pai MP, Cottrell ML, **Kashuba ADM**, Bertino JS Jr. Pharmacokinetics and Pharmacodynamics of Antiinfective Agents. Chapter 19. Principles and Practice of Infectious Diseases. Mandell, Douglas, and Bennett (eds). Churchill Livingstone, 2013.
3. Heinene W, **Kashuba ADM**. HIV Prevention by Oral Pre-Exposure Prophylaxis. *In*, Human Immunodeficiency Virus, from Cold Spring Harbor Laboratory Press. Bushman F, Nabel G, Swanstrom R, editors. Copyright January 2012.
4. Adams J, Corbett AH, Dumond J, **Kashuba ADM**. Human Immunodeficiency Virus Infection. *In*, Pharmacotherapy Principles and Practices, McGraw-Hill. DiPiro and Rotschafer, eds. Copyright January 2012.
5. Adams J, Dumond J, **Kashuba ADM**. Human Immunodeficiency Virus Infection. *In Applied Therapeutics, The Clinical Use of Drugs*. Koda-Kimble and Young (eds), Lippincott, Williams, and Wilkins, copyright 2011.
6. Brown K, **Kashuba ADM**. Mechanisms of Drug Interactions, *in Drug Interactions in Infectious Diseases*, Third Edition. Piscitelli S and Rodvold K, (eds), Humana Press 2011.
7. Corbett AH, Yeh RF, Dumond J, **Kashuba ADM**. Human Immunodeficiency Virus Infection. *In*, Pharmacotherapy Principles and Practices, McGraw-Hill. DiPiro and Rotschafer, eds. Jan 2009.
8. Gay C, **Kashuba ADM**, Cohen MS. Using Antiretroviral Therapy for Prevention. *In*, HIV Prevention: A Comprehensive Approach. HF Pizer and KH Mayer, eds. Nov 2008.
9. Dumond J, **Kashuba ADM**. Human Immunodeficiency Virus Infection. *In Applied Therapeutics, The Clinical Use of Drugs*. Koda-Kimble and Young (eds), Lippincott, Williams, and Wilkins, 2008.
10. Corbett AH, Yeh RF, Dumond J, **Kashuba ADM**. Human Immunodeficiency Virus Infection. *In*, Pharmacotherapy Principles and Practices, McGraw-Hill. DiPiro and Rotschafer, eds. Jan 2007.
**Winner, 2008 American Medical Writers Association Award
Medical Book Healthcare Professionals Category**
11. **Kashuba ADM**, Bertino JS Jr. Mechanisms of Drug Interactions, *in Drug Interactions in Infectious Diseases*, Second Edition. Piscitelli S and Rodvold K, (eds), Humana Press 2004.
12. **Kashuba ADM**, Park JJ, Persky AM, Brouwer KR. Drug Metabolism, Transport and the Influence of Hepatic Disease, *in Applied Pharmacokinetics, Principles of Therapeutic*

Drug Monitoring. Fourth Edition. Evans WE, Schentag JJ, Jusko WJ (eds), Applied Therapeutics, Inc. Vancouver, WA 2004.

13. Catanzaro L, **Kashuba A**, Corbett A, Shafer R, Hewitt RG, Acosta E, and Morse GD. HIV-1 Protease Inhibitors, in *Antimicrobial Therapy and Vaccines*, Vol. II. Yu VL, et al. (eds), New York: Apple Trees Production, 2004.
14. Amsden G, Ballow C, Bertino Jr J, **Kashuba ADM**. Pharmacokinetics and Pharmacodynamics of Antiinfective Agents. In *Principles and Practices of Infectious Diseases*. Mandell, Bennett, Dolin (eds). Churchill Livingstone, 2004.
15. **Kashuba ADM** and Robinson M. Opportunistic Infections in HIV Patients. In *Applied Therapeutics, The Clinical Use of Drugs*. Koda-Kimble and Young (eds), Lippincott, Williams, and Wilkins, 2004.
16. Cohen MS, Hosseinipour M, **Kashuba ADM**, Butera S. Use of Antiretroviral Drugs to Prevent Transmission of HIV. In *Current Clinical Topics in Infectious Disease*, Remington JS and Swartz M (eds), Blackwell Science, Incorporated 2001.
17. Ozdemir V, **Kashuba ADM**, Basile VS, Kennedy JL. Pharmacogenetics of psychotropic drug metabolism: Clinical Relevance, Gene-Environment interactions and Future Research Directions. in *Pharmacogenetics Of Psychotropic Drugs*, Lerer B (ed), Cambridge University Press 2001.
18. **Kashuba ADM**, Bertino JS Jr. Mechanisms of Drug Interactions, in *Drug Interactions in Infectious Diseases*, Piscitelli S and Rodvold K, (eds), Humana Press 2000.

REFEREED MANUSCRIPTS (241):

1. Cottrell ML, Prince HMA, Schauer AP, Sykes C, Maffuid K, Polisen A, Chun TW, Huiting E, Stanczyk FZ, Peery AF, Dellon ES, Adams JL, Gay C, **Kashuba ADM**. Decreased tenofovir diphosphate concentrations in a transgender female cohort: Implications for HIV pre-exposure prophylaxis (PrEP). *Clin Infect Dis*. 2019 Apr 9. pii: ciz290. doi: 10.1093/cid/ciz290. [Epub ahead of print] PMID: 30963179
2. Devanathan AS, Anderson DJC, Cottrell ML, Burgunder EM, Saunders AC, **Kashuba ADM**. Contemporary Drug-Drug Interactions in HIV Treatment. *Clin Pharmacol Ther*. 2019 Feb 10. doi: 10.1002/cpt.1393. [Epub ahead of print] PMID: 30739315
3. Srinivas N, Joseph SB, Robertson K, Kincer LP, Menezes P, Adamson L, Schauer AP, Blake KH, White N, Sykes C, Luciw P, Eron JJ, Forrest A, Price R, Spudich S, Swanstrom R, **Kashuba AD**. Predicting efavirenz concentrations in the brain tissue of HIV-infected individuals and exploring their relationship to neurocognitive impairment. *Clin Transl Sci*. 2019 Jan 24. doi: 10.1111/cts.12620. [Epub ahead of print] PMID: 30675981
4. Rudolph JE, Cole SR, Eron JJ, **Kashuba AD**, Adimora AA. Estimating human immunodeficiency virus (HIV) prevention effects in low-incidence settings. *Epidemiology*. 2019 Jan 10. doi: 10.1097/EDE.0000000000000966. [Epub ahead of print] PMID: 30640216
5. Pack AP, Golin CE, Hill LM, Carda-Auten J, Wallace DD, Cherkur S, Farel CE, Rosen EP, Gandhi M, Asher Prince HM, **Kashuba ADM**. Patient and clinician perspectives on optimizing graphical displays of longitudinal medication adherence data. *Patient Educ Couns*. 2019 Jan 2. pii: S0738-3991(18)30396-3. doi: 10.1016/j.pec.2018.12.029. [Epub ahead of print] PMID: 30626550
6. Medina-Moreno S, Zapata JC, Cottrell ML, Le NM, Tao S, Bryant J, Sausville E, Schinazi RF, **Kashuba AD**, Redfield RR, Heredia A. Disparate effects of cytotoxic chemotherapy on the antiviral activity of antiretroviral therapy: implications for treatments of HIV-infected cancer patients. *Antivir Ther*. 2018 Dec 21. doi: 10.3851/IMP3285. [Epub ahead of print] PMID: 30574873
7. Imaz A, Niubó J, Cottrell ML, Perez E, **Kashuba ADM**, Tiraboschi JM, Morenilla S, Garcia B, Podzamczar D. Seminal Tenofovir Concentrations, Viral Suppression, and Semen Quality With Tenofovir Alafenamide Compared with Tenofovir Disoproxil Fumarate (Spanish HIV/AIDS Research Network, PreEC/RIS 40). *Clin Infect Dis*. 2018 Dec 18. doi: 10.1093/cid/ciy1074. [Epub ahead of print] PMID: 30561517
8. Dumond JB, Greene SA, Prince HM, Chen J, Maas BM, Sykes C, Schauer AP, Blake KH, Nelson JA, Gay CL, **Kashuba AD**, Cohen MS. Differential extracellular, but similar intracellular, disposition of two tenofovir formulations in the male genital tract. *Antivir Ther*. 2018 Oct 30. doi: 10.3851/IMP3277. PMID: 30375984.
9. Srinivas N, Rosen EP, Gilliland WM Jr, Kovarova M, Remling-Mulder L, De La Cruz G, White N, Adamson L, Schauer AP, Sykes C, Luciw P, Garcia JV, Akkina R, **Kashuba ADM**. Antiretroviral concentrations and surrogate measures of efficacy in the brain tissue and CSF of preclinical species. *Xenobiotica*. 2018 Dec 17:1-10. doi: 10.1080/00498254.2018.1539278. PMID: 30346892.
10. Ekelöf M, Garrard KP, Judd R, Rosen EP, Xie DY, **Kashuba ADM**, Muddiman DC. Evaluation of Digital Image Recognition Methods for Mass Spectrometry Imaging Data Analysis. *J Am Soc Mass Spectrom*. 2018 Dec;29(12):2467-2470. doi:

10.1007/s13361-018-2073-0. Epub 2018 Oct 15. PMID: 30324263; PMCID: PMC6250575.

11. Krovi SA, Gallovic MD, Keller AM, Bhat M, Tiet P, Chen N, Collier MA, Gurysh EG, Pino EN, Johnson MM, Shamim Hasan Zahid M, Cottrell ML, Pirone JR, **Kashuba AD**, Kwiek JJ, Bachelder EM, Ainslie KM. Injectable long-acting human immunodeficiency virus antiretroviral prodrugs with improved pharmacokinetic profiles. *Int J Pharm*. 2018 Dec 1;552(1-2):371-377. doi: 10.1016/j.ijpharm.2018.10.017. Epub 2018 Oct 8. PMID: 30308272.
12. Kovarova M, Benhabbour SR, Massud I, Spagnuolo RA, Skinner B, Baker CE, Sykes C, Mollan KR, **Kashuba ADM**, García-Lerma JG, Mumper RJ, Garcia JV. Ultra-long-acting removable drug delivery system for HIV treatment and prevention. *Nat Commun*. 2018 Oct 8;9(1):4156. doi: 10.1038/s41467-018-06490-w. PMID: 30297889.
13. Sykes C, Blake K, White N, Schauer AP, Guzman BB, Cottrell ML, Tamraz B, **Kashuba ADM**. Development and validation of an LC-MS/MS assay for the quantification of dolutegravir extracted from human hair. *Anal Bioanal Chem*. 2018 Nov;410(29):7773-7781. doi: 10.1007/s00216-018-1394-y. Epub 2018 Oct 2. PMID: 30280227.
14. Thurman AR, Schwartz JL, Brache V, Chen BA, Chandra N, **Kashuba ADM**, Weiner DH, Mauck C, Doncel GF. Effect of Hormonal Contraception on Pharmacokinetics of Vaginal Tenofovir in Healthy Women: Increased Tenofovir Diphosphate in Injectable Depot Medroxyprogesterone Acetate Users. *J Acquir Immune Defic Syndr*. 2019 Jan 1;80(1):79-88. doi: 10.1097/QAI.0000000000001864. PMID: 30212395.
15. Mitchell JT, LeGrand S, Hightow-Weidman LB, McKellar MS, **Kashuba AD**, Cottrell M, McLaurin T, Satapathy G, McClernon FJ. Smartphone-Based Contingency Management Intervention to Improve Pre-Exposure Prophylaxis Adherence: Pilot Trial. *JMIR Mhealth Uhealth*. 2018 Sep 10;6(9):e10456. doi: 10.2196/10456. PMID: 30201601; PMCID: PMC6231728.
16. Dong OM, Howard RM, Church R, Cottrell M, Forrest A, Innocenti F, Mosedale M, **Kashuba A**, Gonzalez D, Wiltshire T. Challenges and Solutions for Future Pharmacy Practice in the Era of Precision Medicine. *Am J Pharm Educ*. 2018 Aug;82(6):6652. doi: 10.5688/ajpe6652. PMID: 30181675; PMCID: PMC6116878.
17. Mavigner M, Habib J, Deleage C, Rosen E, Mattingly C, Bricker K, **Kashuba A**, Amblard F, Schinazi RF, Jean S, Cohen J, McGary C, Paiardini M, Wood MP, Sodora DL, Silvestri G, Estes J, Chahroudi A. Simian Immunodeficiency Virus Persistence in Cellular and Anatomic Reservoirs in Antiretroviral Therapy-Suppressed Infant Rhesus Macaques. *J Virol*. 2018 Aug 29;92(18). pii: e00562-18. doi: 10.1128/JVI.00562-18. Print 2018 Sep 15. Erratum in: *J Virol*. 2019 Jan 17;93(3). PMID: 29997216; PMCID: PMC6146711.
18. Brocca-Cofano E, Xu C, Wetzel KS, Cottrell ML, Policicchio BB, Raetz KD, Ma D, Dunsmore T, Haret-Richter GS, Musaitif K, Keele BF, **Kashuba AD**, Collman RG, Pandrea I, Apetrei C. Marginal Effects of Systemic CCR5 Blockade with Maraviroc on Oral Simian Immunodeficiency Virus Transmission to Infant Macaques. *J Virol*. 2018 Aug 16;92(17). pii: e00576-18. doi: 10.1128/JVI.00576-18. Print 2018 Sep 1. PMID: 29925666; PMCID: PMC6096825.
19. Weber MD, Andrews E, Prince HA, Sykes C, Rosen EP, Bay C, Shaheen NJ, Madanick RD, Dellon ES, De Paris K, Nelson JA, Gay CL, **Kashuba AD**. Virological and immunological responses to raltegravir and dolutegravir in the gut-associated

lymphoid tissue of HIV-infected men and women. *Antivir Ther.* 2018 May 1. [Epub ahead of print] PMID: 29714167

20. Eke AC, Chakhtoura N, **Kashuba A**, Best BM, Sykes C, Wang J, Stek AM, Smith E, Calabrese S, Capparelli EV, Mirochnick M; IMPAACT P1026s Protocol Team. Rilpivirine Plasma and Cervicovaginal Concentrations in Women During Pregnancy and Postpartum. *J Acquir Immune Defic Syndr.* 2018 Jul 1;78(3):308-313. doi: 10.1097/QAI.0000000000001677. PMID: 29528944; PMCID: PMC6002878.
21. McKinnon LR, Liebenberg LJ, Yende-Zuma N, Archary D, Ngcapu S, Sivro A, Nagelkerke N, Garcia Lerma JG, **Kashuba AD**, Masson L, Mansoor LE, Karim QA, Karim SSA, Passmore JS. Genital inflammation undermines the effectiveness of tenofovir gel in preventing HIV acquisition in women. *Nat Med.* 2018 May;24(4):491-496. doi: 10.1038/nm.4506. Epub 2018 Feb 26. PMID: 29480895; PMCID: PMC5893390.
22. Srinivas N, Maffuid K, **Kashuba ADM**. Clinical Pharmacokinetics and Pharmacodynamics of Drugs in the Central Nervous System. *Clin Pharmacokinet.* 2018 Sep;57(9):1059-1074. doi: 10.1007/s40262-018-0632-y. Review. PMID: 29464550; PMCID: PMC6062484.
23. Thurman AR, Chandra N, Yousefieh N, Kimble T, Anderson SM, Cottrell M, Sykes C, **Kashuba A**, Schwartz JL, Doncel GF. Differences in Local and Systemic TFV PK Among Premenopausal Versus Postmenopausal Women Exposed to TFV 1% Vaginal Gel. *J Acquir Immune Defic Syndr.* 2018 May 1;78(1):82-92. doi: 10.1097/QAI.0000000000001648. PMID: 29424790; PMCID: PMC5902131.
24. Nicol MR, Brewers LM, **Kashuba ADM**, Sykes C. The role of menopause in tenofovir diphosphate and emtricitabine triphosphate concentrations in cervical tissue. *AIDS.* 2018 Jan 2;32(1):11-15. doi: 10.1097/QAD.0000000000001678. PMID: 29112071.
25. Schauer AP, Sykes C, Cottrell ML, Prince H, **Kashuba ADM**. Validation of an LC-MS/MS assay to simultaneously monitor the intracellular active metabolites of tenofovir, emtricitabine, and lamivudine in dried blood spots. *J Pharm Biomed Anal.* 2018 Feb 5;149:40-45. doi: 10.1016/j.jpba.2017.10.030. Epub 2017 Oct 31. PMID: 29100029; PMCID: PMC5741486.
26. Shen Z, Rodriguez-Garcia M, Patel MV, Bodwell J, **Kashuba ADM**, Wira CR. Hormonal Contraceptives Differentially Suppress TFV and TAF Inhibition of HIV Infection and TFV-DP in Blood and Genital Tract CD4+ T cells. *Sci Rep.* 2017 Dec 18;7(1):17697. PMID: 29255206.
27. Pope R Jr, **Kashuba A**. Darunavir for use in pregnant women with HIV. *Expert Rev Clin Pharmacol.* 2017 Dec;10(12):1317-1327. doi: 10.1080/17512433.2017.1390428. Epub 2017 Nov 14. Review. PMID: 28988509.
28. Asmuth DM, Thompson CG, Chun TW, Ma ZM, Mann S, Sainz T, Serrano-Villar S, Utay NS, Garcia JC, Troia-Cancio P, Pollard RB, Miller CJ, Landay A, **Kashuba AD**. Tissue Pharmacologic and Virologic Determinants of Duodenal and Rectal Gastrointestinal-Associated Lymphoid Tissue Immune Reconstitution in HIV-Infected Patients Initiating Antiretroviral Therapy. *J Infect Dis.* 2017 Oct 17;216(7):813-818. doi: 10.1093/infdis/jix418. PMID: 28968888; PMCID: PMC6279130.
29. Gonzalez D, Rao GG, Bailey SC, Brouwer KLR, Cao Y, Crona DJ, **Kashuba ADM**, Lee CR, Morbitzer K, Patterson JH, Wiltshire T, Easter J, Savage SW, Powell JR. Precision Dosing: Public Health Need, Proposed Framework, and Anticipated Impact. *Clin Transl*

Sci. 2017 Nov;10(6):443-454. doi: 10.1111/cts.12490. Epub 2017 Aug 10. Review. PMID: 28875519; PMCID: PMC5698804.

30. Archin NM, Kirchherr JL, Sung JA, Clutton G, Sholtis K, Xu Y, Allard B, Stuelke E, **Kashuba AD**, Kuruc JD, Eron J, Gay CL, Goonetilleke N, Margolis DM. Interval dosing with the HDAC inhibitor vorinostat effectively reverses HIV latency. *J Clin Invest*. 2017 Aug 1;127(8):3126-3135. doi: 10.1172/JCI92684. Epub 2017 Jul 17. PMID: 28714868; PMCID: PMC5531421.
31. Thompson CG, Fallon JK, Mathews M, Charlins P, Remling-Mulder L, Kovarova M, Adamson L, Srinivas N, Schauer A, Sykes C, Luciw P, Garcia JV, Akkina R, Smith PC, **Kashuba ADM**. Multimodal analysis of drug transporter expression in gastrointestinal tissue. *AIDS*. 2017 Jul 31;31(12):1669-1678. PMCID: PMC5546623, NIHMSID: NIHMS882592, PMID: 28590331
32. Cottrell ML, Garrett KL, Prince HMA, Sykes C, Schauer A, Emerson CW, Peery A, Rooney JF, McCallister S, Gay C, **Kashuba ADM**. Single-dose pharmacokinetics of tenofovir alafenamide and its active metabolite in the mucosal tissues. *J Antimicrob Chemother*. 2017 Jun 1;72(6):1731-1740. PMID: 28369415
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NON-REFEREED MANUSCRIPTS:

Dumond JB, Roland M, **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.

WEB PAGES/ELECTRONIC MEDIA (CME/CPE Credit):

Garrett K, Pope R, **Kashuba A**. Hangouts with HIVE: **Pharmacokinetics of HIV Pre-exposure Prophylaxis**. HIVE (Bay Area Perinatal AIDS Center). University of California at San Francisco, National Webcast, April 12, 2016

Kashuba ADM. Clinical Pearl: Managing Drug-Drug Interactions in Aging HIV-Infected Patients. **Stay Tuned: Evolving Concepts in Antiretroviral Therapy Edition 6. Feb 2009.** <http://www.clinicaloptions.com/HIV/Treatment%20Updates/Stay%20Tuned/Volume%201%20Edition%206.aspx>

Kashuba, ADM. DHHS Guidelines for the Use of Antiretroviral Agents in Patients with HIV Infection. *in* Boosting Adherence and Managing Antiretroviral Drug Adverse Events: The Role of the Community Pharmacist. University of Tennessee Advanced Studies in Pharmacy. June 2008. (CPE Credit Program)
([http://www.utasip.com/template.cfm?TEMPLATE=include_programinfo.cfm&ID=85&ZoneID=8&TYPE=text&pageName=Volume%205,%20\(4\)%20Content](http://www.utasip.com/template.cfm?TEMPLATE=include_programinfo.cfm&ID=85&ZoneID=8&TYPE=text&pageName=Volume%205,%20(4)%20Content))

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Lim M and **Kashuba ADM**. Ask the Experts on...Heroin-Antiretroviral Drug interactions (<http://www.medscape.com/medscape/HIV/AskExperts/2001/12/AIDS-ae152.html>)

Corbett A and **Kashuba ADM**. Ask the Experts on...Treatment of Nelfinavir-Associated Diarrhea? 2001. (<http://www.medscape.com/medscape/HIV/AskExperts/2001/12/AIDS-ae152.html>)

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Kashuba ADM. Ask the Experts on . . . Interactions Between Bupropion and Antiretrovirals?
2001. (<http://www.medscape.com/medscape/HIV/AskExperts/2001/06/AIDS-ae128.html>)

Kashuba ADM. Ask the Experts on . . . Food Effects on Protease Inhibitor Bioavailability?
2001. (<http://www.medscape.com/medscape/HIV/AskExperts/2001/10/AIDS-ae142.html>)

SELECTED INVITED ORAL PRESENTATIONS (118 of 196):

1. *Are YOU on the pill? Developing prevention strategies for HIV infection.*
Invited Lecture, Voices of Discovery Series
Elon University
Elon, NC
September 17, 2019
2. *Pharmacologic Measures of Adherence: Pitfalls and Promises*
Invited Lecture, Antiretrovirals for Prevention Conference
Emory Center for AIDS Research
Atlanta, GA
January 28-30, 2019
3. *Pharmacokinetics/Pharmacodynamics in Drug Development and Implications for Adolescents*
Invited Lecture, 2nd International Workshop on HIV Adolescence: Challenges and Solutions
Cape Town, South Africa
October 10, 2018
4. *The Impact of Clinical Pharmacology In HIV Cure Research*
Invited Lecture, American Society of Clinical Pharmacology and Therapeutics
Orlando, FL
March 22, 2018
5. *The Evolution of Precision Medicine in HIV Infection*
School of Pharmacy, Annual Pharmacy Practice Seminar
Madison, WI
February 9, 2018
6. *The Power of Clinical Pharmacology to Influence a Field*
American College of Clinical Pharmacology Honorary Fellowship Lecture
San Diego, CA
September 19, 2017
7. *The Evolution of Precision Medicine in HIV Infection*
American College of Clinical Pharmacy Therapeutic Frontiers Lecture
Phoenix, AZ
October 8, 2017
8. *Does Pharmacology Support Topical PrEP?*
International AIDS Society Conference
Paris, France
July 23-26, 2017
9. *Does Pharmacology Support On Demand PrEP?*

International AIDS Society Conference
Paris, France
July 23-26, 2017

10. *Do Tissue Concentrations Matter in HIV Prevention and Eradication?*
3rd Coast Center for AIDS Research Seminar Series
Chicago, IL
February 23, 2017
11. *The Pharmacology of PrEP*
HIV Endgame Annual Conference
Toronto, Ontario, Canada
October 24, 2016
12. *Location, Location, Location: Antiretroviral Pharmacology and Tissue Delivery of Antiretrovirals*
HIV Research for Prevention Annual Meeting
Chicago, IL
October 18, 2016
13. *Target Drug Concentrations in Tissue: What Do We Know?*
International Workshop on Clinical Pharmacology of HIV and Hepatitis Therapy
Baltimore, MD
June 8-10, 2016
14. *Should Tissues be Targeted for Developing HIV Prevention Strategies?*
HIV Scientific Input Engagement Program
Merck and Company
May 26, 2016
15. *Clinical Research: Developing a Successful and Funded Program*
Annual Infectious Diseases Pharmacotherapy Fellowship Forum.
Aspen, CO
May 19-22, 2016
16. *Hangouts with HIVE: Pharmacokinetics of HIV Pre-exposure Prophylaxis.*
HIVE (Bay Area Perinatal AIDS Center)
University of California at San Francisco
National Webcast
April 12, 2016
17. *Getting The Drug To Where It Needs To Be: Pharmacokinetic/Pharmacodynamic Evidence for Pre-Exposure Prophylaxis*
Office of AIDS Research Advisory Council
National Institutes of Health Office of AIDS Research
Rockville, MD
April 7, 2016
18. *Assessing Pre-Exposure Prophylaxis Evidence*
Consultation on Alternative Drug Options for Pre-Exposure Prophylaxis
World Health Organization/UNAIDS
Geneva, Switzerland
March 21-22, 2016

19. *Worlds Colliding: When Preparation Meets Opportunity*
Inaugural Address, 1st Research in Education and Practice Symposium
University of North Carolina Eshelman School of Pharmacy
Chapel Hill, NC
May 16, 2014
20. *Did We Put the Cart Before the Horse? Clinical Pharmacology Insights into HIV Prevention Trial Outcomes.*
27th International Conference on Antiviral research (ICAR)
Raleigh, NC
May 14, 2014
21. *Current and Future Approaches to Quantifying the Relationship Between Pharmacology and HIV Persistence*
6th International Workshop on HIV Persistence During Therapy
Miami, FL
December 5, 2013
22. *The Pharmacology of HIV Prevention: Where do we go next?*
CASE Seminar
Center for Drug Evaluation and Research, Food and Drug Administration:
Silver Spring, MD
November 20, 2013
23. *Antiretroviral Pharmacology in the Female Genital Tract*
Women's Interagency HIV Study Annual Meeting
Miami, FL
October 29, 2013
24. *The Pharmacology of HIV Prevention: Lessons Learned AND Reflections on training the next generation of translational scientists*
Department of Experimental and Clinical Pharmacology
College of Pharmacy, University of Minnesota
Minneapolis, MN
May 15, 2013
25. *Developing a Platform for Collaboration: The Influence of Clinical Pharmacology on HIV Prevention and Cure*
MD/PhD Program Seminar Series
UNC School of Medicine, Chapel Hill, NC
March 18, 2013
26. *Characterizing Mucosal Tissue Drug Penetration: Implications for HIV Prevention and Eradication*
GlaxoSmithKline HIV Discovery Performance Unit "HIV Day"
Research Triangle Park, NC
February 27, 2013
27. *Characterizing Drug Penetration into Tissues: Implications for HIV Eradication*
Martin Delaney Collaboratory for the Eradication of HIV Annual Meeting
NIAID, NIH
Washington, DC
November 30, 2012

28. *Development of a Mucosal Biopsy Challenge Model*
Biopsy Challenge as a Clinical Pharmacodynamic Biomarker for Clinical Efficacy of HIV Prevention: Practical Applications
NIH, NIAID, DAIDS, PSP, and The Bill and Melinda Gates Foundation
November 29, 2012
29. *Clinical Pharmacology of Antiretrovirals at Mucosal Surfaces*
NIH DAIDS Clinical Pharmacology Quality Assurance Program
Cross Network Scientific Laboratory Group
September 20, 2012
30. *Preclinical and Clinical Pharmacology of Antiretrovirals in HIV Prevention*
Aaron Diamond AIDS Research Center
New York, NY
September 19, 2012
31. *Drug Exposure and Correlates of Oral and Topical ARV Protection*
Microbicides and PrEP: Back to Basics Plenary
International AIDS Conference
Washington, DC
July 22-27, 2012
32. *Penetration of Antiretrovirals into Tissue Compartments*
HIV Eradication Think Tank
AIDS Clinical Trials Group Annual Meeting
Washington, DC
July 18, 2012
33. *Pharmacologic Insights into HIV Prevention*
HIV Global Therapeutic Expert Forum
Philadelphia, PA
May 1-2, 2012
34. *Pre-exposure Prophylaxis for HIV Prevention: Where Does the Field Currently Stand?*
13th International Workshop on the Pharmacology of HIV Therapy
Barcelona, Spain
April 16-18, 2012
35. *HIV Prevention with Antiretrovirals: how to predict success?*
Physician's Research Network
New York, NY
March 27, 2012
36. *Animal and Human Studies of PrEP and Vaginal Rings*
Discussant, CROI Themed Discussion #32
19th Conference on Retroviruses and Opportunistic Infections.
Seattle, WA
March 5-8 2012
37. *Sex Differences in HIV/AIDS: Biologic Perspectives*
Emerging Issues AIDS 20/20: amfAR Consultation Meeting: Sex Differences in HIV/AIDS
Bethesda, MD
January 11, 2012

38. *A World Without AIDS: How UNC is Changing A Field*
 UNC Eshelman School of Pharmacy Alumni Board
 Chapel Hill, NC
 January 7, 2012

39. *Protecting Women from HIV: How BIRCWH Transformed a Field*
 Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Scholars
 Meeting, Office of Research on Women's Health, National Institutes of Health, US
 Department of Health and Human Services,
 Bethesda, MD
 November 16, 2011

40. *UNC Center for AIDS Research Clinical Pharmacology and Analytical Chemistry (Major
 Program Initiatives Update)*
 UNC Eshelman School of Pharmacy Board of Visitors Meeting
 Chapel Hill, NC
 November 17-18, 2011

41. *The Pharmacology of Mucosal Compartments: Current and Planned PK/PD Studies*
 WHO NIH Working Group Meeting
 ART as HIV Prevention for MSM:What Additional Evidence is Required?
 Geneva, Switzerland
 October 26-27, 2011

42. *Pharmacokinetics and Pharmacodynamics of Antiretrovirals in HIV Prevention*
 NIH Think Tank on Clinical Pharmacology of HIV Prevention
 Washington, DC
 August 8, 2011

43. *PrEP: Does formulation impact drug concentrations in different compartments?
 Implications for preventing HIV infection*
 HIV Prevention Trials Network Annual Meeting Plenary
 Washington, DC
 June 8, 2011

44. *Genetic Barriers in Sanctuary Sites*
 HIV Genetic Barrier Expert Consultation
 Dallas, TX
 June 6, 2011

45. *CAPRISA 004, iPrEX, and FEM PrEP: What have they taught us about antiretrovirals?*
 HIV Care 2011: Trends in Clinical Care, Caring for Vulnerable Populations
 Chapel Hill, NC
 May 2, 2011

46. *Antiretroviral Pharmacokinetics and Pharmacodynamics in HIV Prevention*
 Europrise International Prevention Meeting: Understanding How Adherence and
 Biology Influence Effectiveness
 London, England
 May 3-4, 2011

47. *HIV and Sanctuary Sites*
 Collaborative Institute of Virology, Clinical Pharmacology Panel

Miami, FL
April 12, 2011

48. *Pharmacokinetics of Oral HIV Prevention Strategies*
Gilead Sciences HIV Medical Affairs Advisory Program on PrEP
Foster City, CA
March 24-25, 2011
49. *The Pharmacology of HIV Prevention: What Have We Learned in 2010?*
Grand Rounds
National Institutes of Allergy and Infectious Diseases
National Institute of Health Clinical Center
January 14, 2011
50. *Drug Exposure in Women: What's Important?*
1st International Workshop on HIV In Women: From Adolescence through
Menopause
Washington, DC
January 10-11, 2011
51. *Pharmacokinetic Evaluations in Humans*
Workshop on Optimization of Preclinical Methods for Improved Prioritization and
Advancement of Lead Microbicide Candidates
Division of AIDS, National Institute of Allergy and Infectious Diseases
National Institute of Health, Bethesda, MD
December 11-12, 2010
52. *CAPRISA 004 The First Successful HIV Microbicide: Why it Worked (and iPrEX too!)*
World AIDS Day Scientific Session
UNC Chapel Hill School of Medicine
December 1, 2010
53. *The Pharmacology of HIV Prevention: What Have We Learned from CAPRISA 004?*
Grand Rounds
Division of AIDS, National Institute of Allergy and Infectious Diseases
National Institute of Health, Bethesda, MD
November 12, 2010
54. *Role of Antiretroviral Medications in HIV Prevention*
Regional Child and Adolescent Health Meeting
Durham, NC
November 5, 2010
55. *Semen and Cervicovaginal Fluid Studies*
Penetration of Anti-Infective Agents
55th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy
Boston, MA
September 12-15, 2010
56. *ARV Prevention of HIV: Compartment-Specific Pharmacokinetics of Oral and Topical
Antiretrovirals*
5th International Workshop on HIV Transmission – Principles of Intervention
Vienna, Austria
July 15-16, 2010

57. *A Tale of 2 Compartments: Pharmacology of Antiretrovirals in Cervical, Vaginal, and Rectal Tissue*
 Microbicides 2010
 Pittsburgh, PA
 May 23-26, 2010

58. *Meet the Experts*
 American Society for Clinical Pharmacology and Therapeutics
 111th Annual Meeting
 Atlanta, GA
 March 17-20, 2010

59. *Compartmental Pharmacokinetics of Antiretrovirals for HIV Prevention*
 Consultation on the Implications of PrEP Trial Results
 NIH – NIAID, NIH Campus
 Bethesda, MD
 January 29, 2010

60. *Pharmacokinetic-Pharmacodynamic Relationships in Human and Animal PrEP Models*
 Beyond 2010: “Gaps, Challenges, and Priorities for the Future of Preclinical PrEP
 Meeting (NIH, NIAID, DAIDS)
 Bethesda, MD
 October 21-22, 2009

61. *Surrogate Markers for PrEP: Bridging Between Animal and Human Studies*
PrEP Science Discussion
 AVAC: Global Advocacy for HIV Prevention
 Arlington, VA
 September 9, 2009

62. *Pharmacokinetics-Pharmacodynamics of Antiretroviral Agents*
 Meet the Experts
 49th Interscience Conference on Antimicrobial Agents and Chemotherapy
 San Francisco, CA
 September 13, 2009

63. *The Pharmacology of Aging*
 UNC Annual Regional HIV Update
 Friday Center, UNC-CH
 Chapel Hill, NC
 May 4, 2009

64. *Drug Interactions of HIV Therapy*
 HIV Update 2009
 Oslo, Norway
 April 20, 2009

65. *HIV Prevention in Women: Will Drugs Work?*
 World AIDS Day Conference
 UNC Chapel Hill
 Chapel Hill, NC
 December 1, 2008

66. *Antiretroviral Pharmacology in the Genital Tract*
Expert Consultation on the Effect of Antiretroviral Therapy on the Risk of Sexual
Transmission of HIV Infection and Superinfection
Centers for Disease Control and Prevention
Atlanta, GA
October 23, 2008

67. *The Pharmacology of HIV Prevention: What Drugs Will Work?*
Infectious Diseases Conference
Center for Infectious Diseases
UNC-CH
Chapel Hill, NC
September 12, 2008

68. *Clinical Pharmacology of Antiretroviral Therapy in Women: How Much Do We Know?*
Invited Presentation, International AIDS Society Industry Liaison Forum
15th Conference on Retroviruses and Opportunistic Infections
Boston, MA
February 2008

69. *Genital Compartmentalization of Orally and Topically Administered Antiretrovirals*
Invited Presentation, 15th Conference on Retroviruses and Opportunistic Infections
(Abstr 95)
Boston, MA
February 2008

70. *Pharmacokinetics of Antiretroviral Drugs in the Female Genital Tract: Implications for
HIV PrEP and PEP*
Invited Presentation
South Africa CAPRISA
Durban, South Africa
October 2007

71. *Optimal Design of Drug Interaction Studies*
Invited Roundtable Discussant, 8th Annual International Workshop on Clinical
Pharmacology in HIV Therapy
Budapest, Hungary
April 2007

72. *Phenotyping for Drug Interactions: Cocktails Anyone?*
Invited Presentation, 14th Conference on Retroviruses and Opportunistic Infections
(Abstr 50)
Los Angeles, CA
Feb 2007

73. *“Genital Tract Pharmacokinetics of Antiretroviral Drugs: Implications for HIV Pre- and
Post-Exposure Prophylaxis”.*
Grand Rounds
Albany Medical Center, Albany, NY
May 2006

74. *“The Drugs, The Doses, The Interactions”*
UNC Annual Regional HIV Update
Friday Center, UNC-CH

Chapel Hill, NC
May 1, 2006

75. *"Genital Tract Pharmacokinetics of Antiretroviral Drugs: Implications for HIV Pre- and Post-Exposure Prophylaxis"*.
HIV Physician's Research Network (PRN)
New York, NY
March 2006
76. *"The Role of Antiretroviral Pharmacology in Preventing the Sexual Transmission of HIV"*
Infectious Diseases Conference
Center for Infectious Diseases
UNC-CH
Chapel Hill, NC
March 17, 2007
77. *"Antiretroviral Pharmacology for Pre-exposure Prophylaxis"*
International AIDS Society Industry Liaison Forum
Denver, CO
February 2006
78. *"Use of Pharmacokinetic Enhancement in Treatment Experienced Patients"*
Management of Treatment-Experienced HIV-Infected Patients
CME Satellite Symposium
Interscience Conference on Antimicrobial Agents and Chemotherapy
December 2005
79. *"Pharmacologic Complexities in the Treatment of HIV"*
Management of HIV Disease, International AIDS Society
Los Angeles, CA, and New York, NY
April and October 2005
80. *"Drug Interactions"*
Treatment and Management of HIV Infection in the United States
US HIV Conference
Atlanta, GA
September 2005
81. *"Navigating the Concentration Curves: Pharmacologic Considerations in the Treatment of HIV"*
Continuing Education Program for HIV Practitioners
Teleconference Program 2005
On-Site Program Boston MA
Atlanta GA, Dallas TX
2005
82. *"Pharmacokinetics of Systemically Administered Antiretroviral Drugs in Compartments Relevant to Sexual Transmission:*
Novel Pharmacokinetic Methods for Developing HIV Chemoprevention Strategies
Symposium
American Society of Clinical Pharmacology and Therapeutics Annual Meeting
Orlando, FL
March 2005
83. *"Clinically Important Antiretroviral Drug Interactions"*
HIV CARE 2004

UNC – CH Infectious Diseases Symposium
May 2004

84. *“The Genital Tract as a Sanctuary Site for HIV”*
First International Workshop on HIV Persistence During Therapy
St. Martin, FWI
2003
85. *“Pharmacogenomics: The New Frontier of Pharmacy”.*
Pennsylvania Society of Health Systems Pharmacists Annual Assembly
Champion, PA
2003
86. *“AIDS Blunts Treatments and Laughs at Vaccines”: The Future of HIV Prevention Research*
Grand Rounds, Bassett Healthcare,
Cooperstown, NY
2003
87. *How Should Phenotyping Biomarkers Be Validated?*
INVITOX 2002 Annual Meeting
Formia, Italy
2002
88. *Understanding and Predicting Antiviral Drug Interactions*
Infectious Diseases Society of America, Annual Meeting
Chicago, IL
2002
89. *Can Antiretroviral Therapy Be Used to Prevent Sexual Transmission of HIV-1?*
GlaxoSmithKline Seminar Series
RTP, NC
June 2002
90. *Pharmacokinetics of Antiretroviral Therapy in Genital Secretions*
HAART and Prevention of HIV Transmission
Atlanta, GA
June 2002
91. *Virology and Pharmacology in the Male and Female Genital Tract*
The Importance of Antiretroviral Drugs to Penetrate Viral Reservoirs, Forum for
Collaborative HIV Research, George Washington University
Washington, DC
April 2002.
92. *Antiretroviral Pharmacology in the Genital Tract: Can We Affect HIV Transmission?*
Women’s Health Research Day
UNC Chapel Hill
March 2002

93. *Beneficial Antimicrobial Drug Interactions: Taking Advantage of New Insights into Clinical Pharmacology. Metabolism interactions to improve systemic exposure.*
41st Interscience Conference on Antimicrobial Agents and Chemotherapy
Chicago, IL
December 2001
94. *How Should Phenotyping Biomarkers Be Validated?*
International Society for the Study of Xenobiotics, 6th International Meeting
Munich, Germany
October 2001
95. *Romancing the Genome: Clinical Pharmacogenetics*
Annual Meeting, New York State Chapter, American College of Clinical Pharmacy,
Syracuse, NY
June 2001
96. *Romancing the Genome: How Genes Can Tailor Your Drugs*
UNC Chapel Hill School of Medicine "Mini-Med School"
Chapel Hill, NC
March 2001
97. *The Effect of Cytokines and Endotoxins on Drug Metabolism and the Relevance to HIV Infected Patients*
American Society for Clinical Pharmacology and Therapeutics Annual Meeting
Orlando, FL
March 2001
98. *Pharmacotherapy of Influenza Virus*
American College of Clinical Pharmacy Annual Meeting
Los Angeles, CA
November 2000
99. *Understanding And Predicting Drug-Cytokine Interactions*
"Drug-Drug Interactions" Conference, Barnett International
October 2000
100. *Intra- and Interindividual Variability in Cytochrome P450 Activity: The Influence of Cytokines On Antiretroviral Pharmacokinetics and Possible Failure In HIV-1 Infection*
University of Toronto Department of Pharmacology Seminar Series
Toronto, Ontario, Canada
May 2000
101. *Pharmacogenetics and HIV: Special Considerations in Women*
Emerging Treatment Strategies for Patients with Human Immunodeficiency Virus Infection, State University of New York at Buffalo HIV Symposium
Buffalo, NY
February 2000
102. *CYP3A and P-glycoprotein: Implications for Absorption and Viral Reservoir Distribution of Protease Inhibitors*
UNC Center for AIDS Research Clinical Core Collaborative Research Seminar
Chapel Hill, NC
April 2000

103. *Understanding and Predicting Drug Interactions of the Cytochrome P450 Enzyme System*
Anesthesiology Conference. School of Medicine. UNC-Chapel Hill
Chapel Hill, NC
November 1999
- UNC Center for Infectious Diseases Conference. UNC-Chapel Hill
Chapel Hill, NC
November 1999
104. *Pharmacogenetics of Antiretroviral Therapy*
UNC School of Pharmacy Division of Drug Delivery and Disposition Seminar Series,
September 1999
- New York State Society of Infectious Diseases Pharmacists Annual Meeting,
Syracuse, NY, September 1999.
105. *Pharmacokinetics and Pharmacodynamics of Antiretroviral Agents.*
Infectious Diseases Conference, School of Medicine, UNC-Chapel Hill
Chapel Hill, NC
June 1999
106. *Advances in the Treatment of HIV.* Session Moderator,
American Society of Health Systems Pharmacists, Annual Meeting
Reno, NV
1999
107. *Inflammation, Cytokine Networks, and Drug Metabolism: Experimental and Clinical Findings.*
Breaking Issues Symposium Presentation, American Society of Health Systems
Pharmacists Annual Midyear Clinical Meeting
Las Vegas, NV
1998
108. *HIV: Review of New Guidelines.*
Making a Difference: Trends in Infectious Diseases Pharmacotherapy,
Annual Conference.
Orlando, FL
May 1998
109. *The New Macrolides: Are the Differences Real?*
Scientific Exhibits. Sponsored by Pfizer.
American College of Physicians, Annual Meeting 1997 - 1999
American Society of Health Systems Pharmacists, Midyear Clinical Meeting 1998 -
Present
American Society of Health Systems Pharmacists, Annual Meeting 1998 - Present
110. *Drug Interactions and the Cytochrome P450 Enzyme System,*
Departments of Pharmacy and Infectious Diseases, Audey Murphy VA Hospital
San Antonio, TX
1997
111. *Genetics, Environment, Drug Efficacy, and Side Effects: You Can't Pick Your Parents.*

Medical Grand Rounds, Bassett Healthcare, Cooperstown, New York, 1996.

New York State Council of Health-System Pharmacists: Leatherstocking Chapter Continuing Education Seminar, 1996

112. *Development of a Population Pharmacokinetic Model and Optimal Sampling Strategies for Intravenous Ceftazidime in the Critically Ill*

Platform Presentation, New York State Clinical Pharmacists Infectious Diseases Group Annual Meeting, Syracuse, NY, 1995.

Research Defense, Department of Pharmacy Practice, State University of New York at Buffalo, Amherst, NY, 1995.

113. *Chronic Obstructive Pulmonary Disease*,
Fourth Year Pharmacy Student Lecture, Department of Pharmacy Practice
State University of New York at Buffalo
Amherst, NY
1995

114. *The Use of Itraconazole in the Treatment of Aspergillosis*,
Doctor of Pharmacy Seminar, Department of Pharmacy Practice
State University of New York at Buffalo
Amherst, NY
1994

115. *Overcoming Drug Resistance in Oncology*,
Doctor of Pharmacy Seminar, Department of Pharmacy Practice
State University of New York at Buffalo
Amherst, NY
1994

116. *Inflammatory Bowel Disease: Advances in Therapy*,
Toronto Intra-City Hospital Rounds, Mount Sinai Hospital
Toronto, Ontario
1992

117. *Ethics and Biotechnology*, Fourth Year Pharmacy Student Lecture,
University of Toronto, Faculty of Pharmacy
Toronto, Ontario
1992

118. *Comparison of Two Vancomycin Dosing Guidelines for Use in the Neonatal Intensive Care Unit: A Focus on Serum Concentrations and Cost Effectiveness*,
Ontario Pharmacy Residency Meeting, Mount Sinai Hospital
Toronto, Ontario
1991

REFEREED SCIENTIFIC ABTRACTS (227):

1. Anderson DJC, Prince HMA, Polisen A, Moody K, Saunders A, Sykes C, Schauer AP, Van Horne B, Mollan KR, Hudgens MG, **Kashuba ADM**. An Exploration of Adherence Measures to Detect Recent Changes in Truvada® Dosing Patterns. 20th International Workshop on Clinical Pharmacology of HIV, Hepatitis & Other Antiviral Drugs. Oral abstract presentation. May 14-16, 2019. Noordwijk, NL.
2. Devanathan AS, Fallon JK, White N, Schauer AP, Blake K, Sykes C, Adamson L, Luciw P, Garcia JV, Akkina R, Pirone JR, Smith PC, **Kashuba ADM**. Antiretroviral penetration and drug transporter concentrations in the spleens of three preclinical animal models and humans. 20th International Workshop on Clinical Pharmacology of HIV, Hepatitis & Other Antiviral Drugs. May 14-16, 2019. Noordwijk, NL.
3. Schauer A, Sykes C, **Kashuba ADM**. When a Dried Sample Isn't Dry: How Different Sample Handling Procedures Between the Clinic and the Analytical Laboratory Can Impact Drug Quantification. 71st Annual Meeting, American Association for Clinical Chemistry. August 4-8, 2019, Anaheim, CA.
4. Handy K, Pirone J, Schauer A, Bryan H, Sykes C, Prince H, Polisen A, **Kashuba ADM**. Comparison of Human Whole Blood Dolutegravir Concentrations Collected on Dried Blood Spot Cards versus Mitra® Microsampling Devices. 71st Annual Meeting, American Association for Clinical Chemistry. August 4-8, 2019, Anaheim, CA.
5. Schauer A, Sykes C, Pirone J, White N, Bryan H, Prince H, Polisen A, **Kashuba ADM**. A Comparison of Tenofovir Diphosphate and Emtricitabine Triphosphate Concentrations Collected in Whole Blood by a Microsampler or Dried Blood Spot. ASMS Conference on Mass Spectrometry and Allied Topics, June 2 - 6, 2019, Atlanta, GA.
6. Garrard KP, Ekelöf M, Khodjanizyazova S, Bagley MC, Rosen EP, Gilliland WM, **Kashuba AD**, Muddiman DC. RastirX: A versatile platform for imaging arbitrary spatial patterns. Abstract ID number: 297204. ASMS Conference on Mass Spectrometry and Allied Topics, June 2 - 6, 2019, Atlanta, GA.
7. Mitchell, J. T., McLaurin, T., Frye, J., McKellar, M. S., Satapathy, G., Cottrell, M., **Kashuba, ADM**, LeGrand, S, McClernon, FJ, Parker, S, and Okeke, NL. Development of a mobile contingency management intervention for PrEP adherence among young black men who have sex with men. National HIV Prevention Conference, March 2019, Atlanta, GA.
8. Schauer A, Sykes C, Pirone JR, Blake K, Bryan H, **Kashuba ADM**. Comparison of Human Whole Blood Maraviroc Concentrations Collected on Dried Blood Spot Cards versus Mitra® Microsampling Devices. Poster 35A. MSACL. Mass Spectrometry: Applications to the Clinical Lab 2019. Palm Springs, CA.
9. Pirone JR, Akkina RK, Garcia-Martinez JV, Luciw P, Adamson L, Sykes C, White N, Schauer A, Blake KH, Burgunder EM, Devanathan AS, Srinivas N, Rosen E, **Kashuba ADM**. 2019 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7, 2019, Seattle, WA.
10. Rosen E, Deleage C, Fedoriw Y, Estes JD, **Kashuba ADM**. A Quantitative Approach to Evaluate ARV Proximity to Virus and Cells in Lymph Nodes. Poster ID 2395. 2019 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7, 2019, Seattle, WA.

11. Mitchel JT, McLaurin T, Frye J, McKellar MS, Satapathy G, Cottrell M, **Kashuba ADM**, LeGrand S, McClernon FJ, Parker S, Okeke NL. Development of a Mobile Contingency Management Intervention for PrEP Adherence among Young Black Men who have Sex with Men. Abstract ID 5854, Oral Presentation. 2019 National HIV Prevention Conference (NHPC). March 18-21, 2019 Atlanta, GA.
12. Gilliland WM, Jr., Asher Prince H, Poliseno A, Gandhi M, **Kashuba ADM**, Rosen EP. IR-MALDESI Mass Spectrometry Imaging of Maraviroc in Hair for Long-Term Adherence Monitoring. Imaging Mass Spectrometry Society II & OURCON VI Joint Meeting. November 11-14, 2018 Charleston, SC.
13. Hill, LM, Golin CE, Pack A, Carda-Auten J, Wallace DD, Cherjur S, Farel CE, Rosen EP, Gandhi M, Asher Prince HM, **Kashuba ADM**. Using real-time adherence feedback to enhance communication about adherence to antiretroviral therapy; Patient and provider perspectives. Poster 144. 13th International Conference on HIV Treatment and Prevention Adherence. June 8-10, 2018.
Selected as one of the Top 15 Meeting Posters, and Featured on TheBody.com
14. Ekelöf M, Garrard KP, Rosen EP, **Kashuba ADM**, Muddiman DC. Evaluation of Digital Image Recognition Methods for Mass Spectrometry Imaging Data Analysis. ASMS Conference on Mass Spectrometry and Allied Topics. June 3-7, 2018. San Diego, CA.
15. Schauer A, Sykes C, Benhabbour R, Cottrell ML, **Kashuba ADM**. An LC-MS/MS Method for the Quantification of the Endogenous Steroid Progesterone in Mouse Plasma Using the Surrogate Analyte Approach. ASMS Conference on Mass Spectrometry and Allied Topics. June 3-7, 2018. San Diego, CA.
16. Gilliland, WM Jr., Moody K, Poliseno A, Prince HA, Gandhi M, Muddiman DC, **Kashuba ADM**, Rosen EP. Developing IR-MALDESI Mass Spectrometry Imaging of HIV Medications in Hair as a Clinical Tool for Measuring Patient Adherence ASMS Conference on Mass Spectrometry and Allied Topics. June 3-7, 2018. San Diego, CA.
17. Srinivas N, Cottrell M, White N, Sykes C, Prince H, Gonzalez D, **Kashuba AD**. Development and Application of a Population Pharmacokinetic Model of Maraviroc to Predict HIV Pre-Exposure Prophylaxis Efficacy in Mucosal Tissues. ASCPT 2018 Annual Meeting, March 21-24, 2018. Orlando, FL.
18. Srinivas N, Rosen E, Cruz GD, Sykes C, Schauer A, Adamson L, Luciw P, **Kashuba A**. Mapping the Distribution of Efavirenz with Brain Tissue Cells. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA
19. Melody K, Kline C, Cottrell M, Keele B, **Kashuba A**, Bility M. RPV LA Does not Inhibit Resistant HIV Transmission or Select Significant Resistance. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA
20. Imaz A, Niubo J, Cottrell M, Perez E, **Kashuba A**, Tiraboschi J, Morenilla S, Garcia B, Podzamczar D. Seminal Tenofovir Concentrations, Viral Suppression and Semen Quality with TAF VS TDF. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA
21. Price J, Vwalika B, Winston J, Kasaro M, Mwape H, Chi B, Stringer E, Freeman B, Gravett C, Rittenhouse K, Njobvu L, Nelson J, **Kashuba A**, Stringer J. Preconceptional ART and Spontaneous Preterm Birth in an Urban Zambian Cohort. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA

22. Rosen E, Deleage C, White N, Sykes C, Adamson L, Fedoriw Y, Estes JD, Luciw P, **Kashuba ADM**. Mass Spec Imaging Reveals Associations Between ARVs, Virus and Cells in Lymph Nodes. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA
23. Burgunder E, Fallon J, White N, Schauer A, Sykes C, Adamson L, Pirone J, Luciw P, Smith P, **Kashuba A**. Effect of Sex, SHIV, and Drug Transporters on Lymph Node Antiretroviral Penetration. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA
24. Aguirre A, Mehta C, Hussen SA, Ofotokun I, Greenblatt R, Merenstein D, **Kashuba A**, Anastos K, Kempf MC, Golub ET, DeHovitz J, Cohen MH, Weiser S, Sheth AN. Persistent Low-Level Viremia is Associated with Low Protease Inhibitor Levels in Hair. 2018 Conference on Retroviruses and Opportunistic Infections (CROI), March 4-7 2018, Boston, MA
25. Bokhart MT, Garrard K, Rosen E, Thompson C, Sykes S, **Kashuba ADM**, Manni J, Muddiman DC. A Quantitative Mass Spectrometry Imaging Workflow using IR-MALDESI and MSiReader. Eastern Analytical Symposium. Princeton NJ November 13-15 2017.
26. Pack A, Golin C, Carda-Auten J, Cherkur S, Farel C, Rosen E, Gandhi M, Prince H, Barley K, **Kashuba A**. Patient acceptability of obtaining near real-time feedback on antiretroviral (ART) adherence using mass spectrometry imaging of hair samples: A formative sub-study for the ENLIGHTEN (Establishing Novel antiretroviral ImaginG for Hair to Elucidate Nonadherence) Project. Oral presentation. American Public Health Association Annual Meeting & Expo. Atlanta, GA. November 4-8, 2017.
27. Greene SA, Garrett K, Prince H, Chen J, Maas B, Maffuid K, Sykes C, Schauer A, Gay C, **Kashuba ADM**, Cohen M, Dumond J. Population Pharmacokinetics of Tenofovir (TFV) and Tenofovir Diphosphate (TFVdp) in the Blood, Semen, and Mononuclear Cells of HIV-Negative and Positive Men Receiving Tenofovir Disoproxil Fumarate (TDF) or Tenofovir Alafenamide (TAF). American Conference on Pharmacometrics, October 15-18, 2017. Ft. Lauderdale, FL.
28. Garrett K, Maas B, Cottrell M, Prince H, Sykes C, Schauer A, White N, Dumond J, **Kashuba ADM**. Tenofovir Alafenamide (TAF) for HIV Prevention in IV Drug Users. American Conference on Pharmacometrics, October 15-18, 2017. Ft. Lauderdale, FL.
29. Pack A, Golin C, Carda-Auten J, Cherkur S, Farel C, Rosen E, Gandhi M, Prince H, Barley K, **Kashuba ADM**. Patient perspectives: Preliminary results from the formative sub-study of the Establishing Novel Antiretroviral ImaginG for Hair to Elucidate Nonadherence (ENLIGHTEN) Project. 12th International Conference on HIV Treatment and Prevention Adherence. June 4-6, 2017. Miami Beach, FL.
30. Cherkur S, Golin C, Carda-Auten J, Pack A, Farel C, Rosen E, Gandhi M, Prince H, Barley K, **Kashuba ADM**. Provider perceptions of using mass spectrometry imaging of hair to manage antiretroviral adherence: a formative sub-study for the Establishing Novel Antiretroviral ImaginG for Hair to Elucidate Nonadherence (ENLIGHTEN) Project. 12th International Conference on HIV Treatment and Prevention Adherence. June 4-6, 2017. Miami Beach, FL.
31. Srinivas N, Fallon J, Sykes C, White N, Schauer A, Matthews M, Adamson L, Luciw P, Smith P, **Kashuba ADM**. SHIV infection and drug transporters influence brain tissue concentrations of efavirenz. *Platform Presentation* 9th International AIDS Society Conference on HIV Science. July 23-26, 2017, Paris, France.

Winner: IAS/ANRS Lange-van Tongeren Young Investigator Prize

32. Thompson CG, Prince HA, Rosen E, Sykes C, Mathews M, Arora S, Dellon E, Peery A, Shaheen N, Gay C, Luciw PA, Akkina R, Garcia JV, Smith PC, **Kashuba ADM**. Differential Antiretroviral Localization and Drug Transporter Expression Within Gut-Associated Lymphoid Tissue of HIV+ Subjects: Comparison to Pre-Clinical Species. 9th International AIDS Society Conference on HIV Science. July 23-26, 2017, Paris, France.
33. Garrett K, Mann S, Sainz Costa T, Serrano Villa S, Garcia J-C, Troia-Cancio P, Li X-D, Pollard R, **Kashuba A**, Asmuth D. Exposure of Darunavir (DRV), Ritonavir (RTV), Emtricitabine (FTC), and Tenofovir (TFV) in Duodenal Tissue: Implications for Gastrointestinal (GI) Immune Reconstitution Among HIV-infected Patients Undergoing Antiretroviral Treatment. 9th International AIDS Society Conference on HIV Science. July 23-26, 2017, Paris, France.
34. Rosen E, White N, Sykes C, Adamson L, Mathews M, Fedoriw Y, Luciw P, **Kashuba ADM**. Panobinostat Distribution in Rhesus Macaque Lymph Nodes Following Anti-latency Therapy. 9th International AIDS Society Conference on HIV Science. July 23-26, 2017, Paris, France.
35. Rosen E, Deleage C, White N, Sykes C, Mathews M, Fedoriw G, Estes J, Luciw P, **Kashuba ADM**. Imaging Modalities to Evaluate the Spatial Distributions of SHIV and Antiretroviral Therapies in Putative Viral Reservoirs. 65th American Society for Mass Spectrometry Conference, June 4-8, 2017, Indianapolis, Indiana.
36. Sykes C, Schauer, A, Prince, H, Cottrell, M, **Kashuba, AD**. Validation of an LC-MS/MS Assay to Monitor Adherence of Subjects on Antiretroviral Therapy Using Dried Blood Spots. 65th American Society for Mass Spectrometry Conference, June 4-8, 2017, Indianapolis, Indiana.
37. Thompson CG, Rosen EP, Matthews M, White N, Sykes C, Fedoriw Y, Charlins P, Mulder L, Kovorova M, Adamson L, Muddiman DC, Akkina R, Garcia V, Luciw P, **Kashuba ADM**. Imaging antiretroviral distribution within gastrointestinal tissues across pre-clinical species: implications for HIV eradication. Poster and Young Investigator Award; American Society of Clinical Pharmacology and Therapeutics Annual Meeting, March 15-18 2017, Washington DC.
38. Sulggi L, Hatano H, **Kashuba ADM**, Cottrell ML, Liegler T, Stephenson S, Somsouk M, Hunt PW, Deeks SG, Savic RM. Integrase and protease inhibitor concentrations in lymphoid vs GI tissues. Conference on Retroviruses and Opportunistic Infections, February 13-16, 2017, Seattle, Washington.
39. McKinnon L, Leibenberg L, Yende N, Masson L, **Kashuba ADM**, Archary D, Abdool Karim Q, Abdool Karim S, Passmore JA. Mucosal inflammation abrogates tenofovir gel-mediated protection from HIV infection. Conference on Retroviruses and Opportunistic Infections, February 13-16, 2017, Seattle, Washington.
40. Dumond JB, Greene SA, Asher Prince HM, Chen J, Mass B, Sykes C, Schauer A, Gay CL, **Kashuba ADM**, Cohen MS. Extra/intracellular nucleoside/tide semen pharmacology; implications for eradication. Themed Discussion. Conference on Retroviruses and Opportunistic Infections, February 13-16, 2017, Seattle, Washington.
41. Sykes C, Schauer A, Cottrell ML, **Kashuba ADM**. Method Validation for the Simultaneous Quantification of Three Antiretroviral Drugs in Human Plasma Using LC-

MS/MS Over a 10,000 Fold Calibration Range. Mass Spectrometry: Applications to the Clinical Lab 9th Annual Meeting. Jan 22-26 2017, Palm Springs CA.

42. Rosen E, Thompson C, White C, Sykes C, Adamson L, Mathews M, Fedoriw Y, Luciw P, Kashuba ADM. Biodistribution of Antiretroviral Therapies within the Ovaries and Testes of Rhesus Macaques. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
43. Cottrell ML, Chen J, Maas BM, Prince HMA, Sykes C, White N, **Kashuba ADM**, Dumond JL. A PK/PD Model to Predict Effective HIV PrEP Dosing Strategies for IV Drug Users. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
44. Leal L, Guardo AC, Bedoya LM, Climent N, Llach J, Plana M, Alcami J, **Kashuba ADM**, Gatell JM, Garcia F. PK, Ex-vivo Efficacy on HIV Infectivity and Effect on Immune System of Maraviroc, raltegravir and Ritonavir-boosted Lopinavir in MSM on PEP. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
45. Melody K, Kline C, Cottrell M, Bility M, **Kashuba A**, Ambrose Z. Vaginal Transmission of WT or Resistant HIV-1 Was Not Inhibited by Long Acting Rilpivirine at High Plasma and Genital Concentrations in BLT Mice. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
46. Schwartz J, Justman J, van der Straten A, Smith-McCune K, Littlefield S, Sykes C, Linton K, Kashuba A, Doncel G. In Vivo Drug-drug Interactions Between Tenofovir Gel and Three Commonly Used Vaginal Products. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
47. Nicol M, Brewers L, **Kashuba A**, Sykes C. Role of Menopause in Tenofovir and Emtricitabine Disposition and Efficacy in Cervicovaginal Explants with Ex Vivo HIV Challenge. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
48. Massud I, Sykes DC, Cong ME, Ellis S, Kelley K, Heneine W, **Kashuba ADM**, Garcia-Lerma JG. Pharmacokinetic Profile of Lamivudine (3TC) in Macaques and Relative Drug Exposure in Rectal and Vaginal Tissues. HIV Research for Prevention 2016: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL, October 17-20 2016.
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83. Thompson CG, Fallon JK, Smith PC, **Kashuba ADM**. Quantification of Drug Transporters in Vaginal and Cervical Tissue Using a Novel Targeted Proteomics Approach: Implications for Small Molecule Disposition in Viral Reservoirs. A-641-0038-0999620th International AIDS Conference (AIDS 2014), 20-25 July 2014, Melbourne, Australia.
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94. Asmuth DM, **Kashuba AD**, Acosta AP, Albanese A, Li X-D, Troia-Cancio P, Pollard R. Efavirenz, Tenofovir, and Emtricitabine Levels in Colonic Tissue. Poster # MOPE-027. 7th International AIDS Society Conference on HIV Pathogenesis, Treatment, and Prevention. 1-June 30- July 3 2013, Kuala Lumpur, Malaysia.
95. Akkina R, Veselinovic M, Neff CP, Lecureux J, Mulder L, **Kashuba A**. Modelling HIV PrEP in humanized mice: pharmacokinetic studies on antiretroviral drugs raltegravir, tenofovir and maraviroc MOPE134 7th International AIDS Society Conference on HIV Pathogenesis, Treatment, and Prevention. 1-June 30- July 3 2013, Kuala Lumpur, Malaysia.
96. P.W. Denton, J. Long, N. Archin, S. Wietgreffe, S. Choudahry, C. Sykes, K. Yang, M.G. Hudgens, I. Pastan, E.A. Berger, A. Haase, **A. Kashuba**, D.M. Margolis, J.V. Garcia Destruction of the residual active HIV-1 reservoir by Env-specific immunotoxin TUAA0101 - Oral Abstract Session 7th International AIDS Society Conference on HIV Pathogenesis, Treatment, and Prevention. 1-June 30- July 3 2013, Kuala Lumpur, Malaysia.
97. Paul Denton, Julie Long, Steven Wietgreffe, Craig Sykes, Rae Ann Spagnuolo, Olivia Snyder, Orrin Thayer, Katherine Perkey, Nancie Archin, Shailesh Choudhary, Kuo Yang, Michael Hudgens, Ira Pastan, Ashley Haase, **Angela Kashuba**, Edward Berger³, David Margolis and J. Victor Garcia. Targeted Cytotoxic Therapy Kills Persisting HIV Infected Cells during ART. Oral Abstract S05-4. 4th international workshop on humanized mice. Seoul, Korea Sept 30-Oct 2 2013
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103. Sabo J, **Kashuba ADM**, Ballow C, Haschke M, Yong C, Macgregor T, Li Y, Kort J. Cytochrome P450 (CYP) Interactions with the HCV Protease Inhibitor BI 201335 in Healthy Volunteers. 52nd ICAAC. Poster A-1248. San Francisco, CA. September 9-12, 2012.
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105. Patterson K, Stevens T, Prince H, Jennings S, Shaheen N, Madanick R, Dellon E, Cohen M, **Kashuba A**. Antiretrovirals for prevention: pharmacokinetics of raltegravir in gut-associated lymphoid tissue (GALT) of healthy male volunteers. Oral Presentation O-11. 13th International Workshop on the Pharmacology of HIV Therapy. Barcelona, Spain. April 16-18, 2012.
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116. Anton P, Cranston R, Carball-Dieguez A, **Kashuba ADM**, Elliott J, Cumberland W, Mauck C, McGowan I. RMP-02/MTN-006: A Phase 1 Placebo Controlled Trial of Rectally Applied 1% Vaginal Tenofovir Gel with Comparison to Oral Tenofovir Disoproxil Fumarate. Oral Presentation. 18th Annual Conference on Retroviruses and Opportunistic Infections. Boston, MA. February 27-March 2, 2011
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121. **Kashuba, ADM**. Drug Penetration into the Male and Female Genital Tract. Invited Presentation. #1906. ICAAC, Boston, MA, Sept 2010.
122. M. Cohen-Wolkowicz, D. K. Benjamin Jr. , L. Piper, C. Moran, P. Liu, J. Aram, **A. Kashuba**, E. Capparelli, T. Walsh, W. Hope, P. Smith. Safety and Pharmacokinetics of Multiple-Dose Anidulafungin in Neonates. Poster Presentation. A1-034. ICAAC, Boston, MA, Sept 2010.
123. A Corbett, D Kayira, **A Kashuba**, N White, A Kourtis, C Chasela, F Martinson, G Phiri, B Musisi, D Kamwendo, M Hudgens, M Hosseinipour, C Van Der Horst For The Ban Study Team. Pharmacokinetics (PK) of HAART in Mothers and Breastfeeding Infants From 6-24 Weeks Post-partum. Poster Presentation. A1-2017. ICAAC, Boston, MA, Sept 2010.
124. Kendrick R, Dumond J, Forrest A, Cohen MS, **Kashuba ADM**. Pharmacokinetic Modeling of Antiretrovirals and their Intracellular Metabolites in Blood and Seminal Plasma. Poster Presentation A1-2016. ICAAC, Boston, MA, Sept 2010.
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209. Gotzkowsky S.K., Weidler J.W., Tonkin J., Raasch R.H., van der Horst C., **Kashuba A.D.M.** *Cytochrome P450 3A4 and 2D6 Activities are Decreased in HIV-Infected Subjects*. Platform Presentation, Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA, 1999.
210. Gotzkowsky S.K., **Kashuba A.D.M.**, Hall W., Kulawy R.W., Beck D.J., Rocci M.L., Nafziger A.N., Bertino J.S. Jr. *Poor Correlation Between 24 hour Urinary 6 β -hydroxy*

Cortisol: Cortisol Molar Ratios and Plasma Midazolam Clearance as Measures of Hepatic CYP3A Activity. Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, San Antonio, TX, 1999.

211. **Kashuba A.D.M.**, Nafziger A.N., Kearns G.L., Leeder J.S., Gotschall R, Rocci M.L., Kulawy R.W., Beck D.J., Bertino J.S., Jr. *Dextromethorphan N-demethylation does not accurately reflect hepatic CYP3A Phenotype.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, San Antonio, TX, 1999.
212. Kim JS, **Kashuba A.D.M.**, Nafziger AN, Rocci ML, Kulawy RW, Beck DJ, Bertino JS. *Optimal Plasma Sampling to Predict AUC of the CYP3A Probe Midazolam.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, San Antonio, TX, 1999.
213. McCune J, **Kashuba A.D.M.**, Decker J, Meadowcroft A, Williamson K, Pieper J, Lindley C. *Influence of Menstrual Cycle on Cytochrome P450 Enzyme Activity: Results of a Pilot Trial.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, San Antonio, TX, 1999.
214. **Kashuba A.D.M.** *Inflammation, Cytokine Networks, and Drug Metabolism: Experimental and Clinical Findings.* International Pharmaceutical Abstracts 1998;35(21):2310.
215. **Kashuba A.D.M.**, Nafziger A.N., Kearns G.L., Leeder J.S., Gotschall R., Rocci M.L., Kulawy R.W., Beck D.J., Bertino J.S. Jr. *Effect of Fluvoxamine Therapy on the Activities of CYP1A2, CYP2D6, and CYP3A.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, New Orleans, LA, 1998.
216. **Kashuba A.D.M.**, Bertino J.S. Jr., Rocci M.L., Kulawy R.W., Beck D.J., Nafziger A.N. *Influence of Sex and Menstrual Cycle on CYP3A Activity Measured by Phenotyping with Intravenous Midazolam.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, New Orleans, LA, 1998.
217. Nafziger A.N., **Kashuba A.D.M.**, James A, Kearns G.L., Leeder J.S., Gotschall R., Bertino J.S. Jr. *The Influence of Sex and Menstrual Cycle on CYP1A2, NAT2, and Xanthine Oxidase Activity.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, New Orleans, LA, 1998.
218. Bertino J.S. Jr., **Kashuba A.D.M.**, Shirey C., Kearns G.L. Leeder J.S., Gotschall R., Nafziger A.N. *Long-term Intraindividual Variability and the Influence of Sex on CYP2D6 Activity.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, New Orleans, LA, 1998.
219. Lindley C., Decker J., McCune J., **Kashuba A.D.M.**, Meadowcroft A., Hall W., Patterson J.H., Pieper J.A. *Dextromethorphan and Cortisol Metabolic Ratios: Correlates of CYP3A4 Activity.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, New Orleans, LA, 1998.
220. McCune J., Lindley C., Sawyer W., Williamson K., **Kashuba A.D.M.**, Pieper J. *Comparison of 24 Hour and Morning 6 β OH Cortisol:Cortisol ratio in Men; Women on Oral Contraceptives, and Women Not on Oral Contraceptives.* Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, New Orleans, LA, 1998.

221. Nafziger A.N., Goss-Bley A., Bertino J.S. Jr., **Kashuba A.D.M.** *Incidence of Sexual Dysfunction in Normal Volunteers on Fluvoxamine Therapy*, Poster Presentation, American Psychiatric Association 150th Annual Meeting, San Diego, Ca, 1997.
222. **Kashuba A.D.M.**, Bertino J.S. Jr., Nafziger A.N. *Rapid Achievement of Aminoglycoside Pharmacokinetic and Pharmacodynamic Goals to Attain Therapeutic Response in Gram-Negative Pneumonia: Use of Large Loading Doses with Individualized Pharmacokinetic Monitoring*, Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, San Diego, Ca, 1997.
223. **Kashuba A.D.M.**, Shirey C.S., Bertino J.S. Jr., Kearns G.L., Nafziger A.N. *Effect of Menstrual Cycle Phase on CYP2D6 Activity in Extensive Metabolizers as Measured by Dextromethorphan Phenotyping*, Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, San Diego, Ca, 1997.
224. **Kashuba A.D.M.**, Nafziger A.N., Drusano, G.L., Bertino J.S. Jr., *Early Optimization of Aminoglycoside Pharmacokinetic Goals Reduces Time to Therapeutic Response in Gram-Negative Pneumonia*, Platform Presentation, Interscience Conference on Antimicrobial Agents and Chemotherapy, New Orleans, Louisiana, 1996.
225. **Kashuba A.D.M.**, Nafziger A.N., Bertino J.S. Jr., *Predictors of Therapeutic Response to Aminoglycosides in Gram-Negative Pneumonia and Bacteremia*, Poster Presentation, American Society for Clinical Pharmacology and Therapeutics Annual Meeting, Orlando, Fla, 1996.
226. **Kashuba A.D.M.**, Ballow C., Forrest A., *Development of a Population Pharmacokinetic Model and Optimal Sampling Strategies for Intravenous Ceftazidime in the Critically Ill*, Poster Presentation, American College of Clinical Pharmacists Annual Meeting, Washington, DC, 1995.
227. **Kashuba A.D.M.**, Law R., Ohlsson A., *Comparison of Two Vancomycin Dosing Guidelines for Use in the Neonatal Intensive Care Unit: A Focus on Serum Concentrations and Cost Effectiveness*. Women's College Hospital Ninth Annual Research Meeting, Toronto, Ontario, 1992

TEACHING ACTIVITIES

COURSE COORDINATOR:

1. Course Number: DPET 806 (PY2/3 Elective)
Course Title: THE PACKAGE INSERT: Drug Development for Clinicians
Dates: 2011 - 2013
2. Course Number: Pharmacy 361
Course Title: Graduate Student/Fellow Seminar Series/Journal Club
Dates: 2000 - 2006
3. Course Number: Pharmacy 193 (post doctoral research fellows)
Course Title: Clinical Research Methods
Dates: 1998-2000
4. Course Number: PHCY 450 (3rd year, spring semester capstone course)
Course Title: Pharmacotherapy VIII: Problems
Dates: 1998-2000 (course developer)

LECTURER:

Semester/Year	Course Number, title, type	Enrollment	Teaching Responsibility
Spring 2019	PHCY 718 The Patient Care Experience 2.0, 2 credit, Required PharmD	150	Weekly small group facilitator, 8 contact hours
Fall 2018	DPOP872; Proposal Writing, 3 credit, Elective, PhD	10	Lecturer; 1 contact hour
Spring 2018	PY2 OSCE	150	Facilitator/Proctor, 4 contact hours
Spring 2018	PHCY 718 The Patient Care Experience, 2 credit, Required PharmD	150	Weekly small group facilitator, 16 contact hours
Spring 2017	PHCY510 Foundations in Clinical Pharmacology, 3 credit, Required PharmD	150	Final exam case author 1 contact hour
Spring 2017	EPID 896, Clinical Research and Professional Development Seminar; Research Fundamentals	42	Group lecturer 10 contact hours
Spring 2017	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Spring 2016	PHCY510 Foundations in Clinical Pharmacology, Required PharmD	150	Final exam case author 1 contact hour
Spring 2016	EPID 896, Clinical Research and Professional Development Seminar; Research Fundamentals	42	Group lecturer 10 contact hours
Spring 2016	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Fall 2015	EPID 896, Clinical Research and Professional Development Seminar; Research Fundamentals	42	Group lecturer 10 contact hours
Spring 2015	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours

Fall 2014	EPID 896, Clinical Research and Professional Development Seminar; Research Fundamentals	35	Group lecturer 10 contact hours
Spring 2014	PHCY 805 (section 001) Independent Research Study	1	Course coordinator 2.0 credit hours
Spring 2014	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Spring 2013	EPID 690, Design of Clinical Research Studies, 3 credit, Required MPH	25	Lecturer 2 lecture hours
Spring 2013	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Spring 2013	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 2 contact hours
Spring 2012	EPID 690, Design of Clinical Research Studies, 3 credit, Required MPH	20	Lecturer 2 lecture hours
Spring 2012	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Spring 2012	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 2 contact hours
Spring 2011	EPID 690, Design of Clinical Research Studies, 3 credit, Required MPH	25	Lecturer 2 lecture hours
Spring 2011	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Spring 2011	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 2 contact hours
Spring 2010	EPID 690, Design of Clinical Research Studies, 3 credit, Required MPH	25	Lecturer 2 lecture hours
Spring 2010	DPET 810, AIDS: Principles, Practices, and Politics, 2 credit, elective PharmD	20	Lecturer 1 lecture hour
Spring 2010	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	150	Group facilitator 40 contact hours
Spring 2010	MS1, Medical Small Group Sessions in Pharmacology, 4 credit, Required MD	140	Group facilitator 3 contact hours
Spring 2010	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 2 contact hours
Spring 2009	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 2 contact hours
Spring 2009	MS1, Medical Small Group Sessions in Pharmacology, 4 credit, Required MD	140	Group facilitator 3 contact hours
Spring 2009	EPID 690, Design of Clinical Research Studies, 3 credit, Required MPH	25	Lecturer 2 lecture hours
Spring 2009	DPET 810, AIDS: Principles, Practices, and Politics, 2 credit, elective PharmD	20	Lecturer 1 lecture hour
Spring 2009	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	140	Group facilitator and case author 40 contact hours
Spring 2008	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 2 contact hours
Spring 2008	DPET 810, AIDS: Principles, Practices, and Politics, 2 credit, elective PharmD	20	Lecturer 1 lecture hour
Spring 2008	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	140	Group facilitator 40 contact hours

Spring 2007	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	140	Lecturer 4 contact hours
Spring 2007	DPET 810, AIDS: Principles, Practices, and Politics, 2 credit, elective PharmD	20	Lecturer 1 lecture hour
Spring 2007	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	140	Group facilitator and case author 40 contact hours
Spring 2007	DPET 832, Introduction to Applied Pharmacogenomics, 3 credit, Elective PharmD	10	Lecturer 1 contact hour
Fall 2006	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Fall 2006	DPET 840, Advanced Pharmacotherapy, 3 credit, Required PhD	10	Lecturer 15 contact hours
Spring 2006	DPET 832, Introduction to Applied Pharmacogenomics, 3 credit, Elective PharmD	10	Lecturer 1 contact hour
Spring 2006	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	120	Group facilitator 40 contact hours
Spring 2006	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	150	Lecturer 4 contact hours
Fall 2005	DPET 840, Advanced Pharmacotherapy, 3 credit, Required PhD	7	Lecturer 15 contact hours
Fall 2005	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Spring 2005	DPET 832, Introduction to Applied Pharmacogenomics, 3 credit, Elective PharmD	10	Lecturer 1 contact hour
Spring 2005	PHCY 450, Problems in Pharmacotherapy, 3 credit, Required PharmD	120	Group facilitator 40 contact hours
Spring 2005	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	120	Lecturer 4 contact hours
Fall 2004	DPET 840, Advanced Pharmacotherapy, 3 credit, Required PhD	6	Lecturer 15 contact hours
Fall 2004	PHCY 449, Pharmacotherapy VII: Infectious Diseases, 3 credit, Required PharmD	120	Lecturer 4 contact hours
Fall 2004	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Spring 2004	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	120	Lecturer 4 contact hours
Spring 2004	DPET 832, Introduction to Applied Pharmacogenomics, 3 credit, Elective PharmD	10	Lecturer 1 contact hour
Fall 2003	PHCY 449, Pharmacotherapy VII: Infectious Diseases, 3 credit, Required PharmD	120	Lecturer 6 contact hours
Fall 2003	DPET 840, Advanced Pharmacotherapy, 3 credit, Required PhD	8	Lecturer 15 contact hours
Fall 2003	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Spring 2003	PHCY 414, Clinical Pharmacokinetics, 3 credit, Required PharmD	120	Lecturer 2 contact hours
Spring 2003	DPET 832, Introduction to Applied Pharmacogenomics, 3 credit, Elective PharmD	10	Lecturer 1 contact hour
Fall 2002	PHCY 449, Pharmacotherapy VII: Infectious Diseases, 3 credit, Required PharmD	120	Lecturer 4 contact hours
Fall 2002	PHCY 193 Clinical Research Methods, 3 credit,	12	Lecturer

	Required Drug Development Fellows		3
Fall 2002	DPET 840, Advanced Pharmacotherapy, 3 credit, Required PhD	7	Lecturer 15 contact hours
Fall 2002	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Spring 2002	DPET 832, Introduction to Applied Pharmacogenomics, 3 credit, Elective PharmD	10	Lecturer 1 contact hour
Spring 2002	PHCY 139, Computer Applications in Clinical Drug Development and Pharmacokinetics, 3 credit, Required Drug Development Fellows	12	Lecturer 3 contact hours
Fall 2001	PHCY 193 Clinical Research Methods, 3 credit, Required Drug Development Fellows	12	Lecturer 3
Fall 2001	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Fall 2001	PHCY 449, Pharmacotherapy VII: Infectious Diseases, 3 credit, Required PharmD	120	Lecturer 4 contact hours
Fall 2001	PHCY 193 Clinical Research Methods, 3 credit, Required Drug Development Fellows	12	Lecturer 3
Spring 2001	PHCY 139, Computer Applications in Clinical Drug Development and Pharmacokinetics, 3 credit, Required Drug Development Fellows	12	Lecturer 3 contact hours
Fall 2000	PHCY 193 Clinical Research Methods, 3 credit, Required Drug Development Fellows	12	Lecturer 3
Fall 2000	PHCY 193 Clinical Research Methods, 3 credit, Required Drug Development Fellows	12	Lecturer 3
Fall 2000	MOPH 810, Drug Metabolism, 3 credit, Required PhD	15	Lecturer 2 contact hours
Fall 2000	PHCY 449, Pharmacotherapy VII: Infectious Diseases, 3 credit, Required PharmD	120	Lecturer 4 contact hours
Spring 2000	PHCY 139, Computer Applications in Clinical Drug Development and Pharmacokinetics, 3 credit, Required Drug Development Fellows	12	Lecturer 3 contact hours

Courses Taught 1997-1999:

PHCY 450 (3rd year, spring semester capstone course)
Pharmacotherapy VIII: Problems in Pharmacotherapy

PHCY 414 (2nd year, spring semester)
Clinical Pharmacokinetics

MOPH 810 (graduate students, fall semester)
Drug Metabolism
Lecturer

PHCY 449 (3rd year, fall semester)
Pharmacotherapy VII: Infectious Diseases

Pharmacy 139 (post-doctoral research fellows)
Computer Applications in Clinical Drug Development and Pharmacokinetics

Pharmacy 193 (post-doctoral research fellows)
Clinical Research Methods

MENTORING:

Graduate Students

2018 – Present	Major Advisor Talisa Kinsale, MS Eshelman Fellowship Awardee
2017 – Present	Major Advisor Aaron Devanathan, PharmD Eshelman Fellowship Awardee
2016 – Present	Major Advisor Erin Burgunder, BS Eshelman Fellowship Awardee Identifying Factors Influencing Antiretroviral Pharmacology and HIV Eradication in Macaque and Human Lymph Nodes Division of Pharmacotherapy and Experimental Therapeutics
2016 – 2017	Summer Rotation Advisor Shane Falcinelli, BS UNC MD/PhD Student
2014 – 2018	Major Advisor Nithya Srinivas, BS UNC PhD Student, UNC Royster's Fellow Distribution of Antiretrovirals Within the Brain Tissue and Relationship with Neurocognitive Impairment Due to HIV Division of Pharmacotherapy and Experimental Therapeutics 2018 – Present: Research Investigator, Incyte Corporation
2012 – 2017	Major Advisor Corbin Thompson, PharmD UNC PhD Student Mechanisms of Mucosal Tissue Drug Distribution Division of Pharmacotherapy and Experimental Therapeutics 2017 – Present: DMPK Scientist, Theravance Biopharma US
2014 – 2016	Committee Member Oranat Palm Chuchuen Duke University PhD Student Development of Raman Spectroscopy-Based Methods for Analysis of Microbicide Transport in Gels and Tissues Department of Biomedical Engineering
2014	External Examiner Brendan Osborne Clinical and Immunological Correlates of Semen HIV-1 RNA Shedding University of Toronto, School of Graduate Studies, Doctor of Philosophy
2009 – 2014	Major Advisor Melanie Nicol, PharmD

UNC PhD Student
Molecular Pharmacology Applications to HIV Prevention Strategies
Division of Pharmacotherapy and Experimental Therapeutics
2014 – Present: Assistant Professor, Department of
Experimental and Clinical Pharmacology,
University of Minnesota College of
Pharmacy

2008 – 2012
UNC Major Advisor
Micky Cohen-Wolkowicz, MD
UNC PhD Student
Pharmacokinetic-Pharmacodynamic Relationships of Antimicrobials
in Neonates
Division of Pharmacotherapy and Experimental Therapeutics
2012 – 2014: Assistant Professor, Department of
Pediatrics, School of Medicine, Duke
University
2014 – 2017: Associate Professor, Department of
Pediatrics, School of Medicine, Duke
University
2017 – Present Professor of Pediatrics, Director, Duke
Clinical Research Institute

2008 – 2009
Major Advisor
Sunita Paul, MS
UNC PhD Student
Molecular Pharmacology Applications to HIV Prevention Strategies
Division of Pharmacotherapy and Experimental Therapeutics
2009 – Present: Senior Site Manager for Global Clinical
Operations, Janssen Virology, Research
Pharmaceutical Services

2001 – 2005
Major Advisor
Mary Peace McRae, Pharm.D, Ph.D.
PhD in Pharmaceutical Sciences from UNC-CH
Understanding the Hepatotoxicity of Antiretroviral Drugs in the
Treatment of HIV/AIDS
Division of Pharmacotherapy and Experimental Therapeutics
2006 – 2011: Assistant Professor, Department of
Pharmacology, Kansas City University of
Medicine and Biosciences
2011 – 2012: Associate Professor, Department of
Pharmacology, Kansas City University of
Medicine and Biosciences
2012 – Present: Assistant Professor, Department of
Pharmacotherapy and Outcomes Sciences,
Virginia Commonwealth University

2002 – 2007
Major Advisor
Naser L. Rezk, MS, Ph.D.
PhD in Bioorganic Chemistry from Tanta University, Egypt
Simultaneous quantification of antiretroviral medications in human
breast milk

2007 – 2009: Research Assistant Professor, School of
Pharmacy, UNC Center for AIDS
Research, UNC-CH, Chapel Hill, NC

UNC School of Pharmacy Postdoctoral Research Fellows:

those in **BOLD are 2-3 year academic clinical pharmacology research fellows, program accredited by ACCP*

1997 - 1999	Jodi W. Weidler, Pharm.D., GlaxoWellcome Research Fellow
1998 - 2000	S. Karl Gotzkowsky, Pharm.D., GlaxoWellcome Research Fellow
1999 - 2001	Julie Kim, Pharm.D., GlaxoWellcome Research Fellow Mary Jayne Kennedy, Pharm.D., Pediatric Research Fellow Naumann Chaudry, Pharm.D., PPD Research Fellow
2000 - 2002	Sunila Reddy, Pharm.D., GlaxoWellcome Research Fellow
2001 - 2003	Amanda Corbett, Pharm.D., HIV Pharmacology Research Fellow Michael Lim, Pharm.D., GlaxoSmithKline Research Fellow
2002 – 2004	Jennifer Park, Pharm.D., GlaxoSmithKline Research Fellow Leslie Davidsion, Pharm.D., Pozen Research Fellow
2003 – 2005	Rosa Yeh, Pharm.D., HIV Pharmacology Research Fellow Ya-Chi Chen, Pharm.D., GlaxoSmithKline Research Fellow Hiba Tappouni, Pharm.D., GlaxoSmithKline Research Fellow
2005 – 2007	Julie Dumond, Pharm.D., HIV Pharmacology Research Fellow Manoli Vourvahis, Pharm.D., GlaxoSmithKline Research Fellow
2006 – 2008	Kan Lu, MS, Pharm.D., GlaxoSmithKline Research Fellow
2007 – 2008	Sunny Paul, MS, HIV Pharmacology Training Program
2007 – 2010	Kevin Brown, Pharm.D., HIV Pharmacology Research Fellow
2008 – 2010	Amanda Jones, Pharm.D., United Therapeutics Research Fellow
2009 – 2011	Racheal Kendrick, Pharm.D., Quintiles Pharmacokinetics Fellow
2010 – 2011	Anne Mattson, Pharm.D., GlaxoSmithKline Research Fellow
2010 – 2012	Jessica Adams, Pharm.D., HIV Pharmacology Research Fellow
2011 – 2013	Ben Greener, Pharm.D., PPD Drug Development Fellow
2012 - 2014	Tanja Hadzic, PhD, Quintiles Research Fellow
2012 – 2015	Mackenzie Cottrell, Pharm.D., M.S., HIV Pharmacology Research Fellow, T32 Clinical Pharmacology Fellow
2013 – 2015	Christine Trezza, Pharm.D., GlaxoSmithKline Research Fellow
2014 – 2016	Elizabeth Andrews, PharmD. PPD Drug Development Fellow
2015 – 2017	Michael Weber, PharmD, United Therapeutics Drug Development Fellow
2015 – 2017	Katy Garrett, Pharm.D., HIV Pharmacology Research Fellow
2016 – 2018	Robert Pope, PharmD, PPD Drug Development Fellow
2017 – 2019	Kristin Moody, PharmD, GSK Medical Affairs Fellow
2018 – 2020	Daijha Anderson, PharmD, GSK Medical Affairs Fellow

International Postdoctoral Fellows

2017 – Present	Adeniyi Olagunju, PhD Wellcome Trust Fellow & Lecturer I Faculty of Pharmacy Obafemi Awolowo University Ile-Ife, Nigeria
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International Visiting Scientists

05/2004 – 05/2005	Byung Hwa Jung, PhD, Bioanalysis and Biotransformation Research Center Korea Institute of Science and Technology Seoul, South Korea
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12/2005 – 12/2007 Sun Ok Choi, PhD
Senior Scientific Officer
Division of Biopharmaceutics
National Institute of Toxicological Research
Korea Food and Drug Administration
Seoul, South Korea

July 2006 Mohamed F. Abdel Megeed El-Shereif
Professor of Organic Chemistry
Chemistry Department
Faculty of Science
University of Tanta
Tanta, Egypt

5/2008 – 12/2008 Li Hou, PhD
Postdoctoral Research Fellow
National University of Singapore

UNC Carolina Covenant Scholars

2009-2011 Allison Hastings (UNC biology major)
UNC Summer Undergraduate Fellowship Awardee
Graduated with Highest Honors in Biology
MD from UVA

2016 Lance Snodderly (UNC biology major)
Laboratory Intern

UNC Roadmap Training Program

2006 Donglei Yu, PhD Candidate, School of Pharmacy

UNC School of Pharmacy Campbell Faculty Mentoring Program:

2018 – Present Aaron Anselmo, PhD
Assistant Professor
Division of Pharmacoengineering and Molecular Pharmaceutics

2017 – Present Sachiko Ozawa, PhD, MHS
Associate Professor,
Division of Practice Advancement and Clinical Education

2012 – 2017 Christine Uzonna Oramasionwu, Pharm.D., Ph.D., BCPS
Assistant Professor,
Division of Pharmaceutical Outcomes and Policy

UNC School of Pharmacy Students:

1999 - 2000	Tamara Watson, Pharm.D. Candidate, Research Honor Student Penetration of Liposome-Encapsulated AZT Diphosphate in Macrophages
2000 - 2002	Melissa Diebold, Pharm.D. Candidate, Research Honor Student Efficacy, Safety, and Pharmacokinetics of An Amprenavir 600mg/Saquinavir 800mg/Ritonavir 100mg BID – Based Antiretroviral Salvage Regimen
2001 - 2003	Ashley Herring, Pharm.D. Candidate, Research Honor Student Correlation of PXR and RXR Receptor Expression with IL-1 and IL-6 Suppression of CYP3A Activity in Human Hepatocytes
2002 – 2004	Stephanie Burge Hollowell, Pharm.D. Candidate, Research Honor Student Effect of Omeprazole on the Pharmacokinetics of Indinavir
2003 – 2004	Vincent Gaver, Pharm.D. Candidate, Research Honor Student Evaluating the Effects of Lopinavir/Ritonavir (Kaletra®) on Cytochrome P450 Activity Using A Biomarker Cocktail in Healthy Human Volunteers
2003 – 2005	Carolina Molina Lowe, Pharm.D. Candidate, Infectious Diseases Scholarly Program Student. Effects of BSEP Activity on The Development of Hepatotoxicity of Antiretroviral Agents
2004 – 2005	Wole Johnson, BS Candidate, Durham Technical Institute, North Carolina Transfer Assistance in the Biomedical Sciences Scholar
2005 - 2006	Christina Sarrubbi, Pharm.D. Candidate, Research Honor Student Comparison of 3 Hour Omeprazole and 5-hydroxyomeprazole Concentration Ratios to 24 Hour AUC Ratios as a Measure of Hepatic CYP2C19 Activity
2005 – 2007	Irene La, Pharm.D. Candidate, Research Honor Student Evaluating the Effects of Tipranavir (with Ritonavir) Capsule and Liquid Formulation on Cytochrome P450 and P-glycoprotein Activity Using a Biomarker Cocktail in Healthy Human Volunteers.
2006 - 2007	Amanda Jones, Pharm.D. Candidate, Research Elective Student Erythromycin Breath Test: A basis for sex differences, and lack of effect of CYP3A5 expression and <i>MDR1</i> genotypes
2006 – 2007	Kevin Brown, Pharm.D. Candidate, Clinical Specialists Program The Relationship Between Drug Metabolizing Enzyme and Drug Transporter Genotypes and Nevirapine Exposure in HIV-Infected Malawian Adults and Children
2007 – 2009	Allison Pecha, Pharm.D. Candidate, Research Honor Student

A Phase I, Open Label, Study in Healthy Female Subjects to Investigate the Extent of Maraviroc Exposure in Blood, Cervicovaginal Fluid, Vaginal Tissue and to Investigate CCR5 Receptor Saturation in Cervicovaginal Mononuclear Cells and Peripheral Blood Mononuclear Cells, Following Single and Multiple Dosing of Maraviroc.

- 2009 – 2011 Brianna Franklin, Pharm.D. Candidate, Research Honor Student
Maraviroc as an Agent for HIV Prevention (MAP). A Phase IV Open-Label Study to Characterize the Relationship Between Single-Dose Maraviroc Concentrations in Cervical and Vaginal Tissues of Women and Their Ability to Inhibit HIV Infection in an Ex-Vivo Explant Culture Model.
- 2010 – 2013 Maya Wai, PharmD Candidate, Research Honor Student
A Phase I, Open Label, Study in Healthy Female Subjects to Describe GSK1349572 Exposure in Blood, Cervicovaginal Fluid, and Cervical and Vaginal Tissue Following Single and Multiple Dosing of GSK1349572
- 2014, Spring Semester Angela Kashyap, PharmD Candidate, Research Elective
Mucosal Pharmacokinetics of Tenofovir Alafenamide Fumarate (GS-7340)
- 2014 – 2016 Amanda Malone, PharmD Candidate, Research Honor Student
Mucosal Pharmacokinetics of Tenofovir Alafenamide Fumarate (GS-7340)
- 2014 – 2017 Ashley Moody, PharmD Candidate, Research Honor Student
Antiretroviral Exposure within the Central Nervous System of Preclinical Models of HIV Infection
- 2015 (summer) John Jones, PharmD Candidate, SBTDC/ESOP Intern, EDGE Office
- 2015 - 2019 Ashlyn Norris, PharmD Candidate
AFPE Gateway Recipient
Antiretroviral Drug Distribution in Nonhuman Primate Testes
- 2018 - 2019 Ashley Saunders, PharmD Candidate
The Use of Mass Spectroscopy Imaging to Measure Drug Adherence in Hair

UNC Eshelman Innovation Institute Young Innovator Program Students

Summer 2018 Suleman Qamar, Panther Creek High School
Bryan Yam, Chapel Hill High School

UNC Hospitals Residents:

2000 - 2001 Amanda Corbett, Pharm.D., Infectious Diseases Specialty Resident
2001 – 2002 Brian Donovan, Pharm.D., Infectious Diseases Specialty Resident

UNC School of Medicine Students:

2006 – 2007 Rebecca Werner, BS

UNC School of Medicine Fellows:

2000 – 2003 Sherene Min, M.D., Infectious Diseases Fellow
2002 – 2003 Esam Hamed, M.D., Anesthesiology Fellow

UNC Building Interdisciplinary Research Careers in Women's Health (BIRCWH K12)

Scholars:

2003 – 2005 Kristine Patterson, M.D., Assistant Professor, Division of Infectious Diseases, Department of Medicine

UNC Center for AIDS Research Investigators:

1999 - 2000 Jose F. Rodrigues, Ph.D., University of Puerto Rico
2000 - 2002 John Rublein, Pharm.D., UNC Chapel Hill
2002 – 2006 Susan Cu-Uvin, MD, Brown University
2004 – 2005 Amanda Corbett, Pharm.D., UNC Chapel Hill
Rebecca Dillingham, M.D., University of Virginia
2008 - 2013 Gretchen Stuart, M.D., UNC Chapel Hill

UNC Interdisciplinary Clinical Research Career Development (KL2) Program:

2010 – 2017 Gary Asher, MD, Assistant Professor, UNC Dept of Family Medicine

UNC Research Apprenticeship Program Students

2006 Mahmoud Salameh
Junior, Farmville High School, NC

UNC Postbaccalaureate Research Education Program (PREP):

2017-2018 Bryan Guzman, BS
University of Puerto Rico
R25 GM089569 (unfunded – lab supported)

2018-2019 Micah Willis, BS
North Carolina Central University
R25 GM089569 (funded)

Undergraduate Students:

2006 - 2007 Ji Song Kim (UNC biochemistry major)
Saed Adwalla (UNC chemistry major)

2007 Janice McMillan (Oberlin chemistry major)
Robert Hartley (Oberlin chemistry major)

2008 Sam Alfiler (Oberlin chemistry major)

International Students:

2003 Mwayi Kazembe, Malawi, Africa,
UNC Research Apprenticeship Program
2005 Susan Pendame, Malawi, Africa
UNC Research Apprenticeship Program

INVESTIGATOR-INITIATED REFEREED GRANTS and CONTRACTS (123):

NEW AWARDS FOR 2018

1. Benhabbour, R, Principle Investigator. **Kashuba, Angela, Co-Investigator**. Innovative 3D Printed Intravaginal Rings: Reengineering Multipurpose Intravaginal Rings for Prevention of HIV, STIs and Unintended Pregnancy. R61 AI136002. 10% effort. \$300,000; 08/08/2018 – 07/31/2020
2. Adimora, A, Principle Investigator. **Kashuba, Angela, Co-Investigator**. UNC MACS/WIHS Combined Cohort Study Clinical Research Site. NIH/NHLBI. 5% effort. \$3,500,946; 1/01/2019 – 12/31/2025
3. Heredia, A. Principle Investigator. **Kashuba, Angela, Co-Investigator**. Impact of Concomitant Chemotherapy on HIV Resistance to cART and Reservoir Size. R01 CA233441 Subaward. 3% effort; \$49,951; 9/01/2018 – 8/31/2023
4. Batchelor, K. Principle Investigator. **Kashuba, Angela, Co-Investigator**. Novel Biguanides to Treat Type 2 Diabetes. R44 DK096803. \$150,000. 4/02/2018 – 3/31/2020

NEW AWARDS 2017

5. Buse, J, Principle Investigator. **Kashuba, Angela, Co-Investigator**. North Carolina Translational & Clinical Sciences Institute (NC TraCS). 1UL1TR001111 (NCATS). 5% Effort. 5/1/2017 – 4/30/22.

NEW AWARDS 2016

6. Sharon Lewin, Principle Investigator, **Kashuba ADM Co-Investigator**. Long term persistence of HIV in the liver and the clinical impact on HIV-HBV co-infection. National Health and Medical Research Council. \$70,173.00. 10/1/2017 – 9/30/2020.
7. Margolis D, Principle Investigator. **Kashuba ADM Co-investigator**. QURA - Project 1 - Round 2 - Discovery, Development and Testing of Latency Reversing Agents. Qura Therapeutics LLC. \$192,173.94. 1/1/2017 – 12/31/2017.
8. Hightow L, Principle Investigator, **Kashuba ADM Co-Investigator**. The UNC/Emory Center for Innovative Technology (iTech) across the prevention and care continuum. U19 (Adolescent Trials Network) (NIAID). \$19,000,000. 7/1/2016 – 6/30/2021.
9. **Kashuba ADM, Principle Investigator**. Brigham and Women's Hospital subcontract for the AIDS Clinical Trial Group (ACTG) UM1 AI068636 (NIAID). \$16,000. 2016-2017.
10. Margolis, D Principle Investigator, **Kashuba ADM, Co-I**. Collaboratory of AIDS Researchers for Eradication (CARE). UM1 AI126619 (NIAID). 7/14/2016 – 7/13/2021. **\$17,271,300** (direct).
11. **Kashuba, ADM Principle Investigator**, Rosen E, Co-PI. Novel Mass Spectrometry Imaging Methods to Quantify Antiretroviral Adherence. \$5,395,638 (direct) R01 AI122319. January 2016 – December 2020
12. Swanstrom R, Principal Investigator, **Kashuba ADM, Co-Investigator**. *UNC Center for AIDS Research (CFAR), Director, Pharmacology Core*. P30-HD37260, 6/2016 - 6/2020. \$5,500,000.00 (Core receives \$320,000 per year direct costs)

NEW AWARDS 2015

13. Boggess, C, Principle Investigator (UNC), **Kashuba ADM**, Co-PI. UNC Building Interdisciplinary Research Careers in Women's Health. \$1,524,694 (direct) K12 HD001441. September 2015 – July 2020.
14. Apetrei, C, Principle Investigator (University of Pittsburgh), **Kashuba ADM, Co-Investigator**. Animal Model of Testing SIV Latency Reversal Strategies. \$390,499 (direct) R01 AI119346. Aug 2015 – Jan 2020.
15. Wira C, Principle Investigator (Dartmouth College), **Kashuba ADM, Co-Investigator**. Chemical Contraceptive Control of Microbicides in the Female Reproductive Tract. \$256,468 (direct) R01 AI117739. Feb 2015 – Jan 2019.
16. **Kashuba ADM, Principle Investigator**. Dose Proportionality of TFV-DP in Mucosal Tissue, and Endogenous Nucleotide Quantification, After a Single Dose of GS-7430 in Women. \$866,691 (direct). Gilead. March 2015 – September 2016.
17. Ambrose, Z, Principle Investigator (University of Pittsburgh), **Kashuba ADM, Co-Investigator**. Visualization of in vivo HIV-1 vaginal transmission in the presence and absence of PrEP. \$100,000 (direct). R01 AI116276. 2015-2016.

NEW AWARDS 2014

18. **Kashuba ADM, Principle Investigator**. A Phase IV, Open-Label Study to Compare Virologic and Immunologic Responses to Raltegravir and Dolutegravir in the Gastrointestinal Tract of HIV-Positive Men and Women. \$316,377 (direct). Merck. October 2014 – September 2015.
19. **Kashuba ADM, Principle Investigator**. Multi-Species Mechanisms of Drug Bio-distribution in HIV Tissue Reservoirs. R01 AI111891 \$4,400,000 (direct). March 15, 2014 – February 28 2019.
20. **Kashuba ADM**. Lab service for In Vivo Drug Interaction Pharmacokinetic Study of Tenofovir 1% Gel and Three Commonly Used Vaginal Products, Protocol A11-118. CONRAD. 06/01/2014 – 05/31/2015. \$73,151 (direct).
21. **Kashuba, ADM, Co-Investigator**. Lab service for assessing the effect of contraception and the menstrual cycle on pharmacokinetics, pharmacodynamics and vaginal safety in tenofovir vaginal gel users. USAID. 1/1/2014 – 08/30/2014. \$160,538 (direct).
22. **Kashuba ADM, Principle Investigator**. Lab service for A Phase I Clinical Trial Assessing the Safety, Pharmacokinetics, Pharmacodynamics, and Disintegration Time of Vaginal Tablets Containing Tenofovir and/or Emtricitabine, Protocol A11-117. 1/1/2014 – 8/31/2014. \$321,084.00 (direct)
23. **Kashuba ADM, Co-Investigator**. (PI: Z Ambrose, University of Pittsburgh) Visualization of in vivo HIV- vaginal transmission in the presence and absence of PrEP. R01 AI116276
24. **Kashuba ADM, Co-Investigator**. (PI: H Reese, Wits reproductive Health and HIV institution) FACTS001 SLA – A phase III multi-center, randomized controlled trial to assess the safety and effectiveness of the vaginal microbicide 1% tenofovir gel in the prevention of HIV-1 infection in young women. 7/1/14 – 6/30/16. \$71,497 (direct).
25. **Kashuba ADM, Co-Investigator**. (PI: J Passmore, Doris Duke Medical Research Institute) Inflammation and HIV risk; understanding partial tenofovir efficacy in CAPRISA004. R01 AI111936. 7/10/14-5/31/16. \$50,000 (direct).

26. **Kashuba ADM**, Co-Investigator. (PI: B Jackson, JHU). Johns Hopkins Purchase Agreement for IMPAACT Study. UM1 AI068632. 1/1/14-11/30/14. \$35,550 (direct).

NEW AWARDS 2013

27. Doncel, G. Principle Investigator (EVMS), **Kashuba ADM, Co-Investigator**. Influence of female reproductive cycle and menopause on cervicovaginal tissue susceptibility to HIV-1 infection and tenofovir gel activity. R01 HD072705. Supplement \$43,977.00 (direct).
28. Garcia-Martinez JV, Principal Investigator, **Kashuba ADM and Mumper R, Co-Investigators**. Next Generation Pre-exposure Prophylaxis. R01 AI096138 (NIAID). Supplement 7/01/2013 – 6/30/2015. \$121,912 (direct).
29. **Kashuba ADM**. UNC Center for AIDS Research Supplement to Purchase Imaging Mass Spectrometer. Supplement to 5P30 AI0504108/1/2013-7/31/2014 \$450,000.00 (direct)
30. Kapito-Tembo, A, Principle Investigator (UNC Project Malawi). **Kashuba ADM, Co-Investigator**. Pharmacovigilance of infants exposed to antiretroviral drugs given to HIV-infected mothers during breastfeeding in Malawi. International AIDS Society Collaborative Initiative for Pediatric HIV Education and Research. 8/2013 – 7/2015. \$150,000.00 (total)
31. Bose, C, Principle Investigator (UNC-CH). **Kashuba ADM, Consultant**. A Strategy to Reduce Stunting of Growth in Early Infancy: A Global Network Study.U10 HD076465 (NICHD). 5/3/2013 - 4/30/2018. \$3,204,360.00 (total)
32. Herrera, C, Principle Investigator (Univ of London Imperial College). **Kashuba ADM, Co-Investigator**. Mucosal tissue explants as surrogates for in vivo efficacy of microbicides. R21 AI094515 (NIAID) 2/2013 – 6-2014. \$ 166,539 (direct).

NEW AWARDS 2012

33. Adimora, A, Principle Investigator (UNC-CH). **Kashuba ADM, Co-Investigator**. University of North Carolina Women's Interagency HIV Study UNC WIHS. NIAID U01 AI103390. 1/1/2013 – 12/31/2017. \$11,877,470 (direct).
34. Hernandez, M, Principle Investigator (UNC-CH). **Kashuba ADM, Co-Mentor**. K23 ES021745 Down-regulation of Oxidant-Induced Airway Inflammation Through Modulation of NRF2. 8/2012 – 7/2017. \$1,033,004
35. **Kashuba ADM, Principle Investigator**. Preventing HIV Infection in Women: Targeting Antiretrovirals to Mucosal Tissues. U01 AI095031 (NIAID) Administrative Supplement 8/2012 – 7/2013. \$254,000 (direct).
36. Akkina, R, Principle Investigator (Colorado State University). **Kashuba ADM, Co-Investigator**. R01 AI100845 Modeling Next Generation HIV PrEP in Humanized Mice 6/1/2012 – 5/31/2015 \$2,066,745 (direct).
37. **Kashuba ADM, Principle Investigator**. ULPC-MS/MS to Support Preclinical and Clinical Pharmacology Studies in HIV Treatment and Prevention". Institutional Development Grant Program. North Carolina Biotechnology Center. \$200,000.00 (direct).

38. Katz, D, Principle Investigator (Duke University), **Kashuba ADM, Co-Investigator**. R01 HD072702 Novel Determination of Microbicide Pharmacokinetics In Women's Reproductive Health. 7/1/2012 – 6/30/17 \$2,313,000 (direct).
39. **Margolis, D**. Principle Investigator (UNC). Kashuba ADM, Co-Investigator. A Phase I/II Investigation of the Effect of Vorinostat (VOR) in HIV Infection. U01 AI095052. 4/1/2012 – 3/31/2016 \$576,704 (direct).
40. Schwartz, J, Principle Investigator (EVMS), **Kashuba, ADM, Co-Investigator**. Assessing the effect of contraception and the menstrual cycle on pharmacokinetics, pharmacodynamics and vaginal safety in tenofovir vaginal gel users. USAID. 1/1/2012 – 08/30/2014. \$160,538 (direct).
41. Doncel, G Principle Investigator (EVMS), **Kashuba, ADM, Co-Investigator**. Enhancing protective activity of topical tenofovir against HIV-1 infection . NIAID U19 . 12/1/2012 – 11/30/2017 \$409,644.00 (direct, subcontract)
42. Doncel, G. Principle Investigator (EVMS), **Kashuba ADM, Co-Investigator**. Differential HIV Infection and Tenofovir Activity in Pre and Postmenopausal women. R01 HD072705. \$409,644.00 (direct, subcontract).
43. Stuart, G. Principle Investigator (UNC-CH). **Kashuba ADM, Co-Investigator**. Pharmacokinetics, pharmacodynamics, and genital tract viral shedding in HIV+ women using combined oral contraceptives and raltegravir. Merck COC-ARV 012012. Merck, Sharp, and Dohme. 5/30/2012 – 5/29/2015. \$387,748.91 (direct).
44. **Kashuba ADM, Principle Investigator** Lab service for A Phase I Clinical Trial Assessing the Safety, Pharmacokinetics, Pharmacodynamics, and Disintegration Time of Vaginal Tablets Containing Tenofovir and/or Emtricitabine, Protocol A11-117. 9/1/2012 – 8/31/2014. \$321,084.00 (direct)

NEW AWARDS 2011

45. **Kashuba ADM, Principle Investigator**. Truvada For Prevention of HIV In Women (FemPrEP). 0437.0158/805273. FHI360. 7/2011 – 06/2013. \$417,020 (direct)
46. **Kashuba ADMK, Principle Investigator**. HIV Vaccine Trials Network Laboratory Program. Fred Hutchinson Cancer Research Center. 8/18/2011 – 8/17/2013. \$295,200.
47. **Kashuba ADM, Principle Investigator**. Preventing HIV Infection in Women: Targeting Antiretrovirals to Mucosal Tissues. U01 AI095031 (NIAID) 8/2011 – 7/2014. 1,479,082 (direct).
48. **Kashuba ADM, Principle Investigator**. UPLC-MS/MS to Support Preclinical and Clinical Antiretroviral Pharmacology Studies. S10 RR026581 (NCRR) 8/2011 \$402,500 (direct).
49. Ju, S, Principle Investigator (EVMS), **Kashuba, ADM, Co-Investigator**. PPC-11-119: Pharmacokinetic and Pharmacodynamic Study of Tenofovir 1% Gel Using the BAT 24 Regimen Versus Daily and Pericoital Dosing. Eastern Virginia Medical School. 8/3/2011 – 8/2 2013 \$305,893 (direct).
50. Schwartz, J, Principle Investigator (CONRAD), **Kashuba ADM, Co-Investigator**. Influence of female reproductive cycle and menopause on cervicovaginal tissue

susceptibility to HIV-1 infection and tenofovir gel activity. CONRAD. 8/4/2011 – 8/3/2013. \$166,193 (direct)

51. Swanstrom R, Principle Investigator, **Kashuba ADM Co-Investigator**. HIV Tropism, Persistence, Inflammation, and Neurocognition in Therapy Initiation. P01 MH094177. \$5,000,000 NIMH 8/22/2011 – 5/31/2016
52. **Kashuba ADM, Principle Investigator**. CO-US-106-0104 Phase IIb Trial to assess the safety and effectiveness of the vaginal microbicide 1% tenofovir gel for the prevention of HIV infection in women in South Africa. Gilead Sciences. 8/12/2011 – 8/11/2012. \$168,000
53. Margolis D, Principal Investigator, **Kashuba ADM Co-Investigator and Clinical Pharmacology Core Director**. Martin Delaney Collaboratory to Eradicate HIV-1 Infection. U19 AI096113 (NIAID). 7/01/2011 – 6/30/2016. **\$24,590,259** (direct) (Core receives \$300,000 per year direct costs).
54. Garcia-Martinez JV, Principal Investigator, **Kashuba ADM and Mumper R, Co-Investigators**. Next Generation Pre-exposure Prophylaxis. R01 AI096138 (NIAID). 7/01/2011 – 6/30/2015. \$1,999,036 (direct).
55. **Kashuba ADM, Principal Investigator**, Patterson KB, Co-Investigator. A Phase I, Open Label, Study in Healthy Male Subjects to Describe GSK1349572 Exposure in Blood, Semen, and Rectal Tissue Following Single and Multiple Dosing of GSK1349572. Investigator-initiated research grant. GlaxoSmithKline. 010/2011 – 09-2013. \$368,000
56. **Kashuba ADM, Principal Investigator**, Patterson KB, Co-Investigator. A Phase I, Open Label, Study in Healthy Female Subjects to Describe GSK1349572 Exposure in Blood, Cervicovaginal Fluid, and Cervical and Vaginal Tissue Following Single and Multiple Dosing of GSK1349572. Investigator-initiated research grant. GlaxoSmithKline. 05/2011 – 04-2013. \$300,000
57. Swanstrom R, Principal Investigator, **Kashuba ADM, Co-Investigator**. *UNC Center for AIDS Research (CFAR), Director, Pharmacology Core*. P30-HD37260, 6/2011 - 6/2016. \$5,500,000.00 (Core receives \$320,000 per year direct costs)
58. **Kashuba, ADM, Principle Investigator**. Duke Acyclovir Subcontract for Contract No HHSN275201000003I under Task Order No HHSN27500005 funded by NIH NICHD. \$48,634.
59. Dumond, JD, Principal Investigator; **Kashuba ADM Mentor and Co-Investigator** Optimizing Antiretroviral Use In Aging: Pharmacokinetics, Response, And Toxicity. K23AI093156 (NIAID). March 2011- February 2016 \$540,595 (direct).
60. Brouwer KL, Watkins PB, Benjamin DK, Principal Investigators. **Kashuba ADM Co-Investigator (Co-Director, Clinical Pharmacology Fellowship)** UNC-Duke Collaborative Clinical Pharmacology Postdoctoral Training Program. T32 GM086330 (NIGMS). July 2011 – June 2016. \$2,043,611

NEW AWARDS 2010

61. **Kashuba ADM**. Principal Investigator. Antiretroviral Drug Exposure in Phase III Clinical Studies of a Novel Compound to Reduce HIV-Associated Diarrhea. Salix Master Services Agreement. 10/2010 - 9/2011. \$125,740.00

62. **Kashuba ADM.** Principal Investigator, Subcontract from NICHD (D Benjamin, PI). Intestinal Meropenem Metabolism and Disposition in Young Infants (<91 DAYS). 6/2010 - 9/2010. \$314,890.00
63. Patterson KB, **Kashuba ADM Co-Investigators.** HPTN 066: Dose-Proportionality And Intra-Individual Variability Of Intracellular Tenofovir Diphosphate And Emtricitabine Triphosphate In Healthy Volunteers (DAIDS ID: 10851). A Study of the HIV Prevention Trials Network. January 2010 – August 2011. \$425,000.
64. Cohen-Wolkowicz M, Principal Investigator. **Kashuba ADM Co-Mentor.** Pharmacokinetics and Pharmacodynamics of Antibiotics in Premature Infants. K23HD064814. 8/15/2010 – 7/31/2015. \$577,370 (direct)
65. Kashuba ADM. Co-Investigator. (PI: M Cohen UNC). HIV in semen – effects of STDs and antiviral therapy. R37 DK049381. 5/1/10 – 4/30/15. \$2,125,00.
66. **Kashuba ADM.** Principal Investigator. The Mucosal Tissue Model for HIV Infection and Antiretroviral Protection. CFAR Supplement. NIAID 09/2010 – 09/2011. \$200,000.
67. **Kashuba ADM, Patterson KB Co-Principal Investigators.** A Phase IV, Open-Label Study to Characterize the First-Dose and Multiple-Dose Pharmacokinetics of Raltegravir in the Gastrointestinal Tract of Healthy Male Volunteers. Investigator-initiated research grant. Merck Inc. 09/2010 – 09-2012. \$410,000
68. **Kashuba ADM, Patterson KB Co-Principal Investigators.** Raltegravir pharmacokinetics in the 2nd and 3rd trimesters of pregnancy. Investigator-initiated research grant. Merck Inc. 09/2010 – 09-2011. \$140,000
69. Dumond, JB, Principal Investigator, **Kashuba ADM Co-Investigator.** Atripla Pharmacokinetics in the Aging HIV-Infected Population. UNC TraCS Grant 3/2010-2/2011. \$50,000.00.

NEW AWARDS 2009

70. **Kashuba ADM.** Principal Investigator, Subcontract from NICHD (D Benjamin, PI). Development of a Pharmacokinetic Algorithm to Improve Outcomes in Neonates. 9/2009 – 6/2010. \$110,000.00
71. **Kashuba ADM, Principal Investigator.** Preventing HIV Infection in Women: Targeting Antiretrovirals to Mucosal Tissues. R34 AI087065 (NIAID). December 2009- November 2010. \$111,000.00
72. Dumond, JB, Principal Investigator, **Kashuba ADM Co-Investigator.** Atripla Pharmacokinetics in the Aging HIV-Infected Population. Society of Infectious Diseases Pharmacists. 9/2009-0/2010. \$10,000.00.
73. Cohen, MS, Principal Investigator, **Kashuba ADM Co-Investigator.** HIV in Semen: Effects of Antiviral Agents. NIDDK R37 DK049381 Supplement. 9/2009 – 9/2010. \$100,000.00.

NEW AWARDS 2008

74. Floris-Moore M Principle Investigator, **Kashuba ADM Co-Investigator.** Antiretroviral Activity and Tolerability of TMC-125 in Treatment-Naive Adults with HIV-1 Infection. Tibotec Pharmaceuticals (Investigator-initiated research). 11/05/2008 - 12/31/2009. \$786,648.96

75. **Kashuba ADM**, Patterson KB, Co-Principal Investigators. First-Dose and Steady-State Pharmacokinetics of Raltegravir in the Genital Tract of HIV-Infected and HIV Uninfected Women. Merck (Investigator-initiated research). 4/2008 – 4/2009. \$196,420.00.
76. **Kashuba ADM**, Patterson KB Co-Principal Investigators. A phase IV open-label study to characterize extracellular and intracellular tenofovir/emtricitabine residues in multiple biological matrices after a single dose: implications for pre-exposure HIV prophylaxis dosing of Truvada®. Gilead (Investigator-initiated research). 3/2008 – 3/2009. \$259,913.00
77. **Kashuba ADM**, Patterson KB Co-Principal Investigators. A phase IV, open label study in healthy male subjects to investigate the extent of darunavir/ritonavir exposure in blood, seminal fluid, and rectal mucosal tissue, following single and multiple dosing of darunavir/ritonavir and TMC 125 in treatment and prevention settings. Tibotec (Investigator-initiated research). 3/2008 – 3/2009. \$300,000.00
78. **Kashuba ADM**, Patterson KB Co-Principal Investigators. A phase IV, open label study in healthy male subjects to investigate the extent of maraviroc exposure in blood, saliva, seminal fluid, and rectal mucosal tissue following single and multiple dosing. Pfizer Inc (Investigator-Initiated Research). 3/2008 – 3/2009. \$293,789.00
79. Patterson KB, Principal Investigator, **Kashuba ADM** and Eron JJ **Co-Mentors**. Sex, Aging, and Antiretroviral Pharmacology. NIAID K23 AI077355. 2/2008 – 1/2013.
80. Shulman, N, Principal Investigator, **Kashuba ADM Co-Investigator**. Feasibility of CCR5 Inhibitors in Preventing Maternal to Infant SIV Transmission. NIAID. R03 AI074465. 1/2008 – 12/2009.

NEW AWARDS 2007

81. **Kashuba ADM**, Patterson KB, Co-Principal Investigators. Comparison of Darunavir/Ritonavir and Etravirine Exposure in the Genital Tract of Pre- and Post-menopausal Women, to Exposure in Blood Plasma. Tibotec Virco, Inc. (Investigator-Initiated) 1/2007 – 1/2009. \$95,000.00
82. **Kashuba ADM**, Patterson KB, Co-Principal Investigators. The Effect of Pregnancy on the Pharmacokinetics of the Kaletra Tablet: A Longitudinal Investigation in the Second and Third Trimesters Including Empiric Dosage Adjustment. Abbott, Inc. (Investigator-Initiated Research) 1/2007 – 1/2010. \$187,000.00
83. **Kashuba ADM, Principal Investigator**. A Phase I, Open Label, Study in Healthy Female Subjects to Investigate the Extent of Maraviroc Exposure in Blood, Cervicovaginal Fluid, Vaginal Tissue and to Investigate CCR5 Receptor Saturation in Cervicovaginal Mononuclear Cells and Peripheral Blood Mononuclear Cells, Following Single and Multiple Dosing of Maraviroc. Pfizer Inc. (Investigator-Initiated Research) 1/2007 – 1/2009. \$349,000.00.

NEW AWARDS 2006

84. **Kashuba ADM, Principal Investigator**. A Phase I Pharmacokinetic Evaluation of Single and Multiple Doses of Tenofovir 1% Gel in Blood Plasma, Cervicovaginal Secretions, and Vaginal Tissue in Healthy Volunteers. CONRAD. 12/2006 – 1/2009. \$140,000.00
85. **Kashuba ADM, Principal Investigator** (Alan Forrest, mentor). American College of Clinical Pharmacy Infectious Disease Practice Research Network Minisabbatical. 2006-2007. \$3,500.00

86. **Kashuba ADM, Principal Investigator.** The Effect Of Tipranavir/Ritonavir On Steady-State Concentrations Of Omeprazole And Its Metabolites. Boehringer Ingelheim Pharmaceuticals, Inc. 12/2006 – 2/2007. \$51,100.00
87. Fried, M, Principal Investigator, **Kashuba ADM Co-Investigator.** Effect of Silymarin on Fibrosis in Patients with Hepatic Disease (NCAM 1U01-AT003560) 2006 – 2010. \$2,500,00.00
88. **Kashuba ADM, Principal Investigator.** Ortho-McNeil Infectious Diseases Academic Fellowship. American College of Clinical Pharmacy. 2006 – 2007 \$42,000.00.
89. Swanstrom R, Principal Investigator, **Kashuba ADM, Co-Investigator.** *UNC Center for AIDS Research (CFAR), Director, Pharmacology Core.* P30-HD37260, 6/2006 - 6/2011.\$5,500,000.00 (Core received \$298,000 per year direct costs)
90. **Kashuba ADM, Principal Investigator,** Evaluating the Effects of Tipranavir (with Ritonavir) Capsule and Liquid Formulation on Cytochrome P450 and P-glycoprotein Activity Using a Biomarker Cocktail in Healthy Human Volunteers. Boehringer Ingelheim Pharmaceuticals, Inc. (Investigator-Initiated Research) 2/2006 – 2/2007. \$1,668,280.00

NEW AWARDS 2005

91. **Kashuba ADM, Principal Investigator,** Shimadzu LC/MS Grant for Academic Institutions. 07/2005. \$65,000.00

NEW AWARDS 2004

92. **Kashuba ADM, Principal Investigator,** Society for Infectious Diseases Pharmacists Research Fellowship (for Rosa Yeh, Pharm.D. HIV Pharmacology Fellow) 09/2004 – 09/2005. \$25,000.00
93. **Kashuba ADM. Principal investigator.** University of North Carolina ACTU Pharmacology Support Laboratory. Adult AIDS Clinical Trials Group. DAIDS (NIH). 1/2004-12/2005. \$560,000.00

NEW AWARDS 2003

94. **Kashuba ADM. Principal investigator.** Rate and extent of tenofovir (TDF:Viread) exposure in the female and male genital tract; implications for sexual post-exposure prophylaxis of HIV-1. Gilead (Investigator-Initiated Research), 2003-2004. \$175,420.00.
95. **Kashuba ADM, Principal Investigator.** Evaluating the Effects of Lopinavir/Ritonavir (Kaletra) on Cytochrome P450 Activity Using A Biomarker Cocktail in Healthy Human Volunteers. Abbott (Investigator-Initiated Research), 2003-2004. \$60,495.00
96. **Kashuba ADM, Principal Investigator.** Antiretroviral Pharmacology In The Genital Tract, \$767,262.00. K23 AI54980 4/1/03 – 3/31/08.

NEW AWARDS 2002

97. **Kashuba, ADM, Principal Investigator.** Antiretroviral Pharmacology in the Genital Tract: Can We Affect HIV Transmission? Center for AIDS Research Supplemental Funding. 2002 – 2003 \$49,757.00.
98. Cu-Uvin S, Principal Investigator, **Kashuba ADM, Co-Investigator.** Antiviral Therapy and HIV in the Genital Tract of Women. NIAID (AI40350) 2003 – 2008 \$2,491,114.00
99. **Kashuba, ADM, Principal Investigator.** The Pharmacokinetic Interaction of a Triple Protease Inhibitor Regimen Containing Fosamprenavir, Lopinavir and Ritonavir in

Healthy Volunteers. GlaxoSmithKline (Investigator Initiated Research), 2002-2003.
\$59,000.00

100. **Kashuba ADM, Principal Investigator.** Quantifying the 2-Way Drug Interaction Between Lopinavir/Ritonavir (Kaletra®) and Phenytoin Under Steady-State Conditions in Healthy Human Volunteers. Abbott Laboratories (Investigator Initiated Research), 2002 – 2003. \$162,660.00
101. Tidwell, R, Principal Investigator, **Kashuba ADM, Co-Investigator.** *API 3000 LCMS/MS System.* NCCR Shared Instrumentation Grant. 2002. \$430,830.00
102. Hawke R, Principal Investigator, **Kashuba ADM Co-Investigator.** Pharmacogenetics in the Elderly II: Investigation of Major CYP3A Polymorphisms on the Regulation of CYP3A Activity in Elderly African American Women. UNC Center on Minority Aging, 2002. \$16,090.64
103. **Kashuba ADM, Principal Investigator.** Ortho-McNeil Infectious Diseases Academic Fellowship. American College of Clinical Pharmacy. 2002 – 2003 \$20,000.00.

NEW AWARDS 2001

104. Swanstrom R, Principal Investigator, **Kashuba ADM, Co-Investigator.** *UNC Center for AIDS Research (CFAR), Pharmacology Core.* P30-HD37260, 6/2001 - 6/2006.\$5,500,000.00 (Core awarded \$200,000 directs per year)
105. van der Horst C, Principal Investigator, **Kashuba ADM, Co-Investigator.** *Postnatal Health Practices and Alternatives for HIV Infected Mothers and Their Infants.* CDC Special Interest Project. 2001-2003; \$2,700,000.00.
106. **Kashuba ADM, Principal Investigator,** Eron J, Co-Investigator. *Efficacy, Safety, and Pharmacokinetics of An Amprenavir 600mg/Saquinavir 800mg/Ritonavir 100mg BID – Based Antiretroviral Salvage Regimen.* GlaxoSmithKline (investigator-initiated research), 2001-2002; \$22,000.00
107. Hawke R, Principal Investigator, **Kashuba ADM Co-Investigator.** *Pharmacogenetics in the Elderly: Understanding the Effects of Age and Major Genetic Polymorphisms on the Regulation of CYP3A Activity in African American Women,* UNC Center on Minority Aging, 2001. \$29,999.65

NEW AWARDS 2000

108. Cohen, MS, Principal Investigator, **Kashuba ADM, Co-Investigator.** *HIV in Semen: Implications for Transmission.* R01 49381-2, 3/31/00-3/30/05.\$3,200,000.00

NEW AWARDS 1999

109. **Kashuba ADM, Principal Investigator,** *Penetration and Activity of Amprenavir in the Male Genital Tract: comparison of GW433908 and amprenavir.* Glaxo Wellcome (investigator-initiated research), 1999-2000; \$17,000.00
110. Campbell, WH, Principal Investigator, **Kashuba ADM, Co-Investigator.** *Rational Therapeutics for the Pediatric Population,* Agency for Health Care Policy and Research (AHCPR), Grant #: 1-U18-HS10397, 9/30/99 - 9/29/02; \$1,984,255.
111. **Kashuba ADM, Principal Investigator,** *Predicting Interleukin-2 Drug Interactions with a Human Kupffer Cell: Hepatocyte Coculture System.* Society for Infectious Diseases Pharmacists, October 1999 - October 2000; \$38,145.00

112. Scott CS, Principal Investigator, **Kashuba ADM, Co-Investigator**, *Pilot Study to Assess Activity of CYP1A2, CYP2D6, and CYP3A4 in Children with Cystic Fibrosis as Compared to Age and Gender Matched Controls*. UNC School of Pharmacy Seed Grant, June 1999 - June 2000; \$6,000.00.
113. **Kashuba ADM, Principal Investigator**, *Development of a population pharmacokinetic-pharmacodynamic (PK-PD) model and optimal sampling strategies for efavirenz in blood and seminal plasma*, DuPont Pharma Grant (Investigator-Initiated Research), October 1999 - October 2000; \$60,000.00

NEW AWARDS 1998

114. Swanstrom R, Principal Investigator, **Kashuba ADM, Co-Investigator**. *UNC Center for AIDS Research (CFAR), Pharmacology Core*. P30-HD37260, 6/1998 - 6/2001.\$5,500,000.00 (Core received \$197,000 direct costs per year)
115. **Kashuba ADM, Principal Investigator**, *Penetration of Liposome-Encapsulated AZT Diphosphate in Macrophages*, UNC Center for AIDS Research (CFAR) Grant, Oct 1998 - Oct 1999; \$10,000
116. **Kashuba ADM, Principal Investigator**, *Effect of IL-2, IL-10, and IL-12 on CYP3A Activity as Measured in the Human Hepatocyte Cell Culture Model*, UNC Junior Faculty Development Grant, Oct 1998 - Oct 1999; \$5,000
117. **Kashuba ADM, Principal Investigator**, *Effect of IL-2, IL-10, and IL-12 on CYP3A Activity as Measured in the Human Hepatocyte Cell Culture Model*, UNC School of Pharmacy Seed Grant, Oct 1998 - Oct 1999; \$5,200
118. **Kashuba A.D.M, Principal Investigator**, *Characterizing Cytochrome P450 Activity in HIV-1 Infected Women*, UNC Women's Health Task Force Grant, June 1998 - June 1999; \$10,000.00
119. **Kashuba A.D.M, Principal Investigator**, *Cytochrome P450 Activity in HIV-1 Infected Women*. Research Institute of the American College of Clinical Pharmacy, Bayer Infectious Disease Research Award, July 1998 - June 1999; \$10,000
120. **Kashuba A.D.M, Principal Investigator**, *Intra- and Interindividual Variability in the Activities of Cytochrome P450 IA2, IID6, and IIIA, and NAT-2 and Xanthine Oxidase as Measured by Phenotyping in Women Infected with HIV-1*, UNC Research Council Award, April 1998 - April 1999; \$2,850.00
121. **Kashuba A.D.M, Principal Investigator**, *Intra- and Interindividual Variability in the Activities of Cytochrome P450 IA2, IID6, and IIIA, and NAT-2 and Xanthine Oxidase as Measured by Phenotyping in Women Infected with HIV-1*, UNC Pharmacy Foundation Seed Grant, April 1998 - April 1999; \$7,312.00

NEW AWARDS 1997

122. **Kashuba A.D.M, Principal Investigator**, *Intra- and Interindividual Variability in the Activities of Cytochrome P450 IA2, IID6, and IIIA, and NAT-2 and Xanthine Oxidase as Measured by Phenotyping in Patients who are Infected with HIV-1*, UNC Pharmacy Foundation Seed Grant, November 1997 - November 1998; \$3,300.
123. **Kashuba A.D.M., Bertino J.S. Jr., Co-Principal Investigators**, *The Effect of Menstrual Cycle on Cytochrome P450 Activity*, Research Institute of the American College of

Clinical Pharmacy, Wyeth-Ayerst Laboratories Women's Healthcare Research Award,
July 1997 - June 1998; \$10,000.

MULTICENTER INDUSTRY-SPONSORED RESEARCH:

Open-Label, Multiple-Dose, Drug Interaction Study to Assess the Effect of Famotidine with or without Tenofovir on the Pharmacokinetics of Atazanavir when given with Ritonavir in HIV-Infected Subjects

Phase IV Trial

Sponsor: Bristol-Myers Squibb

Role: Site Principal Investigator

Dates: October 2006 – October 2007

Contract: \$250,000

Precose: Resolution of Optimal Titration to Enhance Current Therapies

Phase IV Dose Titration Trial

Sponsor: Bayer Corporation

Role: Site Principal Investigator

Dates: September 1995-September 1996

PROFESSIONAL SERVICE:

Adult AIDS Clinical Trials Group (AACTG)

2004 – 2006	Member, Experimental Therapeutics Research Agenda Committee
2004 – 2006	Vice-Chair, AACTG Pharmacology Committee
2004 – 2006	Member, HIV Research Agenda Committee Tipranavir Working Group
2004 – 2006	Director, UNC ACTG Pharmacology Support Laboratory
2002 – 2006	Member, Pharmacology Committee Gender Issues Working Group
2002 – 2004	Chair, Drug Interactions Working Group
2001 – 2002	Vice-Chair, Drug Interactions Working Group
2001 – 2004	Member, Women's Health Committee
1999 – 2006	Member, Pharmacology Subcommittee
1999 – 2002	Member, Pharmacogenetics Working Group

American College of Clinical Pharmacy (ACCP)

2003	Member, ACCP Research Fellowship Review Committee
2002	Member, ACCP Research Institute Fellowship Task Force
1999 – 2000	Secretary Treasurer, PK/PD PRN
2018	Member, Precision Medicine Task Force
1999 – Present	Abstract Reviewer for winter and Spring Annual Meetings

American Society for Clinical Pharmacology and Therapeutics (ASCPT)

2008 – 2011	Member, Publications Committee
2003 – 2005	Chair, Infectious Diseases and Antimicrobial Agents Scientific Section
2003 – 2004	Co-Chair, ASCPT Educational Symposium "When Does Sex Matter: A Clinical Pharmacology Symposium on Women's Health"
2003 – 2004	Member, Scientific Awards Committee
2002 – 2003	Member, Nominations Committee
2000 - 2003	Vice-Chair, Infectious Diseases and Antimicrobial Agents Scientific Section

American Pharmaceutical Association (APhA)

2002 – 2006	Section Advisor, HIV Care, APhA DrugInfoLine
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Centers for Disease Control and Prevention

2011 – 2014	Member, CDC/DHAP Expert Consultation Panel Recommendations for Non-Occupational Post-Exposure HIV Prophylaxis Guidelines Update
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Conference on Retroviruses and Opportunistic Infections

2018 – Present	Member, Organizing Committee Pharmacology Lead
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Contagion

2005	Member, Editorial Board
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Doris Duke Charitable Foundation

2004 – 2018	Grant Reviewer
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Foundation for the Treatment and Management of HIV Infection in the United States

2006 – 2009	Member, Scientific Organizing Committee American Conference for the Treatment of HIV (ACTHIV)
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HIV Research for Prevention

2014 – 2018 Member, Scientific Organizing Committee

HIV Prevention Trials Network

2014 – Present Member, Women at Risk Committee
Member, HPTN 066 Protocol Team
Member, HPTN 069 Protocol Team

iMedOptions.com

2002 – 2013 Faculty Member

International AIDS Foundation

2011 - 2012 Member, IAS-ILF Organizing Committee
ARV Pharmacology in Children and Women
March 5th, 2012, Seattle, Washington

**International Workshop on Clinical Pharmacology of HIV, Hepatitis & Other Antiviral Drugs
(Formerly International Workshop on Clinical Pharmacology of HIV Therapy)**

2008 – 2009 Chair, 10th International Workshop, Amsterdam, The Netherlands
2006 – 2007 Chair, 8th International Workshop, Budapest, Hungary
2016 – 2017 Chair, 19th International Workshop, Chicago, Illinois
2006 – 2018 Member, Organizing Committee
2018 – Present Member, Academic Advisory Board

International Workshop on Women's Health in HIV

2012 – 2013 Chair, 3rd International Workshop, Washington, DC
2011 – 2012 Chair, 2nd International Workshop, Washington, DC
2010 – 2011 Chair, 1st International Workshop, Washington, DC
2009 – 2018 Member, Organizing Committee
2018 – Present Member, Scientific Committee

Medscape.com

2001 - 2005 Faculty Member, HIV Ask-The-Experts

Microbicide Trial Network

2009 – 2017 Member, M2010 Scientific Program Committee
Member, M2012 Scientific Program Committee
Member MTN 006 Protocol Team

National Institutes of Health (NIH)

2013 – Present Member, Microbicides Planning Group, NIH Office of AIDS Research
2012 – 2017 Invited Member, Advisory Committee on Research on Women's
Health, NIH Office of Research on Women's Health
2011 – 2018 Chair, Clinical Pharmacology Best Practices Working Group
2010 – 2014 Member, NIAID AARR-3 Study Section
2004 – Present Member, NIH/OAR Planning Committee: FY2007 – FY2019 Plan for
HIV-Related Research on Women and Girls
2004 – 2011 Ad-Hoc Study Section Reviewer NIAID AADD
2002 – 2004 Ad-Hoc Study Section Reviewer NIAID AARR-3
2017 – 2018 Ad-Hoc Study Section Reviewer NIAID AIDSRRRC
2018 – 2019 NIAID K23 Review Spring 2018

Rho Chi

2017 – 2018 Scholarship/Fellowship Committee

Society for Infectious Diseases Pharmacists (SIDP)

2006 – 2007 Member, Strategic Planning Committee
2005 – 2006 Member, Professional Affairs/Public Policy Committee
2001 – 2003 Board Member at Large
1998 – 2001 Chair, Publications Committee

University of North Carolina at Chapel Hill

2017 – 2018 Member, Vice Chancellor Committee on Precision Health and Society
2016 – 2017 Faculty Mentor, Carolina Covenant Scholar Program (15/year)
2015 – Present Chair, BIRCWH Resource Laboratory Network
2012 – 2013 Member, Search Committee
Director, Office of Clinical Trials
2009 – 2011 Member, Committee on Post-Baccalaureate Teaching Awards

UNC Center for Infectious Diseases

2008 – 2013 Member, Editorial Board
This Week in Public Health

UNC School of Pharmacy

2018-2019 Chair, Executive Vice Dean and COO Search Committee
2018-2019 Member, School of Pharmacy Reaccreditation Standards 5-9 Subcommittee
2018 – Present Member, Space Planning Taskforce
2015 – Present Member, Executive Committee
2012 – Present Member, Full Professors Committee
2015 Chair, School of Pharmacy Graduate Program Governance Document Committee
2013 – 2016 Member, Scholarship Committee 2010 – 2013
Member, Assessment Committee
2010 - 2011 Chair, Curricular Assessment Subcommittee
2010 – 2011 Faculty Representative, Business Cluster Committee
2009 – 2010 Chapel Hill Drug Conference 2010 Planning Committee
2008 – 2010 Member, Scholarship Committee
2007 – 2008 Member, UNC SOP Graduate Program Self-Study Committee
2005 – 2008 Member, Laboratory Instrumentation Committee
1999 – 2008 Laboratory Safety Committee
2004 – 2007 Member, Infectious Disease Student Training Group
2004 – 2006 Member, Graduate Education Committee
2003 – 2004 Research Space Planning Committee
2002 – 2006 Honor Student Committee
1997 – 2000, 2003 Ferguson Lecturer Committee

UNC AIDS Clinical Trials Unit (ACTU)

1999 – 2006 Pharmacologist

Women's Day Magazine

2000 Consultant, Dangerous Drug Interactions

Women's HIV Interagency Study (NIH)

2014 – Present Member, UNC Scientific Committee
Member, Pharmacology Committee

JOURNAL REVIEWER

1. Trends in Pharmacologic Sciences (2009-2011)
2. Antiviral Therapy (2006 – Present)
3. Sexually Transmitted Diseases (2006-2011)
4. Journal of Acquired Immune Deficiency Syndrome (2005 – Present)
5. Drugs (2002 – 2010)
6. Antimicrobial Agents and Chemotherapy (2002-Present)
7. Journal of Infectious Diseases (2002-Present)
8. Clinical Infectious Diseases (2002-Present)
9. Clinical Pharmacology and Therapeutics (2002-Present)
10. Journal of Pharmaceutical Sciences (2000-Present)
11. Journal of Clinical Psychopharmacology (2000-2005)
12. AIDS (1999-Present)
13. Pharmaceutical Research (1999-2011)
14. Clinical Pharmacokinetics (1998-Present)
15. The Annals of Pharmacotherapy (1997-Present)
16. American Journal of Health-System Pharmacy (1995-2012)
17. Science Translational Medicine (2010 – Present)
18. Nature (2012 – Present)
19. Lancet (2013 – Present)

PROFESSIONAL AFFILIATIONS

1. American Society for Clinical Pharmacology and Therapeutics (1995 - Present)
2. American Society for Microbiology (1995 - Present)
3. Society of Infectious Diseases Pharmacists (1995 - Present)
4. The Alliance for the Prudent Use of Antibiotics (1999 - Present)
5. The American College of Clinical Pharmacy (1995 - Present)
6. Rho Chi Pharmaceutical Honor Society (1995 - Present)
7. The Ontario College of Pharmacists (1990 - Present)
8. The American Society of Health System Pharmacists (1995 - 2011)
9. The International Society for the Study of Xenobiotics (2001 – 2010)
10. The American Association of Colleges of Pharmacy (1997 - 2010)
11. American Society for Human Genetics (2002 – 2006)
12. The Canadian Society of Hospital Pharmacists (1990 - 1997)