

Aaron S. Devanathan, PharmD, PhD, AAHIVP

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<https://www.ncbi.nlm.nih.gov/myncbi/aaron.devanathan.1/bibliography/public/>

EDUCATION AND TRAINING

- 08/2017 - 05/2022 **Doctor of Philosophy**, Pharmaceutical Sciences
University of North Carolina Eshelman School of Pharmacy
Division of Pharmacotherapy and Experimental Therapeutics,
Chapel Hill, NC
Advisor: Angela DM Kashuba, BScPhm, PharmD, DABCP, FCP
- 07/2018 - 07/2021 **National Institutes of Health – UNC-Duke Collaborative T32 Clinical Pharmacology Postdoctoral Fellowship (American Board of Clinical Pharmacology-Accredited)**
UNC Eshelman School of Pharmacy and Duke University
Co-Directors: Kim L.R. Brouwer, PharmD, PhD;
Daniel K Benjamin, MD, PhD, MPH; Paul B Watkins, MD
- 08/2012 - 04/2016 **Doctor of Pharmacy**, Area of Concentration: Pharmacotherapy, *magna cum laude*
University of Pittsburgh School of Pharmacy, Pittsburgh, PA
- 08/2010 - 05/2014 **Bachelor of Science**, Pharmaceutical Sciences, *summa cum laude*
University of Pittsburgh, Pittsburgh, PA

EXPERIENCE

- 08/2022 - Present **Assistant Professor (Tenure stream)**
Department of Pharmacy and Therapeutics
University of Pittsburgh School of Pharmacy
Pittsburgh, PA
- 07/2017 - 07/2022 **Clinical Pharmacist - Per Diem**
UNC Health, Chapel Hill, NC
- 05/2019 - 09/2019 **Interim Therapeutic Drug Monitoring General Supervisor**
UNC Center for AIDS Research, Clinical Pharmacology & Analytical Core
CPAC Laboratory Director: Joseph Eron, MD
- 08/2016 - 06/2017 **Adjunct Clinical Instructor**
Division of Practice Advancement and Clinical Education
UNC Eshelman School of Pharmacy, Chapel Hill, NC
- 06/2016 - 06/2017 **PGY-1 Pharmacy Practice Resident**
UNC Health, Chapel Hill, NC

HONORS AND AWARDS

- 09/2021 **International Workshop on Clinical Pharmacology of HIV, Hepatitis and Other Antiviral Drugs 2021 Best Abstract Award**
Academic Medical Education
- 09/2021 **ACCP Student Abstract Award**
American College of Clinical Pharmacology
- 08/2021 **Royster Society of Fellows Inductee**
University of North Carolina at Chapel Hill Graduate School
- 08/2021-05/2022 **Paul Hardin Dissertation Completion Fellowship**
University of North Carolina at Chapel Hill Graduate School
- 11/2017 **Three Minute Thesis (3MT) People's Choice Award Winner**
University of North Carolina at Chapel Hill Graduate School
<https://vimeo.com/243906737>

08/2017

Eshelman Recruitment Incentive Award

UNC Eshelman School of Pharmacy Foundation

08/2017

Graduate School Doctoral Merit Assistantship

University of North Carolina at Chapel Hill Graduate School

PEER-REVIEWED PUBLICATIONS

(h-index: 4, Scopus)

1. **Devanathan AS**, Dumond JB, Anderson DJC, Moody K, Polisen AJ, Schauer AP, Sykes C, Gay CL, Rosen ER, Kashuba ADM, Cottrell ML. A New Algorithm to Improve Adherence Classification Using Dried Blood Spots for Daily and Event-Driven PrEP. Submitted to *Clinical Pharmacology & Therapeutics*. [In review].
2. **Devanathan AS**, White NR, De La Cruz G, Nekorchuk M, Terry M, Busman-Sahay, K, Adamson L, Luciw P, Fedoriw Y, Estes JD, Rosen EP, Kashuba ADM. The Spatial Relationship between Antiretrovirals and Cell-Associated RT-SHIV RNA in the Spleens of Nonhuman Primates using Quantitative Imaging Analysis. *Antimicrob Agents Chemother*. 2022; 66(8):e0060922.
3. **Devanathan AS** and Kashuba ADM. Human Immunodeficiency Virus Persistence in the Spleen: Opportunities for Pharmacologic Intervention. *AIDS Res Hum Retroviruses*. 2021; 37(10):725-735.
4. Morbitzer KA, McLaughlin JE, **Devanathan AS**, Ozawa S, McClurg MR, Carpenter DM, Lee CR. How-to guide for overcoming barriers of research and scholarship training in PharmD and pharmacy residency programs. *J Am Coll Clin Pharm*. 2021;4:743-53.
5. **Devanathan AS** and Cottrell ML. Pharmacology of HIV Cure: Site of Action. *Clin Pharmacol Ther*. 2021;109(4):841-855.
6. **Devanathan AS**, Fallon JK, White NR, Schauer AP, Van Horne B, Blake K, Sykes C, Kovarova M, Adamson L, Remling-Mulder L, Luciw P, Victor Garcia J, Akkina R, Pirone JR, Smith PC, Kashuba ADM. Antiretroviral penetration and drug transporter concentrations in the spleens of three preclinical animal models and humans. *Antimicrob Agents Chemother*. 2020;64(10):e01384-20.
7. Gay CL, Neo DT, **Devanathan AS**, Kuruc JD, McGee KS, Sebastian J, Ferrari G, McKellar M, Fiscus SA, Hicks CB, Robertson K, Kashuba ADM, Eron JJ, Margolis DM. Efficacy, Pharmacokinetics and Neurocognitive Performance of Dual, NRTI-Sparing Antiretroviral Therapy in Acute HIV-Infection. *AIDS*. 2020;34(13):1923-1931.
8. Blackman AL, Heil EL, **Devanathan AS**, Pandit NS. The effect of veno-arterial extracorporeal oxygenation and nasogastric tube administration on the pharmacokinetic profile of abacavir, lamivudine, and dolutegravir: a case report and review of the literature. *Antivir Ther*. 2020;25(2):115-119.
9. **Devanathan AS**, Pirone JR, Akkina R, Remling-Mulder L, Luciw P, Adamson L, Victor Garcia J, Kovarova M, White NR, Schauer AP, Blake K, Sykes C, Burgunder E, Srinivas N, Rosen EP, Kashuba ADM. Antiretroviral penetration across three preclinical animal models and humans in eight putative HIV viral reservoirs. *Antimicrob Agents Chemother*. 2019;64(1):e01639-19.
10. **Devanathan AS**, Anderson DJC, Cottrell ML, Burgunder EM, Saunders AC, Kashuba ADM. Contemporary Drug-Drug Interactions in HIV Treatment and Prevention. *Clin Pharmacol Ther*. 2019;105(6):1362-1377.
11. **Devanathan A**, Corkish M, Rohde K, Campbell-Bright S. Evaluation of clinical outcomes with various meropenem dosing regimens in septic patients. *Infectious Diseases in Clinical Practice*. 2017;25(6):323-328.
12. Kufel WD, **Devanathan AS**, Marx AH, Weber DJ, Daniels LM. Bezlotoxumab: A novel agent for the prevention of *Clostridium Difficile* infection. *Pharmacotherapy*. 2017 Oct;37(10):1298-1308.

Book Chapters

1. **Devanathan AS**, Symonds AE, Adams JL, Cottrell ML. "Chapter 76: Pharmacotherapy of Human Immunodeficiency Virus Infection." In: *Koda-Kimble & Young's Applied Therapeutics: The Clinical Use of Drugs*, 12th Edition. [In press]. Philadelphia: Wolters Kluwer Health, Inc. 2021.

PRESENTATIONS (underline indicates presenter)

Conference Podium Presentations

1. **Devanathan AS**, Dumond JB, Anderson DJC, Moody K, Polisen AJ, Schauer AP, Sykes C, Gay CL, Rosen ER, Kashuba ADM, Cottrell ML. A New Algorithm to Improve Adherence Classification Using Dried Blood Spots for Daily and Event-Driven PrEP. Presented at the 23rd International Workshop on Clinical Pharmacology on HIV, Hepatitis & Other Antiviral Drugs 2022, Barcelona, Spain (hybrid). September 19-21, 2022.
2. **Devanathan AS**, White NR, De La Cruz G, Nekorchuk M, Terry M, Busman-Sahay, K, Adamson L, Luciw P, Fedoriw Y, Estes JD, Rosen EP, Kashuba ADM. The Spatial Relationship between Antiretrovirals and Cell-Associated RT-SHIV RNA in the Spleens of Nonhuman Primates using Quantitative Imaging Analysis. Presented at the 22nd International Workshop on Clinical Pharmacology of HIV, Hepatitis & Other Antiviral Drugs. September 20-22, 2021.
3. **Devanathan AS**, Cao Y, White NR, De La Cruz G, Rosen EP, Kashuba ADM. Physiologically-Based Pharmacokinetic Models to Characterize Antiretroviral Exposure in the Spleen. Presented at the American College of Clinical Pharmacology Annual Meeting, September 13-17, 2021.

Abstracts and Posters

1. **Devanathan AS**, Fallon JK, White N, Schauer AP, Blake K, Sykes C, Adamson L, Luciw P, Victor Garcia J, Akkina R, Pirone JR, Smith PC, Kashuba ADM. Antiretroviral penetration and drug transporter concentrations in the spleens of three preclinical animal models and humans. Presented at the 20th International Workshop on Clinical Pharmacology of HIV, Hepatitis & Other Antiviral Drugs, Noordwijk, The Netherlands, May 14-17, 2019.
2. Pirone JR, Akkina R, Garcia JV, Luciw P, Adamson L, Sykes C, White N, Schauer A, Blake K, Burgunder E, **Devanathan AS**, Srinivas N, Rosen E, Kashuba ADM. Which Preclinical Species Mimics Tissue Penetration of Antiretroviral Drugs in Humans? Presented at the Conference of Retroviruses and Opportunistic Infections, Seattle, WA, March 4-7, 2019.

Academic Presentations

1. **Spleen: Beyond**, Research seminar presentation to students, fellows, and faculty at UNC Eshelman School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics. September 2021.
2. **ENLIGHTEN: Out of the Darkness**, Research seminar presentation to students, fellows, and faculty at UNC Eshelman School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics. September 2020.
3. **HIV Reservoirs: The Voyage Home**, Research seminar presentation to students, fellows, and faculty at UNC Eshelman School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics. December 2019.
4. **Spleen: The Next Generation**, Research seminar presentation to students, fellows, and faculty at UNC Eshelman School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics. February 2019.
5. **Spleen: The Final Frontier**, Research seminar presentation to students, fellows, and faculty at UNC Eshelman School of Pharmacy, Division of Pharmacotherapy and Experimental Therapeutics. April 2018.
6. **Bad to the Bone? Treatment Considerations of Osteoporosis in the Setting of HIV Infection**, Continuing Education to community and hospital pharmacists. March 2017.

EXTRAMURAL FUNDING (past)

AFPE Pre-Doctoral Fellowship in Pharmaceutical Sciences

Sponsor: American Foundation for Pharmaceutical Education

Dates: 09/01/21 - 08/31/22

Costs: \$10,000

Role: Principal Investigator

TEACHING EXPERIENCE

01/2020 - 04/2020	Teaching Assistant PHCY 726 – Research and Scholarship in Pharmacy 3 (RASP 3) Course coordinators: Delesha Carpenter, PhD and Craig Lee, PharmD, PhD
08/2019 - 12/2019	Teaching Assistant PHCY 725 – Research and Scholarship in Pharmacy 2 (RASP 2) Course coordinators: Sachiko Ozawa, PhD, MS and Craig Lee, PharmD, PhD
Fall 2018 - 2021	Pharmacotherapy of HIV/HAART Instructor PHCY 811 – Infectious Diseases Elective Course Coordinator: Ashley H. Marx, PharmD, BCPS, BCIDP
08/2018 - 10/2018	Academic Coach DPET 853 – Pharmacokinetic Concepts and Applications Postbaccalaureate Research Education Program UNC Office of Graduate Education Director: Jessica Harrell, PhD

PROFESSIONAL SERVICE

University of Pittsburgh

09/2022 - Present	Small Molecule Biomarker Core (SMBC) Mass Spectrometry Facility Advisory Board Member
08/2022 - Present	Pre-Health Scholars Program Mentor
08/2022 - Present	University of Pittsburgh School of Pharmacy Area of Concentration – Research Graduate Program Council Oversight Group

University of North Carolina at Chapel Hill

11/2020 - 06/2021	Partnership in Patient Care Research Steering Committee UNC Eshelman School of Pharmacy and UNC Health
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LICENSURE AND CERTIFICATIONS

01/2018 - Present	American Academy of HIV Pharmacist American Academy of HIV Medicine
02/2019	Introduction to the Principles and Practice of Clinical Research Certificate National Institutes of Health Clinical Center
11/2018	Principles of Clinical Pharmacology Certificate National Institutes of Health Office of Clinical Research
06/2016 - Present	Pharmacist , License RP450521 Commonwealth of Pennsylvania
05/2016 - Present	Pharmacist , License 25930 State of North Carolina
11/2014 - Present	Pharmacy-Based Immunization Delivery American Pharmacists Association

LEADERSHIP EXPERIENCE

07/2019 - 06/2021	Toastmasters International – Club 01296715 Vice President Membership <ul style="list-style-type: none">Recruited and maintained at least 20 members in our clubParticipated in membership-building contests and events
08/2018 - 05/2020	UNC Science Policy Advocacy Group Treasurer <ul style="list-style-type: none">Managed organization's financesCollaborated with university-wide graduate student organizations to host guest lecturers and workshops

COMMUNITY SERVICE

02/2020 - 03/2022 Water Project Sponsor ([Story link](#)), charity: water
10/2016 - 05/2022 Student Health Action Coalition (SHAC) Clinic, Carrboro, NC

PROFESSIONAL MEMBERSHIPS

10/2020 - Present American Society of Clinical Pharmacology and Therapeutics (ASCPT)
12/2019 - Present American College of Clinical Pharmacology (ACCP)
03/2014 - Present American College of Clinical Pharmacy (ACCP)
02/2014 - Present Rho Chi Academic Honor Society, Alpha Omicron Chapter