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Education

1989-1992 B.S. in Biology, summa cum laude, Univ. of Tennessee at Chattanooga; Chattanooga, TN

1992-1996 M.D., East Tennessee State University College of Medicine; Johnson City, TN

1996-1999 Intern and Resident, Internal Medicine, University of California, San Diego; La Jolla, CA

1999-2000 Chief Resident, Internal Medicine, University of California, San Diego; La Jolla, CA

2000-2003 Fellow, Infectious Diseases, University of California, San Diego; La Jolla, CA

2002-2005 M.A.S., Clinical Research, University of California, San Diego; La Jolla, CA

Board Certification

1999-2019 Internal Medicine, American Board of Internal Medicine

2004-2024 Infectious Disease, American Board of Internal Medicine

Appointments

2002-2022 Medical Director, The Night Clinic, Family Health Centers of San Diego; San Diego, CA (serving gay men and transgender individuals with culturally competent care)

2003-2009 Assistant Adjunct Professor of Medicine, Department of Medicine, Division of Infectious Diseases, University of California San Diego (UCSD); San Diego, CA

2004-2013 Medical Director, San Diego County Early Intervention and Bridge Programs, UCSD Antiviral Research Center; San Diego, CA

2005-present Staff Physician, Veterans Affairs Medical Center; San Diego, CA

2005-present Director, HIV/HCV and HIV/HPV Co-Infections Clinic, Special Infectious Diseases Program, Veterans Affairs Medical Center; San Diego, CA

2009-2018 Director, Translational Virology Core, UCSD Centers for AIDS Research, San Diego; CA
 2010-present Core Faculty, Internal Medicine Residency Program, UCSD; San Diego, CA
 2009-2013 Associate Professor of Medicine in Residence, Department of Medicine, Division of Infectious Diseases, UCSD; San Diego, CA
 2012-2017 Associate Director Infectious Disease Fellowship Training Program, UCSD; San Diego, CA
 2013-2016 Professor of Medicine In Residence, Department of Medicine, Division of Infectious Diseases, UCSD, San Diego, CA
 2014-present Co-director, San Diego Center for AIDS Research; San Diego, CA
 2016-present Professor of Medicine Ladder Rank, Department of Medicine, Division of Infectious Diseases, UCSD, San Diego, CA
 2016-present Research Director, Internal Medicine Residency Program, UCSD; San Diego, CA
 2016-2020 Vice-Chair of Faculty, Department of Medicine UCSD, San Diego, CA
 2017-present Chief, Division of Infectious Diseases and Global Public Health UCSD, San Diego, CA
 2020-present Florence Seeley Riford Chair in AIDS Research University of California San Diego
 2020-present Vice-Chair of Research, Department of Medicine UCSD, San Diego, CA
 2022-present Affiliate Professor, Chiba University Tokyo, Japan

University and Community Service

1997-2005 Gay Men's Coming Out Group Facilitator
 2006 Communications Director / Speech Writer, 52nd Congressional District Race, Candidate John Rinaldi (Dem)
 2005-2017 Chair, Standards of Care Committee, San Diego County HIV Planning Council; San Diego, CA
 2005-2017 Permanent Member, San Diego County HIV Planning Council; San Diego, CA
 2008-2014 Board Member, Christie's Place; San Diego, CA (non-profit community support organization for women and families affected by HIV/AIDS) (President 2011-2014)
 2009-present UCSD Chancellor's Advisory Committee on Gender Identity and Sexual Orientation Issues (CACGISOI, Chair 2011-2013)
 2011-2015 Chair, Institutional Biosafety Committee, Veterans Affairs Healthcare System; San Diego, CA
 2011-2017 AIDS Clinical Trials Group HIV Reservoirs and Viral Eradication Transformative Science Group
 2012-2016 California HIV Research Program Scientific Advisory Board (Vice-Chair 2014, Chair 2015-2016)
 2013-2017 Department of Medicine Committee on Appointments and Promotions (Chair 2016, 2017)
 2016-present Department of Medicine Committee on Space and Equipment
 2017-2019 Member, NIH Office of AIDS Research Advisory Committee, Washington, DC
 2017-present Department of Medicine Research Committee
 2019-2020 Member, FDA Advisory Board on Antimicrobials

- 2020-present Member of the High-Containment Laboratory Oversight Committee
- 2020-present Member of the VA Coronavirus Research & Efficacy Studies (VA CURES)
- 2021-present Member of the UC San Diego Committee on Privilege and Tenure
- 2021-present Member of the UC San Diego Health Sciences Space Advisory Committee (HSSAC)
- 2021-present Member, World Health Organization COVID-19 Working Group on Outpatient Therapeutics Protocols
- 2021-present Organizing Committee Member for 13th International Symposium on Antimicrobial Agents and Resistance
- 2021-present World Health Organization Expert Panel on HIV Pre-exposure Prophylaxis for Low and Middle Income Countries (LIMC)
- 2022-present Member, LGBTQ Community Leadership on Monkeypox, County of San Diego and Jacobs and Peters Congressional Districts

Fellowships and Honor Societies

- 1995 AOA Medical Honor Society (Junior Year election, President Delta Chapter 1996)
- 2014 Fellow American College of Physicians (FACP)
- 2015 American Society of Clinical Investigation
- 2018 Fellow Infectious Disease Society of America (FIDSA)

Honors / Awards

- 1995 Student National Medical Association Senior Leadership Award, East Tennessee State University; Johnson City, TN
- 1996 President, Delta Chapter of the AOA Medical Honor Society, East Tennessee State University; Johnson City, TN
- 1996 College of Medicine Dean's Scholarship Award, East Tennessee State University; Johnson City, TN
- 2001 Men's Volunteer of the Year, The San Diego Lesbian, Gay, Bisexual, Transgender Community Center (The Center); San Diego, CA
- 2002 Associate Investigator Award, Veterans Affairs Medical Center; San Diego, CA
- 2005 Study of superinfection, published 2004 in JAMA, selected for Discover magazine's 2004 "The Year in Science: Top 100 Stories" as story #41. Discover 26(1), January 2005.
- 2005 Community Service Award, Transgender Community Coalition; San Diego, CA
- 2005 Selected for National Center for Leadership in Academic Medicine; University of California, San Diego; San Diego, CA
- 2005 AIDS Walk San Diego's Outstanding Volunteer of the Year; San Diego, CA
- 2008 "40 Under 40" Award (honoring young San Diego leaders) from San Diego Metropolitan magazine; San Diego, CA
- 2008 Nominated for the 2008 Kaiser Excellence in Teaching Award by the third-year students of the UCSD School of Medicine; San Diego, CA
- 2008 Finalist for the 2nd Annual Health Care Champions Awards by the San Diego Business Journal; San Diego, CA

- 2009 Awarded the Dr. A. Brad Truax Award (for outstanding achievement in the area of HIV/AIDS service) by the County of San Diego Health and Human Services Agency; San Diego, CA
- 2010 HIV Medical Association Research Award from the Infectious Diseases Society of America
- 2012 National Institute of Drug Abuse Avant Garde Award in HIV Prevention
- 2012, 2014 UCSD Internal Medicine Residency Teaching Award from the Chief Residents
- 2020 6th Annual Web Series Festival Global Winners 2020, Grand Prize – A Diary from the Frontline, Producer Credit
- 2021 UCSD Health Sciences Faculty Excellence in Mentoring Award
- 2022 Highly Cited Researcher (top 1% by citations Clarivate, 2011-2022)

Active Industry Collaborations

- 2016-present Scientific Advisory Board, Fluxergy Inc.
- 2019-present Consultant, Bayer Pharmaceuticals
- 2020-present Scientific Advisory Board, Chair, Linear Therapies Inc.
- 2020-present Consultant, Vx Biosciences
- 2020-present Consultant, Model Medicines
- 2021-present Consultant, Evidera
- 2022-present Consultant, Pharma Holdings

Active Grant Support

Title: Specialized Cancer Center Support Grant

Major Goals: Administrative supplement to support more effective immune-base therapeutic regimes for patients with HIV/AIDS related cancers from the Moores Cancer Center (MCC).

Project Number: P30 CA023100-36S2

Name of PD/PI: Lippman

Source of Support: NIH/NCI

Project/Proposal Start and End Date: 07/2020 – 04/2024

Total Award Amount: \$250,000

Title: Center for AIDS Research

Major Goals: To provide core research equipment and resources to investigators to further collaborative research on the molecular pathogenesis of HIV.

Project Number: P30 AI036214

Name of PD/PI: Smith

Source of Support: NIH/NIAID

Project/Proposal Start and End Date: 04/2013 – 03/2023

Total Award Amount: \$10,646,510

Title: Protocol A5401; Adaptive Platform Treatment Trial for Outpatients with COVID-19

Major Goals: Adapt Out COVID is a master protocol to evaluate the safety and efficacy of investigational agents for the treatment of symptomatic non-hospitalized adults with SARS-CoV-2 infection. It includes a Phase II evaluation, with a seamless transition into a larger Phase III evaluation for promising agents.

Project Number: UM1 AI068636

Name of PD/PI: Currier

Source of Support: UCLA AIDS Clinical Trials Group Network (ACTG)/NIAID

Project/Proposal Start and End Date: 06/2020 – 11/2022

Total Award Amount: \$14,175

Title: Protocol A5345; Biomarkers to Predict Time to Plasma HIV RNA Rebound

Major Goals: Protocol A5345; Biomarkers to Predict Time to Plasma HIV RNA Rebound

The major goals of this protocol are to provide a template for future treatment interruption trials by providing data on participant safety and the effects of short-term treatment pauses.

Project Number: UM1 AI068636

Name of PD/PI: Currier

Source of Support: UCLA AIDS Clinical Trials Group Network (ACTG)/NIAID

Project/Proposal Start and End Date: 12/2018 – 11/2022

Total Award Amount: \$19,687

Title: HIV, SARS-CoV-2 and Host Immune Interactions Across the Human Body

Major Goals: We propose to leverage our expertise in rapid autopsy and applying new analytical technologies to uncover key factors associated with HIV/CoV-2 interaction and the interplay with the immune system in persons with HIV who died with COVID-19.

Project Number: P01 AI131385, Administrative Supplement

Name of PD/PI: Smith

Source of Support: NIH

Project/Proposal Start and End Date: 07/2021 – 06/2022

Total Award Amount: \$1,004,706

Title: Opioid Impacts on T Cell Pathways and Epigenetics to Modulate HIV Integration, Latency and Reservoirs

Major Goals: Our overall goal is to determine how cellular pathways, epigenetics, and HIV integration impact HIV latency and reservoirs. The R61 phase provided proof-of-principle

observations that opioid exposure influences human and viral epigenetics, HIV integration, and cellular pathways. The R33 phase will evaluate if patterns and mechanisms identified in our R61 experiments are congruent with observations made in participants in our Last Gift cohort, and how these processes are associated with HIV reservoirs.

Project Number: R33 DA047039

Name of PD/PI: Smith

Source of Support: NIH/NIDA

Project/Proposal Start and End Date: 07/2021 – 06/2023

Total Award Amount: \$1,160,380

Title: HIV Persistence and Renewal in the Gastrointestinal, Genitourinary and Adipose Tissues

Major Goals: Duplication of HIV DNA by cell division, transmission of HIV RNA between cells within tissues, and trafficking of virus between these tissues may all contribute to HIV persistence. This study will analyze and compare these processes, so that HIV cure research can focus on the critical obstacles to eradication of the virus from these under-studied organ systems.

Project Number: R01DK131532

Name of PD/PI: Smith

Source of Support: NIH

Project/Proposal Start and End Date: 09/2021 – 07/2026

Total Award Amount: \$ 3,949,990

Title: Phase I Clinical Trial for Therapeutic Intervention Particles (TIPs)

Major Goals: To test the safety of a TIP against HIV- in a Phase-0/I clinical trial involving end-of-life HIV+ patients.

Project Number: JW200216

Name of PD/PI: Weinberger

Source of Support: DoD

Project/Proposal Start and End Date: 09/2021 – 09/2024

Total Award Amount: \$ 1,284,627

Title: BEAT-HIV: Delaney Collaboratory to Cure HIV-1 Infection by Combination Immunotherapy

Major Goals: As part of this project, we will serve as a resource of tissues needed to design new HIV Cure studies and to decipher mechanisms of HIV persistence.

Project Number: UM1 AI164570

Name of PD/PI: Montaner

Source of Support: NIH/NIAID

Project/Proposal Start and End Date: 08/2021 – 04/2022

Total Award Amount (including Indirect Costs): \$134,300

Title: RADx-Rad Discoveries & Data: Consortium Coordination Center Program Organization

Major Goals: The RADx-rad coordinating center will organize 49 awardees for the RADx-rad program, serving as a data coordinating center as well as a benchmarking laboratory for new SARS-Cov-2 testing technologies.

Project Number: U24 LM013755

Name of PD/PI: Ohno-Machado

Source of Support: NIH/NLM

Project/Proposal Start and End Date: 12/2020 – 11/2024

Total Award Amount: \$23,817,692

Title: UC San Diego RAPID Faculty Development Program in Infectious Disease

Major Goals: The UC San Diego Faculty Development Program in Infectious Diseases RAPID will provide underrepresented early career academics with effective mentorship to successfully develop critical academic skills to enhance their research progress and success in obtaining extramural funding. The overall goal of the RAPID is to increase the diversity of the biomedical workforce.

Project Number: R25AI147376

Name of PD/PI: Trejo

Source of Support: NIH

Project/Proposal Start and End Date: 08/2020 – 07/2025

Total Award Amount: \$1,750,000

Title: Leaving, Coming and Staying HIV Obligate MicroEnvironments (HOME)

Major Goals: This program will provide new knowledge on the fundamental viral and host mechanisms driving HIV reservoir dynamics and identify the vulnerabilities in the activity and renewal of HIV reservoirs across the human body that can be targeted by new HIV cure efforts.

Project Number: P01 AI169609

Name of PD/PI: Smith

Source of Support: NIH/NIAID

Project/Proposal Start and End Date: 04/2022 – 03/2027

Total Award Amount: \$7,998,646

Active Clinical Trials

- 2020-present Protocol Co-Chair, A5401: Adapt Out COVID/ACTIV-2, one of six clinical trials from the US Government Response to COVID-19.
- 2021-present Protocol Chair, A5404: SARS-CoV-2 Immune Responses After COVID-19 Therapy And Vaccine.
- 2021-present Protocol Co-Chair, A5407: A Study to Compare S-217622 With Placebo in Non-Hospitalized High-Risk Participants With COVID-19 (SCORPIO-HR)
- 2017-present Protocol Co-Chair, A5345: Biomarkers to Predict Time to Plasma HIV RNA Rebound
- 2019-present Protocol Vice-Chair, A5355: Phase II, Double-Blind, Randomized, Placebo-Controlled Trial to Evaluate The Safety And Immunogenicity Of A Modified Vaccinia Ankara (MVA)-Based Anti-Cytomegalovirus (CMV) Vaccine (Triplex®) In Adults With Both Human Immunodeficiency Virus (HIV)-1 And CMV Who Are On Potent Combination ART With Conserved Immune Function.
- 2018-present Protocol Vice-Chair, A5383: A Study to Evaluate the Anti-inflammatory Effects of Letemovir (Prevymis®) in Adults With Human Immunodeficiency Virus (HIV)-1 and Asymptomatic Cytomegalovirus (CMV) Who Are on Suppressive Antiretroviral Therapy, Plus Its Effect on Chronic Inflammation, HIV Persistence and Other Clinical Outcomes. (ELICIT).
- 2022-present Protocol Vice-Chair, A5412: Phase I Study of Cytomegalovirus-specific, Anti-HIV Chimeric Antigen Receptor (CMV-HIV CAR) T Cells Used With CMV-MVA Vaccine (TRIPLEX®) in People Living With HIV.
- 2022-present Protocol Virologist, A5418: Study of Tecovirimat for Monkeypox (STOMP).

Publications (1-338)

1. Smith DM, Ziegler EJ, Rickman LS. Primary Meningococcal Polyarthritis, Cellulitis, and Pneumonia in an Elderly, Immunocompetent Woman. *Infectious Diseases in Clinical Practice*. 1999;8(4):215-8.
2. Smith DM, Rickman LS. Echinococcosis: A Drop of Water—Review on Human Disease, Diagnosis, and Management. *Infectious Diseases in Clinical Practice*. 2001;10(7):355-9.
3. Smith D, Letendre S. Viral pneumonia as a serious complication of etanercept therapy. *Ann Intern Med*. 2002;136(2):174-. doi: 10.7326/0003-4819-136-2-200201150-00020. PubMed PMID: 11790076.
4. Smith D, Metzgar D, Wills C, Fierer J. Fatal *Saccharomyces cerevisiae* aortic graft infection. *J Clin Microbiol*. 2002;40(7):2691-2. doi: 10.1128/jcm.40.7.2691-2692.2002. PubMed PMID: 12089311.
5. Rought S, Sasik R, Smith D, Corbeil J. Chipping Away at HIV Pathogenesis. In: Shaw KJ, editor. *Pathogen Genomics*. Totowa, New Jersey: Humana Press Inc; 2002. p. 13-24.
6. Smith D, Wong J. Continue antiretroviral therapy during virologic failure? *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*. 2002;34(4):553-6. doi: 10.1086/338017. PubMed PMID: 11797186.

7. Smith D, Bannykh S, Ziegler E. A woman kicked in the head by a horse. *Infectious Diseases in Clinical Practice*. 2002;11(1):28-9.
8. Strain MC, Günthard HF, Havlir DV, Ignacio CC, Smith DM, Leigh-Brown AJ, Macaranas TR, Lam RY, Daly OA, Fischer M, Opravil M, Levine H, Bacheler L, Spina CA, Richman DD, Wong JK. Heterogeneous clearance rates of long-lived lymphocytes infected with HIV: intrinsic stability predicts lifelong persistence. *Proceedings of the National Academy of Sciences of the United States of America*. 2003;100(8):4819-24. Epub 2003/04/08. doi: 10.1073/pnas.0736332100. PubMed PMID: 12684537.
9. Mackowiak PA, Chardos JF, Smith D, Letendre S. Demyelinating Encephalitis. *Clinical Infectious Diseases*. 2003;36(10):1332-4. doi: 10.1086/374893.
10. Smith D, Koelsch K, Wong J, Hightower G, Ignacio C, Richman D, Little S, editors. *Male genital tract compartmentalization and transmission of 215L revertant*. *Antiviral Therapy*; 2003: Int Medical Press Ltd 2-4 Idol Lane, London EC3R 5DD, England.
11. Koelsch KK, Smith DM, Little SJ, Ignacio CC, Macaranas TR, Brown AJ, Petropoulos CJ, Richman DD, Wong JK. Clade B HIV-1 superinfection with wild-type virus after primary infection with drug-resistant clade B virus. *AIDS (London, England)*. 2003;17(7):F11-F6. doi: 10.1097/00002030-200305020-00001. PubMed PMID: 12700477.
12. Smith DM, Wong JK, Hightower GK, Ignacio CC, Koelsch KK, Daar ES, Richman DD, Little SJ. Incidence of HIV superinfection following primary infection. *JAMA*. 2004;292(10):1177-8. doi: 10.1001/jama.292.10.1177. PubMed PMID: 15353529.
13. Smith DM, Kingery JD, Wong JK, Ignacio CC, Richman DD, Little SJ. The prostate as a reservoir for HIV-1. *AIDS (London, England)*. 2004;18(11):1600-2. doi: 10.1097/01.aids.0000131364.60081.01. PubMed PMID: 15238781.
14. Richman DD, Little SJ, Smith DM, Wrin T, Petropoulos C, Wong JK. HIV evolution and escape. *Trans Am Clin Climatol Assoc*. 2004;115:289-303. PubMed PMID: 17060974.
15. Wong JK, Smith D, Richman D. Chapter 34 - HIV Drug Susceptibility Testing. In: Wormser GP, editor. *AIDS and Other Manifestations of HIV Infection (Fourth Edition)*. San Diego: Academic Press; 2004. p. 883-904.
16. Frost SDW, Wrin T, Smith DM, Kosakovsky Pond SL, Liu Y, Paxinos E, Chappey C, Galovich J, Beauchaine J, Petropoulos CJ, Little SJ, Richman DD. Neutralizing antibody responses drive the evolution of human immunodeficiency virus type 1 envelope during recent HIV infection. *Proceedings of the National Academy of Sciences of the United States of America*. 2005;102(51):18514-9. Epub 2005/12/09. doi: 10.1073/pnas.0504658102. PubMed PMID: 16339909.
17. Smith DM, Richman DD, Little SJ. HIV superinfection. *The Journal of infectious diseases*. 2005;192(3):438-44. Epub 2005/06/30. doi: 10.1086/431682. PubMed PMID: 15995957.
18. Strain MC, Letendre S, Pillai SK, Russell T, Ignacio CC, Günthard HF, Good B, Smith DM, Wolinsky SM, Furtado M, Marquie-Beck J, Durelle J, Grant I, Richman DD, Marcotte T, McCutchan JA, Ellis RJ, Wong JK. Genetic composition of human immunodeficiency virus type 1 in cerebrospinal fluid and blood without treatment and during failing antiretroviral therapy. *Journal*

of virology. 2005;79(3):1772-88. doi: 10.1128/JVI.79.3.1772-1788.2005. PubMed PMID: 15650202.

19. Smith DM, Wong JK, Hightower GK, Ignacio CC, Koelsch KK, Petropoulos CJ, Richman DD, Little SJ. HIV drug resistance acquired through superinfection. *AIDS (London, England)*. 2005;19(12):1251-6. doi: 10.1097/01.aids.0000180095.12276.ac. PubMed PMID: 16052079.
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22. Pillai SK, Kosakovsky Pond SL, Woelk CH, Richman DD, Smith DM. Codon volatility does not reflect selective pressure on the HIV-1 genome. *Virology*. 2005;336(2):137-43. doi: 10.1016/j.virol.2005.03.014. PubMed PMID: 15892955.
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24. Little SJ, Smith DM. HIV treatment decisions and transmitted drug resistance. *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*. 2005;41(2):233-5. doi: 10.1086/431215. PubMed PMID: 15983921.
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26. Smith DM, Strain MC, Frost SDW, Pillai SK, Wong JK, Wrin T, Liu Y, Petropoulos CJ, Daar ES, Little SJ, Richman DD. Lack of neutralizing antibody response to HIV-1 predisposes to superinfection. *Virology*. 2006;355(1):1-5. Epub 2006/09/07. doi: 10.1016/j.virol.2006.08.009. PubMed PMID: 16962152.
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31. Smith DM, Strain MC, Frost SDW, Pillai SK, Wong JK, Wrin T, Liu Y, Petropoulos CJ, Daar ES, Little SJ, Richman DD. Lack of neutralizing antibody response to HIV-1 predisposes to superinfection. *Virology*. 2006;355(1):1-5. Epub 2006/09/07. doi: 10.1016/j.virol.2006.08.009. PubMed PMID: 16962152.
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37. Noviello CM, Pond SLK, Lewis MJ, Richman DD, Pillai SK, Yang OO, Little SJ, Smith DM, Guatelli JC. Maintenance of Nef-mediated modulation of major histocompatibility complex class I and CD4 after sexual transmission of human immunodeficiency virus type 1. *Journal of virology*. 2007;81(9):4776-86. Epub 2007/02/28. doi: 10.1128/JVI.01793-06. PubMed PMID: 17329339; PubMed Central PMCID: PMC1900175.
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controls using quantitative functional magnetic resonance imaging (qfMRI). *Journal of Neurovirology*; 2007: Taylor & Francis Inc 325 Chestnut St, Suite 800, Philadelphia, PA 19106 USA.

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