



# Sara Gianella (She/Her)

ASSOCIATE PROFESSOR OF MEDICINE, UC SAN DIEGO

✉ [gianella@ucsd.edu](mailto:gianella@ucsd.edu)

📍 La Jolla, CA, 92093, United States

## Professional Experience

### Steering Committee, Rapid Autopsy Consortium

2024 — Present

### Inter-CFAR Working Group on HIV Research in Women, Executive Committee.

March 2024 — Present

### Division Mentorship Director

2023 — Present

University of California San Diego, Department of Medicine, Division of Infectious Diseases and Global Public Health

### AIDS Clinical Trial Group, Vice Chair of the Communications Subcommittee

2022 — Present

### Director, AIDS Clinical Trial Group, San Diego Virology Specialty Lab

2021 — Present

### Co-Director, HIV and Other Pandemics (HOPE) Fellowship Program

2021 — Present

University of California San Diego, Department of Medicine, Division of Infectious Diseases and Global Public Health

### Director, HNRC Neurovirology and Biology Core (NVB)

2021 — Present

HIV Neurobehavioral Research Center, University of California San Diego, La Jolla, USA

### Associate Professor of Medicine

2020 — Present

University of California San Diego, Department of Medicine, La Jolla, CA, USA

### Member, AIDS Clinical Trial Group, Underrepresented Populations Committee

2020 — Present

### Director, CFAR Translational Virology Core

2018 — Present

Center for AIDS Research, University of California San Diego, La Jolla CA, USA

### Steering Committee Member, AIDS Clinical Trial Group, Women's Health Collaborative Science Group

2017 — Present

### Scientific Writer for Infectious Disease Advisor

2017 — 2021

### Chair, CFAR OK Study Session (Mock Study Section)

2015 — Present

Center for AIDS Research, University of California San Diego, La Jolla CA, USA

### Director, HNRC NeuroGERM Core, Virology-Inflammation Unit

2016 — 2021

HIV Neurobehavioral Research Center, University of California San Diego, La Jolla, USA

### **Member, AIDS Clinical Trial Group, Comorbidities Transformative Science Group**

2015 — Present

### **Co-Director, CFAR Inflammation and Aging Scientific Working Group**

2015 — 2017

Center for AIDS Research, University of California San Diego, La Jolla CA, USA

### **Assistant Professor of Medicine**

2013 — 2020

Department of Medicine, University of California San Diego, La Jolla CA, USA

### **Postdoctoral Researcher**

2009 — 2013

Center for AIDS Research, University of California San Diego, La Jolla CA, USA,

### **Postdoctoral Researcher**

2008 — 2009

Division of Infectious Diseases and Hospital Epidemiology, University Hospital of Zurich, Zurich, Switzerland

### **Resident Physician**

2003 — 2008

- **Jan. 2003 - June 2003:** Division of Internal Medicine and Rehabilitation, Ospedale Regionale Bellinzona e Valli, Faido, Switzerland
- **July 2003 - Dec. 2004:** Division of Internal Medicine and Intensive Care, Ospedale San Giovanni, Bellinzona, Switzerland
- **Jan. 2005 - June 2006:** Division of Internal Medicine and Haematology, University Hospital of Zurich, Zurich, Switzerland
- **July 2006 - Mar. 2008:** Division of Infectious Diseases and Hospital Epidemiology, University Hospital of Zurich, Zurich, Switzerland

## **Academic and Other Relevant Qualifications**

### **Specialized Certificate in Biostatistics**

June 2011

University of California San Diego, UCSD Extension, La Jolla, CA, USA

### **Specialization Internal Medicine**

January 2008

FMH – Swiss Medical Association, Switzerland

### **Parenthood**

September 2007

Mother of 3 (born in 2007, 2010, 2013)

Skills: Time management, organization, communication, people management, problem solving, efficiency

### **Advanced Cardiovascular Life Support Training**

May 2004

American Heart Association, Lugano, Switzerland.

### **Doctor of Medicine (M.D.)**

October 2003

Dissertation topic: Prospective Blinded Evaluation of Gd-DOTA-versus Gd-BOPTA-enhanced

Peripheral MR Angiography, as Compared with Digital Subtraction Angiography

University of Zurich, Zurich, Switzerland.

### **Physician Federal Diploma**

October 2002

University of Zurich, Zurich, Switzerland.

*(Eidgenössische Diplom als Ärztin)*

## Web

<http://gianella.ucsd.edu> [UCSD Translational Virology Core](#) [ORCID: 0000-0002-9927-0849](#)

## Research Affiliations

### University of California San Diego, USA

- Department of Medicine
- Division of Infectious Diseases and Global Public Health
- Center for AIDS Research (CFAR)
- HIV Neurobehavioral Research Center (HNRC)
- AntiViral Research Center (AVRC)

## About Me

Sara Gianella Weibel, M.D., graduated from the University of Zurich (Switzerland). After her residency in Internal Medicine in Switzerland, she began her fellowship in the Department of Infectious Disease and Hospital Epidemiology of the University Hospital of Zurich in 2007. She moved to UC San Diego in 2009 to work as a postdoctoral fellow with Drs. Douglas Richman and Davey Smith, and joined the faculty of the Department of Medicine (Division of Infectious Diseases and Global Public Health) in 2013.

Currently she works both at the UC San Diego Antiviral Research Center, and in her laboratory on the UC San Diego campus, where she oversees bench research. She is the director of the Center for AIDS Research (CFAR) Translational Virology Core and director of the AIDS Clinical Trial Group (ACTG) Virology Specialty Laboratory, where she serves as part of several clinical trial protocol teams. She is also Co-directing the NeuroVirology and Biology Core at the HIV Neuro Behavioral Research Center as well as the HOPE T32 Training program.

A "jack of all trades", Dr. Gianella has a broad background in clinical and translational virology, molecular biology and immunology. She is interested in applying the latest laboratory techniques and rigorous analytical methods to address some of the most pressing problems in infectious diseases. Her research includes investigating HIV persistence in various tissues and anatomical compartments across the human body and she is involved in the end-of-life Last Gift program [<http://lastgift.ucsd.edu>]. She is interested in understanding the transmission dynamics of HIV in the genital tract and its interactions with co-infecting viruses, especially but not limited to Cytomegalovirus. She is committed in contributing to understand sex and gender differences in HIV pathogenesis and persistence. Finally, she is investigating clinical complications related to persistent immune activation.

Her team continuously strive to enhance the diversity of the biomedical workforce to improve educational experiences, fostering scientific discovery and innovation, enhancing the benefit of research on health disparate populations, and increasing public trust across the community. Dr. Gianella has experience and is passionate about conducting studies involving women, transgender persons, and other under-represented populations.

## Languages

Italian



English



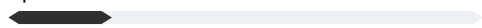
German (incl. Swiss German)



French



Spanish



## Publications

### Journal Articles

1. M. Trunfio, B. Tang, J. Iudicello, A. Bharti, D. Moore, B.B. Gelman, S. Morgello, P.B. Patel, L.H. Rubin, D.B. Clifford, B.M. Ances, **S. Gianella**, R. Heaton, R. Ellis, S.L. Letendre, Longitudinal Analysis of Cerebrospinal Fluid HIV RNA in Untreated People with HIV: Identification of Cerebrospinal fluid Controllers, *J. Med Virol*, 2024, in press
2. **S. Gianella**, C. Anderson, A. Chaillon, A. Wells, M. Porrachia, G. Caballero, M. Vargas, J. Lonergan, B. Woodworth, N. Gaitan, S.A. Rawlings, L. Muttera, L. Harkness, S.J. Little, S. May, D. Smith, Impact of Influenza and Pneumococcal Vaccines on HIV Persistence and Immune Dynamics during suppressive Antiretroviral Therapy, *AIDS*, 2024, in press
3. J. K Dickter, A. Aribi, A.A. Cardoso, **S. Gianella**, K. Gendzekhadze, S. Li, Y. Feng, A. Chaillon, G. M Laird, D. L Browning, J.A. Ross, D.D Nanayakkara, A. Puing, R. Stan, L.L. Lai, S. Chang, T.D. Kadambi, S. Thomas, M.M. Al Malki, R. Nakamura, J. Alvarnas, R.A. Taplitz, S.S. Dadwal, S.J. Forman, J.A. Zaia, HIV-1 Remission after Allogeneic Hematopoietic Cell Transplant, *NEJM*, 2024, in press
4. N. E. Winchester, S. Panigrahi, A. Haria, A. Chakraborty, X. Su, B. Chen, S.R. Morris, B.M. Clagett, S.M. Juchnowski, R. Yadavalli, F. Villinger, M. Paiardini, K. Harth, V.S. Kashyap, L.H. Calabrese, Leonid Margolis, S.F. Sieg, C.L. Shive, **S. Gianella**, N.T. Funderburg, D. A. Zidar, M. M. Lederman, M.L. Freeman, CMV infection facilitates the costimulation of CD57+CD28- CD8 T 1 cells in HIV infection and atherosclerosis via the CD2/LFA-3 axis, *J Immunol*, 2023, in press
5. S.O. Ndukwe, H. Patel, B. Shelton, S. Concha-Garcia, C. Dullano, S. Solso, S. Hendrickx, P.K. Riggs, T.J. Villa, A. Kaytes, J. Taylor, S.J. Little, D. Lessard, A.K. Arora, C.T. Costiniuk, S. Eskaf, D.M. Smith, **S. Gianella**, K. Dubé, People with HIV at the End of Life and their Next-of-Kin/Loved Ones Are Willing to Participate in Interventional HIV Cure-Related Research, *AIDS*, 2023, in press
6. R. Goyal, V. De Gruttola, **S. Gianella**, G. Caballero, M. Porrachia, C. Ignacio, B. Woodworth, D.M. Smith, A. Chaillon, Identification of system-level features in HIV migration within a host, *Plos ONE*, 2023, Sep 26;18(9):e0291367. doi: 10.1371/journal.pone.0291367. PMID: 37751407; PMCID: PMC10521982.
7. K. Dubé, E. Barr, M. Philbin, A. Perez-Brumer, B. Minalga, B. Peterson, D. Averitt, B. Picou, K. Martel, C. Chung, M. Mejía, M. Cameron, G. Graham, L. Dee, D. Dixon Diallo, E. Gordon, A. Korolkova, T. Dyer, J. D. Auerbach, E. Scully, K. L. Dong, **S. Gianella**, Increasing the Meaningful Involvement of Women in HIV Cure-Related Research: A Qualitative Interview Study in the United States, *BMC Women's Health*, 2023, Aug 8;24(1):2246717. PMID: 37608645; PMCID: PMC10454980.
8. A. Manca, A. De Nicolò, E. Delia De Vivo, M. Ferrara, S. Oh, S. Khalili, N. Higgins, R. Deiss, S. Bonora, J. Cusato, A. Palermi, J. Mula, **S. Gianella**, A. D'Avolio, A novel UHPLC-MS/MS method for the quantification of seven opioids in different human tissues, *Pharmaceuticals*, 2023, Jun 19;16(6):903. doi: 10.3390/ph16060903. PMID: 37375850; PMCID: PMC10300969
9. Dubé K, Shelton B, Patel H, Ndukwe SO, Concha-Garcia S, Dullano C, Solso S, Hendrickx S, Kaytes A, Taylor J, Villa TJ, Little SJ, Riggs PK, Lessard D, Arora AK, Costiniuk CT, Eskaf S, Smith DM, **Gianella S**. Perceived risks and benefits of enrolling people with HIV at the end of life in cure research in Southern California, United States. *J Virus Erad.* 2023 Jun 5;9(2):100328. doi: 10.1016/j.jve.2023.100328. PMID: 37440872; PMCID: PMC10334343.
10. M.F. Oliveira, A. Pankow, T. Vollbrecht, N. Kumar, G. Cabalero, C. Ignacio, M. Zhao, A. Vitomirov, B. Gouax, M. Nakawawa, B. Murrell, R.J. Ellis, **S. Gianella**, Evaluation of Archival HIV DNA in brain and lymphoid tissues, *J Virol.* 2023, Jun 29;97(6):e0054323. doi: 10.1128/jvi.00543-23. Epub 2023 May 15. PMID: 37184401; PMCID: PMC10308944.
11. B.C. Taylor, M. S. Andalibi, S. Wandro, K.C. Weldon, G.D. Poore, C.S. Carpenter, S. Fraraccio, D. Franklin, J. Iudicello, S. Letendre, **S. Gianella**, I. Grant, R.J. Ellis, R.K. Heaton, R. Knight, A. D. Swafford, Signatures of HIV and Major Depressive Disorder in the Plasma Microbiome, microorganisms, 2023, Apr 14;11(4):1022. doi: 10.3390/microorganisms11041022. PMID: 37110445; PMCID: PMC10146336.

12. Y. Tang, A. Chaillon, **S. Gianella**, L.M. Wong, D. Li, T.L. Simermeyer, M. Porrachia, C. Ignacio, B. Woodworth, D. Zhong, J. Du, E. de la Parra Polina, J. Kirchherr, B. Allard, M. Clohosey, M. Moeser, A.L. Sondgeroth, G. D. Whitehill, V. Singh, A. Dashti, D.M. Smith, J.J. Eron, K. Bar, A. Chahroudi, S.B. Joseph, N.M. Archin, D.M. Margolis, G. Jiang, Brain microglia serve as a persistent HIV reservoir despite durable antiretroviral therapy, *J Clin Invest*, 2023, Jun 15;133(12):e167417. doi: 10.1172/JCI167417. PMID: 37317962; PMCID: PMC10266791.
13. N.C. Gaitan, M.L. D'Antoni, R. Acosta, **S. Gianella**, S. Little, A. Chaillon, Comparative analysis of pre-existing HIV drug resistance mutations in proviral DNA via Next-Generation Sequencing and routine HIV RNA genotyping, *JAIDS* 2023, Jul 1;93(3):213-218. doi: 10.1097/QAI.0000000000003195. PMID: 36961945; PMCID: PMC10272101.
14. E. Hastie, C. Moser, X. Sun, J. Lennox, P.Y. Hsue, R.J. Bosch, S. Deeks, M.V. Meneses, M.M. Lederman, P. Hunt, T.J. Henrich, V.C. Marconi, **S. Gianella**, Effect of Immune-Modulatory Interventions on Asymptomatic Cytomegalovirus Shedding during Suppressive Antiretroviral Therapy, *J Infect Dis*, 2023, Jun 28;228(1):64-69. doi: 10.1093/infdis/jiad060. PMID: 36881933; PMCID: PMC10490531.
15. C. Wanjalla, C.L. Gabriel, H. Fuseini, S.S. Bailin, M. Mashayekhi, J. Simmons, C. Warren, D.R. Glass, R. Gangula, E. Wilfong, S. Priest, T. Temu, E.W. Newell, S. Pakala, S. Kalams, **S. Gianella**, D. Smith, D.G. Harrison, S.A. Mallal, J. Koethe, CD4+ T cells Expressing CX3CR1, GPR56, with variable CD57 are Associated with Cardiometabolic Diseases in Persons with HIV, *Frontiers Immunol. Sec. Inflammation*, Volume 14 - 2023 | doi: 10.3389/fimmu.2023.1099356
16. S.K. Ahuja, M.S. Manoharan, G.C. Lee, Pharm, L.R. McKinnon, J.A. Meunier, M. Steri, N. Harper, E. Fiorillo, Al. M. Smith, M.I. Restrepo, A.P. Branum, M.J. Bottomley, V. Orrù, F. Jimenez, A. Carrillo, L. Pandranki, C.A. Winter, L.A. Winter, A.A. Gaitan, A.G. Moreira, E.A. Walter, G. Silvestri, C. King, Y. Zheng, H. Zheng, J. Kimani, T. B. Ball, F.A. Plummer, K. R. Fowke, P.N. Harden, K.J. Wood, M. Ferris, J. Lund, M.T Heise, N. Garrett, K.R. Canady, S. S. Abdool Karim, S., J. Little, **S. Gianella**, D. M. Smith, S. Letendre, D.D. Richman, F. Cucca, H. Trinh, S. Sanchez-Reilly, J.M. Hecht, J. Cadena Zuluaga, A. Anzueto, J.A. Pugh, South Texas Veterans Health Care System COVID-19 team, B.K. Agan, R. Root-Bernstein, R. A. Clark, J. F. Okulicz, W, He, Immunologic resilience forecasts superior immunity, linking sexually dimorphic longevity-promoting mechanisms with resistance to COVID-19, HIV/AIDS, and influenza, *Nat Commun*, 2023, in press
17. L. Kaunda, M.S. Ngoma, A.J. Menon, R.K. Heaton, **S. Gianella**, A.R. Bharti, S. Letendre M. Faria de Oliveira, K.A. Hestad, Effect of Coinfections on Neurocognitive functioning among people with Clade C HIV infection in Zambia. *Journal of NeuroVirology*, 2022, Feb;29(1):45-52. doi: 10.1007/s13365-022-01110-2. Epub 2023 Feb 2. PMID: 36729300.
18. C. Vanpouille, A. Wells, J. Dan, S.A. Rawlings, S. Little, W. Fitzgerald, L. Margolis, **S. Gianella**, HIV but not CMV replication alter blood cytokine network during early HIV infection in Men, *Viruses*, 2022, Aug 21;14(8):1833. doi: 10.3390/v14081833. PMID: 36016455; PMCID: PMC9416553.
19. R. Alkolla, A. Grifoni, S. Crotty, A. Sette, **S. Gianella**, J. Dan, Design and validation of HIV peptide pools for detection of HIV-specific CD4+ and CD8+ T cells, *Plos ONE*, 2022, Aug 16;17(8):e0268370. doi: 10.1371/journal.pone.0268370. PMID: 35972938; PMCID: PMC9380920.
20. D. Lessard, K. Dubé, M. Bilodeau, P. Keeler, S. Margolese, R. Rosenes, L. Sinyavskaya, M. Durand, E. Benko, C. Kovacs, C. Guerlotté, W. Tharao, K. Arnold, R. Masching, D. Taylor, J. Sousa, M. Ostrowski, J. Taylor, A. Kaytes, D. Smith, **S. Gianella**, N. Chomont, J.B. Angel, J.P. Routy, É. A. Cohen, B. Lebouché, C. Costiniuk, Willingness of older Canadians with HIV to participate in HIV cure research near and after the end-of-life: A mixed-method study, *AIDS Research and Human Retroviruses*, 2022, Aug;38(8):670-682. doi: 10.1089/AID.2022.0006. Epub 2022 Jul 28. PMID: 35778845; PMCID: PMC9483839.
21. J. Kanazawa, S.A. Rawlings, S. Hendrickx, **S. Gianella**, S. Concha-Garcia, J. Taylor, A. Kaytes, H. Patel, S. Ndukwe, S.J. Little, D. Smith, K. Dubé, Lessons Learned from the Last Gift Study: Ethical and Practical Challenges Faced While Conducting HIV Cure-Related Research at the End-of-Life, *J Med Ethics*. 2022 Jun 22:medethics-2021-107512. doi: 10.1136/medethics-2021-107512. Epub ahead of print. PMID: 35732421.

22. C. Vanpouille, A. Wells, T. Wilkin, J.S. Mathad, S. Morris, L. Margolis, **S. Gianella**, Sex differences in cytokine profiles during suppressive antiretroviral therapy, *AIDS*, 2022, doi: 10.1097/QAD.0000000000003265. Epub ahead of print. PMID: 35608113.
23. M. Egger, S. Penziner, K. Dichtl, L. Kriegl, M. Gornicec, R. Krause, E. Khong, S. Mehta, M. Vargas-Meneses, **S. Gianella**, M. Porrachia, J. Jenks, I. Venkataraman, and M. Hoenigl, Performance of the Euroimmun Aspergillus Antigen ELISA for the Diagnosis of Invasive Pulmonary Aspergillosis in Bronchoalveolar Lavage Fluid, *Journal of Clinical Microbiology*, 2022, 60(4):e0021522. doi: 10.1128/jcm.00215-22. Epub 2022 Mar 30. PMID: 35350844; PMCID: PMC9020356.
24. C. Wang, T.E. Schlub, W. Yu, C.S. Tan, K. Stefic, **S. Gianella**, D.M. Smith, D.A. Lauffenburger, A. Chaillon, B. Julg, Landscape of HIV neutralization susceptibilities across tissue reservoirs, *Clin Infect Disease*, 2022, Mar 2:ciac164. doi: 10.1093/cid/ciac164. Epub ahead of print. PMID: 35234862.
25. J. Kanazawa, **S. Gianella**, S. Concha-Garcia, J. Taylor, A. Kaytes, C. Christensen, H. Patel, S. Ndukwe, S.A. Rawlings, S. Hendrickx, S. Little, B. Brown, D. Smith, K. Dubé, Ethical and Practical Considerations for HIV Cure-Related Research at the End-of-Life: A Qualitative Interview and Focus Group Study in the United State, *BMC Medical Ethics*, 2021, Jan 11;23(1):2. doi: 10.1186/s12910-022-00741-8. PMID: 35012544; PMCID: PMC8748179.
26. S.A. Rawlings, F. Torres, A. Wells, C. Anderson, A. Lisco, W. Fitzgerald, L. Margolis, **S. Gianella**, C. Vanpouille, Effect Of HIV Suppression on The Cytokine Network in Blood and Seminal Plasma A Longitudinal Study, *AIDS*, 2022 Apr 1;36(5):621-630. doi: 10.1097/QAD.0000000000003146. PMID: 34873090; PMCID: PMC8957508.
27. T.A. Premeaux, C.B. Moser, A. McKhann, M. Hoenigl, S.T. Yeung, A.P.S. Pang, M.J. Corley, M.M. Lederman, A.L. Landay, **S. Gianella**, and L.C. Ndhlovu; for the Adult Clinical Trials Group NWCS 411 study team Monitoring Circulating Immune Checkpoint Proteins as Predictors of Non-AIDS Morbid Events in People with HIV Initiating Antiretroviral Therapy OFID, 2022 Jan 21;9(3):ofab570. doi: 10.1093/ofid/ofab570. PMID: 35146038; PMCID: PMC8826032.
28. K. Dube, J. Kanazawa, L. Dee; J. Taylor, J. Saucedo, **S. Gianella**, D. Smith, S.G. Deeks, M. Peluso Considerations for Designing and Implementing Combination HIV Cure Trials: Findings from a Qualitative In-Depth Interview Study in the United States, *AIDS Research and Therapy*, 2021, Oct 18;18(1):75. doi: 10.1186/s12981-021-00401-8. PMID: 34663375; PMCID: PMC8522863.
29. S. Morris, M. Cottrell, S. Rawlings, S. Peterson, M. Karris, A. Chaillon, A. Kay, P.L. Anderson, **S. Gianella**, J. Blumenthal, Genital Inflammation is Not Associated with Decreased Vaginal Tenofovir Concentrations in Women Taking Oral PrEP, *JAIDS*, 2022 Apr 1;89(4):390-395. doi: 10.1097/QAI.0000000000002884. PMID: 35202047; PMCID: PMC8887788.
30. **S. Gianella**, S.A. Rawlings, M. Nakazawa, A. Chaillon, M. Strain, L. Layman, G. Caballero, E. Scully, B. Scott, C. Pacis, K. M. Weber, A. Landay, C. Anderson, J. Karn, Sex differences in HIV Persistence and Reservoir Size during Aging, *Clin Infect Dis*, 2021, Oct 6:ciab873. doi: 10.1093/cid/ciab873. Epub ahead of print. PMID: 34612493.
31. R.J. Ellis, J. Iudicello, R.K. Heaton, S. Isnard, J. Lin, J. Routy, **S. Gianella**, M. Hoenigl, R. Knight, Markers of gut barrier function and microbial translocation associate with lower gut microbial diversity in people with HIV, *Viruses*, 2021, Sep 22;13(10):1891. doi: 10.3390/v13101891. PMID: 34696320; PMCID: PMC8537977.
32. R. Ellis, R. Heaton, **S. Gianella**, G. Rahman, R. Knight, Reduced gut microbiome diversity in people with HIV who have distal neuropathic pain, *The Journal of Pain*, 2022 Feb;23(2):318-325. doi: 10.1016/j.jpain.2021.08.006. Epub 2021 Sep 13. PMID: 34530155.
33. T.A. Premeaux, C.B. Moser, A. McKhann, M. Hoenigl, E.I. Laws, D.L. Aquino, M.M. Lederman, A.L. Landay, **S. Gianella**, L.C. Ndhlovu; for the Adult Clinical Trials Group NWCS 411 Study Team, Plasma Galectin-9 as a Predictor of Adverse Non-AIDS Events in Persons with Chronic HIV During Suppressive Antiretroviral Therapy, *AIDS*, 2021, Dec 1;35(15):2489-2495. doi: 10.1097/QAD.0000000000003048. PMID: 34366381; PMCID: PMC8631144.

34. **S. Gianella**, R. Saloner, G. Curtin, S.J. Little, A. Heaton, J.L. Montoya, S.L. Letendre, M.J. Marquine, D.V. Jeste, D.J. Moore, A Cross-Sectional Study to Evaluate the Effects of Age and Duration of HIV Infection on Anxiety and Depression in Cisgender Men, *AIDS and Behavior*, 2021, Jan;26(1):196-203. doi: 10.1007/s10461-021-03373-y. Epub 2021 Jul 21. Erratum in: *AIDS Behav.* 2021 Aug 24;; PMID: 34287757; PMCID: PMC8294268.
35. J. Kanazawa, **S. Gianella**, S. Concha-Garcia, J. Taylor, A. Kaytes, C. Christensen, H. Patel, S. Ndukwe, S.A. Rawlings, S. Hendrickx, S. Little, B. Brown, D. Smith, K. Dubé, Ethical and practical considerations for interventional HIV cure-related research at the end-of-life: A qualitative study with key stakeholders in the United States, *PLoS ONE*, 2021, Jul 16;16(7):e0254148. doi: 10.1371/journal.pone.0254148. PMID: 34270612; PMCID: PMC8284787.
36. S.S. Javadi, K. Mathur, S. Concha-Garcia, H. Patel, K. Perry, M. Lo, J. Taylor, A. Kaytes, S. Little, **S. Gianella**, D. Smith, K. Dubé, Attitudes and Perceptions of Next-of-Kin/Loved Ones Toward End-of-Life HIV Cure-Related Research: A Qualitative Focus Group Study in Southern California, *PLoS ONE*, 2021, May 7;16(5):e0250882. doi: 10.1371/journal.pone.0250882. PMID: 33961653; PMCID: PMC8104928.
37. T. Zhang, A. Gupta, D. Frederick, L. Layman, D.M. Smith, **S. Gianella**, C. Kieffer, 3D Visualization of Immune Cell Populations in HIV-infected Tissues via Clearing, Immunostaining, Confocal, and Light Sheet Fluorescence Microscopy, *JoVE*, 2021, May 6;(171). doi: 10.3791/62441. PMID: 34028448.
38. S.A. Rawlings, B. Scott, L. Layman, P. Naranatt, R. Heltsley, C. Ignacio, M. Porrachia, **S. Gianella**, D. Smith and A. Chaillon, Can't Work from Home: Pooled Nucleic Acid Testing of Laboratory Workers During The COVID-19 Pandemic, *Open Forum Infect Dis*, 2021 Mar 15;8(7):ofab129. doi: 10.1093/ofid/ofab129. eCollection 2021 Jul. PMCID: PMC7989168 PMID: 34327248
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### Reviews and Editorials

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#### Case Reports and letters

1. M.L. Freeman, J. C. Mudd, C. L. Shive, S. Younes, S. Panigrahi, S. F. Sieg, S. A. Lee, P.W. Hunt, L. H. Calabrese, **S. Gianella**, B. Rodriguez, and M. M. Lederman, Reply to Barrett, et al *Clin Infect Dis*. 2016 Jun 1;62(11):1468-9. PMID: 27001803 *Clin Infect Dis*. 2016, PMID: 27001803 PMCID: PMC5006408 DOI: 10.1093/cid/ciw152
2. S.R. Morris, D. M. Smith, S. Little, and **S. Gianella**. Reply to 'Seminal HIV Blips and Structured Natural Conception In Serodiscordant Couples' by Mounzer and DiNubile. *J Infect Dis*. 15;208(4):711-2, August 2013. PMID: 23667136
3. M. Sassi, N.J. Mueller, H. Yazaki, S. Oka, **S. Gianella**, J.A. Kovacs. Reply to Hauser et al. *Clin Infect Dis*. 2013 Jan;56(1):166-7. PMID: 22990850
4. **S. Gianella**, D. J. Schaer, U. Schwarz, M. Kurrer, F. L. Heppner, J. Fehr, and J. D. Seebach. Retinal microangiopathy and rapidly fatal cerebral edema in a patient with adult-onset Still's disease and concurrent macrophage activation syndrome. *Am J Hematol*, 83(5):424–7, May 2008. Case report. PMID: 18183612
5. **S. Gianella**, S. Ulrich, B. Huttner, and R. Speich. Conservative management of a brain abscess in a patient with *Staphylococcus lugdunensis* endocarditis. *European Journal of Clinical Microbiology and Infectious Diseases*, 25(7):476–478, July 2006. Case report. PMID: 16819618

#### Protocols

1. M.V. Vargas-Meneses, M. Massanella, C.C. Ignatio, **S. Gianella**, *Quantification of HIV RNA and Human Herpesvirus DNA in Seminal Plasma*, *Bio-protocol.org*2015. Available from: <http://bio-protocol.org/e1465>.
2. M. Massanella, **S. Gianella**, S.M. Lada, D.D. Richman, M.C. Strain, *Quantification of Total and 2-LTR (Long terminal repeat) HIV DNA, HIV RNA and Herpesvirus DNA in PBMCs*. - *Bio-protocol.org*2015. Available from: <http://www.bio-protocol.org/e1492>.

\* = Shared first author, \*\* = Shared last author

## Research Grants

### **NIH/NIDA (R01DA059551), Sorting and Sequencing Latent Reservoirs in HIV+ Opioid Users**

September 2023 — September 2028

**Consortium Principal Investigator** (PI: Ott)

### **NIH/NIAID R01 (R01AI181655), Sex-differences in HIV persistence and Immune Dynamics during Reproductive Aging**

October 2023 — September 2028

**Principal Investigator**

### **NIH/NIMH (1R01DK131497), Mechanisms of HIV persistence in the kidney**

August 2022 — July 2027

**Consortium Principal Investigator** (PI: Blasi)

### **NIH/NIAID (P01AI169609), Leaving, Coming and Staying HIV Obligate MicroEnvironments (HOME)**

April 2022 — March 2027

**Co-Investigator and VIDI Research Project Lead** (PI: Smith)

### **NIH/NIAID (UM1AI1067010) AIDS Clinical Trial Group Virology Specialty Laboratory**

December 2021 — November 2026

**Consortium Principal Investigator** (PI: Aldrovandi)

**NIH/NIAID (R01DK131532), HIV Persistence and Renewal in the Gastrointestinal, Genitourinary and Adipose Tissues**

December 2021 — November 2026

**Co-Investigator** (PI: Smith)

**NIH/NHLBI (1R01HL158315-01) Cell-Type Specific Mechanisms of HIV Cardiomyopathy**

December 2021 — November 2026

**Consortium Investigator** (PI: Chi)

**NIH/NIMH (MH128869), Immunometabolic and gene expression profiles associated with depressed mood and behavioral domains in people with HIV**

September 2021 — June 2026

**Co-Investigator** (PI: Ellis)

**NIH/NIAID (AI007384), HOPE T32 (Training Grant)**

September 2021 — September 2026

**Co-Principal Investigator** (Contact PI: Scott Letendre)

**NIAID (Admin suppl P30AI036214), Equipment for CFAR Translational Virology Core**

August 2021 — July 2022

**Supplement Project Director** (PI: Smith)

**NIH (UM1AI126620), BEAT-HIV Delaney Collaboratory to Cure HIV-1 by Combination Immunotherapy**

July 2021 — June 2026

**Consortium Principal Investigator** (PI: Montaner)

**NIH (UM1AI164559), HOPE HIV Delaney Collaboratory (HIV Obstruction by Programmed Epigenetics)**

July 2021 — June 2026

**Consortium Principal Investigator** (PI: Ott)

**NIH (R21MH128034), Characterize replication competent myeloid reservoirs in the central nervous system**

July 2021 — April 2023

**Consortium Principal Investigator** (PI: Jiang)

**NIH/NIMH (R01 DA055491), Brain Myeloid Cells are Sources of HIV-associated Damage and Viral Dispersal**

July 2021 — June 2022

**Co-Investigator** (PI: Chaillon)

**NIH/NIAID (P01 AI131385), HIV, SARS-CoV-2 and Host Immune Interactions Across the Human Body**

July 2021 — June 2022

**Co-Investigator** (PI: Smith)

**NIH/NIAID (R56AI158293), Impact of Reproductive Aging on HIV Persistence and Inflammation**

July 2021 — June 2023

**Principal Investigator**

**NIH/NIMH (P30MH062512), HIV Neurobehavioral Research Center**

April 2021 — March 2026

**Co-Investigator and Neuro Virology and Biology Core Director** (PI: Heaton)

**NIH/NIDDK (R01AI155680), Cytomegalovirus (CMV), the gut barrier, and immune dysfunction in HIV**

March 2021 — February 2026

**Consortium Principal Investigator** (PI: Schacklett)

**MERCK Agreement 60300, Pooled nucleic acid testing strategies for SARS-CoV-2 to Screen HIV Providers and Protect HIV Patients**

February 2021 — February 2022

**Co-Investigator** (PI: Chaillon)

**NIH/NIAID (R01AI147821), Mechanisms of CMV Replication on HIV Persistence**

August 2020 — July 2024

**Principal Investigator**

**NIAID (Adm. Suppl. P30AI036214), Equipment for CFAR Translational Virology Core**

August 2020 — July 2021

**Supplement Project Director** (PI: Smith)

**NIH/NIDA (Avenir Award, DP2DA051915), The HIV-Associated Opioid Micro-Environment (HOME) Project**

July 2020 — June 2024

**Principal Investigator**

**NIAID (Adm. Suppl. P30AI036214), Equipment for CFAR Translational Virology Core**

August 2019 — July 2020

**Supplement Project Director** (PI: Smith)

**UCLA ACTG Network/NIAID (UM1 AI068636) AIDS Clinical Trials Group Network (ACTG) - Protocol A5355**

December 2018 — November 2023

**Protocol Chair** (PI: Carrier)

**UCLA ACTG Network/NIAID (UM1 AI068636) AIDS Clinical Trials Group Network (ACTG) - Protocol A5383**

December 2018 — November 2023

**Protocol Chair** (PI: Carrier)

**NIH/NIAID (R21AI131971), The Prostate as a Reservoir for Residual Replication**

August 2018 — July 2020

**Co-Investigator** (PI: Chaillon)

**NIH/NIAID (P30AI036214), Center for AIDS Research (CFAR)**

April 2018 — March 2023

**Co-Investigator and Translational Virology Core Director** (PI: Smith)

**CNIHR Award, CMV Driven Mechanisms of HIV Persistence**

September 2017 — August 2018

**Principal Investigator**

**NIH/NICHD (R21HD094646), Effect of declining Sex Hormones on HIV Persistence in HIV-infected women on ART**

September 2017 — August 2019

**Principal Investigator**

**NIH/NIDA (P01AI131385), Revealing Reservoirs during Rebound (R3)**

August 2017 — July 2022

**Co-Investigator and Project Leader** (PI: Smith)

**NIH/NIAID (Adm. Suppl. P30AI036214), The Influence of Gut Microbiome and Immune Environments on Gut HIV Reservoirs**

July 2017 — August 2019

**Co-Investigator** (PI: Chaillon)

**NIH/NIDA (R21AI134295), Effect of Sex Hormones on HIV Persistence**

June 2017 — May 2019

**Principal Investigator**

**NIH/NIA (Adm. Suppl. R01MH099987), Successful Aging Among Adults w/ HIV**

September 2016 — October 2017

**Co-Investigator and Program Director** (PI: Jeste)

**NIH/NIAID (Adm. Suppl. P30AI036214), Acceptance and Experiences with Immediate Antiretroviral Therapy**

July 2016 — June 2017

**Co-Investigator and Program Director** (PI: Richman)

**NIH/NIMH (P30MH062512), HIV Neurobehavioral Research Center (HNRC)**

June 2016 — March 2021

**Co-Investigator** (PI: Heaton)

**NIH/NIAID (R01AI118422), Perturbing the HIV Reservoir with Immune Stimulation**

February 2016 — January 2022

**Co-Investigator** (PI: Smith)

**NIH/NIMH (Adm. Suppl. P30MH062512), HIV DNA Populations in Anatomic Compartments**

January 2016 — February 2018

**Co-Investigator and Program Director** (PI: Heaton)

**CFAR/OAIC (Pilot Grant), HIV DNA population in the brain of older HIV-infected adults on ART**

April 2015 — March 2016

**Principal Investigator**

**NIAID/CFAR (Dev. Grant, P30AI036214), Therapeutic HIV Vaccine to Target the HIV Reservoir in Anatomic Compartments during Suppressive Antiretroviral Therapy**

November 2015 — June 2017

**Principal Investigator**

**NIH/NIMH (R01MH107345), Age related determinants of HAND: A 12 year follow-up of CHARTER participants.**

September 2015 — June 2020

**Co-Investigator** (PI: Letendre/Heaton)

**NIMH (Adm. Suppl. P30AI036214), Effect of Age on the HIV DNA population in the brain.**

June 2015 — May 2016

**Co-Investigator and Project Director** (PI: Smith)

**NIH/NIAID (Adm. Suppl. UM1AI068636), Immunologic Pathways That Predict Non-AIDS Events and Death During ART-mediated Viral Suppression: A Substudy of NWCS 329.**

June 2015 — May 2016

**Principal Investigator**

**NIH/NIDA (Adm. Suppl. UM1AI068636), Methamphetamine Use and Mechanisms of HIV Persistence**

January 2015 — December 2015

**Principal Investigator**

**CHRP (IDEA Award), Immunologic Pathways of HIV persistence**

January 2015 — December 2017

**Principal Investigator**

**NIH/NIAID (Adm. Suppl. R24AI106039), Mechanisms of HIV persistence during long-term suppressive ART**

August 2014 — July 2015

**Co-Investigator and Project Director** (PI: Little)

**CTRI (Dev. Grant), Mechanisms of HIV Persistence**

April 2014 — March 2015

**Principal Investigator**

**CNIHR Award, Impact of CMV Replication on the HIV-1 Latent Reservoir**

September 2013 — August 2015

***Principal Investigator***

**NIMH/HNRP (Dev. Grant, P30MH062512), HIV population dynamics in CNS and neurocognitive disorder in virologically suppressed subjects**

August 2013 — July 2014

***Principal Investigator***

**NIAID/CFAR (Dev. Grant, P30AI036214), HIV Viral Reservoir in Anatomic Compartments**

July 2013 — June 2015

***Principal Investigator***

**NIH NIDA (Adm. Suppl. UM1AI068636), Impact of Methamphetamine Use on Immune Activation and HIV-1 Reservoir**

April 2013 — March 2014

***Co-Investigator and Program Director*** (P.I. Benson)

**NIH/NIMH (R01MH101012), Intra-host HIV population dynamics in CNS and other tissues**

April 2013 — March 2016

***Co-Investigator*** (P.I. Ellis)

**AmfAR (Dev. Grant in HIV Eradication), Exploring the impact of Cytomegalovirus replication on HIV latent reservoir**

March 2013 — February 2014

***Principal Investigator***

**NIH/NIMH (R25MH081482), Interdisciplinary Research Fellowship in NeuroAIDS (IRFN)**

October 2012 — September 2014

***Fellow***

**Swiss National Science Foundation, Advanced Researcher Fellowship, Impact of Genital Tract Inflammation on Sexual Transmission and Seminal Compartmentalization of HIV among Men Who Have Sex With Men**

October 2011 — March 2013

***Principal Investigator***

**Swiss National Science Foundation, Prospective Researcher Fellowship, Human Immunodeficiency Virus Type 1 in Semen: Biologic correlates of sexual transmission**

October 2009 — July 2011

***Principal Investigator***

## **Clinical Protocols**

**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, (A5355)**

January 2022

***Chair***

**Randomized, Placebo-Controlled Trial to Evaluate the Anti-inflammatory Efficacy of Letemovir (Prevymis) in Adults with Human Immunodeficiency Virus (HIV)-1 and Asymptomatic Cytomegalovirus (CMV) Who Are on Suppressive ART and Its Effect on Chronic Inflammation, HIV Persistence, and Other Clinical Outcomes, (A5383, NCT04840199)**

March 2022

***Co-Chair***

**Effect of Immune-Modulatory Interventions on Cytomegalovirus Replication during Suppressive Antiretroviral Therapy, (A5351s)**

February 2016 — June 2018

***Chair***

**Virologic Activity of DTG +3TC in the Genital Compartment , (ViiV sponsored)**

February 2016 — June 2018

**Co-Chair**

## **Honors & Awards**

**Health Sciences Faculty Excellence in Mentoring Award**

November 2023

**AAMC Mid-Career Women Faculty Leadership Development Seminar, Indian Wells**

December 2022

**Charlie Van der Horst Investigator Award, AIDS Clinical Trial Group**

November 2022

**Top ID/HIV Research Mentor Award**

June 2021

**Senior Faculty Mentor Training 2020: Optimizing Health Sciences Faculty Mentoring Relationships at UCSD**

November 2020

**Avenir Award for HIV/AIDS Research, NIH/NIDA**

July 2020

**UC San Diego Integrity Champion Award, University of California San Diego**

April 2019

**CFAR Emerging Investigator Award, University of California San Diego**

October 2018

**National Center of Leadership in Academic Medicine , University of California San Diego**

January 2016

**IDEA Award in Basic Biomedical Science, California HIV Research Program**

January 2016

**Cleveland Immunopathogenesis Consortium Best Commentary Award, Zvi Grossman Memorial Award**

October 2016

**Young Investigator Award, Seminal CMV Replication, Immune Activation, and Higher Proviral HIV DNA during ART, 21st Conf. on Retroviruses and opportunistic infections (CROI) 2014**

February 2014

**Creative and Novel Ideas in HIV Research, CFAR/NIH/IAS (CNIHR)**

June 2013

**Young Investigator Award, Shedding of HIV and Human Herpesviruses in the Semen of effectively treated HIV Infected Men, 20th Conf. on Retroviruses and opportunistic infections (CROI) 2013**

February 2013

**Interdisciplinary Research Fellowship in NeuroAIDS, NIH, National Institute of Mental Health**

February 2012

**Young investigator award, Frequency and Impact of Herpes Virus Shedding in the Genital Tract of HIV-infected Men, 19th Conf. on Retroviruses and opportunistic infections (CROI) 2012**

February 2012

**Young investigator award, Levels of cytomegalovirus and HIV-1 in seminal plasma correlate positively with the numbers and activation status of lymphocytes in semen, 18th Conf. on Retroviruses and opportunistic infections (CROI) 2011**

February 2011

**Advanced Researcher Fellowship, Swiss National Science Foundation**

October 2011

**Young Investigator Award, Impact of Early Antiretroviral Therapy on Proviral HIV-1 DNA and Plasma Viremia in Acute Infected Patients, 17th Conf. on Retroviruses and opportunistic infections (CROI) 2010**

February 2010

**Prospective Researcher Fellowship, Swiss National Science Foundation**

October 2009

## **Network and Collaboratories**

**AIDS Clinical Trial Group, Underrepresented Populations Committee (UPC), NIH/NIAID**

2020 — Present

**NIH Human Tissue and Organ Research Resource (HTORR) HIV Scientific Advisory Panel**

2018 — Present

**AIDS Clinical Trial Group, Women's Health Inter-Network Scientific Committee (WHISC), NIH/NIAID**

2016 — Present

**MIG (HIV Mucosal Immunology Group), NIH**

2015 — 2017

**HIV and Aging Inter-CFAR Working Group, NIH/NIAID**

2015 — Present

**AIDS Clinical Trial Group, Comorbidities Transformative Science Group (former: End-Organ Disease And Inflammation Transformative Science Group), NIH/NIAID**

2013 — Present

## **Invited Talks**

**Suppressing Asymptomatic CMV with Letemovir Reshapes Cardiometabolic Proteome in Treated HIV , UCSF Center for AIDS Research**

March 2024

**The Last Gift Program, Lessons learned from altruistic participants enrolled in HIV Cure research at the end of life, Office of AIDS Research Director's Seminar**

March 2024

**"The Last Gift Program Lessons learned from altruistic participants enrolled in HIV Cure research at the end of life" , Palm Springs (Provider dinner)**

March 2024

**"Life Course Perspectives", NIH HIV & Women Scientific Workshop: Centering the Health of Women in HIV Research**

March 2024

**"And you thought this was gonna work?", Cleveland Immunopathogenesis Consortium**

March 2024

**"Wondering If I'd Get There Quicker If I Was a Man: Factors Contributing to Delayed Academic Advancement of Women in Infectious Diseases.", Rustbelt Center for AIDS Research**

September 2023

**"Barrier to an HIV Cure in Women", Inter-CFAR HIV in Women Seminar**

September 2023

**"Barrier to an HIV Cure in Women", Rustbelt Center for AIDS Research, Sex and Gender Scientific Working Group**

June 2023

**"Wondering If I'd Get There Quicker if I Was a Man", Forty Years of CHRP: Ending the Epidemic(s) Through Equity and Innovation**

June 2023

**"It's All in Your Head: Medical Gaslighting in Women's Health", UC San Diego, Film Night**

May 2023

**"Applying research grants as a postdoc.", UC San Diego, Stem Career Symposium**

May 2023

**"Gender and Race in Author Attribution" , University of Arizona, WIMS Panel**

April 2023

**Team Women National Women and Girls HIV/AIDS Awareness Day Panel Discussion (virtual event)**

March 2023

**"Gender Disparities in Academic Medicine" , San Diego Center for AIDS Research (CFAR) Seminar Series**

March 2023

**"Cytomegalovirus, Inflammation and HIV Persistence" (Keynote Speaker), 18th Residential Course on Clinical Pharmacology and Antiretroviral, Turin, Italy**

January 2023

**"Sex Differences in HIV Persistence" , DOM Grand Rounds, University of California San Diego**

September 2022

**"CMV and Inflammation in People with HIV", Viral Infections and Inflammation Workshop, Washington DC**

September 2022

**"Barriers to Cure HIV in Women", 16th Residential Course on Clinical Pharmacology and Antiretroviral, Turin, Italy**

January 2022

**"The Last Gift: End of life Research Model for HIV Cure Research", Joint NIMH Center Seminar Series, The Johns Hopkins NIMH Center, Baltimore, MD**

March 2021

**"The Last Gift: End of life Research Model for HIV Cure Research", 15th Residential Course on Clinical Pharmacology and Antiretroviral, Turin, Italy**

January 2021

**"Barrier for an HIV Cure", University of Illinois Seminar Series, Champaign, IL**

October 2020

**"HIV and the Adipose Immune Environment", 15th Residential Course on Clinical Pharmacology and Antiretroviral, Turin, Italy**

January 2020

**"Inflammation and its Role in HIV Pathogenesis and Aging", Ryan White HIV/AIDS Program Clinical Conference, IAS-USA, New Orleans, LA**

December 2019

**"The Last Gift", Finding and Characterizing HIV Reservoirs Workshop, Washington D.C.**

July 2019

**"CMV and Inflammation", iFARA panelist, Seattle, WA**

March 2019

**"Barrier for an HIV Cure", 14th Residential Course on Clinical Pharmacology and Antiretroviral, Turin, Italy**

January 2019

**"The Last Gift: Performing HIV Cure Research at the End of Life", NIH Cure Meeting, Washington D.C.**

October 2019



**"Design Gender Inclusive Clinical Trials", ACTG Underrepresented Minority Population Webinar**

January 2019

**"CMV and HIV Persistence: Pouring Gas on the Fire", Creative and Novel Ideas in HIV Research, Washington D.C.**

August 2018

**"The Last Gift: Performing HIV Cure Research at the End of Life", Positive Life, San Diego, CA**

July 2018

**"The Last Gift: For whom is it good to be dead?", Cleveland Immunopathogenesis Consortium, Cleveland, OH**

May 2018

**"The Last Gift: Performing HIV Cure Research at the End of Life", Christie's place, San Diego, CA**

April 2018

**"The Last Gift: Performing HIV Cure Research at the End of Life", iFARA panelist, Boston, MA**

March 2018

**"The Last Gift: Performing HIV Cure Research at the End of Life", People of Color Case Management Provider's Meeting, San Diego, CA**

February 2018

**"The Last Gift: Performing HIV Cure Research at the End of Life", San Diego County Coalition for Improving End of Life Care, San Diego, CA**

January 2018

**"HIV Reservoirs in Tissues are Hard to Reach", University of Zurich, Zurich, Switzerland**

July 2017

**"Seminal CMV Replication during Primary HIV Infection is associated with T cell Dysfunction", Emerging International Leaders in Global HIV/AIDS Research, Paris, France**

July 2017

**"Women and HIV Cure", ACTG annual retreat, community talk, Washington D.C.**

June 2017

**"End-of-Life Research for HIV Cure", The Palm Springs Positive Life HIV education program, Palms Springs, CA**

April 2017

**"Girls will be girls and viruses will be viruses", Cleveland Immunopathogenesis Consortium, Cleveland, OH**

March 2017

**"Women and HIV Cure", Women's HIV Research Collaborative (WHRC) webinar**

June 2016

**"Getting Hotter as We Get Older", IAS-USA, 24th annual meeting, San Francisco, CA**

May 2016

**"End-of-Life Research for HIV Cure", iFARA panelist, Seattle, WA**

February 2016

**"The Sordid Affair between CMV and HIV", Young PIs in HIV Research, NIH Seminar Series, Bethesda, MD**

February 2016

**"The Sordid Affair between CMV and HIV", Physicians' Research Network and Medical Society of the State of New York, New York, NY**

November 2015

**"Snakes in the Reservoir", Cleveland Immunopathogenesis Consortium, Cleveland, OH**

October 2015

**"The Sordid Affair between CMV and HIV", ACTG annual retreat, Washington D.C.**

June 2015

**"Immunologic and Virologic Dynamics in the Mucosal Tissue", Fred Hutchinson Cancer Research Center, Seattle, WA**

April 2015

**"Neurological Issues in HIV", iFARA panelist, Seattle, WA**

March 2015

**"Impact of CMV replication on the HIV DNA reservoir", Towards an HIV Cure Symposium, Doherty Institute, University of Melbourne, Melbourne, Australia**

July 2014

**"Herpesviruses and HIV-1", Weill Cornell Medical College, Cornell University, New York, NY**

June 2014

## **Conference Chairing**

**Epigenetic Mechanisms of HIV/CNS Latency/NIMH supported ISNV symposium, Washington, D.C.**

October 2022

**Biotypes of Central Nervous System Complications in People Living with HIV, Washington D.C.**

October 2021

**"Cure/Reservoir: The long and winding road to a cure", National CFAR Meeting, San Diego, CA**

November 2020

**"Defining the HIV Reservoir" (oral abstract session), CROI Conference of Retroviruses and Opportunistic infections, Boston, MA**

March 2018

**"Residual Disease and Immune Activation/Inflammation on ART" (workshop), IAS Meeting, Paris, France**

July 2017

## **Editorial Boards**

**Journal of Infectious Diseases (JID), Associate Editor**

2022

**Clinical Infectious Diseases (CID), Editorial Advisory Board**

2019 — Present

**Journal of Infectious Diseases (JID), Editorial Advisory Board**

2019 — 2022

**Frontiers in Immunology, Topic Editor for HIV**

2018

**JAIDS, Editorial Board**

2018 — Present

**PLOS ONE, Guest Editor**

2017

**Scientific Reports, Nature Publishing Group, Senior Editor**

2015 — Present

## **Reviewing - Journals**

2012 — 2020

*Clinical Infectious Diseases (CID), Journal of Infectious Diseases (JID), AIDS, PLOS Pathogen, Journal of Acquired Immune Deficiency Syndromes (JAIDS), Annals of Internal Medicine, PLOS ONE, AIDS Research and Human Retroviruses (ARHR), eLife, Pathogens and Immunity, PharmaNutrition, Journal of Leucocyte Biology,, Open Forum Infectious Diseases (OFID), , Antiviral Therapy, Vaccines, The British Medical Journal (BMJ) , International Journal of Environmental Research and Public Health, Future Virology*

## **Reviewing – Grants and Protocols**

### **NIH- NIDA study section**

2020 — Present

### **amfAR – grant reviewer**

2019

### **NIH – various study sections**

2017

### **NIAID/CFAR - Developmental grants**

2015 — Present

### **ACTG - AIDS Clinical Trial Group**

2013 — Present

## **Professional Membership**

### **Infectious Diseases Society of America**

2022 — Present

### **Association of American Medical Colleges Group on Women in Medicine and Science**

2022 — Present

### **American Society of Microbiology, ASM**

2011 — Present

### **Swiss Resident and Attending Physicians Association, VSAO**

2007 — 2018

### **Swiss Medical Association, FMH**

2007 — 2018

## **University and Faculty Service**

### **T32 Committee, San Diego Center for AIDS Research (CFAR)**

December 2022

### **Women Affinity Group, lead faculty, San Diego Center for AIDS Research (CFAR)**

December 2022

### **JEDI Committee member, San Diego Center for AIDS Research (CFAR)**

December 2022

### **Gender Equity Committee, NEW, UCSD Dept. of Medicine**

October 2022

### **California HIV Research Program (CHRP)'s Advisory Council , UC Office of President**

September 2022

### **HIV and Other Pandemics (HOPE) T32 Fellowship Program Co-Director, UCSD Dept. of Medicine**

April 2021

### **Infections Disease and Global Public Health Academic Review Committee, UCSD Dept. of Medicine**

April 2021 — Present

### **Infections Disease and Global Public Health Clinical Fellow Recruitment Committee, UCSD Dept. of Medicine**

November 2019 — Present

**Integrity Award Selection Committee, UCSD**

July 2019 — Present

**Joint FTE Search Committee, UCSD Dept. of Medicine/Molecular Biology**

July 2019 — Present

**Scientific Ethics Faculty Panel participant, UCSD Research Ethics Program**

July 2019 — Present

**Project Scientist Recruitment Committee, UCSD Dept. of Medicine**

September 2018 — Present

**Transgender Community Advisory Board, administrative co-chair, UCSD Dept. of Medicine**

September 2018 — Present

**Steering Committee for the Transgender Community Advisory Board, UCSD Dept. of Medicine**

September 2018 — Present

**Stakeholder Steering Committee under the PCORI Engagement and Capacity Building Grant**

July 2017 — Present

**Steering Committee for the Sustained Training on Aging and HIV Research (STAHR) program, UCSD Dept. of Psychiatry**

April 2017 — Present

**IRB Committee Member (Vice Chair since 2023), UCSD Human Research Protection Program**

April 2015 — Present

**Internal Medicine Physician-Scientist Recruitment Committee, UCSD Dept. of Medicine**

January 2014 — Present

**Infectious Disease Postdoctoral Scholars Recruitment Committee, UCSD Dept. of Medicine**

January 2014 — Present

## Teaching

**SOMC 224A/B/C: Problem-Based-Learning, UC San Diego**

- Spring 2023, *Renal 2, ind, Body, Behavior 2*
- Spring 2022, *Microbiology 1, Mind, Body, Behavior 2*
- Winter 2021, *Musculoskeletal 1*
- Fall 2021, *Foundations of Human Biology, Cardiovascular 2, Gastrointestinal 2, Endocrinology / Reproduction / Metabolism 1*
- Spring 2021, *Immunology / Hematology 1, Microbiology 1, Endocrinology / Reproduction / Metabolism 1*
- Winter 2021, *Musculoskeletal 1, Multi-Organ System Disorder 2*
- Fall 2020, *Foundations of Human Biology, Oncology 2, Arthritis, Rheumatology, Dermatology Disorders 2*
- Spring 2020, *Microbiology 1, Cardiovascular 2*
- Winter 2020, *Musculoskeletal 1, Oncology 2*
- Fall 2019, *Foundations of Human Biology 1, Cardiovascular 1, Multi-Organ System Disorder, Gastrointestinal 2*
- Spring 2019, *Microbiology 1*
- Winter 2019, *Musculoskeletal 1, Pulmonary 2*
- Fall 2018, *Foundations of Human Biology, Cardiovascular 1, Pulmonology 1, Oncology*
- Spring 2018, *Microbiology 1*
- Winter 2018, *Mind, Body, Behavior 1 and 2*
- Fall 2017, *Foundations of Human Biology, Gastrointestinal 1 and 2, Arthritis, Rheumatology, Dermatology Disorders 2*
- Spring 2017, *Immunology/Hematology 1, Microbiology 1*
- Fall 2016, *Foundations of Human Biology, Gastrointestinal 1 and 2, Oncology*

- Winter 2016, *Musculoskeletal 2, Multi-Organ System Disorder 2,*
- Fall 2015, *Foundations of Human Biology 1, Gastrointestinal 1 and 2, Arthritis, Rheumatology, Dermatology Disorders 2*
- Spring 2015, *Microbiology 1*
- Fall 2014, *Cardiology, Gastrointestinal 1, Human Biology 1*

#### **SOM 410: From Principles to Practice, UC San Diego**

- Winter 2014, *Call Night.*

#### **SOMC245: Microbiology, UC San Diego**

- Spring 2022, *Herpesviruses*
- Spring 2021, *Herpesviruses*
- Spring 2020, *Herpesviruses*
- Spring 2019, *Herpesviruses*

#### **Molecular Medicine, STSI La Jolla**

- Spring 2022, *Clinical HIV and Therapies*
- Spring 2020, *Clinical HIV and Therapies*
- Spring 2018, *Clinical HIV and Therapies*
- Spring 2016, *Clinical HIV and Therapies*
- Spring 2014, *Clinical HIV and Therapies*

#### **Equity in System Science (ESS) Foundations of Human Biology**

- Fall 2022
- Spring 2023
- Fall 2023

#### **Patient Oriented Research (POR 2, CLRE-256)**

- 2021, lecturer and course co-director
- 2022, lecturer and course co-director
- 2023, lecturer and course co-director

## **Mentoring**

#### **Postdoctoral Fellows, UC San Diego**

- 2022-present Mattia Trumfio, MD, Department of Medicine
- 2022-present Andrew Weil Semulimi, MD, Makerere University, Uganda
- 2022-present Thomas Premeaux, PhD, Weill Cornell Medicine
- 2021-present Elizabeth Hastie, MD, Department of Medicine
- 2021-present Celestine N. Wanjalla MD PhD, Vanderbilt University
- 2020-present Patricia (Katie) Riggs, MD, Department of Medicine
- 2020-2021. Avery Matthews, Department of Psychiatry
- 2018-2022 Stephen Rawlings, Department of Medicine
- 2017-2020. Sarah LaMere, Department of Medicine
- 2018-2020 Sergio Ita, Department of Medicine
- 2018-2020 Thomas Martin, Department of Medicine
- 2017-2018 Julia Najera, Department of Medicine
- 2016-2019 Aaron Christensen-Quick, Department of Medicine
- 2014-2018 Martin Hoenigl, Department of Medicine
- 2014-2015 Christina Yek, Department of Medicine
- 2013-2018 Michelli F. Oliveira, Department of Medicine
- 2014-2015 Marta Massanella, Department of Medicine
- 2013-2018 Jennifer Dan, Department of Medicine
- 2012- 2019 Antoine Chaillon, M.D./Ph.D., Department of Medicine
- 2012-2017 Josue Perez Santiago, Ph.D., Department of Medicine
- 2012-2013 Jesus Rodriguez Manzano, Ph.D., Department of Medicine
- 2010-2014 Gabriel Wagner, M.D., Department of Medicine

### **Ph.D. Students, UC San Diego**

- 2022-present Danielle Campbell, Department of Medicine
- 2019- 2021 Nicole Pepper, Department of Medicine
- 2010-2012 Josue Perez Santiago, Department of Medicine

### **Undergraduate Students, UC San Diego**

- 2023-present Yijie Luo, UC San Diego
- 2023-present Momtahina Tahmida, UC San Diego
- 2023-present Marissa Borochoff, UC San Diego
- 2023-present Aleksander Georgian, UC San Diego
- 2023-present Megha Srivatsa, UC San Diego
- 2022-present. Karen Nejera, UC San Diego
- 2021--2023. Jonathan Huynh, UC San Diego
- 2021-2023 Bryan Pham, UC San Diego
- 2021-present Noah Gaitan, UC San Diego
- 2019-2022 Emily Rao, UC San Diego
- 2018- 2022. Sogol Javadi, UC San Diego
- 2018- 2022. Kushagra Mathur, UC San Diego
- 2018- 2021 Alexis Kay, UC San Diego
- 2019-2020 Genevieve Curtin, UC San Diego
- 2017-2018 Denise Tieu, UC San Diego
- 2017-2020 Christina Huynh, UC San Diego
- 2015-2017 Laura Layman, UC San Diego
- 2015-2016 Mitchell Zhao, UC San Diego
- 2013-2017 Andrej Vitomirov, UC San Diego
- 2013-2015 Susanna Var, UC San Diego

### **Honor Theses, James Cook University**

- 2014: Samuel Turner, "*Seminal Hepatitis C (HCV) viral loads in HIV-infected men-who-have-sex-with-men (MSM) during acute HCV infection*".