CURRICULUM VITAE
Ya-Chi Ho, MD, PhD

Version Date: 8/17/2023

Education:

09/1995 - 06/2002	MD, National Cheng Kung University, Medicine, Tainan, Tainan City, Taiwan
09/2005 - 06/2007	MMS, National Taiwan University, Clinical Medicine, Taipei, Taiwan
08/2008 - 09/2013	PhD, Johns Hopkins University School of Medicine, Cellular and Molecular Medicine, Baltimore, MD, United States

Career/Academic Appointments:

07/2000 - 08/2000	Clinical clerkship, Medical Oncology, Yale University, New Haven, CT
03/2001 - 05/2002	Clinical clerkship, Duke University Medical Center, Durham, NC
06/2002 - 06/2005	Resident, internal Medicine, National Taiwan University Hospital, Taipei, Taiwan
06/2005 - 06/2007	Clinical fellow, Division of infectious Diseases, National Taiwan University Hospital, Taipei, Taiwan
07/2007 - 06/2008	Attending Physician, infectious Diseases, Medicine, National Taiwan University Hospital, Yun-Lin Branch, Douliu, Taiwan
09/2013 - 09/2014	Postdoctoral fellow, Division of infectious Diseases, Johns Hopkins School of Medicine, Baltimore, MD
10/2014 - 12/2015	Research Associate, Medicine, Johns Hopkins School of Medicine, Baltimore, MD
01/2016 - 03/2017	instructor, Medicine, Johns Hopkins School of Medicine, Baltimore, MD
04/2017 - 08/2017	Assistant Professor, Medicine, Johns Hopkins School of Medicine, Baltimore, MD
09/2017 - 06/2021	Assistant Professor, Microbial Pathogenesis, Yale School of Medicine, New Haven, CT (Primary)
09/2017 - 06/2021	Assistant Professor, infectious Diseases, Yale School of Medicine, New Haven, CT (Secondary)
07/2021 - present	Associate Professor on Term, Microbial Pathogenesis, Yale School of Medicine, New Haven, CT (Primary)
07/2021 - present	Associate Professor on Term, infectious Diseases, Yale School of Medicine, New Haven, CT (Secondary)

Administrative Positions:

2016 - 2017	Co-Director, HIV Cure Scientific Working Group, Johns Hopkins School of Medicine, Baltimore, MD
2016 - 2021	Investigator, HIV Reservoirs and Viral Eradication Transformative Science Group (Cure TSG), AIDS Clinical Trial Group, New Haven, CT
2021 - Present	Faculty Advisory Council member, Microbial Pathogenesis, Yale University, New Haven, CT
2022 - Present	Director of Graduate Studies (DGS), Microbiology PhD Program of Biological and Biomedical Sciences, Yale University, New Haven, CT
2022	NIH/NIAID/DAIDS Subject Matter Expert (SME) on single-cell profiling
2023 -	Keck Microarray Shared Resource (KMSR) scientific advisory board, Yale University, New Haven, CT

Professional Honors & Recognition:

International/National/Regional

2002	*Phi Tau Phi*
2003 - 2004	Best Resident Award, Department of Medicine, National Taiwan University Hospital
2007	Best Teaching Resident Award, National Taiwan University Hospital
2007	Scholarship for PhD Studies Abroad, Ministry of Education, Taiwan
2011	Howard Hughes international Student Research Fellowship
2013	Young investigator Award, Conferences on Retroviruses and Opportunistic infections (CROI)
2014	Michael Shanoff Johns Hopkins Young Investigator Award, Johns Hopkins University School of Medicine
2014	*Phi Beta Kappa*
2016	W. W. Smith Charitable Foundation AIDS Research Award
2016	Distinguished Alumni Award, National Cheng Kung University
2018	Gilead Sciences Research Scholar in HIV, Gilead Sciences
2018	Andy Kaplan Prize, Cold Spring Harbor Laboratory Meetings on Retroviruses
2022	Thomas A. and Joyce E. Pearson Endowed Lecture and Keynote Speaker, Medical Scientist Research Symposium, University of Rochester
2022	Keynote speaker, The Australasian Society for HIV, Viral Hepatitis and Sexual Health Medicine (ASHM)
2023	Elected member, American Society for Clinical investigation (ASCI), American Society for Clinical investigation
2023	Plenary speaker, International AIDS Society Annual Meeting

Yale University/Yale School of Medicine/Hospital System

2017	Lois E. and Franklin H. Top, Jr. Yale Scholar, Yale University School of Medicine
2018	Rudolf J. Anderson Fellowship, Yale University

Invited Speaking Engagements, Presentations, Symposia & Workshops

Not Affiliated with Yale:

International/National

Before joining Yale

1. "How far away is a sterilizing cure: Molecular and functional analysis of HIV-1 proviruses", The Department of Microbiology, Immunology, and Tropical Medicine Seminar**, George Washington University**, Washington, DC, United States, October 2015
2. "The expression of defective HIV-1 proviruses complicates HIV-1 cure strategies", Conference on Cell & Gene Therapy for HIV Cure, **Fred Hutchinson Cancer Research Center**, Seattle, WA, United States, August 2017

As an Assistant Professor at Yale

3. "Cytotoxic T lymphocytes shape the landscape of HIV-1 proviruses", The international Meeting of the institute of Human Virology, **University of Maryland, Baltimore**, MD, United States, October 2017
4. "HIV-1 Viral and Proviral Landscape", Keystone Symposia, HIV and Co-infections, **Keystone Symposia**, HIV and Co-infections, Whistler, BC, Canada, April 2018
5. "Aberrant integrant-driven host gene expression contributes to HIV-1 persistence", **Cold Spring Harbor Laboratory Meetings on Retroviruses**, Cold Spring Harbor, NY, United States, May 2018 (**Andy Kaplan Prize Talk**)

6. "HIV-1 RNA SortSeq: HIV-1-driven aberrant host gene expression contributes to HIV-1 persistence", **University of Washington/Fred Hutchinson Center for AIDS Research Seminar**, Seattle, WA, United States, June 2018
7. "Targeting the one in a million: detection and elimination of the HIV latent reservoir", **AACR Special Conference on Cancer**: Dormancy and Residual Disease, American Association for Cancer Research, Montreal, QC, Canada, June 2018
8. "Understanding HIV persistence – do defective viruses matter?", AIDS 2018, **The International AIDS Annual Meeting,** Amsterdam, NH, Netherlands, July 2018
9. "They said academia is hard", Academic Research Faculty Career Workshop, Professional Development and Career office, **Johns Hopkins University School of Medicine**, Baltimore, MD, United States, August 2018
10. "Single-cell analysis of HIV-1-host interactions reveals HIV-1-driven aberrant host gene transcription", **Kumamoto University**, Kumamoto, Japan, January 2019
11. "Shaping the HIV-1 proviral and viral landscape", **The Japanese Society for AIDS Research**, Kumamoto, Kumamoto, Japan, January 2019
12. "The power of HIV promoter: HIV-1 driven viral and host gene transcription", **Conferences on Retroviruses and Opportunistic infections** (CROI), Seattle, WA, United States, March 2019 (Symposium)
13. "Role of clonal expansion in HIV persistence", BEAT HIV Delaney Collaboratory Annual Meeting, BEAT-HIV Delaney Collaboratory Annual Meeting, Philadelphia, PA, United States, June 2019
14. "Turning off HIV-driven aberrant transcription", **10th International AIDS Society (IAS) Annual Meeting** 2019, Mexico City, Mexico
15. "Single-Cell HIV SortSeq Identifies HIV-host interactions and Therapeutic Targets", **National institutes of Health and Bill & Melinda Gates Foundation Joint Workshop**, Bethesda, MD, United States, July 2019
16. "The critical help: the single-cell landscape of T cell responses in COVID-19", **The Scientist Webinars**: First Responders: SARS-CoV-2 and the Immune System, The Scientist, The Scientist Webinars: First Responders: SARS-CoV-2 and the Immune System, November 2020

<u>As an Associate Professor at Yale</u>

17. "Why do we need a cure: single-cell multi-omic understanding of HIV persistence and immune dysfunction", **Memorial Sloan Kettering Cancer Center/Weill Cornell Medicine**, Weekly ID Advanced Topics Lecture Series, January 2021
18. "Single-cell transcriptional landscapes reveal HIV-1–driven aberrant host gene transcription", **HIV Structural Biology Virtual Meeting**, NIH, June 2021
19. "The clonal expansion dynamics of the HIV-1 reservoir: understanding integration site-dependent proliferation and HIV-1 persistence at the single-cell level", **Seminar series in the Research Department of Infection and Immunity at University College London,** September 2021
20. "HIV-1-driven aberrant cancer gene expression as a mechanism of persistence - a single cell approach", **Nebraska Center for Virology (NCV) Symposium**, University of Nebraska, Lincoln, NE, United States, October 2021
21. "Integration site dependent proliferation of CAR-T cells", **American Foundation for AIDS Research Think Tank**, Washington, DC, United States, January 2022

22. "The clonal expansion dynamics of HIV-1-infected cells revealed by single-cell multiomics", **Emory University Center for AIDS Research (CFAR)** Network Science Seminar, January 2022
23. "The clonal expansion dynamics of HIV-1-infected cells revealed by single-cell multiomics**", BEAT-HIV Martin Delaney Collaboratory**, Webinar, January 2022
24. "The clonal expansion dynamics of HIV-1-infected cells revealed by single-cell multiomics", **HOPE Martin Delaney Collaboratory,** Webinar, January 2022
25. "Mechanisms of HIV persistence - a single-cell multi-omics approach", Penn Center for AIDS Research (CFAR) Seminar Series, **University of Pennsylvania**, April 2022
26. "The clonal expansion dynamics of HIV-1-infected cells revealed by single-cell multiomics", **Center for Global infectious Disease, Seattle Children's Research institute, Seattle**, WA, United States, April 2022
27. "Single-Cell Analyses of HIV Reservoirs and implications of new findings and concepts revealed by these novel methods on HIV Cure Research and Strategies", **Symposium on Cure strategies session, AIDS Clinical Trial Group (ACTG) Annual Meeting**, June 2022
28. "RNA sequencing and its applications (and single cell RNA seq)", **International AIDS Vaccine initiative (IAVI), international AIDS Vaccine initiative (IAVI)**, June 2022
29. "Keynote: Understanding HIV latent reservoir - a single-cell multi-omics approach", Joint Australasian HIV&AIDS and Sexual Health Conferences, **The Australasian Society for HIV, Viral Hepatitis and Sexual Health Medicine (ASHM)**, August 2022 (**Keynote**)
30. "Current HIV/SIV Reservoir Assays for Preclinical and Clinical Applications – Recommendations from the Experts", NIH/NIAID, September 2022 (Panelist)
31. "Single-cell multi-omics understanding of HIV-induced immune dysfunction", **HIV Cure and Reservoir Symposium, Ghent, Belgium,** September 2022
32. "Understanding HIV-1 persistence using single-cell multi-omics and CRISPR screen", **Innate Sensing and Restriction of Retroviruses, SPP1923 international Meeting, Heidelberg, Germany**, September 2022
33. "Single-cell multi-omics identifies HIV persistence in cytotoxic CD4+ T cells", ANRS (the French National Agency for Research on AIDS)| MIE (Maladies infectieuses émergentes) **AC41 Annual international Symposium on HIV Reservoirs at Institut Pasteur, Paris,** France, November 2022
34. "Single-cell multi-omic understanding of HIV reservoir expansion dynamics", **Miami Center for AIDS Research (CFAR) Annual Meeting,** Miami, FL, United States, February 2023
35. "Single-cell multiomics and expansion dynamics of HIV reservoir over space and time**", Conferences on Retroviruses and Opportunistic infections**, Seattle, WA, United States, February 2023 (Frontiers in Laboratory Science – New Investigator Workshop)
36. "New Frontiers in HIV Research", **Palm Springs Symposium on HIV/AIDS**, Palm Springs, CA, United States, March 2023
37. "Plenary: New approaches to measuring the reservoir**", International AIDS Society (IAS) Annual Meeting**, Brisbane, Australia, July 2023 (**Plenary**)
38. (Invitation confirmed) Einstein-Rockefeller-CUNY Center for AIDS Research (CFAR) **NYC-wide research symposium: Pathways to an HIV Cure**, New York, September 2023
39. (Invitation confirmed) "Single-cell multiomic understanding of HIV reservoir and T cell clonal expansion dynamics", **Nordic HIV & Virology Conference, Stockholm, Sweden**, September 2023 (**Plenary**)

40. (Invitation confirmed) **Fall Meeting, International Graduate School in Molecular Medicine, Ulm University,** Ulm, Germany, November 2023
41. (Invitation confirmed) **Infectious Disease and Human Health Seminar Series** by the Gladstone Institute of Virology (GIV), the Quantitative Biosciences Institute (QBI), and the Host-Pathogen Map Initiative (HPMI), University of California, San Francisco, December 2023

Regional

As an Assistant Professor at Yale

1. "Single-cell transcriptional landscape of CD4+ T cells reveals aberrant HIV-1-host interactions", Single-cell transcriptional landscape of CD4+ T cells reveals aberrant HIV-1-host interactions, **The Center for Virology and Vaccine Research (CVVR) at Beth Israel Deaconess Medical Center**, Boston, MA, United States, January 2019
2. "Single-Cell Transcriptional Landscape Reveals Aberrant HIV-1 Host interactions upon Latency Reversal", **Boston University National Emerging Infectious Diseases Laboratories Seminar Series**, Boston, MA, United States, January 2019

As an Associate Professor at Yale

3. "Keynote: Mechanisms of HIV persistence and therapeutic implications - a single-cell multi-omics approach", **Thomas A. and Joyce E. Pearson Endowed Lecture, Medical Scientist Research Symposium, University of Rochester**, Rochester, NY, United States, January 2022
4. "Single-Cell Multiomics Reveals Persistence of HIV-1 in Expanded Cytotoxic T cell Clones", NIH Martin Delaney Collaboratory REACH Annual Meeting, New York, NY, United States, May 2022
5. "Single-cell multiomics and expansion dynamics of HIV reservoir", Department of Microbiology and Immunology Seminar, **University of Iowa**, Iowa City, IA, United States, April 2023
6. "Single-cell multiomics and expansion dynamics of HIV reservoir", Department of Microbiology, Immunology, & Tropical Medicine Seminar, **George Washington University**, Washington, DC, United States, April 2023
7. (Invitation confirmed) 2023/2024 **Infectious Disease and Human Health Seminar Series, Gladstone Institute of Virology, San Francisco**, United States, December 2023

Peer-Reviewed Presentations & Symposia Given at Meetings not Affiliated with Yale:

International/National

1. "HIV-1 proviruses which are integrated into cancer-related genes are inducible", HIV Persistence During Therapy Workshop, HIV Persistence During Therapy Workshop, Miami, FL, United States, December 2017 (Other)
2. "Identification of integration sites of inducible HIV-1 using HIV-1 RNA SortSeq", Conference on Retroviruses and Opportunistic infections (CROI), international Antiviral Society-USA, Boston, MA, United States, March 2018 (Other)
3. "Filgotinib, a Janus Kinase inhibitor, Suppresses HIV-1 Expression and T Cell Activation", Keystone Symposia: Functional Cures and the Eradication of HIV (X8), Keystone Symposia: Functional Cures and the Eradication of HIV (X8), Whistler, BC, Canada, March 2019 (Other)
4. "Filgotinib, a Janus Kinase inhibitor, Suppresses HIV-1 Expression and T Cell Activation", Keystone Symposia, Functional Cures and the Eradication of HIV (X8), Keystone Symposia Functional Cures and the Eradication of HIV (X8), Whistler, BC, Canada, March 2019 (Oral Presentation)

5. "Sigle-cell multi-omics understanding of T cell clones harboring HIV-1 RNA+ cells", Cold Spring Harbor Meetings on Retroviruses, Cold Spring Harbor Meetings on Retroviruses, Cold Spring Harbor Meetings on Retroviruses, May 2021 (Oral Presentation)
6. "Single-cell multiomics reveals HIV-1 persistence in expanded cytotoxic T cell clones", Single-cell multiomics reveals HIV-1 persistence in expanded cytotoxic T cell clones, Conferences on Retroviruses and Opportunistic infections (CROI), January 2022 (Oral Presentation)
7. “The single-cell epigenetic, transcriptional, and protein expression landscape of latent and transcriptionally active HIV-1-infected cells”, Cold Spring Harbor Laboratory Meetings on Retroviruses, May 2023 (Oral Presentation)

Professional Service:

Peer Review Groups/Grant Study Sections

2016 - Present Reviewer, NIH Study Section
2016/8/2 ZAI1 FDS-M (S1): Opportunities for collaborative research at the NIH Clinical Centers (U01)
2018/7/19 AIDS Immunology and Pathogenesis (AIP)
2018/11/9 ZRG1 AARR-P (11) and -P (92): HIV Small Business and point-of-care applications
2019/3/22 ZRG1 AARR- P(11) and -P(92) SEP VAM: HIV Small Business and point-of-care applications
2020/4/21 ZAI1 IS-A (C2): High-Throughput Assay Platform for Quantifying Latent HIV Reservoirs
2020/3/5 ZRG1 AARR-P (11) B: Small Business: HIV/AIDS innovative Research Applications
2020/6/26 ZRG1 AARR-P (11): Small Business: HIV/AIDS innovative Research Applications
2020/6/26 ZRG1 AARR-M (07): Small Business: HIV/AIDS innovative Research Applications
2021/2/5 Point-of-Care HIV Viral Load, Drug Resistance, and Adherence Assays
2021/6/22-6/23 ZRG1 AIDC-C (12): Small Business: Anti-Viral Therapeutics
2022/3/22-3/23 ZRG1 0F7C-S (20)L: Fellowships: infectious diseases and immunology (F30/F31)
2022/7/13-7/14 ZRG1 F07C-M (20): Fellowships: infectious diseases and immunology (F30/F31)
2022/7/26 ZRG1 IDIB-E (90): HIV and AIDS related conditions
2022/11/22 ZADA1 SXC-G (J1): Single cell opioid response in the context of HIV program expansion
2023/2/15-2/16 ZAI1 DNV-A(M1) 1: A Multi-omics Approach to Immune Responses in HIV Vaccination and intervention (P01)
2023/6/12 ZDA1 SXC-N (O2)

2016 Reviewer, DC CFAR Faculty Developmental Grant Study Section
2017 Reviewer, Czech Science Foundation Study section
2018 Reviewer, Millennium Science initiative Study section
2018 - Present Reviewer, American Foundation for AIDS Research (amfAR)
2019 Committee Member, PhD Program in Virology, Harvard Medical School, PhD Thesis Defense Committee Member for Radwa Sharaf, Po-Ting Liu, Phillip Tomezsko
2019 - Present Reviewer, Conferences on Retroviruses and Opportunistic infections (CROI)
2021 Reviewer, The Netherlands Organisation for Scientific Research (NWO/ZonMw), Vici programme
2021 - Present Committee Member, HIV Persistence During Therapy Workshop
2023 Center for Medicinal Cannabis Research Grant, University of California San Diego
2023 - Program Committee, Conferences on Retroviruses and Opportunistic Infections (CROI)

Advisory Boards

2020 - Present Board Member, Cell Reports Medicine, Cell Press
2020 - Present Board Member, Journal of infectious Diseases, The infectious Diseases Society of America
2022 **Expert, NIH NIAID DAIDS customized cure subject matter experts (SME) consultation** for RFA-AI-22-038 P01 “A Multi-omics Approach to Immune Responses in HIV Vaccination and intervention, NIH/NIAID

Journal Services

Editorial boards

2015 Editor, Guest Editor, Journal of Virus Eradication, Guest Editor, Journal of Virus Eradication

Reviewer

2018 - present Reviewer, *Cell, Nature Medicine, Nature Immunology, Immunity, Molecular Cell, Science Translational Medicine, Cell Host Microbe, Journal of Clinical investigation, Annals of Internal Medicine, PNAS, Nature Communications, Cell Reports, Nature Structure al and Molecular Biology, Cell Reports Medicine, Cell Reports Methods, eLife, Scientific Report, mBio, PLoS Pathogens, Retrovirology, Journal of Virology, Journal of infectious Diseases, Journal of Biological Chemistry, EMBO Journal, EMBO Molecular Medicine, ACS infectious Diseases, Journal of AIDS, Trends in Molecular Medicine, Journal of Infection, Nucleic Acids Research*

Professional Organizations

American Society for Microbiology

2011 - 2017 American Society for Microbiology, Member

Johns Hopkins University School of Medicine

2014 - 2015 Johns Hopkins University School of Medicine, Research Associate
2015 - 2017 Faculty Member, Johns Hopkins University School of Medicine, instructor in Medicine
2017 Faculty Member, Johns Hopkins University School of Medicine, Assistant Professor of Medicine

Yale University / Hospital System

Medical School

2019 - Present Representative, Yale University medical student curriculum, Faculty representative, medical student curriculum
2020 - Present Representative, Yale University Faculty Advisory Council, Faculty Council, representative for Department of Microbial Pathogenesis
2021 - Present Ad-hoc reviewer, Yale University Microbiology, immunobiology, and MD/PhD program admissions committee, Admission Committee, MD/PhD Program

Department

2018 - Present Committee Member, Harvard University, Thesis defense committee member, PhD Dissertation Committee Member for Harvard Virology PhD Program: Radwa Sharaf, Po-Ting Liu, Phillip Tomezko
2019 - Present Committee Member, Yale University, PhD thesis committee, PhD thesis committee for Elizabeth Nand, Microbiology Track, Yale BBS PhD program
2020 - Present Committee Member, Mount Sinai School of Medicine PhD thesis defense committee, Thesis defense committee for MD/PhD candidate Amara Plaza-Jennings
2021 - Present Committee Member, University of Massachusetts PhD defense committee, Thesis defense committee member for UMass MD/PhD student Noah Silverstein
2021 - Present Committee Member, Yale University Department of Microbial Pathogenesis Retreat committee, Seminar Committee, Safety Committee, Faculty Advisory Council

Bibliography:

Peer-Reviewed Original Research

Trainee stage as medical student, internal medicine resident, and infectious diseases fellow

1. Fan J, Shao C, **Ho Y**, Yu C, Hor L. Isolation and Characterization of a *Vibrio vulnificus* Mutant Deficient in Both Extracellular Metalloprotease and Cytolysin. ***Infection and Immunity*** 2001, 69: 5943-5948. PMID: 11500479, PMCID: PMC98719, DOI: 10.1128/iai.69.9.5943-5948.2001.

2. Chuang YM, Tseng SP, Teng LJ, **Ho YC**, Hsueh PR. Emergence of cefotaxime resistance in *Citrobacter freundii* causing necrotizing fasciitis and osteomyelitis. ***Journal of infection*** 2006, 53: e161-e163. PMID: 16375973, DOI: 10.1016/j.jinf.2005.11.002.

3. **Ho YC**, Shih TT, Lin YH, Hsiao CF, Chen MY, Hsieh SM, Sheng WH, Sun HY, Hung CC, Chang SC. Osteonecrosis in patients with human immunodeficiency virus type 1 infection in Taiwan. ***Japanese Journal of Infectious Diseases*** 2007, 60: 382-6. PMID: 18032839.

4. Chuang Y, **Ho Y**, Chang H, Yu C, Yang P, Hsueh P. Disseminated cryptococcosis in HIV-uninfected patients. ***European Journal of Clinical Microbiology & infectious Diseases*** 2007, 27: 307-310. PMID: 18157678, DOI: 10.1007/s10096-007-0430-1.

5. **Ho YC**, Sun HY, Chen MY, Hsieh SM, Sheng WH, Chang SC. Clinical presentation and outcome of toxoplasmic encephalitis in patients with human immunodeficiency virus type 1 infection. ***Journal of Microbiology Immunology and Infection*** 2008, 41: 386-92. PMID: 19122919.

6. Sun HY, Kung HC, **Ho YC**, Chien YF, Chen MY, Sheng WH, Hsieh SM, Wu CH, Liu WC, Hung CC, Chang SC. Seroprevalence of hepatitis A virus infection in persons with HIV infection in Taiwan: implications for hepatitis A vaccination. ***International Journal of infectious Diseases*** 2009, 13: e199-e205. PMID: 19208490, DOI: 10.1016/j.ijid.2008.12.009.

7. **Ho YC**, Chang SC, Lin SR, Wang WK. High Levels of mecA DNA Detected by a Quantitative Real-Time PCR Assay Are Associated with Mortality in Patients with Methicillin-Resistant Staphylococcus aureus Bacteremia. ***Journal of Clinical Microbiology*** 2009, 47: 1443-1451. PMID: 19279177, PMCID: PMC2681853, DOI: 10.1128/jcm.01197-08.

8. **Ho YC**, Wang JL, Wang JT, Wu UI, Chang CW, Wu HS, Chen CH, Chuang YM, Chang SC. Prognostic factors for fatal adult influenza pneumonia. **Journal of Infection** 2009, 58: 439-445. PMID: 19386366, DOI: 10.1016/j.jinf.2009.03.007.

9. **Ho Y**, Chang S, Lin S, Wang W. High Levels of mecA DNA Detected by a Quantitative Real-Time PCR Assay Are Associated with Mortality in Patients with Methicillin-Resistant Staphylococcus aureus Bacteremia. **Journal of Clinical Microbiology** 2009, 47: 2361-2361. PMCID: PMC2708482, DOI: 10.1128/jcm.00884-09.

10. Chuang Y, Ku SC, Liaw SJ, Wu SC, **Ho YC**, Yu CJ, Hsueh PR. Disseminated Cryptococcus neoformans var. grubii infections in intensive care units. **Epidemiology and Infection** 2009, 138: 1036-1043. PMID: 19796452, DOI: 10.1017/s0950268809990926.

11. Wu UI, Wang JT, **Ho YC**, Pan SC, Chen YC, Chang SC. Factors associated with development of complications among adults with influenza: A 3-year prospective analysis. **Journal of The Formosan Medical Association** 2012, 111: 364-369. PMID: 22817813, DOI: 10.1016/j.jfma.2011.04.005.

During PhD

12. Thayil SM, **Ho YC**, Bollinger RC, Blankson JN, Siliciano RF, Karakousis PC, Page KR. Mycobacterium tuberculosis Complex Enhances Susceptibility of CD4 T Cells to HIV through a TLR2-Mediated Pathway **PLoS One** 2012, 7: e41093. PMID: 22844428, PMCID: PMC3402510, DOI: 10.1371/journal.pone.0041093.

13. Yukl SA, Boritz E, Busch M, Bentsen C, Chun TW, Douek D, Eisele E, Haase A, **Ho YC**, Hütter G, Justement JS, Keating S, Lee TH, Li P, Murray D, Palmer S, Pilcher C, Pillai S, Price RW, Rothenberger M, Schacker T, Siliciano J, Siliciano R, Sinclair E, Strain M, Wong J, Richman D, Deeks SG. Challenges in Detecting HIV Persistence during Potentially Curative interventions: A Study of the Berlin Patient. **PLoS Pathogens** 2013, 9: e1003347. PMID: 23671416, PMCID: PMC3649997, DOI: 10.1371/journal.ppat.1003347.

14. **Ho YC**, Shan L, Hosmane NN, Wang J, Laskey SB, Rosenbloom DI, Lai J, Blankson JN, Siliciano JD, Siliciano RF. Replication-Competent Noninduced Proviruses in the Latent Reservoir increase Barrier to HIV-1 Cure. ***Cell*** 2013, 155: 540-551. PMID: 24243014, PMCID: PMC3896327, DOI: 10.1016/j.cell.2013.09.020.
***Selected as Nature Milestones**

15. Chiu YL, Shan L, Huang H, Haupt C, Bessell C, Canaday DH, Zhang H, **Ho YC**, Powell JD, Oelke M, Margolick JB, Blankson JN, Griffin DE, Schneck JP. Sprouty-2 regulates HIV-specific T cell polyfunctionality. ***Journal of Clinical Investigation*** 2013, 124: 198-208. PMID: 24292711, PMCID: PMC3871241, DOI: 10.1172/jci70510.

<u>During postdoc</u>

16. Bruner KM, Murray AJ, Pollack RA, Soliman MG, Laskey SB, Capoferri AA, Lai J, Strain MC, Lada SM, Hoh R, **Ho YC**, Richman DD, Deeks SG, Siliciano JD, Siliciano RF. Defective proviruses rapidly accumulate during acute HIV-1 infection. ***Nature Medicine*** 2016, 22: 1043-1049. PMID: 27500724, PMCID: PMC5014606, DOI: 10.1038/nm.4156.

17. Rainwater-Lovett K, Ziemniak C, Watson D, Luzuriaga K, Siberry G, Petru A, Chen Y, Uprety P, McManus M, **Ho YC**, Lamers SL, Persaud D. Paucity of intact Non-induced Provirus with Early, Long-Term Antiretroviral Therapy of Perinatal HIV infection ***PLoS One*** 2017, 12: e0170548. PMID: 28178277, PMCID: PMC5298215, DOI: 10.1371/journal.pone.0170548.

18. Hosmane NN, Kwon KJ, Bruner KM, Capoferri AA, Beg S, Rosenbloom DI, Keele BF, **Ho YC**, Siliciano JD, Siliciano RF. Proliferation of latently infected CD4+ T cells carrying replication-competent HIV-1: Potential role in latent reservoir dynamics. ***Journal of Experimental Medicine*** 2017, 214: 959-972. PMID: 28341641, PMCID: PMC5379987, DOI: 10.1084/jem.20170193.

19. Pollack RA, Jones RB, Pertea M, Bruner KM, Martin AR, Thomas AS, Capoferri AA, Beg SA, Huang SH, Karandish S, Hao H, Halper-Stromberg E, Yong PC, Kovacs C, Benko E, Siliciano RF, **Ho YC**. Defective HIV-1 Proviruses Are Expressed and Can Be Recognized by Cytotoxic T Lymphocytes, which Shape the Proviral Landscape. ***Cell Host & Microbe*** 2017, 21: 494-506.e4. PMID: 28407485, PMCID: PMC5433942, DOI: 10.1016/j.chom.2017.03.008.
***Best Paper of the year, selected by Cell Host Microbe Editors**
***Corresponding author**

20. Huang SH, Ren Y, Thomas AS, Chan D, Mueller S, Ward AR, Patel S, Bollard CM, Cruz CR, Karandish S, Truong R, Macedo AB, Bosque A, Kovacs C, Benko E, Piechocka-Trocha A, Wong H, Jeng E, Nixon DF, **Ho YC**, Siliciano RF, Walker BD, Jones RB. Latent HIV reservoirs exhibit inherent resistance to elimination by CD8+ T cells. ***Journal of Clinical investigation*** 2018, 128: 876-889. PMID: 29355843, PMCID: PMC5785246, DOI: 10.1172/jci97555.

21. Wang Z, Gurule EE, Brennan TP, Gerold JM, Kwon KJ, Hosmane NN, Kumar MR, Beg SA, Capoferri AA, Ray SC, **Ho YC**, Hill AL, Siliciano JD, Siliciano RF. Expanded cellular clones carrying replication-competent HIV-1 persist, wax, and wane. ***Proceedings of The National Academy of Sciences of The United States of America*** 2018, 115: e2575-e2584. PMID: 29483265, PMCID: PMC5856552, DOI: 10.1073/pnas.1720665115.

22. Taura M, Song E, **Ho YC**, Iwasaki A. Apobec3A maintains HIV-1 latency through recruitment of epigenetic silencing machinery to the long terminal repeat. ***Proceedings of The National Academy of Sciences of The United States of America*** 2019, 116: 2282-2289. PMID: 30670656, PMCID: PMC6369738, DOI: 10.1073/pnas.1819386116.

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