

CURRICULUM VITAE

Jon J. Kibbie

EDUCATION

- 2022-2025 University of Colorado Dermatology Residency Program.
Chief Resident 2024-2025
- 2021-2022 Sky Ridge Lone Tree Health One Transitional Year Residency Program
- 2013 - 2021 University of Colorado Denver MD/PhD candidate
Department: Immunology
PhD Advisor: Cara Wilson, MD
Defense Date: April 4th 2019
MD completion: May 2021
- 2010 - 2013 University of California Los Angeles, M.S.
Major: Microbiology, Immunology and Molecular Genetics
Thesis Advisor: Robert Modlin MD
- 2004 - 2008 Loyola Marymount University, B.S.
Major: Biology
Minor: Biochemistry, Classical Civilizations

HONORS AND AWARDS

- 2024 **American Contact Dermatitis Society (ACDS) Annual Mentorship Award (2024).** Faculty Mentor: Dr. JiaDe Yu
- 2023 **2023 SID Future Leaders Virtual Retreat**
- 2018 **HIV Mucosal Systems Meeting Young Investigator Travel Award.**
Awarded for poster entitled: “Low dose butyrate upregulates CCR5 expression and enhances HIV-1 infection of activated gut CD4 T cells in vitro.”
- 2017 **Colorado Clinical and Translational Sciences (CCTSI) TL1 fellowship awardee (2017-2018).**
- 2016 **Society for Mucosal Immunology Course and Symposium Young Investigator Travel Award.**
Awarded for talk entitled: “Butyrate Inhibits Pathobiont-Driven Gut CD4 T Cell Activation and HIV-1 Replication.”

- 2015 **Conference on Retroviruses and Opportunistic Infections (CROI) Young Investigator Travel Award.**
Awarded for poster entitled: "Butyrate Reduces Pathobiont-associated HIV-1 Infection and Activation of Gut T cells."
- 2011 **UCLA Department of Medicine Poster Day competition winner**
Awarded for the poster entitled: "Polarization of the endothelium governs monocyte differentiation and function."
- 2007 **West Coast Biological Science Conference for Undergraduate Research poster competition winner**
Awarded for the poster entitled: "Thermal Death Point of *Baylisascaris procyonis* Eggs."

PROFESSIONAL AFFILIATIONS AND SERVICES

Professional Organization Member

Golden Key Honor Society (2013)
Sigma Xi undergraduate member (2008)

Committee Member

Student Life Steering Committee MSTP representative (2018-2020)
MSTP Student Council Member (2018-2019)

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Kibbie, Jon J., Sophia M. Zita, Robert P. Dellavalle, Cory A. Dunnick, and Cheryl A. Armstrong. "The number needed to biopsy for cutaneous melanoma in academic dermatology clinics." *Melanoma Research* (2024): 10-1097.

Kibbie, Jon, Kelsey Kines, David Norris, and Cory A. Dunnick. "Oral tofacitinib for the treatment of alopecia areata in pediatric patients." *Pediatric Dermatology* 39, no. 1 (2022): 31-34.

Kibbie, Jon J., Stephanie M. Dillon, Tezha A. Thompson, Christine M. Purba, Martin D. McCarter, and Cara C. Wilson. "Butyrate directly decreases human gut lamina propria CD4 T cell function through histone deacetylase (HDAC) inhibition and GPR43 signaling." *Immunobiology* 226, no. 5 (2021): 152126.

Kejun Guo. M., Guannan Shen, **Jon Kibbie**, Tania Gonzalez., Stephanie M. Dillon, ... Cara C Wilson, Mario L. Santiago. (2020). Qualitative Differences Between the IFN α subtypes and IFN β Influence Chronic Mucosal HIV Pathogenesis. PLOS Pathogens.

Dillon, S. M., Liu, J., Purba, C. M., Christians, A. J., **Kibbie, J. J.**, Castleman, M. J., ... & Wilson, C. C. (2020). Age-related alterations in human gut CD4 T cell phenotype, T helper cell

frequencies, and functional responses to enteric bacteria. *Journal of Leukocyte Biology*, 107(1), 119-132.

Castleman, M. J., Dillon, S. M., Purba, C. M., Cogswell, A. C., **Kibbie, J. J.**, McCarter, M. D., ... & Wilson, C. C. (2019). Commensal and Pathogenic Bacteria Indirectly Induce IL-22 but Not IFN γ Production from Human Colonic ILC3s via Multiple Mechanisms. *Frontiers in immunology*, 10, 649.

Dillon, S. M.¹, **Kibbie, J.**¹, Lee, E. J., Guo, K., Santiago, M. L., Austin, G. L., ... & Wilson CC. (2017). Low abundance of colonic butyrate-producing bacteria in HIV infection is associated with microbial translocation and immune activation. *Aids*, 31(4), 511-521. (¹ **Co-first authors**)

Kibbie, J., Teles, R. M., Wang, Z., Hong, P., Montoya, D., Krutzik, S., & Cruz, D. (2016). Jagged1 Instructs Macrophage Differentiation in Leprosy. *PLOS Pathogens*, 12(8), e1005808.

Cruz D, Wang Z, **Kibbie J**, Modlin R, Kwon O. Diversity through phosphine catalysis identifies octahydro-1,6-naphthyridin-4-ones as activators of endothelium-driven immunity. *Proc Natl Acad Sci U S A*. 2011 Apr 26;108(17):6769-74.

CONFERENCE PRESENTATIONS

TALKS

Kibbie J. Evaluation of Ichthyosis in an Adult Patient. Colorado Dermatology Society Annual Meeting. September 2023.

Kibbie J; et al. The number needed to biopsy for cutaneous melanoma in residency clinics during the COVID-19 era. American Academy of Dermatology Annual Meeting. March 2023.

Kibbie J; et al. Oral tofacitinib for the treatment of alopecia areata in pediatric patients. Society of Pediatric Dermatology Virtual Journal Club. November 2022.

Kibbie J; et al. Oral tofacitinib for the treatment of alopecia areata in pediatric patients. HCA Denver Resident Research Symposium. April 2022.

Kibbie J; et al.. Low dose butyrate upregulates CCR5 expression and enhances HIV-1 infection of activated gut CD4 T cells *in vitro*. HIV Mucosal Systems Meeting, Santa Rosa, CA, April 2018.

Kibbie J; et al. The microbial-derived short chain fatty acid butyrate directly and differentially inhibits gut T helper cell subset activation and proliferation. 3rd Annual HIV-1 Microbiome Workshop, NIAID, October 2017.

Kibbie, J. The Short Chain Fatty Acid Butyrate Inhibits Pathobiont-Driven Gut CD4 T cell Activation and HIV-1 Replication. Mucosal Immunology Course and Symposium. Toronto, July 2016.

Kibbie, J., Wang, Z., Kwon, O., Modlin, R. L., & Cruz, D. (2011). Biochemical Parallelism to Decipher How the Endothelium Governs Monocyte Differentiation. AHA 2011 Conference, Circulation, 124(21 Supplement), A17012. (**Presented by Dr. Cruz**)

Kibbie J¹, Go W¹, Dominguez A and Lum M. WCBSCUR 2008, Characterization of *Bacillus* and *Rhizobium* Species isolated from clover nodules collected on the LMU campus. Point Loma, Ca. April 2008 (**¹JK and WG are co-first authors**)

POSTERS

Kibbie J; et al. The number needed to biopsy for cutaneous melanoma in residency clinics during the COVID-19 era. Society of Investigative Dermatology Annual Meeting. May 2024.

Kibbie J; et al. The microbial-derived short chain fatty acid butyrate directly and differentially inhibits gut T helper cell subset activation and proliferation. Association for Clinical and Translational Science Conference, Washington DC, April 2018.

Kibbie J; et al. The microbial-derived short chain fatty acid butyrate directly and differentially inhibits gut T helper cell subset activation and proliferation. 3rd Annual HIV-1 Microbiome Workshop, NIAID, October 2017.

Moriah J. Castleman, Stephanie M. Dillon, **Jon Kibbie**, Jay Liu, Andrew C. Cogswell, Martin McCarter, Edward Barker, and Cara C. Wilson. Differential responses of human colonic ILCs to gut commensal bacteria altered during HIV infection. 3rd Annual HIV-1 Microbiome Workshop, NIAID, October 2017.

Moriah J. Castleman, Stephanie M. Dillon, **Jon Kibbie**, Jay Liu, Andrew C. Cogswell, Martin McCarter, Edward Barker, and Cara C. Wilson. Differential responses of human colonic ILCs to gut commensal bacteria altered during HIV infection. Colorado Immunology Conference, August 2017.

Kibbie J; et al. Butyrate Reduces Pathobiont-Associated HIV-1 Infection and Activation of Gut T Cells. National MD/PhD conference. Keystone, CO, July 2017.

Kibbie J; et al. The Short Chain Fatty Acid Butyrate Inhibits Pathobiont-Driven Gut CD4 T cell Activation and HIV-1 Replication. Colorado Immunology Conference Vail, CO, August 2016.

Kibbie J; et al. The Short Chain Fatty Acid Butyrate Inhibits Pathobiont-Driven Gut CD4 T cell Activation and HIV-1 Replication. Mucosal Immunology Course and Symposium. Toronto, July 2016.

Kibbie J; et al. Butyrate Reduces Pathobiont-Associated HIV-1 Infection and Activation of Gut T Cells. National MD/PhD conference. Keystone, CO, July 2015.

Kibbie J; et al. Butyrate Reduces Pathobiont-Associated HIV-1 Infection and Activation of Gut T Cells. CROI. Seattle, WA, February 2015.

Kibbie J; et al. Polarization of the endothelium governs monocyte differentiation and function. Annual UCLA Department of Medicine Poster Day. Los Angeles, CA, September 2011.

Kibbie J; et al. Identification of novel small molecule inducers of endothelial driven innate immunity. Annual Meeting, American Association of Immunologists. San Francisco, CA May 2011.

Kibbie J; et al. Polarization of the endothelium governs monocyte differentiation and function. Immunology La Research Symposium. Los Angeles, CA, March 2011.

Kibbie J; et al. Polarization of the endothelium governs monocyte differentiation and function. Annual UCLA Department of Medicine Poster Day. Los Angeles, CA, September 2010.

Kibbie J; et al. Polarization of the endothelium governs monocyte differentiation and function. Annual International Vascular Biology Meeting. Los Angeles, CA, June 2010.

Kibbie J, Ahern K, Danciger M. Dietary Fat and its effects on the onset and course of Retinal Degeneration in the rd3 Mouse Model. WCBSCUR Research Symposium. Point Loma, CA, April 2008.

Kibbie J, Sorvillo T and Shafir S.(2007) Determination of the parameters of viability of Baylisascaris procyoniss. WCBSCUR Research Symposium. Los Angeles, CA, April 2007.

Sorvillo T, **Kibbie J** and Shafir S.(2006) Determination of the parameters of viability of Baylisascaris procyoniss. SCCUR Research Symposium. Eaglerock, CA, November 2006.

TEACHING, VOLUNTEER AND CLINICAL RESEARCH EXPERIENCE

TUTORING AND TA POSITIONS

2020-2021	Physician as Educator Course University of Colorado Student Educator.
Spring 2017	Cardiovascular, Pulmonary and Renal Block Tutor. University of Colorado Denver.
2007-2008	Undergraduate Teaching Assistant: Microbiology Laboratory. LMU Department of Biology

VOLUNTEER POSITIONS

Fall 2017-Spring 2018	Denver Public Schools STEM mentor
Spring 2017/2018/2019	Denver Science Fair mentor / judge team captain
July 2021-present	DAWN clinic resident volunteer
Fall 2023	DIGA resident mentor

CLINICAL RESEARCH EXPERIENCE

QI Research Department of Dermatology Denver Health (2019-2020)

1. Compilation of post-skin biopsy images for the creation of a printed patient resource to help patients better understand how biopsies appear immediately after the procedure and over time.
2. Examination of the diagnoses and clinical outcomes of patient skin biopsies at the Denver Health Dermatology Clinic. (Published Kibbie et al. Melanoma Research 2024)
3. Updated the EPIC note template for the Denver Health Dermatology clinic to reduce input error and streamline the note-writing process.