

CURRICULUM VITAE

Alika Keolaokalani Maunakea, Ph.D.
 Professor
 University of Hawai‘i at Mānoa
 John A. Burns School of Medicine



Life Science Building, LSB 215
 Honolulu, Hawai‘i 96822
 Phone: (808) 956-9282
 E-mail: amaunake@hawaii.edu

PROFESSIONAL EXPERIENCE

EDUCATION:

- 2008 – 2012 Post-doctoral Researcher, NIH, National Heart, Lung and Blood Institute (NHLBI), Laboratory of Molecular Immunology, Bethesda, MD, Advisor: Dr. Keji Zhao
- 2002 – 2008 **Ph.D.**, Biomedical Sciences, Department of Neurological Surgery, University of California, San Francisco (UCSF), San Francisco, CA, Advisor: Dr. Joseph Costello
- 2001 – 2002 Post-baccalaureate Fellow, National Institutes of Health (NIH), National Cancer Institute (NCI), Genomics and Bioinformatics Group, & Foundation for Advanced Education in the Sciences (FAES), Bethesda, MD, Advisor: Dr. John Weinstein
- 1997 – 2001 **B.Sc.**, Biology (*Cum Laude*), Department of Microbiology and Immunology, Creighton University, Omaha, NE, Advisor: Dr. Nancy Hanson
- 1993 – 1997 Diploma (*Honors*), Kamehameha Secondary Schools, Honors Science Research, Honolulu, HI, Advisor: Dr. Lawrence Mordan

ACADEMIC POSITIONS:

- 2023 – present **Professor* (with tenure)**, Department of Anatomy, Biochemistry, and Physiology (ABP), University of Hawai‘i, Mānoa (UHM), John A. Burns School of Medicine (JABSOM), Honolulu, HI ***100% FTE: 75% Research, 15% Teaching/Mentoring, and 10% Service**
- 2018 – 2023 Associate Professor (with tenure), ABP, UHM, JABSOM)
- 2012 – 2018 Assistant Professor, Department of Native Hawaiian Health (DNHH), UHM, JABSOM
- 2012 – present Graduate Faculty, UHM:
 - Department of Molecular Biosciences and Bioengineering (MBBE)
 - Department of Public Health Studies (PHS)
 - Department of Developmental and Reproductive Biology (DRB)
 - Department of Cell and Molecular Biology (CMB)
 - Neuroscience Specialization Program
 - Kanaka Maoli Institute (KMI), Hawai‘inuiākea School of Hawaiian Knowledge
 - Cancer Biology Program (CBP), University of Hawaii, Cancer Center

ACADEMIC HONORS & AWARDS:

- 2024 Ka‘ōnohi Award for improving health/well-being of Native Hawaiians, Papa Ola Lōkahi
- 2024 Kalani Ali‘i Award, Royal Hawaiian Societies
- 2024 Achievement Rewards for College Scientists (ARCS) Scientist of the Year 2024 Award
- 2022 Chan Zuckerberg Initiative (CZI) Science Diversity Leadership Award, Honorable Mention Recipient (19 out of 406 applicants; 4.6%)
- 2019 University of Hawaii, Manoa, nominee for the Blavatnik National Awards in Life Sciences
- 2017 Keystone Symposia Early Career Investigator Travel Award, Diversity in Life Sciences Program, *Epigenetics & Human Disease: Progress from Mechanisms to Therapeutics*
- 2014 Keystone Symposia Early Career Investigator Travel Award, Diversity in Life Sciences Program, *Neuroepigenetics*
- 2014 – 2018 NHLBI-K01 Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research
- 2012 – 2014 Queen’s Medical Center Fellow, Honolulu, HI
- 2005 – 2008 National Research Service Award (NIH, F-31 fellowship)

2005 Gordon Research Conference, Carl Storm Underrepresented Minority awardee
 1998 – 2001 NIH, Undergraduate Scholarship Program fellowship awardee
 1997 International Science and Engineering Fair awardee in Medicine Category

RESEARCH (75% FTE)

ACADEMIC IMPACT (H-index=22*)

Citations	h-index	i10-index
5644	22	29

*Source: *Google Scholar*, as of Dec. 1, 2024
 (In 2025, h-index = 29 based on citations of recent publications)

MANUSCRIPTS IN TRANSITION (3):

- Juarez R, Kang Z, Okihiro M, Garcia B, Phankitnirundorn K, **Maunakea AK**. Social network interactions of SARS-CoV-2 infections. *Science* (in preparation)
- Rubas N, Melisandre T, Corley MJ, Belcaid M, Sultana R, Wells R, Ruby E, McFall-Ngai M, **Maunakea AK**. Symbiont-induced epigenetic changes in the host genome during the initiation of the squid-vibrio partnership. *PNAS* (in preparation)
- Juarez R, Wells R, Sultana R, Peres-David R, Han R., Phankitnirundorn K, **Maunakea AK**. Social network influences on eating behavior associates with gut microbiome composition and risk for type 2 diabetes. *Nature Human Behavior* (in preparation)

PEER-REVIEWED PUBLICATIONS (52):

- **Maunakea AK**, Phankitnirundorn K, Peres R, Dye C, Juarez R, Walsh C, Slavens C, Park SL, Wilkens LR, Le Marchand L. Socioeconomic Status, Lifestyle, and DNA Methylation Age Among Racially and Ethnically Diverse Adults: NIMHD Social Epigenomics Program. *JAMA Netw Open*. 2024 Jul 1;7(7):e2421889. doi: 10.1001/jamanetworkopen.2024.21889. PMID: 39073814; PMCID: PMC11287425.
- Vargas-Maya NI, **Maunakea AK**, Ramírez-Montiel FB, Sultana R, Peres R, Cervantes QXM, Nieto ALM, Rangel-Serrano Á, Martínez-Álvarez JA, Páramo-Pérez I, Anaya-Velázquez F, Padilla-Vaca F, Franco B. Avirulent UG10 Entamoeba histolytica mutant derived from HM-1:IMSS strain shows limited genome variability and aberrant 5-methyl cytosine genomic distribution. *Mol Biochem Parasitol*. 2024 Jul 11:111647. doi: 10.1016/j.molbiopara.2024.111647. Epub ahead of print. PMID: 39002760.
- Umeda L, Torres A, Kunihiro BP, Rubas NC, Wells RK, Phankitnirundorn K, Peres R, Juarez R, **Maunakea AK**. Immuno-Microbial Signature of Vaccine-Induced Immunity against SARS-CoV-2. *Vaccines* (Basel). 2024 Jun 7;12(6):637. doi: 10.3390/vaccines12060637. PMID: 38932366; PMCID: PMC11209251.
- Allan NP, Yamamoto BY, Kunihiro BP, Nunokawa CKL, Rubas NC, Wells RK, Umeda L, Phankitnirundorn K, Torres A, Peres R, et al. Ketogenic Diet Induced Shifts in the Gut Microbiome Associate with Changes to Inflammatory Cytokines and Brain-Related miRNAs in Children with Autism Spectrum Disorder. *Nutrients*. 2024; 16(10):1401. <https://doi.org/10.3390/nu16101401>
- Huang BZ, Binder AM, Quon B, Patel YM, Lum-Jones A, Tiirikainen M, Murphy SE, Loo L, **Maunakea AK**, Haiman CA, Wilkens LR, Koh WP, Cai Q, Aldrich MC, Siegmund KD, Hecht SS, Yuan JM, Blot WJ, Stram DO, Le Marchand L, Park SL. Epigenome-wide association study of total nicotine equivalents in multiethnic current smokers from three prospective cohorts. *Am J Hum Genet*. 2024 Mar 7;111(3):456-472. doi: 10.1016/j.ajhg.2024.01.012. Epub 2024 Feb 16. PMID: 38367619.
- Rubas NC, Peres R, Kunihiro BP, Allan NP, Phankitnirundorn K, Wells RK, McCracken TA, Lee RH, Umeda L, Conching A, Juarez R, **Maunakea AK**. HMGB1 mediates microbiome-immune axis dysregulation underlying reduced neutralization capacity in obesity-related post-acute sequelae of SARS-CoV-2. *Scientific Rep*. 2024 Jan 3;14(1):355. doi: 10.1038/s41598-023-50027-1. PMID: 38172612; PMCID: PMC10764757.
- Jernigan VBB, Demientieff LX, **Maunakea AK**. Food Sovereignty as a Path to Health Equity for Indigenous Communities: Introduction to the Focus Issue. *Health Promot Pract*. 2023 Nov;24(6):1066-1069. doi: 10.1177/15248399231190355. PMID: 37877636.

- **Maunakea AK**, Juarez R, Maunakea-Forth JK. The Maui Ola Study: A Unique Academic-Community Partnership With MA'O Organic Farms to Understand and Address Health Inequities Among Native Hawaiians and Other Pacific Islanders in Hawai'i. *Health Promot Pract*. 2023 Nov;24(6):1087-1090. doi: 10.1177/15248399231190356. PMID: 37877635.
- Becerra CY, Wells RK, Kunihiro BP, Lee RH, Umeda L, Allan NP, Rubas NC, McCracken TA, Nunokawa CKL, Lee MH, Pidlaon FGS, Phankitnirondorn K, Dye CK, Yamamoto BY, Peres R, Juarez R, **Maunakea AK**. Examining the immunoepigenetic-gut microbiome axis in the context of self-esteem among Native Hawaiians and other Pacific Islanders. *Front Genet*. 2023 Apr 19;14:1125217. doi: 10.3389/fgene.2023.1125217. PMID: 37152987; PMCID: PMC10154580.
- Panova N, Allan NP, Rubas NC, Lee RH, Kunihiro BP, Umeda L, Peres R, Juarez R, **Maunakea AK**. Sequencing the SARS-CoV-2 Genome from Stool Samples of Post-acute Cases Implicates a Novel Mutation Associated with Reduced Antibody Neutralization. *Eur J Biomed Res*. 2023;2(3):17-23. doi: 10.24018/ejbiomed.2023.2.3.66. Epub 2023 Jul 13. PMID: 37525697; PMCID: PMC10389300.
- Takahashi E, Allan N, Peres R, Ortug A, van der Kouwe AJW, Valli B, Ethier E, Levman J, Baumer N, Tsujimura K, Vargas-Maya NI, McCracken TA, Lee R, **Maunakea AK**. Integration of structural MRI and epigenetic analyses hint at linked cellular defects of the subventricular zone and insular cortex in autism: Findings from a case study. *Front Neurosci*. 2023 Feb 3;16:1023665. doi: 10.3389/fnins.2022.1023665. PMID: 36817099; PMCID: PMC9935943.
- Wells RK, Kunihiro BP, Phankitnirondorn K, Peres R, McCracken TA, Umeda L, Lee RH, Kim DY, Juarez R, **Maunakea AK**. Gut microbial indicators of metabolic health underlie age-related differences in obesity and diabetes risk among Native Hawaiians and Pacific Islanders. *Front Cell Infect Microbiol*. 2022 Dec 21;12:1035641. doi: 10.3389/fcimb.2022.1035641. PMID: 36619744; PMCID: PMC9812644.
- Baumer Y, Farmer N, **Maunakea AK**, Needham B, Powell-Wiley TM. Editorial: The biological impact of adversity on cardiovascular disease risk and obesity. *Frontiers in Cardiovascular Medicine*. 2022 9:1022724. doi: 10.3389/fcvm.2022.1022724
- Juarez R, Phankitnirondorn K, Ramirez A, Peres R; **Maunakea AK**, Okihiro M. Vaccine-Associated Shifts in SARS-CoV-2 Infectivity among the Native Hawaiian and Other Pacific Islander Population in Hawaii. *American Journal of Public Health*. 2022 Sep 15:e1-e4. doi: 10.2105/AJPH.2022.306973. Online ahead of print.PMID: 36108254
- Juarez R, Kang Z, Okihiro M, Garcia B, Phankitnirondorn K, **Maunakea AK**. Dynamics of trust and consumption of COVID-19 information implicate a novel mechanism for COVID-19 vaccine and booster uptake. *Vaccines*. 2022 Aug 31;10(9):1435. doi: 10.3390/vaccines10091435.PMID: 36146513
- Dye CK, Corley MJ, Ing C, Lum-Jones A, Li D, Mau MKLM, **Maunakea AK**. Shifts in the immunoepigenomic landscape of monocytes in response to a diabetes-specific social support intervention: a pilot study among Native Hawaiian adults with diabetes. *Clin Epigenetics*. 2022 Jul 18;14(1):91. doi: 10.1186/s13148-022-01307-6. PMID: 35851422; PMCID: PMC9295496.
- Juarez R, Phankitnirondorn K, Okihiro M, **Maunakea AK**. Opposing Role of Trust as a Modifier of COVID-19 Vaccine Uptake in an Indigenous Population. *Vaccines*. 2022 Jun 17;10(6):968. doi: 10.3390/vaccines10060968. PMID: 35746577; PMCID: PMC9229995.
- Juarez R, Siegal N, **Maunakea AK**. The Effects of COVID-19 Vaccine Mandates in Hawaii. *Vaccines*. 2022 May 13;10(5):773. doi: 10.3390/vaccines10050773. PMID: 35632529; PMCID: PMC9144874.
- Andrasik MP, **Maunakea AK**, Oseso L, Rodriguez-Diaz CE, Wallace S, Walters K, Yukawa M. Awakening: The Unveiling of Historically Unaddressed Social Inequities During the COVID-19 Pandemic in the United States. *Infect Dis Clin North Am*. 2022 Jun;36(2):295-308. doi: 10.1016/j.idc.2022.01.009. Epub 2022 Feb 1. PMID: 35636901; PMCID: PMC8806123.
- Miller CB, Benny P, Riel J, Boushey C, Perez R, Khadka V, Qin Y, **Maunakea AK**, Lee MJ. Adherence to

- Mediterranean diet impacts gastrointestinal microbial diversity throughout pregnancy. *BMC Pregnancy Childbirth*. 2021 Aug 16;21(1):558. doi: 10.1186/s12884-021-04033-8. PMID: 34399704; PMCID: PMC8369757.
- Shiohama T, Ortug A, Alatorre Warren JL, Valli B, Levman J, Faja SK, Tsujimura K, **Maunakea AK**, Takahashi E. Small nucleus accumbens and large cerebral ventricles in infants and toddlers prior to receiving diagnoses of autism spectrum disorder. *Cerebral Cortex*. Volume 32, Issue 6, 15 March 2022, Pages 1200–1211, <https://doi.org/10.1093/cercor/bhab283>.
 - Watanabe LM, Hashimoto AC, Torres DJ, Alfulajj N, Peres R, Sultana R, **Maunakea AK**, Berry MJ, Seale LA. Effect of statin treatment in obese selenium-supplemented mice lacking selenocysteine lyase. *Mol Cell Endocrinol*. (2021) Aug 1;533:111335. doi: 10.1016/j.mce.2021.111335. Epub 2021 May 27. PMID: 34052303; PMCID: PMC8263501.
 - Rubas N, and **Maunakea A**. Immunoepigenetic-Microbiome Axis: Implications for Health Disparities Research in Native Hawaiians and Pacific Islanders. *Hawai'i Journal of Health & Social Welfare* (2021) *Hawaii J Health Soc Welf*. (2021) Aug;80(8):195-198. PMID: 34355196.
 - Kunihiro B, Wells R, McCracken T, Kim DY, Peres R, Sultana R, **Maunakea A**, Supporting Native Hawaiian Health With Community-Based Social and Biomedical Research. *The FASEB Journal* (2021) 35:S1. <https://doi.org/10.1096/fasebj.2021.35.S1.05291>
 - Go R, Ross G, Corley M, Petrovich H, Masaki K, **Maunakea AK**, He Q, Tiirikainen M. Genome-wide epigenetic analyses in Japanese immigrant plantation workers with Parkinson's Disease and exposure to organochlorines reveal glial genes and pathways involved in neurotoxicity. *BMC Neuroscience* (2020) 21:31. <https://doi.org/10.1186/s12868-020-00582-4>
 - Leite-Ah Yo K, Avilez K, Hemscheidt T, Ko'omoa Lange D, **Maunakea AK**. E hō mai ka 'ike kūpuna no ke ola: links between traditional Native Hawaiian concepts of health and epigenetics. *Hulili*. 2020 vol. 11, no. 2.
 - Corley MJ, Vargas-Maya N, Pang APS, Lum-Jones A, Li D, Khadka V, Sultana R, Blanchard DC, **Maunakea AK**. Epigenetic Delay in the Neurodevelopmental Trajectory of DNA Methylation States in Autism Spectrum Disorders. *Front Genet*. 2019 Oct 1;10:907. doi: 10.3389/fgene.2019.00907. PMID: 31681403
 - Dye CK, Corley MJ, Li D, Khadka VS, Mitchell BI, Sultana R, Lum-Jones A, Shikuma CM, Ndhlovu LC, **Maunakea AK**. Comparative DNA methylomic analyses reveal potential origins of novel epigenetic biomarkers of insulin resistance in monocytes from virally suppressed HIV-infected adults. *Clin Epigenetics*. 2019 Jun 28;11(1):95. doi: 10.1186/s13148-019-0694-1. PMID: 31253200
 - Balaan C, Corley MJ, Eulalio T, Leite-Ahyo K, Pang APS, Fang R, Khadka VS, **Maunakea AK***, Ward MA*. Juvenile Shank3b deficient mice present with behavioral phenotype relevant to autism spectrum disorder. *Behav Brain Res*. 2019 Jan 1;356:137-147. doi: 10.1016/j.bbr.2018.08.005. Epub 2018 Aug 19. PMID:30134148, *co-senior authors.
 - Park SL, Patel YM, Loo LWM, Mullen DJ, Offringa IA, **Maunakea A**, Stram DO, Siegmund K, Murphy SE, Tiirikainen M, Le Marchand L. Association of internal smoking dose with blood DNA methylation in three racial/ethnic populations. *Clin Epigenetics*. 2018 Aug 23;10(1):110. doi: 10.1186/s13148-018-0543-7. PMID:30139389
 - Lee RWY, Corley MJ, Pang A, Arakaki G, Abbott L, Nishimoto M, Miyamoto R, Lee E, Yamamoto S, **Maunakea AK**, Lum-Jones A, Wong M. A modified ketogenic gluten-free diet with MCT improves behavior in children with autism spectrum disorder. *Physiol Behav*. 2018 May 1;188:205-211. doi: 10.1016/j.physbeh.2018.02.006. PMID:29421589
 - Koomoa D and **Maunakea AK**. Linking traditional native Hawaiian concepts of health with epigenetic research: implications toward developing future indigenous health scientists. In: Lee WK, Look, MA, editors. *Ho'i Hou Ka Maui Ola: Pathways to Native Hawaiian Health*. 5. Honolulu: Hawai'iunuiākea School of Hawaiian Knowledge and University of Hawai'i Press; 2017.

- Pang AP, Sugai C, **Maunakea AK**. High-throughput sequencing offers new insights into 5-hydroxymethylcytosine. *Biomol Concepts*. 2016;7(3):169-78. doi: 10.1515/bmc-2016-0011. PubMed PMID: 27356236; PubMed Central PMCID: PMCPMC5433849.
- Fong KS, Hufnagel RB, Khadka VS, Corley MJ, **Maunakea AK**, Fogelgren B, et al. A mutation in the tuft mouse disrupts TET1 activity and alters the expression of genes that are crucial for neural tube closure. *Dis Model Mech*. 2016;9(5):585-96. doi: 10.1242/dmm.024109. PubMed PMID: 26989192; PubMed Central PMCID: PMCPMC4892663.
- Corley MJ, Dye C, D'Antoni ML, Byron MM, Leite-Ah Yo K, Lum-Jones A, Nakamoto B, Valcour V, Bandar IS, Shikuma CM, Ndhlovu LC, **Maunakea AK**. Comparative DNA Methylation Profiling Reveals an Immunoepigenetic Signature of HIV-related Cognitive Impairment. *Sci Rep*. 2016;6:33310. doi: 10.1038/srep33310. PubMed PMID: 27629381; PubMed Central PMCID: PMCPMC5024304.
- Townsend CK, Dillard A, Hosoda KK, Maskarinec GG, **Maunakea AK**, Yoshimura SR, et al. Community-Based Participatory Research Integrates Behavioral and Biological Research to Achieve Health Equity for Native Hawaiians. *Int J Environ Res Public Health*. 2015;13(1):ijerph13010004. doi: 10.3390/ijerph13010004. PubMed PMID: 26703660; PubMed Central PMCID: PMCPMC4730395.
- Corley MJ, Zhang W, Zheng X, Lum-Jones A, **Maunakea AK**. Semiconductor-based sequencing of genome-wide DNA methylation states. *Epigenetics*. 2015;10(2):153-66. doi: 10.1080/15592294.2014.1003747. PubMed PMID: 25602802; PubMed Central PMCID: PMCPMC4622511.
- **Maunakea AK**, Chepelev I, Cui K, Zhao K. Intragenic DNA methylation modulates alternative splicing by recruiting MeCP2 to promote exon recognition. *Cell Res*. 2013;23(11):1256-69. doi: 10.1038/cr.2013.110. PubMed PMID: 23938295; PubMed Central PMCID: PMCPMC3817542.
- Kraushaar DC*, Jin W*, **Maunakea A**, Abraham B, Ha M, Zhao K. Genome-wide incorporation dynamics reveal distinct categories of turnover for the histone variant H3.3. *Genome Biol*. 2013;14(10):R121. doi: 10.1186/gb-2013-14-10-r121. PubMed PMID: 24176123; PubMed Central PMCID: PMCPMC3983652.
*co-first authors.
- Fu H, **Maunakea AK**, Martin MM, Huang L, Zhang Y, Ryan M, et al. Methylation of histone H3 on lysine 79 associates with a group of replication origins and helps limit DNA replication once per cell cycle. *PLoS Genet*. 2013;9(6):e1003542. doi: 10.1371/journal.pgen.1003542. PubMed PMID: 23754963; PubMed Central PMCID: PMCPMC3674996.
- Tao Y*, Xi S*, Shan J*, **Maunakea A**, Che A, Briones V, et al. Lsh, chromatin remodeling family member, modulates genome-wide cytosine methylation patterns at nonrepeat sequences. *Proc Natl Acad Sci U S A*. 2011;108(14):5626-31. doi: 10.1073/pnas.1017000108. PubMed PMID: 21427231; PubMed Central PMCID: PMCPMC3078362. *co-first authors.
- **Maunakea AK**, Nagarajan RP, Bilenky M, Ballinger TJ, D'Souza C, Fouse SD, et al. Conserved role of intragenic DNA methylation in regulating alternative promoters. *Nature*. 2010;466(7303):253-7. doi: 10.1038/nature09165. PubMed PMID: 20613842; PubMed Central PMCID: PMCPMC3998662.
- **Maunakea AK**, Chepelev I, Zhao K. Epigenome mapping in normal and disease States. *Circ Res*. 2010;107(3):327-39. doi: 10.1161/CIRCRESAHA.110.222463. PubMed PMID: 20689072; PubMed Central PMCID: PMCPMC2917837.
- Silber J, Lim DA, Petritsch C, Persson AI, **Maunakea AK**, Yu M, et al. miR-124 and miR-137 inhibit proliferation of glioblastoma multiforme cells and induce differentiation of brain tumor stem cells. *BMC Med*. 2008;6:14. doi: 10.1186/1741-7015-6-14. PubMed PMID: 18577219; PubMed Central PMCID: PMCPMC2443372.
- Reinhold WC, Reimers MA, **Maunakea AK**, Kim S, Lababidi S, Scherf U, et al. Detailed DNA methylation profiles of the E-cadherin promoter in the NCI-60 cancer cells. *Mol Cancer Ther*. 2007;6(2):391-403. doi: 10.1158/1535-7163.MCT-06-0609. PubMed PMID: 17272646.

- Hong C, **Maunakea A**, Jun P, Bollen AW, Hodgson JG, Goldenberg DD, et al. Shared epigenetic mechanisms in human and mouse gliomas inactivate expression of the growth suppressor SLC5A8. *Cancer Res.* 2005;65(9):3617-23. doi: 10.1158/0008-5472.CAN-05-0048. PubMed PMID: 15867356.
- Ching TT*, **Maunakea AK***, Jun P, Hong C, Zardo G, Pinkel D, et al. Epigenome analyses using BAC microarrays identify evolutionary conservation of tissue-specific methylation of SHANK3. *Nat Genet.* 2005;37(6):645-51. doi: 10.1038/ng1563. PubMed PMID: 15895082. *co-first authors.
- Reinhold WC, Kouros-Mehr H, Kohn KW, **Maunakea AK**, Lababidi S, Roschke A, et al. Permissive Apoptosis-Resistance (PAR): A Two-step Model for Development of Resistance to Anticancer Drugs. *CCR Frontiers in Science.* 2003;2(Sept):2-3. (Note: AACR Journal Publication)
- Reinhold WC, Kouros-Mehr H, Kohn KW, **Maunakea AK**, Lababidi S, Roschke A, et al. Apoptotic susceptibility of cancer cells selected for camptothecin resistance: gene expression profiling, functional analysis, and molecular interaction mapping. *Cancer Res.* 2003;63(5):1000-11. PubMed PMID: 12615715.
- Weinstein JN, Scherf U, Lee JK, Nishizuka S, Gwadry F, Bussey AK, Kim S, Smith LH, Tanabe L, Richman S, Alexander J, Kouros-Mehr H, **Maunakea A**, Reinhold WC. The bioinformatics of microarray gene expression profiling. *Cytometry.* 2002;47(1):46-9. PubMed PMID: 11774349.
- Wang M, Kikuzaki H, Csiszar K, Boyd CD, **Maunakea A**, Fong SF, et al. Novel trisaccharide fatty acid ester identified from the fruits of *Morinda citrifolia* (Noni). *J Agric Food Chem.* 1999;47(12):4880-2. PubMed PMID: 10606546.
- Boyd C, **Maunakea A**, Mordan L, Csiszar, K. Polynesian ethnobotanicals: a critical role in new drug discovery. *Pacific Health Dialog, Journal of Community Health and Clinical Medicine for the Pacific - The Health of Native Hawaiians.* 1998;5(2):337-40.

ABSTRACTS & POSTER PRESENTATIONS:

- 2023 Brennan Yamamoto (poster presentation), **Alika Maunakea** (May 11-15, 2023). Ketogenic diet influences the microbiome-immune axis with therapeutic potential to ASD. *Immunology 2023 Conference*, Washington DC.
- 2023 Lesley Umeda (poster presentation), **Alika Maunakea** (May 11-15, 2023). HMGB-1 Concentrations Are Predictive of Neutralization Efficacy after SARS-CoV-2 mRNA Vaccination *Immunology 2023 Conference*, Washington DC.
- 2023 Noelle Rubas (poster presentation), **Alika Maunakea** (May 11-15, 2023). High Mobility Group Box 1: A Predictive Biomarker of Aberrant Humoral Responses Implicated in Post-Acute Sequelae of SARS-CoV-2 Infection. *Immunology 2023 Conference*, Washington DC.
- 2023 Rafael Peres (poster presentation), **Alika Maunakea** (May 11-15, 2023). Gut microbiome and metabolites relate diabetes risk among Native Hawaiians and Pacific Islanders *Immunology 2023 Conference*, Washington DC.
- 2022 Noelle Rubas (oral presentation), **Alika Maunakea** (July 10-14, 2022). Symbiont-induced epigenetic changes in the host genome during the initiation of the squid-vibrio partnership. *Beneficial Microbes Conference*, Madison, Wisconsin.
- 2022 **Alika Maunakea**, Rafael Peres (poster presenter) (May 19-22, 2022). Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders. *3rd Annual Epigenetics: From Mechanisms to Disease Conference*, Cancun, Mexico.
- 2022 Nataliya Panova (talk presenter), **Alika Maunakea** (April 2022). SARS-CoV-2 Sequencing in Post-Acute Cases Revealed a Novel Mutation Associated with Reduced Viral Neutralization. *JABSOM Annual Biomedical Sciences & Health Disparities Symposium*, Honolulu, HI; **awarded "Honorable Mention"**
- 2022 Celyna Becerra (poster presenter), Braden Kunihiro, Riley Wells, Rosa Lee, Lesley Umeda, Krit Phankitnirundorn, Rafael Peres-David, **Alika Maunakea** (April 2022). The effects of the gut microbiome on depression (low self-esteem) in native Hawaiians. *JABSOM Annual Biomedical Sciences & Health Disparities Symposium*, Honolulu, HI; **awarded "3rd Best Poster"**

- 2021 Noelle Rubas (poster presenter), Rafael Peres-David, Braden Kunihiro, Lesley Umeda, Riley Wells, Trevor McCracken, Răzvan Sultana, Corrie Miller, **Alika Maunakea** (April 2021). Investigating the interactions between the gut microbiome and inflammation during pregnancy in a multiethnic cohort. *JABSOM Annual Biomedical Sciences & Health Disparities Symposium*, Honolulu, HI.
- 2021 Corrie Miller (poster presenter), Paula Benny, Johnathan Riel, Yujia Qin, Vedbar Khadka, **Alika Maunakea**, Men-Jean Lee (January 2021). Diet Quality is associated with vaginal alpha diversity in the first trimester of pregnancy. *Society for Maternal-Fetal Medicine Annual Meeting*.
- 2020 Riley Wells, Rafael Peres-David, Răzvan Sultana, Dong Yoon Kim, McCracken Trevor, McCracken, Braden Kunihiro (poster presenter), **Alika Maunakea** (October 9-11, 2020). The effects of the Gut Microbiome on Cardiometabolic Diseases in Native Hawaiians. *4th Annual AiChe EpiBio Conference*.
- 2020 Braden Kunihiro (poster presenter), Riley Wells, Rafael Peres-David, Răzvan Sultana, Dong Yoon Kim, Trevor McCracken, **Alika Maunakea** (June 2020). The Effects of the Gut Microbiome on Cardiometabolic Diseases in Native Hawaiians, *Hawaii INBRE-SRE Program*, Honolulu, HI
- 2019 Ruben Juarez, Krit Phankitnirundorn, Rafael Peres-David, Riley Wells, **Alika K. Maunakea** (poster presenter) (Dec. 17-17, 2019). Supporting Native Hawaiian Health with Community-Based Social Biomedical Research, *RCMI National Conference*, Bethesda, MD
- 2019 Dong Yoon Kim (poster presenter), Riley Wells, Rafael Peres-David, Răzvan Sultana, Amy Wassman, **Alika K. Maunakea** (Aug. 9, 2019). Gut microbiome and Type 2 Diabetes Mellitus risk in Native Hawaiians. *Department of Native Hawaiian Health and The Queen's Medical Center Office of Research & Development, Summer Research Internship Poster Presentation*, Honolulu, HI; **awarded "Best Poster"**
- 2018 Kekaihalai Avilez, Kaahukane Leite-Ah Yo (poster presenter), Christian K. Dye, Michael Corley, Wei Zhang, Annette Lum-Jones, Thomas Hemscheidt, **Alika K. Maunakea** (July 12-17, 2018). Investigating the Role of Epigenetics in the Anti-Cancer Activity of Noni and the Hawaiian Concept of Health. *Pacific Region Indigenous Doctors Congress*, Hilo, HI
- 2018 Anthony Sigmund (poster presenter), Ruben Juarez, **Alika K. Maunakea** (April 19–20, 2018). Investigating How Social Networks Change Native Hawaiian and Pacific Islander Composition of Gut Microbiome and Cardiometabolic Health Risk. *Xavier University of Louisiana College of Pharmacy's Center for Minority Health and Health Disparities, 11th Health Disparities Conference* New Orleans, Louisiana; **awarded "First Place in doctoral level category"**.
- 2018 Riley Wells, James Doherty, Anthony Sigmund, Razvan Sultana, Ruben Juarez, **Alika K. Maunakea** (April 18-19, 2018). Investigating How Social Networks Change Native Hawaiian and Pacific Islander Composition of Gut Microbiome and Cardiometabolic Health Risk. *JABSOM Biomedical Sciences and Health Disparities Symposium*, UHM, Honolulu, HI
- 2018 Michael J. Corley, Alina PS Pang, Annette Lum-Jones, Dongmei Li, Vedbar Khadka, Robert J. Blanchard, D. Caroline Blanchard, **Alika K. Maunakea** (poster presenter). (Feb. 15-28, 2018) Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders. *Epigenetics: From Mechanism to Disease, Fusion Conferences*, Cancun, Mexico.
- 2017 Kelsea Hosoda, Christian Dye, Michael Corley, Claire Townsend, **Alika K. Maunakea*** (poster presenter) (October 18-20, 2017). Evaluating the Impact of a Community-based Diabetes Intervention on Monocyte Epigenomes of Native Hawaiians and Pacific Peoples. *NIH IDEa Western Regional Conference*, Jackson, Wyoming. *Note: co-organized "Ending Native American Health Disparities" session.
- 2017 Michael J. Corley, Alina PS Pang, Annette Lum-Jones, Dongmei Li, Vedbar Khadka, Robert J. Blanchard, D. Caroline Blanchard, **Alika K. Maunakea** (poster presenter) (April 20-21, 2017). Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders. *JABSOM Biomedical Sciences and Health Disparities Symposium*, UHM, Honolulu, HI. **awarded "First Place in faculty division"**.
- 2017 Christian K. Dye (poster presenter), Kelsea Hosoda, Michael Corley, Annette Lum-Jones,

- Wei Zhang, Mary Margaret Byron, Cecilia Shikuma, Lishomwa Ndhlovu, **Alika K. Maunakea** (April 20-21, 2017). Methyloomic Profile in Monocytes of HIV-infected Adults Associate with Cardiovascular Disease Risk. *JABSOM Biomedical Sciences and Health Disparities Symposium*, UHM, Honolulu, HI
- 2017 Michael J. Corley, Alina PS Pang, Annette Lum-Jones, Dongmei Li, Vedbar Khadka, Robert J. Blanchard, D. Caroline Blanchard, **Alika K. Maunakea** (poster presenter) (Jan. 29 - Feb. 2, 2017). Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders. *Epigenetics and Human Disease: Progress from Mechanisms to Therapeutics, Keystone Symposium*, Seattle, WA
- 2016 Michael J. Corley (poster presenter), Miki Wong, Alina P.S. Pang, Annette Lum-Jones, Ryan Lee, **Alika K. Maunakea** (September 20-24, 2016). Ketogenic Diet Treatment of Children with Epilepsy Induces Epigenetic Changes in the Immune System. *5th Global Symposium on Ketogenic Therapies: Treating Epilepsy, Brain Cancer, Autism & Cognitive Disorders*, Banff, Alberta, Canada
- 2016 Michael J. Corley, Wei Zhang, Xin Zheng, Annette Lum-Jones, **Alika K. Maunakea** (poster presenter) (June 26-28, 2016). Semiconductor-based sequencing of DNA methylation states reveals novel insights in gene regulation. *National IDeA Symposium of Biomedical Research Excellence*, Washington, DC
- 2016 Chantell Balaan (poster presenter), Michael J. Corley, Yasuhiro Yamauchi, Tiffany Eulalio, Kaahukane Leite-Ah Yo, Alina P.S. Pang, **Alika K. Maunakea**, Monika A. Ward (April 21-22, 2016). Alterations in behavior related to Autism Spectrum Disorder in mice conceived by in-vitro fertilization. *JABSOM Biomedical Sciences and Health Disparities Symposium*, UHM, Honolulu, HI
- 2016 Christian K. Dye (poster presenter), Kelsea Hosoda, Michael Corley, Annette Lum-Jones, Wei Zhang, Mary Margaret Byron, Cecilia Shikuma, Lishomwa Ndhlovu, **Alika K. Maunakea** (April 21-22, 2016). Methyloomic Profile in Monocytes of HIV-infected Adults Associate with Cardiovascular Disease Risk. *JABSOM Biomedical Sciences and Health Disparities Symposium*, UHM, Honolulu, HI
- 2016 Chantell Balaan (poster presenter), **Alika K. Maunakea**, Monika A. Ward (February 26, 2016). Alterations in behavior relating to Autism Spectrum Disorder in mice conceived by in vitro fertilization. *Developmental and Reproductive Biology Retreat*, UHM, Honolulu, HI; **awarded "The Best Throughout - Beginning Students"**.
- 2015 Michael J. Corley, Alina PS Pang, Annette Lum-Jones, Dongmei Li, Vedbar Khadka, Robert J. Blanchard, D. Caroline Blanchard, **Alika K. Maunakea** (poster presenter) (February 22-26, 2015). Dysregulation of DNA methylation in a neurogenic brain region is a common feature among individuals with autism. *Keystone Symposia: Neuroepigenetics*, Santa Fe, NM
- 2015 Kelsea Hosoda (poster presenter, Christian Dye, Michael Corley, Claire Townsend, **Alika K. Maunakea** (October 1-3, 2015). *Evaluating the Impact of a Community-based Diabetes Intervention on Monocyte Epigenomes of Native Hawaiians and Pacific Peoples*. College of Tropical Agriculture and Human Resources (CTAHR) Student Research Symposium, UHM, Honolulu, HI; **awarded "Best MS Poster"**.
- 2014 Kelsea Hosoda (poster presenter), Christian K. Dye, Michael Corley, Annette Lum-Jones, Wei Zhang, Claire Townsend, J. Keaweaimoku Kaholokula, **Alika K. Maunakea** (December 1-3, 2014). Community-based participatory and epigenetic research in diabetes. *NIMHD Grantees' Conference, Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity*, National Harbor, MD
- 2014 Kekaihalai J. Avilez (poster presenter), Kaahukane Leite-Ah Yo, Thomas Hemscheidt T, Dana-Lynn Koomoa, **Alika K. Maunakea** (March 2014). Investigating the Role of Epigenetics on the Anti-Cancer Activity of Noni (*Morinda citrifolia*). *American Indian Science & Engineering Society Region 2 Conference*, Honolulu, HI

- 2014 Keith S.K. Fong (poster presenter), Robert B. Hufnagel, Michael J. Corley, Geoffrey W. Yee, Shaun B. Chang, **Alika K. Maunakea**, Zubair M. Ahmed, Scott Lozanoff. (October 18, 2014). A nonsense mutation in the Tet1 gene affects the craniofacial expression of Msx1 and Dlx5 and is associated with midfacial clefting and cephalocele formation in the tuft mouse. *37th Annual Meeting of the Society for Craniofacial Genetics and Developmental Biology, Sanford Consortium Regenerative Medicine, LaJolla, CA*
- 2009 P. Rinaudo (poster presenter), G. Giritharan, L.P. Delle, A. Donjacoru, C. Hong, **A. Maunakea**, J.F. Costello. (July 18-22, 2009). Effect of the Method of Conception on SHANK3 Expression and Methylation in the Hippocampus of Adult Mice. *42nd Annual Meeting of the Society for the Study of Reproduction, Pittsburgh, PA*
- 2007 **Alika K. Maunakea** (poster presenter) (Fall 2007) Roles of Tissue Specific Intragenic DNA Methylation in Gene Expression: Evidence from Integrated Comparative Genomics and Epigenomics of SHANK3, *UCSF Biomedical Sciences program retreat, Tahoe, CA*
- 2006 **Alika K. Maunakea** (poster presenter) (Fall 2006) A Role for Intragenic DNA Methylation in Modulating the Level of Gene Expression: A Comparative Epigenomics Approach, *UCSF Biomedical Sciences program retreat, Tahoe, CA*
- 2005 J.F. Costello (poster presenter), C. Hong, P. Jun, **A. Maunakea**, W.A. Weiss, A.W. Bollen (May 5-8, 2005). Shared epigenetic mechanisms of gene inactivation in human and mouse gliomas. *2nd Quadrennial Meeting of the World Federation of Neuro-Oncology/6th Meeting of the European Association for Neuro-Oncology, Edinburgh, Scotland*
- 2005 J.F. Costello, C. Hong, P. Jun, **A. Maunakea** (poster presenter), W.A. Weiss, A.W. Bollen (January 23-28, 2005). Shared epigenetic mechanisms of gene inactivation in human and mouse gliomas. *Gordon Research Conferences: Cancer Genetics and Epigenetics, Ventura, CA*
- 2004 C. Hong (poster presenter), **A. Maunakea**, P. Jun, A.W. Bollen, W.A. Weiss, J.F. Costello (November 18-21, 2004). Epigenetic mechanisms suppress the expression of SLC5A8, a tumor growth suppressor in human and mouse gliomas. *9th Annual Meeting of the Society for Neuro-Oncology, Toronto, Canada*
- 2004 **Alika K. Maunakea** (poster presenter) (Fall 2004) The Contribution of CpG-island Methylation to the Tissue-Specific Expression of SHANK3, *UCSF Biomedical Sciences Retreat, Tahoe, CA*
- 2002 W.C. Reinhold (poster presenter), H. Kouros-Mehr, **A. Maunakea**, K.W. Kohn, S. Lababidi, P. Pantazis, E. Liu, I. Kirsch, Y. Pommier, J.N. Weinstein (November 19-22, 2002). Apoptotic response and the mechanism of resistance to camptothecin: a study of gene expression and functional effects. *14th EORTC/NCI/AACR Symposium on Molecular Targets and Cancer Therapeutics, Frankfurt, Germany*

NATIONAL/INTERNATIONAL REFEREED CONFERENCE & SYMPOSIUM PRESENTATIONS:

- 2024 *Gut microbiome and metabolites relate diabetes risk among Native Hawaiians and Pacific Islanders. 17th International Conference on Advanced Technologies & Treatments for Diabetes, Florence, Italy.*
- 2023 *Gut microbiome and metabolites relate diabetes risk among Native Hawaiians and Pacific Islanders. Immunology 2023 Conference, Washington DC.*
- 2018 *Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders, Epigenetics Conference From Mechanism to Disease, Cancun, Mexico*
- 2018 *Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders, National IDEA Symposium of Biomedical Research Excellence (NISBRE) Conference, Washington DC*
- 2017 *Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders, NHLBI Systems Biology Symposium, Bethesda, Maryland*
- 2016 *Evaluating the Impact of a Community-based Diabetes Intervention on Monocyte Epigenomes of Native Hawaiians and Pacific Peoples (abstract selected for oral presentation), Lowitja Institute*

- 2016 International Indigenous Health and Wellbeing Conference 2016, Melbourne, **Australia**
Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders (abstract selected for oral presentation), Game of Epigenomics, Ruđer Bošković Institute, Dubrovnik, **Croatia**
- 2016 *Semiconductor-based sequencing of DNA methylation states reveals novel insights in gene regulation*, National IDeA Symposium of Biomedical Research Excellence, **Washington, DC**
- 2016 *Semiconductor-based sequencing of DNA methylation states reveals novel insights in gene regulation*, 6th Annual World Congress of Molecular & Cell Biology, Dalian, **China**
- 2016 *Semiconductor-based sequencing of DNA methylation states reveals novel insights in gene regulation*, Department of Biology Division of Natural Sciences Lecture Series, University of Guanajuato, **Mexico**
- 2015 *Evaluating the impact of a community-based diabetes intervention on disease management and the epigenomes of Native Hawaiians & Pacific Peoples*, NIH IDeA Western Regional Conference, Coeur d'Alene, **Idaho**

OTHER PRESENTATIONS:

- 2025 Climate change and health equity conference, “Maui Wildfire Exposure Study”, Jan. 11-12, 2025
- 2024 Maui Wildfire Exposure Study and Registry Workshop, “Maui Wildfire Exposure Study”, Dec. 5, 2024, Lahaina, HI
- 2024 Science Cafe / ARCS Foundation Honolulu Pauhana, “Associations of socioeconomic status and lifestyle on biological aging in a multiethnic cohort”, Oct. 16, 2024, Honolulu, HI
- 2023 Aha Ho‘olokahi, Native Hawaiian Health & Well-Being Summit, “Epigenetic Origins of Diabetes Disparities Among Native Hawaiians and Pacific Islanders”, June 1-2, 2023, UH-West Oahu, HI
- 2022 SRI Lecture (DNHH/QMC) “Health Disparities Research at the Cellular Level”, June 20, 2022, Honolulu, HI
- 2021 Journey Back to Our Island Healthcare Home 12th Annual Conference. Speaker, “Multidisciplinary Community-based Research to Mitigate COVID-19”, Dec. 2, 2021, Waikoloa, HI
- 2021 Wai‘anae Coast Ho‘ohūlili: Service Provider Fest 15th Annual, *Ho‘ōla i ke Kaiāulu: The Community Lives and Thrives*. Invited Speaker, “Wai‘anae-based Research to Mitigate COVID-19”, Oct. 29, 2021, Honolulu, HI
- 2021 Hanahau‘oli Professional Development Center, “Safer School Reopening: COVID-19 Strategies for Educators,” Hanahau‘oli Schools, August 25-26, 2021, Honolulu, HI
- 2021 HiCOVID.org, “Safer Return to Schools Townhall,” Virtual, July 21, 2021, Honolulu, HI
- 2020 Hanahau‘oli Professional Development Center, “Building Resilient Communities: School-Community Health Partnerships to Help Control COVID-19,” Hanahau‘oli Schools, August 11, 2020, Honolulu, HI
- 2019 Human Nutrition, Food and Animal Sciences Seminar “Supporting Native Hawaiian Health with Community-Based Biomedical Research”, College of Tropical Agriculture and Human Resources Oct. 23, 2019, Honolulu, HI
- 2019 Research Impacts to Native Hawaiians Seminar Series, “Supporting Native Hawaiian Health with Community-Based Biomedical Research”, Papaolalokahi, Oct. 18, 2019, Honolulu, HI
- 2019 Environmental Health, Human Health, and Agriculture - A Panel Discussion, Hawaii Agriculture Conference, Oct. 15, 2019, Honolulu, HI
- 2019 SRI Lecture (DNHH) “Epigenetics & Health Disparities”, July 8, 2019, Honolulu, HI
- 2018 SRI Lecture (DNHH) “Epigenetics & Health Disparities”, July 9, 2018, Honolulu, HI
- 2018 MHIRT Lecture (TropMed) “Epigenetics & Health Disparities”, May 17, 2018 Honolulu, HI
- 2015 NHLBI K-to-R01 Investigator’s Career Development Workshop, NIH, Bethesda, MD
- 2011 – 2012 Systems Biology Center joint lab meeting, NHLBI, NIH, Bethesda, MD
- 2009 – 2012 Dr. Keji Zhao weekly lab meeting, NHLBI, NIH, Bethesda, MD
- 2009 – 2012 *Multiple roles of MeCP2 in chromatin biology*, Chromatin club meeting, NIH, Bethesda, MD

- 2009 – 2011 *Multiple roles of MeCP2 in chromatin biology*, Laboratory of Molecular Immunology joint lab meeting, NHLBI, NIH, Bethesda, MD
- 2010 Center of Excellence in Chromosome Biology Retreat, NHLBI, NIH, Bethesda, MD
- 2010 NIH Research Festival, Epigenetics, Chromatin, and Gene Regulation Symposia, Bethesda, MD
- 2010 NCI Symposium on Chromosome Biology, Chromatin Dynamics in Development and Disease, NIH, Bethesda, MD
- 2009 BIT's 2nd Annual Congress and Expo of Molecular Diagnostics, New Leadership of Personalized Medicine, DNA methylation track, Beijing, China
- 2009 NHLBI DIR Fellows Retreat, Annapolis, MD
- 2008 *A Conserved Role for Intragenic DNA Methylation in Gene Expression*, UCSF, Biomedical Sciences program thesis seminar series, San Francisco, CA
- 2008 *Role for Intragenic DNA Methylation in Gene Regulation*, NIH, NHLBI post-doctoral interview seminar, Bethesda, MD
- 2003 – 2008 Annual Biomedical Sciences program journal club, UCSF, San Francisco, CA
- 2003 – 2008 Dr. Joseph Costello weekly lab journal club & lab meeting, UCSF, San Francisco, CA
- 2003 Dr. Doug Hanahan weekly lab meeting, UCSF, San Francisco, CA
- 2003 Biomedical Sciences program, Cell Biology course seminar, UCSF, San Francisco, CA
- 2002 Dr. Joe Gray weekly lab meeting, UCSF, San Francisco, CA
- 2001 Midwest Medical Microbiology and Immunology Conference, Omaha, NE
- 2000 Graduate Molecular Biology course thesis presentation and discussion, Creighton University, Omaha, NE
- 2000 Saint Albert's Day Poster Session of the AAAS-SWARM meeting, Creighton University, Omaha, NE
- 2000 Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology Annual Meeting on Infectious Diseases, San Francisco, CA
- 1999 – 2002 Undergraduate Scholarship program, NIH, Bethesda, MD
- 1999 – 2001 Creighton University Science Colloquium, Omaha, NE
- 1998 – 2000 Midwest Medical Microbiology and Immunology Conference, Kansas City, MI
- 1997 International Science and Engineering Fair (ISEF), Louisville, KY
- 1996 International Science and Engineering Fair (ISEF), Tucson, AZ

NATIONAL/INTERNATIONAL INVITED CONFERENCE & SYMPOSIUM PRESENTATIONS:

- 2024 *Understanding the Epigenomic Origins of Diabetes Disparities in Native Hawaiians and Pacific Islanders to Enable Prevention*, NIH/NIMHD Native Hawaiian and Pacific Islander Health Disparities Workshop, Feb. 13-14, presenter, Bethesda, **Maryland**
- 2024 *Understanding the Epigenomic Origins of Diabetes Disparities in Native Hawaiians and Pacific Islanders to Enable Prevention*, Global Microbiome Network Symposium, presenter, Jan. 9-10, Santiago, **Chile**
- 2023 *Understanding the Biological Basis of Health Disparities in Native Hawaiians to Enable Prevention*, Sixth Annual Conference on Native American Nutrition, Sept. 10-12, keynote presenter and conference co-organizer, Prior Lake, **Minnesota**
- 2023 *Understanding the Epigenomic Origins of Diabetes Disparities in Native Hawaiians and Pacific Islanders to Enable Prevention*, Health Disparities Research Institute (HDRI), Aug. 9, presenter, NIMHD, Bethesda, **Maryland**
- 2022 *Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders*, Biomedical Science Seminar Series, June 24, keynote speaker, Universidad Nacional Autónoma de Mexico, Mexico City, **Mexico**
- 2022 *Socioecological Determinants of Immunoepigenetic Signatures of Diabetes Risk in Indigenous Communities*, Social Epigenomics Grantee Meeting, June 1-2, presenter, NIMHD virtual conference

- 2022 *Understanding the Epigenomic Origins of Diabetes Disparities among Native Hawaiians and Pacific Islanders to Enable Prevention*, Inaugural Annual NIH Asian American and Native Hawaiian/Pacific Islander (AA and NHPI) Health Research Conference, May 4-5, presenter, NIH virtual conference
- 2022 *Multidisciplinary Community-based Research to Mitigate COVID-19*, Research Centers in Minority Institutions (RCMI) Consortium National Conference, March 16-18, presenter, virtual conference
- 2021 *Epigenetic Regulation of Development*, Society for Developmental Biology Annual Meeting, July 12-16, Conference Moderator
- 2021 *University of Hawaii, OLA-HAWAII*, Research Centers in Minority Institutions Grantee Meeting, presenter, March 2021, NIMHD virtual conference
- 2020 *Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders*, Nevada Institute of Personalized Medicine, Dec, 2020, University of Las Vegas, **Nevada**
- 2020 *Conducting Research in the Native Hawaiian Community*, Invited panelist, Pacific Northwest and Hawai'i Family Planning Research Symposium, Honolulu, **Hawaii**
- 2019 *Supporting Native Hawaiian Health with Community-Based Biomedical Research*, Humans & the Microbiome Program & Review Meeting, CIFAR, Toronto, **Canada**
- 2019 *Landscape of R1 Institutes Addressing Indigenous Health Disparities*, Indigenous Health Working Group, co-Chair & presenter, NIH IDeA Western Regional Conference, Las Vegas, **Nevada**
- 2018 *Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders*, Simons Center for the Social Brain Colloquium, Massachusetts Institute of Technology, Boston, **Massachusetts**
- 2018 *Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders*, Cell & Molecular Biology Seminar, University of Texas at San Antonio, SA, **Texas**
- 2017 *Ending Native American health disparities*, co-organizer and presenter, NIH IDeA Western Regional Conference, Jackson Hole, **Wyoming**
- 2017 *Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders*, School of Biological Sciences, Nanyang Technological University, **Singapore**
- 2016 *Intragenic DNA methylation and pre-mRNA splicing regulation*, Department of Cellular Biotechnologies and Hematology, University of Rome Sapienza, Rome, **Italy**
- 2016 *Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders*, 3D Genome Organization Club, Cancer Science Institute, National University of Singapore, **Singapore**
- 2015 *How to Start Up an Academic Research Group*, Invited panelist, NIH Career Symposium, Bethesda, **Maryland**
- 2014 *Epigenetics in transcription, pre-mRNA splicing, and disease*, co-organizer and presenter, European Molecular Biology Organization (EMBO) "Epigenetic plasticity: Implications in neural (dys)function" Conference Workshop, Braga, **Portugal**

LOCAL REFEREED CONFERENCE & SYMPOSIUM PRESENTATIONS:

- 2015 *Evaluating the impact of a community-based diabetes intervention on disease management and the epigenomes of Native Hawaiians and Pacific Peoples*, He Huliau lecture (1.0 CME), Honolulu, HI
- 2014 *Epigenetics in transcription, pre-mRNA splicing, and disease*, keynote speaker, AISES Region 2 Conference: 'Āina- Ka Piko o Ke Ola, Honolulu, HI
- 2013 *Novel roles of intragenic DNA methylation in transcription and pre-mRNA splicing*, Third Biennial Western Regional IDeA Scientific Conference, Honolulu, HI
- 2013 *Investigating the epigenetic basis of elevated monocyte inflammation in adults at risk for cardiovascular disease*, ESC Hawai'i 2013 Conference (International), Honolulu, HI
- 2010 *Promises and Pitfalls of Genomic Medicine: Seeking Meaning to Indigenous Health and Wellness*, Research Conference on Native Hawaiian Well-Being: Realizing our Kuleana for the Future, Honolulu, HI

LOCAL INVITED CONFERENCE & SYMPOSIUM PRESENTATIONS:

- 2021 Keynote Speaker, “Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders,” 20th Annual Raul Rudoy Research Day, May 19, 2021, Kapi‘olani Hospital, Honolulu, HI
- 2019 *Integrative epigenomic analyses support the early developmental origin of autism spectrum disorders*, Summer Research Internship Symposium, *Keynote speaker*, Hawaii Pacific Neuroscience, Honolulu, HI
- 2016 *Mapping the Epigenomic Landscape of Autism Spectrum Disorders*, Cell & Molecular Biology Lecture Series, JABSOM, UHM, Honolulu, HI
- 2016 *The Role of Epigenetics in Disease*, Pu‘ike Lecture Series, DNHH, JABSOM, UHM, Honolulu, HI
- 2015 *Gut microbiome, ketogenic diet, and autism*, Shriner's Hospital for Children, Research ‘Aha, Honolulu, HI
- 2014 *Novel roles of epigenetics in transcription and pre-mRNA splicing: Implications for Cardiometabolic Diseases*, RTRN Webinar, Cardiovascular and Related Disease Cluster, UHM
- 2014 *Novel roles of epigenetics in transcription and pre-mRNA splicing*, Chaminade Spring 2014 Distinguished Lecturer, Honolulu, HI
- 2014 *Role of epigenetics in disease*, Seminar Series, Institute for Biogenesis Research, UHM, Honolulu
- 2014 *Epigenomics Research Program*, Kū i ka pono project update (DNHH), Queen’s Medical Center, Honolulu, HI
- 2014 *Role of epigenetics in disease*, DNHH Summer Research Institute lecturer, UHCC, Honolulu, HI
- 2013 *Evaluating the impact of a community-based diabetes intervention on disease management and the epigenomes of Native Hawaiians and Pacific Peoples*, Works-in-Progress, DNHH, JABSOM, UHM, Honolulu, HI
- 2013 *Biobanking Basics: An overview of biospecimen collection to advance cancer research*, Queen's Medical Center, Honolulu, HI (2.5 CME)
- 2010 *The roles of DNA methylation in transcription and splicing*, UH, JABSOM, Honolulu, HI

GRANTS PENDING (3):

Period	Funding Agency	Grant Number & Title	Role	Total
06/25 – 05/30	NIH/National Cancer Institute	U54-TBD: Hawai‘i Multicultural Asian and Native Ancestry (HI-MANA) Cancer Cohort Study	Multiple Principal Investigator	\$12,500,000
06/25 – 05/30	NIH/National Institute on Minority Health and Health Disparities	P20-TBD: Center for Interdisciplinary Research of Community and Lived Environment (CIRCLE)	Multiple Principal Investigator	\$5,000,000
06/25 – 05/30	NIH/National Institute of Mental Health	R01-TBD: Integrating neuroimaging and epigenomic analyses to understand the early developmental origins of autism spectrum disorders	Multiple Principal Investigator	\$2,500,000

GRANTS AWARDED & ACTIVE (7):

Period	Funding Agency	Grant Number & Title	Role	Total
07/24 – 06/26	NIH/National Institute on Minority Health	R61MD019793: The Maui Wildfire Exposure Cohort Study on Community Health and Resilience	Multiple Principal Investigator	\$1,000,000

	and Health Disparities			
09/22 – 08/29	NIH/National Heart, Lung, and Blood Institute	UG03HL169657: Pacific Ocean Native Observational (PONO) Health Legacy Study	Multiple Principal Investigator	\$4,000,000
09/23 – 06/28	NIH/National Cancer Institute	P20CA275734: Hawaii Minority Health and Cancer Disparities SPORE [MPI: Le Marchand; Berenberg]	Co-investigator	\$12,000,000
07/21 – 06/26	NIH/National Institute on Minority Health and Health Disparities	R01MD016593: Socioecological Determinants of Immunoepigenetic Signatures of Diabetes Risk in Indigenous Communities	Principal Investigator	\$3,300,000
08/23 – 07/28	NIH/National Human Genome Research Institute	U54HG013243: Pacific Center for Genome Research [MPI: Lang; Deng]	Co-investigator	\$11,000,000
03/22 – 03/27	NIH/National Institute of General Medical Sciences	P20GM139753: Integrative Center for Precision Nutrition and Human Health [PI: Berry; Maunakea, co-Investigator]	Co-investigator	\$11,050,000
09/23 – 09/24	DHHS/Office of Minority Health	MP-CPI-23-002: Establishment of a Center for Indigenous Innovation and Health Equity (CIIHE) [PI: Enos]	Co-investigator	\$2,000,000

GRANTS AWARDED & COMPLETED (23):

Period	Funding Agency	Grant Number & Title	Role	Total
02/24 – 09/24	Kaiser Permanente, HI	TBD: Maui Wildfire Exposure Study	Multiple Principal Investigator	\$250,000
12/23 – 06/24	Hawaii Community Foundation	TBD: Maui Wildfire Exposure Study	Multiple Principal Investigator	\$250,000
09/21 – 03/23	DHHS/Office of Minority Health	6CPIMP211318-01-01: Center for Indigenous Innovation and Health Equity [PI: Enos]	Co-investigator	\$2,000,000
06/21 – 06/23	NIH/National Institute of Child Health and Human Development	OT2HD108105: Empowering Schools as Community Assets to Mitigate the Adverse Impacts of COVID-19	Multiple Principal Investigator	\$3,000,000
09/20 – 06/22	NIH/National Institute on Minority Health and Health Disparities	U54MD007601-34S2: Community Driven Approach to Mitigate COVID 19 Disparities in Hawaii's Vulnerable Populations [PI: Hedges]	Co-Director	\$4,500,000
09/17 – 08/22	NIH/National Institute on Minority Health and Health Disparities	U54MD007601: Social Immunoepigenetic Conditioning of Diabetes Disparities	Project Leader	\$675,000
09/19 – 08/21	NIH/National Heart, Lung, and Blood Institute	R01GM135254: Vibrio colonization determinants in symbiosis [MPI: M. McFall-Ngai, E. Ruby]	Co-investigator	\$2,260,000

07/19 – 06/21	NIH/National Heart, Lung, and Blood Institute	R03HL146886: Epigenomic Conditioning of Monocyte Inflammatory Activity in Native Hawaiians with Diabetes	Principal Investigator	\$100,000
09/16 – 08/21	NIH/National Cancer Institute	P01CA138338: Ethnic Differences in Smoking-Related Biomarkers and Risk of Lung Cancer	Project co-Leader	\$850,000
04/20 – 08/20	Robert Emens Black Fund, Hawaii Community Foundation	20HCF-101573: <i>Multi-phase Initiative to Mitigate Impacts of COVID-19</i>	Principal Investigator	\$84,105
09/19 – 08/20	NIH/National Institute on Minority Health and Health Disparities	R56MD014630: Immunoepigenetic-gut microbiome axis in the social networks of health disparate youth	Principal Investigator	\$250,000
05/19 – 11/20	Medical Research Award, Hawaii Community Foundation	19ADVC-95462: <i>Identifying the epigenetic determinants of alternative splicing in neuronal differentiation</i>	Principal Investigator	\$50,000
07/18 – 06/20	Kamehameha Schools	010399-02: <i>Determining the Health Impacts of ‘Aina-Based Programs</i>	Co-Principal Investigator	\$100,000
07/17 – 06/19	NIH/National Institute of Mental Health	R21MH114005: Epigenomic Dysregulation of Neurodevelopmental Genes Underlies Autism Spectrum Disorders	Principal Investigator	\$275,000
07/14 – 06/19	NIH/National Institutes of General Medical Sciences	P20GM103457: The impact of assisted reproductive technology on the long-term epigenetic regulation of neurodevelopmental genes associated with autism	Project Leader	\$875,000
07/17 – 06/19	HMSA Foundation	NH-021701: <i>Evaluating community-based health impact using social networks</i>	Co-Principal Investigator	\$200,000
01/18 – 06/19	UH-CMAIKI	<i>Investigating the Gut Microbiome in Social Networks</i>	Pilot Project Co-Principal Investigator	\$10,000
12/14 – 11/18	NIH/National Heart, Lung and Blood Institute	K01HL125504: Identifying epigenetic biomarkers of cardiovascular disease risk in humans	Principal Investigator	\$609,000
07/16 – 12/17	Medical Research Award, Hawaii Community Foundation	16CON-78924: <i>Mapping the epigenomic landscape of autism spectrum disorders</i>	Principal Investigator	\$50,000
08/13 – 07/14	NIH/National Institute on Minority Health and Health Disparities	G12MD007601: Evaluating the Impact of a Community-based Diabetes Intervention on Monocyte Epigenomes of Native Hawaiians and Pacific Peoples	Pilot Project Principal Investigator	\$25,000

07/13 – 07/14	NIH/National Institute on Minority Health and Health Disparities	U54MD007584: <i>Evaluating the Impact of a Community-based Diabetes Intervention on Disease Management and the Epigenomes of Native Hawaiians</i>	Pilot Project Co-Principal Investigator	\$40,000
09/13 – 08/14	NIH/National Institute of General Medical Sciences	P30GM103341: <i>Investigating the epigenetic basis of cardiovascular disease risk in monocytes</i>	Pilot Project Principal Investigator	\$48,000
06/05 – 06/07	NIH/National Institute of Neurological Disorders and Stroke	F31NS049850: <i>The Contribution of CpG-island Methylation to the Tissue-Specific Expression of SHANK3</i>	Principal Investigator	\$92,000

TEACHING & MENTORING (15% FTE)

MEDICAL SCHOOL & FACULTY TEACHING EXPERIENCE (7 courses/CME):

Dates & Times	Course or Seminar	Role & Audience
2025 (2/12/25)	Endocrine Grand Rounds, City of Hope	Lecturer Topic: <i>Epigenetic Origins of Diabetes Disparities Among Native Hawaiians and Pacific Islanders</i> (For medical students, residents and faculty at City of Hope)
2024 (11/14/24)	Native Health Elective, UCSF	Lecturer Topic: <i>Epigenetic Origins of Native Hawaiian Health Disparities</i> (For first-year medical students)
2024 (8/30/24) 1 hr/lecture x 1 time	JABSOM Climate Change Symposium	Lecturer Topic: <i>Maui Wildfire Exposure Study</i> (For first- and second-year medical students)
2024 (10/22/24) 1 hr/lecture	Department of Medicine Grand Rounds, JABSOM	Lecturer Topic: <i>Socioeconomic Status, Lifestyle, and DNA Methylation Age Among Racially and Ethnically Diverse Adults</i> (For medical residents and faculty at Queen’s Medical Center & JABSOM)
2013 - 2014 1 hr/lecture x 2 times	Department of Medicine Grand Rounds, JABSOM	Lecturer Topic: <i>Epigenetics in disease states</i> (For medical residents and faculty at Queen’s Medical Center & JABSOM)
2016 1 hr/lecture x 1 time	Neuroscience Grand Rounds, Hawai‘i Pacific Neuroscience, Castle Medical Center	Lecturer Topic: <i>Mapping the Epigenomic Landscape of Autism Spectrum Disorders</i> (For medical students, residents, and faculty at Hawai‘i Pacific Neuroscience)
2013 - present 1 hr/lecture x 1 time	MD 581-584: Community Medicine Elective; <i>Native Hawaiian Health: Past, Present, Future</i>	Lecturer Topic: <i>Role of epigenetics in disease</i> (For first-year medical students)

GRADUATE SCHOOL TEACHING EXPERIENCE:

Dates & Times	Course or Details	Role
2022 1 credit hour	MBBE 800 PhD Thesis	Advisor and Lab Instructor
2021 1 credit hour	MBBE 800 PhD Thesis	Advisor and Lab Instructor
2020 1 credit hour	MBBE 800 PhD Thesis	Advisor and Lab Instructor
2019 2 credit hours	ANSC641/HNFAS681 Nutritional Sciences	Lecturer
2020 - present 1 credit hour	ANAT 699 Directed Research	Advisor and Lab Instructor
2015 - present 3 credit hours/semester	CMB 631 Research Rotation	Advisor and Lab Instructor
2015 - present 8 credit hours/semester	CMB 699 Directed Research	Advisor and Lab Instructor
2014 - present 8 credit hours/semester	NHH 699 Directed Research	Advisor and Lab Instructor
2014 – present 1 hr/lecture x 1 time	DRB 613 Seminars in Developmental and Reproductive Biology	Lecturer
2014 10 hrs/mentoring x 1 time	CMB 645G Essentials in Grant Writing	Faculty mentor
2013 - present 8 credit hours/semester	MBBE 699 Directed Research	Advisor and Lab Instructor
2017 – present 4 hr/lecture x 1 time	DRB 666 Applied Developmental and Reproductive Biology	Lecturer
2017 - present 1 hr/lecture x 1 time	CMB 622 Molecular Biology of the Cell	Lecturer
2016 8 credit hours/semester	MBBE 700 MS Thesis	Advisor and Lab Instructor
2016 - present 2 hrs/lecture x 1 time	PH 748 Chronic Disease Epidemiology	Lecturer
2015 1 hr/lecture x 1 time	TRM 654 Advances in Retrovirology (HIV/AIDS)	Lecturer
2015 - present 1 hr/lecture x 1 time	CMB 621 Cell Molecular Biology I	Lecturer
2015 8 credit hours/semester	MBBE 700 MS Thesis	Advisor and Lab Instructor
2014 1 hr/lecture x 1 time	CMB 625 Advanced Topics In Genetics	Lecturer
2013 1 hr/lecture x 1 time	PH 792U Current Issues in Native Hawaiian Health	Lecturer

UNDERGRADUATE SCHOOL TEACHING EXPERIENCE:

Dates & Times	Course or Details	Role
2022 4 credit hours	DNHH SRI Health Disparities at Cell Level	Lecturer
2021 4 credit hours	DNHH SRI Health Disparities at Cell Level	Lecturer

2014 - present 8 credit hours/semester	NHH 499 Directed Research	Advisor and Lab Instructor
2013 1 hr/lecture x 1 time	FSHN 682 Topics in Nutritional Sciences - Obesity 101	Lecturer
2014 - 2015 8 credit hours/semester	HON 496 Honors Research Program	Advisor and Lab Instructor

OTHER PROFESSIONAL TEACHING EXPERIENCE (2 courses):

Dates & Times	Course or Details	Role
Fall & Spring 2010 2 hrs/lecture x 8 times	National Institutes of Health/FAES Introduction to Epigenetics	Course Instructor
2003 2 hrs/lecture x 10 times	University of California, San Francisco BMS- Cell Biology	Teacher’s Assistant

Mentoring/Advising Research Trainees:

2003 – present Mentoring and training of several individual staff scientists, post-doctoral fellows, and professional and undergraduate students in epigenetics/epigenomics, gene regulation, chromatin biology, systems biology, and molecular biology techniques including those that involve ‘next-generation sequencing’ of DNA methylation, histone modifications, & chromatin remodeling proteins: UCSF, 2003-2008; NIH, 2009-2012; University of Hawai‘i, Mānoa (UHM), 2012-present.

JUNIOR FACULTY (8):

Name of Mentee	Faculty Level/Program	Time Period	Mentorship Role
Roman Thaler	Mayo Clinic Assistant Professor (equivalent); Career MODE	June 2023 – present	Mentor
Samia Valeria Ozorio Dutra	UHM Assistant Professor; Nancy Atmospera-Walch School of Nursing	June 2023 – present	Mentor
Masato Yoshizawa	UHM Assistant Professor; COBRE Grant	July 2021 – present	Mentor
Andrea Jani	UHM Assistant Professor; NSF Grant	July 2021 – present	Mentor
Mi-Jeong Lee	UHM Assistant Professor; USDA Grant	May 2021 – present	Mentor
Stephanie Lim	UHCC Assistant Professor; R01 Grant	Nov. 2021 – Dec. 2023	Mentor
Elaine Yu	UCSF/Vitalant Assistant Professor; Career MODE (Columbia Univ.)	June 2022 – June 2023	Mentor
Laura Tipton	Chaminade Univ. Assistant Professor; AIM-AHEAD Fellowship	June 2022 – June 2023	Mentor

POST-DOCTORAL FELLOWS (12):

Name of Mentee	Department	Time Period	Mentorship Role
Keeton Krause	ABP	Nov. 2024 – present	Mentor and supervisor
Catherine Walsh	UHCC/ABP	July 2024 – present	Mentor and supervisor
Amada Torres	ABP	July 2023 – present	Mentor and supervisor
Krit Phankitnirundorn	ABP	Nov. 2021 – present	Mentor and supervisor
Razvan Sultana	ABP	Jan. 2017 – Dec. 2021	Mentor and supervisor

Andrew Knutson	MD (Center for Cardiovascular Research)	May 2018 – June 2019	Mentor and supervisor
Malisandre Tefit	PBRC	Jan. 2017 – Jan. 2020	Research advisor
Rafael Peres-David	ABP	Jan. 2018 – June 2024	Mentor and supervisor
Wei Zhang	CMB	May 2019 – April 2020	Mentor and supervisor
Nauru Idalia Vargas Maya	NHH	May 2018 – June 2019	Mentor and supervisor
Kate Schunke	MD (Center for Cardiovascular Research)	July 2016 – July 2018	Research advisor
Michael Corley	NHH	Jan. 2013 – Jan. 2017	Mentor and supervisor

GRADUATE STUDENTS (27):

Name of Mentee	Degree (Program)	Time Period	Mentorship Role
Braden Kunihiro	MS (MBBE)	Sep. 2023 – present	Advisor and thesis committee chair
Ian Venter	MS (DRB)	Dec. 2023 – present	Thesis committee member
Bryan Suechting	PhD (CMB)	Aug. 2022 – present	Advisor and thesis committee chair
Brennan Yamamoto	PhD (CMB)	Jan. 2022 – present	Advisor and thesis committee chair
Lesley Umeda	MS (MBBE)	Aug. 2021 – Dec. 2024	Advisor and thesis committee chair
Nina Allan	PhD (CMB)	Mar. 2021 – May 2024	Advisor and thesis committee chair
Noelle Rubas	PhD (MBBE)	July 2021 – Dec. 2024	Advisor and thesis committee chair
Riley Wells	MS (MBBE)	Sept. 2017 – Dec. 2024	Advisor and thesis committee chair
Tony Head	MS (CMB)	July 2020 – June 2022	Advisor and thesis committee chair
Trevor McCracken	MD (JABSOM)	Aug. 2019 – March 2021	Mentor and research advisor
Nataliya Panova	MD (JABSOM)	Aug. 2020 – March 2022	Mentor and research advisor
Kimberly Lactaoen	MS (DRB)	Aug. 2019 – Aug 2020	Thesis committee member
Corrie Miller	MSCR	June 2019 – June 2021	Thesis committee member
Miranda Zhang	MS (MBBE)	Jan. 2019 – Jan. 2020	Advisor
James Doherty	PhD (MBBE)	Sept. 2017 – Jan. 2019	Advisor and thesis committee chair
Anthony Sigmund	PhD (MBBE)	July 2017 – April 2019	Co-advisor and thesis committee chair
Chantell Balaan	MS (DRB) and PhD	June – Aug. 2015; Sept. 2015 – May 2017; June 2017– present	Co-advisor and thesis committee member
Christian Dye	MS & PhD (MBBE)	Jan. 2013 – May 2015; June 2015 – June 2020	Advisor and thesis committee member
Silvia Moriano-Gutierrez	PhD (MBBE)	June 2017 – June 2020	Thesis committee member
Alina Pang	PhD (CMB)	June – Aug. 2015; Sept. 2015 – Sept. 2017	Advisor and thesis committee member
Samuel Yunga	PhD (TRMD)	June 2016 – Jan. 2018	Thesis committee member
Sean Roberts	PhD (Kinesiology)	Jan. 2013 – 2015	Thesis committee member
Ross Villiger	PhD (CMB)	Feb. – April 2017	Rotation mentor
Jessica Eby	PhD (CMB)	Jan. 2014 – May 2017	Thesis committee member
Brandi Antonio	PhD (CMB)	Nov. 2015 – Feb. 2016	Rotation mentor
Kelsea Hosoda	MS (MBBE)	Jan. 2013 – May 2015	Advisor and thesis committee member
Min-Ae Song	PhD (MBBE)	Jan. 2013 – Mar. 2014	Co-advisor and thesis committee member

UNDERGRADUATE/POST-BACCALAUREATE STUDENTS (25):

Name of Mentee	Undergraduate School/UHM Program	Time Period	Mentorship Role
Sarah Carroll	Chaminade University	Dec. 2024 – present	Mentor and research advisor
Connor Kamaehu C. Slavens	UHM/Biology	July 2023 – present	Mentor and research advisor
Eunchae Lee	UHM/Biology	Sept. 2024 – present	Mentor and research advisor
Jalen Ramos	Creighton University/Summer Research Intern	May 2023 – Aug. 2023	Mentor and research advisor
Kainoa Maruoka	Brown University	May 2023 – Aug. 2023	Mentor and research advisor
Jonas Yee	UHM; Post-baccalaureate	July 2022 – present	Mentor and co-supervisor
Braden Kunihiro	UHM/Biology; Post-baccalaureate	July 2022 – present	Mentor and research advisor
Felix Pidlaoan	UHM/Biology; Post-baccalaureate	July 2022 – June 2023	Mentor and research advisor
Andie Conching	Dartmouth College; Post-baccalaureate	July 2020 – June 2021	Mentor and research advisor
Kiana Tector	UHM/Nutrition	Sept. 2019 – June 2021	Mentor and research advisor
Noelle Rubas	UHM (Clin Res)/Post-bac; MSCR	Sept. 2019 – June 2021	Mentor and research advisor
Hi‘ilani Hopkins	Dartmouth College (summer student)	April 2020 – Sept. 2020	Mentor and research advisor
Micah Char	Chapman University	Sept. 2020 – May 2021	Mentor and research advisor
Rosa Lee	UHM/Biology; Post-baccalaureate	Dec. 2019 – present	Mentor and research advisor
Braden Kunihiro	UHM/Biology; INBRE SRE Program	Sept. 2019 – May 2022	Mentor and research advisor
Dong Yoon Kim	UHM/DNHH Summer Research Institute (SRI) student Maunakea lab	June 2019 – Aug. 2019	Mentor and research advisor
Chauncey Canyon	UHM/DNHH Summer Research Institute (SRI) student Maunakea lab	June 2018 – Aug. 2018	Mentor and research advisor
Eddy Leung	UHM/Honors Program in Ndhlovu lab	Sept. 2015 – Jan. 2017	Research advisor
Kekaihalai Avilez	UHM/Honors Program in Maunakea lab	Jan. 2013 – May 2014	Mentor and research advisor
Kyle Nakatsuka	Southern Methodist University/DNHH Summer Research Institute (SRI) student	June – Aug. 2013	Mentor and research advisor
A. Kaipo T. Matsumoto	Harvard University/DNHH Summer Research Institute (SRI) in Maunakea lab	June – Aug. 2014	Mentor and research advisor
Kaahukane Leite-Ah Yo	UHM/DNHH Summer Research Institute (SRI) & Post-baccalaureate fellow	Sept. 2013 – Mar. 2016	Mentor and supervisor
Tiffany Eulalio	UHM/Maunakea lab	Jan. 2015 – April 2016	Supervisor
Felipe Estrada	University of Brazilia/Brazil Scientific Mobility Program, Maunakea lab	May 2016 – Aug. 2016	Research advisor
Nashib Farooqi	Summer Student (INBRE-SRE Program)	June 2015 – Aug. 2015	Mentor and research advisor

HIGH SCHOOL STUDENTS (5):

Name of Mentee	High School	Time Period	Mentorship Role
Elle Sugimoto	Iolani School, Hawaii	Nov. 2023 – Dec 2024	Mentor and research advisor
Nathan Godsey	Phillips Academy	April 2023 – June 2024	Mentor and research advisor
Jaymie Frith	Iolani School, Hawaii	June 2023 – May 2024	Mentor and research advisor
Ming-Hao Lee	Iolani School, Hawaii	June 2022 – May 2023	Mentor and research advisor
Sean Cottrell	Iolani School, Hawaii	July 2021 – May 2022	Mentor and research advisor

SERVICE (10% FTE)

PROFESSIONAL AFFILIATIONS & MEMBERSHIPS:

2020 – present	Member, Sigma Xi, Scientific Research Honorary Society
2019 – present	Member, London Journals Press editorial board
2012 – present	Member, University of Hawai'i Professional Assembly
2006 – present	Member, New York Academy of Sciences
2003 – present	Associate Member, American Association for Cancer Research
2001 – present	Member, Phi Sigma Honorary Biology Society
2009 – 2012	Member, NIH Fellows Committee, NHLBI, NIH
1998 – 2001	Member, American Society for Microbiology

EDITORIAL & SCIENTIFIC PEER-REVIEW SERVICES:

2024	co-Organizer, Maui Wildfire Exposure Study and Registry Workshop, Enhancing Resilience: Building Sustainable Health Registries for Disaster-Affected Communities, Maui, Hawaii (12/4-7)
2024	<i>ad hoc</i> grant reviewer: 2025/01 ZDK1 GRB-6(J1) 1 RC2 application (10/02)
2022 – 2023	co-Organizer, Sixth Annual Native American Nutrition Conference, Minnesota
2023	<i>ad hoc</i> grant reviewer: 2024/01 ZDK1-GRB-6(J1)1 RC2 application (11/02)
2022	<i>ad hoc</i> grant reviewer: NIH/NIMH Urgent Award: COVID-19 Mental Health Research 2023/01 Council ZMH1 ERB-M M1 S (10/25)
2022	Invited external examiner, Master's student thesis, University of Cape Town
2022	Invited grant reviewer: Health Research Council of New Zealand
2022 – present	Guest editor for special topic “COVID-19 Disparities and Vaccine Equity”, <i>Vaccines</i> (co-organized)
2021 – present	Editorial board member, <i>Differentiation</i>
2021 – present	Editorial board member, <i>International Journal of Epigenetics</i>
2021 – present	Editorial board member, <i>Frontiers in Bioscience-Landmark</i>
2021	Guest editor for special topic “The biological impact of adversity on cardiovascular disease risk and obesity”, <i>Frontiers in Cardiovascular Medicine</i> (co-organized)
2020 – present	NIH/NIAID COVID-19 Prevention Network, Native Experts Panel
2020	<i>ad hoc</i> grant reviewer: NIH RCMI-U54, Review Group ZMD1 XLN (A1), NIMHD (6/6-8)
2019	Grant reviewer, NIH Pioneer Award, Stage 1, NIH, Bethesda, MD
2018 – 2022	Standing member, Molecular Neurogenetics (MNG) Study Section, NIH, Bethesda, MD
2018 – 2019	Guest editor for special topic “Epigenetic Plasticity in Brain Development and Function”, <i>Frontiers in Genetics</i> (co-organized)
2018	<i>ad hoc</i> grant reviewer: Social Epigenomics Special Emphasis Panel/Scientific Review Group 2018/05 ZRG1 PSE-H (55) R, Study Section, NIH, Bethesda, MD (3/27)
2017	<i>ad hoc</i> grant reviewer: Special Emphasis Panel, Population Sciences and Epidemiology IRG, Study Section, NIH, Bethesda, MD (11/7)
2017	<i>ad hoc</i> grant reviewer: Molecular Neurogenetics Study Section, NIH, Bethesda, MD (2/16-17)
2017	Invited grant reviewer: Welcome Trust, London, UK
2014 – 2015	Invited grant reviewer: MRC, London, UK
2014 – 2016	Invited grant reviewer: Hawaii Community Foundation, Honolulu, HI
2014 – present	Invited grant reviewer: RTRN Small Grant Application, JABSOM, Honolulu, HI
2014 – 2018	Member/Reviewer: Ethics and Scientific Committee for the UH Biorepository, JABSOM
2003 – present	Served as referee or invited reviewer for several scientific journals including: PeerJ, <i>Vaccines</i> , <i>Frontiers in Psychology</i> , PLoS ONE, <i>Clinical Epigenetics</i> , <i>Cancer Research</i> , <i>Proceedings of the National Academy of Sciences</i> , PLoS Biology, <i>Epigenetics</i> , <i>Genes & Development</i> , <i>Scientific Reports</i> , <i>Nature Genetics</i> , <i>Nature Communications</i> , <i>Cell Research</i> , and others. (On average, 15-20 manuscripts reviewed per year.)

OTHER PROFESSIONAL SERVICES:

2024 – present	Reviewer, Tenure and Promotion Dossiers for UHM
2022 – present	Director, Consortium of Research Advancement Facilities and Training, Center for Precision Nutrition, UHM, Honolulu, HI

2020 – present	Reviewer, Tenure and Promotion Dossiers of faculty outside the University of Hawaii
2020 – present	Co-founder & Chief Scientific Officer, Hawai'i Integrated Analytics (HI'A), Honolulu, HI
2021 – present	Advisor, Internal Advisory Board, National Cancer Institute (NCI) Partnership to Achieve Community Health Equity grant, University of Hawaii Cancer Center, HI
2020 – present	Advisor, Office of Indigenous Innovation, UH, Honolulu, HI
2019 – 2022	Member, council of Vice Chancellor for Research/Provost, UHM, Honolulu, HI
2018 – present	Member, University of Hawaii Cancer Center, Honolulu, HI
2013 – present	Director, Epigenomics Core Facility, UHM, Honolulu, HI
2013 – 2018	Member, Scientific Advisory Committee, Center for Native & Pacific Health Disparities Research, UHM, Honolulu, HI
2014 – 2017	Member, Board of Directors, Autism Society of Hawai'i, Honolulu, HI
2014 – 2016	Scientific Consultant, Ponce School of Medicine and Health Science, Puerto Rico
2012 – 2013	Scientific Consultant, Biotechnology Advisory Committee, Kamehameha Schools Bishop Estate, Honolulu, HI
2012 – 2013	Co-chair, DNHH Faculty Development Series Works in Progress, Honolulu, HI
2012	Member, Health & Human Services NHPI Workgroup, Washington D.C.

COMMUNITY AFFILIATIONS & MEMBERSHIPS:

2017 – 2020	Secretary, Executive Board of Directors, MA'O Organic Farms, Wai'anae Community Re-Development Corporation, Waianae, HI
2015 – 2019	Member, Board of Directors, Kanaka 'o Puna, Men of PA'A, Hilo, HI
2011 – 2016	Member, Board of Directors, MA'O Organic Farms, Wai'anae Community Re-Development Corporation, Waianae, HI
2006 – present	Member, Hale O Nā Ali'i, Honolulu, HI
2010 – 2012	Member, Hawaiian Civic Club Hawai'i State Society of Washington D.C.

COMMUNITY PRESENTATIONS & SERVICES:

2024	Co-Organizer, MauiWES Wellness Fest 2024, Maui, HI
2017 – present	Speaker, MA'O Organic Farms, Ola (Health) Wednesday (1 day/month), Wai'anae, HI
2019	Invited judge, Summer Research Internship Symposium, Hawaii Pacific Neuroscience, Honolulu
2019	Speaker, MA'O CBPR Report, Wai'anae Coast Comprehensive Health Center, Wai'anae, HI
2019	Maunakea lab tour guide, MA'O Organic Farms internship program, Honolulu, HI
2018	Maunakea lab tour guide, MA'O Organic Farms internship program, Honolulu, HI
2017 – 2019	Invited judge, Science Fair, Kamehameha Schools, Honolulu, HI
2017	Invited judge, Science Fair, McKinley High School, Honolulu, HI
2015 – 2017	Invited judge, JABSOM Biomedical Science Symposium Graduate Student Poster Sessions, Honolulu, HI
2013 – 2016	Maunakea lab tour guide, Nā Pua No'eau scholars/high school students state-wide, Honolulu, HI
2016	Invited speaker, Sigma Xi Annual Banquet and Lecture, Gene-Environment Interactions in Diabetes, Honolulu, HI
2016	Mentor, Brazil Scientific Mobility Program, Honolulu, HI
2016	Invited faculty mentor, Ho'oulu STEM Scholars Orientation, Field Mentor Session, Chaminade University, Honolulu, HI
2015	Invited panelist, Health Disparities: Determinants, Mechanisms, and Action, Hawai'i Public Health Association Conference, Honolulu, HI
2014	Invited lecturer on Cancer Epigenetics, UHCC Cancer Center Student Internship Program, Honolulu, HI
2014	Invited <u>keynote speaker</u> , Association of Hawaiian Civic Club 55 th Annual Convention, Waikoloa Beach Resort, Kona, HI
2014	Invited speaker, He Huliau Conference, Community-Academic Partnerships for Pacific Health Equity, Aulani, Ko Olina, HI

2014	Invited speaker, Huliko‘a Kaiāulu Series, Community Learning Center, Nānākuli, HI
2014	Invited panelist, Oceanic Connections: Redefining Indigenous Pacific Relations, UH, Honolulu, HI
2014	Invited judge, Science Fair, Kamehameha Schools, Honolulu, HI
2013	Invited speaker, Sustainability Academy, Nānākuli High and Intermediate School, Nānākuli, HI
2013	Invited participant, KMI/Hui ‘Aina Momona Site Visit, Moloka‘i, HI
2013	Invited participant, It Takes A Village: Re-imagining School & Community Partnerships, UH-West O‘ahu, Kapolei, HI
2013	Invited judge, Science Fair, Kamehameha Schools, Honolulu, HI
2012	Invited speaker, Kauhale ‘o Wai‘anae, Indigenous and Sustainable Workforce Fair, MA‘O, Wai‘anae, HI

SPECIAL RECOGNITION & LINKS TO COMMUNITY OUTREACH ACTIVITIES:

- 2015 Hawai‘i Business Magazine, *20 for the next 20*, honoree: <http://www.hawaiibusiness.com/20-for-the-next-20-2015/2/>
- 2015 Honolulu Magazine, *Hawaii’s Top Doctors*, honoree: <http://www.honolulumagazine.com/Honolulu-Magazine/September-2015/Doctors-Who-Make-a-Difference-in-Hawaii/index.php?cparticle=3&siarticle=2>
- OZY magazine report: <http://www.ozy.com/rising-stars/alika-maunakea-hawaiis-doctor-is-in/63296>
- Autism research news report: <https://www.youtube.com/watch?v=3ZBoXdta3jY>
- <http://jabsom.hawaii.edu/health-disparities-multi-disciplinary-uh-researchers-and-community-members-will-root-out-causes-and-implement-solutions-together-in-new-23m-ola-hawai-i-grant/>
- <https://www.civilbeat.org/2019/07/changing-old-habits-yields-health-benefits-at-mao-farms-in-waianae/>
- <https://www.kitv.com/story/40096735/mao-farms-a-60-improvement-in-diabetes-risk-found-in-a-study-done-by-uh>
- <https://www.hawaiiistar.com/2019/02/farm-data-shows-60-percent-improvement-in-diabetes-risk/>
- <https://scsb.mit.edu/past-events/integrative-epigenomic-analyses-support-the-early-developmental-origin-of-autism-spectrum-disorders/>
- <https://www.hawaiipublicradio.org/post/epigenetics-study-wai-anae#stream/0>
- <https://www.hpr2.org/post/conversation-thursday-february-15th-2018#stream/0>
- <https://www.hawaii.edu/news/2018/01/02/social-economic-forces-impact-waianae-health/>
- <https://www.hawaiipublicradio.org/the-conversation/2021-08-09/university-of-hawaii-grant-diabetes-native-hawaiians-pacific-islanders>
- <https://www.hawaiipublicradio.org/local-news/2022-07-11/covid-vaccine-hesitancy-among-native-hawaiians-pacific-islanders>
- Featured in the national K-8 Textbooks Career Chapter Opener (Big Ideas Learning), 2022-2023
- <https://www.hawaii.edu/news/2023/11/01/4m-nih-pono-health-legacy-study/>
- <https://www.hawaiinewsnow.com/2024/01/04/uh-manoa-researchers-seek-1k-participants-study-health-impacts-maui-wildfires/>
- <https://www.staradvertiser.com/2023/12/11/hawaii-news/uh-center-for-indigenous-innovation-and-health-equity-gets-2m-award/>
- <https://kauainownews.com/2023/04/14/gut-bacteria-linked-to-mental-health-other-disease-risks-per-university-of-hawaii/>
- <https://spectrumlocalnews.com/hi/hawaii/education/2023/10/11/uh-receives--10-9m-grant-to-fund-genome-research>
- <https://www.hawaiitribune-herald.com/2023/03/31/hawaii-news/study-seeks-to-identify-early-signs-of-diabetes-among-native-hawaiians/>
- <https://www.staradvertiser.com/2023/12/22/hawaii-news/uh-manoa-study-to-examine-health-effects-of-maui->

[wildfires/](#)

- <https://www.mauinews.com/news/local-news/2024/01/uh-manoa-launches-maui-wildfire-health-study-and-invites-participants-to-join/>
- https://www.kitv.com/news/lahaina/researchers-host-recruitment-events-for-study-analyzing-health-impacts-of-maui-wildfires/article_d6b161e6-bcaa-11ee-b121-6b5be7f629c5.html