

April 20-21 2017

SULLIVAN CONFERENCE CENTER
UNIVERSITY OF HAWAI'I CANCER CENTER

BIOMEDICAL SCIENCES AND HEALTH DISPARITIES RESEARCH SYMPOSIUM

PRESENTED BY



**LIST OF POSTERS 2017
Biomedical Sciences and Health Disparities Symposium
April 20-21, 2016
John A. Burns School of Medicine**

Key to Abbreviations

ANAT-Anatomy, Biochemistry and Physiology
BDMC-Biostatistics and Data Management Core
CCR-Center for Cardiovascular Research
CMB-Cell and Molecular Biology
DRB-Developmental and Reproductive Biology
HPU-Hawaii Pacific University
IBR-Institute for Biogenesis Research
KCC-Kapiolani Community College
LCC-Leeward Community College
NHH-Native Hawaiian Health
PBRC-Pacific Biosciences Research Center
PH-Public Health Sciences
QMC-Queen's Center for Biomedical Research
TRMD-Tropical Medicine, Medical Microbiology and Pharmacology
UHCC-University of Hawai'i Cancer Center
UHMC-University of Hawai'i Maui College
WCC-Windward Community College

Presenters	Sponsor	Department
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FACULTY

Ji-Young An, PhD	Claudio Nigg	PH
<i>Abstract: A predictive model of risk factors for adolescent suicide applying decision tree analysis of social media data</i>		
(Co-authors: Juyoung Song, PhD, Taemin Song, PhD Fernando Martin-Sanchez, PhD, Claudio R. Nigg, PhD)		

Hong-Ru Chen, MD	IBR/OB/GYN
<i>Abstract: Pregnancy risk assessment of commonly prescribed blood pressure medications using mammalian stem cell test</i>	
(Co-author: Yusuke Marikawa, PhD)	

Andrea H. Hermosura, PhD	NHH
<i>Abstract: Utilizing the community-based participatory research approach to develop a non-technical skills training program to reduce racial and ethnic disparities in surgical outcomes</i>	
(Co-author: Todd Seto, MD)	

Mukesh Kumar, PhD	TRMD
<i>Abstract: Zika Virus-associated microcephaly in Hawaii</i>	
(Co-authors: Marian Melish and Vivek R. Nerurkar)	

Eunjung Lim, PhD	CIM
<i>Abstract: Racial and ethnic disparity in mental health service utilization among Hawaii Medicaid population</i>	
(Co-authors: Krupa Gandhi, MPH, Chathura Siriwardhana, PhD, James Davis, PhD, &John J Chen, PhD)	

Alika K. Maunakea, PhD
NHH
Abstract: Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders
(Co-authors: Michael J. Corley, Alina PS Pang, Annette Lum-Jones, Dongmei Li, Vedbar Khadka, Robert J. Blanchard, D. Caroline Blanchard)

Lucia A. Seale
CMB
Abstract: Metabolomics profiling of the liver of the selenocysteine lyase knockout mouse
(Co-authors: Herena Ha, Ashley N. Ogawa-Wong, Ann C. Hashimoto, Wei Jia, Guoxiang Xie, Marla J. Berry)

MEDICAL FELLOWS

Eleanor R. Hastings, MD Kamal Masaki Geriatrics
Abstract: Late-life handgrip strength predicts incident stroke: The Kuakini Honolulu Heart Program
(Co-Authors: Randi Chen, MS; G. Webster Ross, MD; Robert Abbott, PhD; Helen Petrovitch, MD; Aida Wen, MD; Cody Takenaka, MD; Bruce Tamura, MD; Kamal Masaki, MD)

Angel Kirkham, MD Kamal Masaki Geriatrics
Abstract: Slow gait speed as a predictor of mortality in elderly Japanese-American men: The Kuakini Honolulu Heart Program
(Co-authors: Randi Chen, MS; Bradley Willcox, MD; Samina Ahsan, MD; Karen Lubimir, MD; Pia Lorenzo, MD)

Corey J. Lum, DO Todd Seto/Ralph Shoheit CCR/Medicine
Abstract: The cost-benefit balance of statins in Hawai'i: A Moving Target
(Co-authors: Kazuma Nakagawa, M.D., Ralph V. Shoheit, M.D., Todd B. Seto, M.D., M.P.H., and Deborah A. Taira, Sc.D.)

Saiud Hasib Sana, MD Kamal Masaki Geriatrics
Abstract: Development and evaluation of a quality assurance and process improvement curriculum using the INTERACT program.
(Co-Authors: Aida Wen, MD; Cody Takenaka, MD; Peter Fish, MD; James Templeman, MD; Ishrat Jahan, MD; Angel Kirkham, MD; Eleanor Hastings, MD; Seabrook Mow, MD; Kamal Masaki, MD)

Ryan Schlueter, DO Burlingame, Janet, OB/GYN
Abstract: Title: Correlation of maternal weight gain intervals and risk of stillbirth in term pregnancy
(Co-Authors: Hyeong Jun Ahn, So Yong Choi, Janet Burlingame)

Ryan Schlueter, DO Lana Garmire, OB/GYN
Abstract: Title: Metabolomics analysis of umbilical cord blood associated with maternal obesity: pilot results
(Co-authors: Garmire L, Benny P, Al-Akwaaa F, Gurary A)

Jonathan L. Sladky, MD Andrew Nichols Sports/Family Medicine
Abstract Title: Screening for atlantoaxial instability in down syndrome: current practices and opinions of academic primary care sports medicine specialist physicians
(Co-authors: James R. Templeman, MD, Kamal Masaki, MD) Geriatrics

James R. Templeman, MD Kamal Masaki Geriatrics

Abstract: Low ankle-brachial index and risk of cognitive decline in elderly Japanese-American men: The Kuakini Honolulu-Asia Aging Study

(Co-Authors: Randi Chen, MS; Robert Abbott, PhD; G. Webster Ross, MD; Helen Petrovitch, MD; Lenore Launer, PhD; Michiko Inaba, MD, PhD; Lauren Okamoto, MD; Matthew Uechi, MD; Kamal Masaki, MD)

Kelly S. Yamasato, MD G. Bryant-Greenwood OB/GYN

Abstract: Human relaxins (RLNH1, RLNH2), their Receptor (RXFP1), and fetoplacental growth.

(Co-authors: Pai-Jong Stacy Tsai, James Davis, Sandra Y. Yamamoto, Gillian D. Bryant-Greenwood)

RESIDENTS

Nobuhiro Ariyoshi, MD Gehan Devendra, Internal Medicine

Abstract: Clinical prediction rule for drug-resistant organisms in hospitalized patients with pneumonia

(Co-authors: Ivy Melgarejo, MD, Dominic Chow MD, Masayuki Nogi MD)

Nishal Brahmhatt, MD Kamal Masaki, Internal Medicine

Abstract: Evaluating the effect of a wellness curriculum on overall resident well-being and burnout.

(Co-Authors: Nani Morgan MD, Michael Tom MD, Kamal Masaki MD)

Therese Posas-Mendoza, MD Robert Hong/Diane Tran Internal Medicine

Abstract: Evaluating the effect of a wellness curriculum on overall resident well-being and burnout.

University of Hawaii Internal Medicine Residency Program

(Co-Authors: Nani Morgan MD, Michael Tom MD, Kamal Masaki MD)

Faye Tachibana, MD Jonathan Dworkin, Medicine

Abstract: A rare case of eysipelothrix rhusiopathiae aortic bioprosthetic valve endocarditis

(Co-authors: Nattawat Klomjit, MD, Jonathan Dworkin, MD)

Tanawan Riangwiwat, MD Medicine

Abstract: Neuroendocrine tumor: A rare cause of refractory hypokalemia.

(Co-authors: Nattawat Klomjit, MD, Ma Clarisse Toledo Santos, MD)

MEDICAL STUDENTS

Justin Cheng, MS Fereydoun Don Parsa Surgery

Abstract: Humanized murine model for excisional wound healing with improved analysis of healing using K14 transgenic mice

(Co-authors: J. Cheng, M.S. Hu, T. Leavitt, G.G. Walmsley, E.R. Zielins, W. Hong, D. Duscher, B. Stephan, F.D. Parsa, D.C. Wan, G.C. Gurtner, H.P. Lorenz, M.T. Longaker)

Jayden M. Galamgam Takashi Matsui Medicine

Abstract: Calcium-mediated effects of cardiomyocyte cell-to-cell death in an in vitro model of ischemia-reperfusion injury

(Co-authors: Yuichi Baba MD, Dustyn Uchiyama BS, and Takashi Matsui MD PhD)

Trudy Hong Scott Lozanoff Anatomy

Abstract: Use of augmented reality tools in anatomy education

(Co-authors: Kaori Tamura, Jesse Thompson, Beth K. Lozanoff, Steven Labrash, Takashi Matsui, Scott Lozanoff)

- Thomas J. K. Kane Byron Izuka Medicine
Abstract: Live in-office video recording of pediatric cast care instructions: Caregiver satisfaction and lessons Learned; study performed at The Mary Savio Medical Plaza in association with Hawaii Pacific Health
 (Co-authors: Byron Izuka M.D, Nick Scarcella M.D, Christina Wu)
- William G. Lee Takashi Matsui ANAT
Abstract: Histological assay reveals unique fibrotic changes in the septum of hypertrophic cadaveric hearts
 (Co-authors: Yuichi Baba, MD, Briana K. Shimada, BA, Jason K. Higa, PhD, Ari AuWinitzky, MSc, Scott Lozanoff, PhD, and Takashi Matsui, MD, PhD)
- Amy Li Kamal Masaki Geriatrics Medicine
Abstract: Elucidating the role of FUS and its interaction with the tau tubulin kinases 1 and 2 (TTBK1/2) in neurodegenerative diseases
 (Co-authors: Laura M. Taylor, Brian C. Kraemer)
- Carlthan Ling Sumodh Kalathil Medicine
Abstract: Comparative analysis of risk factors in hepatocellular carcinoma patients with variable degree of liver fibrosis
 (Co-authors: Linda Wong, Eunjung Lim, John Chen)
- Kiyonari Noguchi Takashi Matsui ANAT/CCR
Abstract: mTOR deletion impairs cardiomyocyte contraction and calcium handling
 (Co-author: Briana Shimada, BA)
- Michele S. Saruwatari Justin Young Primary Care/Sports Medicine
Abstract: Survey of current attitudes and practices of serum ferritin monitoring in collegiate athletes by primary care sports medicine fellowship program directors
 (Co-authors: Justin Young, MD; Andrew Nichols, MD)
- Justin D. Shortell Kamal Masaki Geriatric Medicine
Abstract: Relationship between sociodemographic factors and Graves' Orbitopathy – work done at University of North Carolina School of Medicine
 (Co-authors: Ashley Oskardmay, Jeff Laux PhD, Y. Claire Yang PhD, David Chesnutt MD)
- Jamie Takayesu Kamal Masaki Geriatric Medicine
Abstract: Outcomes of stereotactic body radiation therapy for primary hepatocellular carcinoma
 (Co-authors: Jeffrey Burkeen MD, Daniel Simpson MD, Jona Hattangadi-Gluth MD)
- Nash Witten Joseph Humphry Family Medicine
Abstract: The role of technology enabled care in a remote Hawaiian community: Lana'i
 (Co-author: Joseph Humphry, MD)
- Jonathan Woo Takashi Matsui ANAT/CCR
Abstract: Cell-to-cell propagated clustering of dead cells in cardiomyocytes exposed to an iron-dependent trigger of cell death
 (Co-authors: Yuichi Baba MD, Takashi Matsui, MD, PhD)

POST-DOCTORAL FELLOWS

Fadhl Alakwaa Lana Garmine CC/OB/GYN/MBBE
Abstract: Deep Learning predicts breast cancer estrogen receptor status from metabolomics data

Komal Arora Robert Nichols CMB
Abstract: Transcriptome profile of nicotinic receptor-linked beta amyloid neurotoxicity
(Co-authors: Mahdi Belcaid and Robert A. Nichols)

Yuichi Baba Takashi Matsui ANAT
Abstract: Protective effects of mTOR against ferroptosis, a form of Iron-dependent regulated cell death, in Cardiomyocytes
(Co-authors: Briana K. Shimada, Kate M. Horiuchi, Jason K. Higa, Tomohiro Suhara)

Paula Benny Lana Garmine UHCC/Epidemiology
Abstract: Differential epigenetic profile analysis in cord blood stem cells from offspring of obese and normal weight mothers in a multi-ethnic cohort
(Co-authors: R. Schlueter, F. Al-Akwaa, Alex Gurary, Annette Lum - Jones, Karolina Peplowska, M. Tiirikainen, L. Garmire)

Sung-Min Kim Yukiko Yamazaki ANAT/IBR
Abstract: Retinoic acid-mediated ERK signaling regulates meiotic initiation in cultured primordial germ cells
(Co-authors: Toshifumi Yokoyama, Ferhat Ulu, Yukiko Yamazaki)

Kumardeep Chaudhary Lana Garmine UHCC
Abstract: Deep Learning based multi-omics integration robustly predicts survival in liver cancer
(Co-authors: Olivier Poirion, Liangqun Lu and Lana X Garmire)

Sara McCurdy William Boisvert CCR
Abstract: CD98hc deficiency impairs macrophage proliferation and reduces atherosclerosis development

Kathryn Schunke Ralph Shohet CCR
Abstract: A novel inhibitor of HIF action
(Co-authors: Karen H. Chang, Chad B. Walton, Ralph V. shohet)

Allison L. Williams Ralph Shohet CCR
Abstract: Ischemic heart injury leads to HIF1-dependent differential splicing of CaMK2g
(Co-Authors: Chad B. Walton, Abigail Avelar, Blake Pinell and Ralph V. Shohet)

RESEARCH ASSOCIATES

Catherine C. Chao Kore Liow HI Pacific Neuroscience
Abstract: Age of patients does not affect the choice of anti-epileptic drug for patients with Epilepsy

Karen H.F. Chang Pamela Tauchi-Nishi QMC
Abstract: Intraoperative H+E and Diff-Quik stained squash and touch preparation cytology of brain lesions: A 20-Year Retrospective Analysis

(Co-authors: Makoto Hamasaki MD, PhD, Kayo Takeda, Kazuki Nabeshima MD, PhD, Pamela Tauchi-Nishi MD)

Krupa Gandhi

John Chen

CIM

Abstract: Racial disparities in health service utilization among Medicare fee-for-service beneficiaries adjusting for multiple chronic conditions.

(Co-authors: Eunjung Lim, PhD; James Davis, PhD; John J. Chen, PhD)

Mylien J. S. Ibarra

Yukiko Yamazaki

ANAT/IBR

Abstract: The effects of amino acids on preimplantation development of In vitro fertilized oocyte in mice

(Co-authors: Yukiko Yamazaki, Ph.D. Co-Investigator: Sung-Min Kim, Ph.D)

ZoeAnn A. Kon

Pamela Tauchi-Nishi

QMC/Pathology

Abstract: Urine cytology and UroVysion fluorescence In-Situ hybridization of renal cell carcinoma.

(Co-authors) Rasleen Saluja, MD, Sayuri Wada, Pamela Tauchi-Nishi, MD

Matt Ohtani

Pamela Tauchi-Nishi

Pathology

Abstract: Primary hrHPV screening: The efficacy of hrHPV screening vs. cotesting utilizing the SurePath Pap/Aptima assay HPV platform

(Co-authors: Andy Cuniberti CT (ASCP), Pamela Tauchi-Nishi MD)

Eun-young Park

Lishomwa Ndhlovu

TRMD

Abstract: Quantifying CCR2 and CCR5 expression in human adipose tissue with real-time PCR

(Co-authors: Ivo SahBandar, Michelle D'antoni, Glen Chew, Lishomwa Ndhlovu.)

Alec M. Sheppard

Kore Liow

HI Pacific Neuroscience St. Francis

Abstract: Does insurance status of patients affect the choice of anti-epileptic drugs for epileptic patients?

(Co-authors: Catherine Chao, Alec Sheppard, Sean Awakuni, Dr. Rhea Alarin, Dr. Renee Del Carmen, Dr. Barbara Pitts, Dr. Kore Liow)

Sayuri Suzuki

Andrea Fleig

QMC/Cell Signaling Lab

Abstract: The kinase domain of TRPM7 channel limits cellular calcium release by regulating heterotrimeric G-proteins

(Co-authors: Annette Lis, Carsten Schmitz, Reinhold Penner, Andrea Fleig)

Elizabeth Tallett

Jane Onoye

Psychiatry

Abstract: Perinatal health issues in Hawai'i: A needs assessment, University of Hawai'i at Mānoa

(Co-Authors: Mika Thompson, BS, Jane Onoye, PhD)

Mika Thompson

Jane Onoye

Psychiatry

Abstract: Examination of maternal alcohol use and related risk factors from a perinatal support services program

(Co-Authors: Jane M. Onoye, Emma Pascal, Donald Hayes, Elizabeth Tallett, BA)

GRADUATE STUDENTS

Mapuana CK Antonio

Kathryn Braun

PH

Abstract: A study of the psychometric properties of a resilience construct in a Native Hawaiian sample

(Co-authors: Earl Hishinuma, Claire Townsend Ing, Adrienne Dillard, Kevin Cassel, B. Puni Kekauoha, Kathryn Braun, Keawe Kaholokula)

Francine F. Azouz Mukesh Kumar TRMD
Abstract: A novel role of Schlafen4 in West Nile virus replication and pathogenesis
(Co-authors: Keeton K. Krause, Lauren Ching, Vivek R. Nerurkar and Mukesh Kumar)

Chantell Balaan Monika A. Ward ANAT/IBR/NHH
Abstract: Juvenile Shank3b deficient mice present with behavioral phenotype consistent with autism spectrum disorders
(Co-authors: Michael J. Corley, Tiffany Eulalio, Ka'ahukane Leite-ahyo, Alina P.S. Pang, Alika Maunakea, Monika A. Ward)

Lauren Ching Vivek Nerurkar TRMD
Abstract: Identification and characterization of the association of circulating biomarkers for diagnosis of Kawasaki Disease
(Co-author: Vivek Nerurkar)

Travers Ching Lana Garmire MBBE
Abstract: Pan-cancer analysis of expressed single nucleotide variants in long intergenic non-coding RNA
(Co-author: Lana Garmire)

Marlee Elston Johann Urschitz CMB/IBR
Abstract: Modeling the impacts of varying levels of placental glucose transport in on fetal growth and offspring health
(Co-authors: Joel Marh, Ilko Stoychev, Haide Razavy, Kainalu Matthews, Vivien Klein)

Michellei C. Fisher Vivek Nerurkar TRMD
Abstract: Epigenetic regulation of human polyomavirus JC replication
(Co-authors: Nelson Lazaga, Priscilla Seabourn and Vivek R. Nerurkar)

Kelly H. Forest Robert Nichols CMB
Abstract: N-Terminal fragment and active core sequence of beta amyloid protects against beta amyloid-induced oxidative stress, apoptosis and memory impairment
(Co-authors: N Alfulajj, K Arora and RA Nichols)

Brent Fujimoto Benjamin Fogelgren ANAT
Abstract: The exocyst complex in insulin stimulated glucose uptake in mouse skeletal muscle cells
(Co-authors: Toshifumi Yokoyama, Ferhat Ulu, Yukiko Yamazaki)

Lauren H. Gardner Peter Hoffmann CMB
Abstract: Structural and functional studies of selenoprotein K
(Co-authors: Michael Marciel, FuKun W. Hoffmann, Peter R. Hoffmann)

Natalija Glibetic Michelle Matter MBBE
Abstract: RRas regulation of a key vascular permeability signaling pathway
(Co-authors: Pavlos Anastasiadis, Lisa Wolter, John Allen, and Michelle Matter)

Ting Gong Marla Berry CMB

Abstract: Role of selenoprotein M in hypothalamic Endoplasmic Reticulum (ER) Stress, leptin signaling and calcium regulation

(Co-authors: Matthew W. Pitts, Marla Berry)

Herena Y. Ha

Lucia A. Seale

CMB

Abstract: Expression and activity of enzymes of selenium metabolism in the selenoprotein P knockout mouse

(Co-Authors: Ann C. Hashimoto, Marla J. Berry)

Sijia Huang

Lana Garmino

UHCC/Epidemiology

Abstract: Novel personalized pathway-based approach reveals key pathways in predicting breast cancer diagnosis and prognosis

(Co-authors: Nicole Chong, Cameron Yee, Nathan E Lewis, Herbert Yu, Guoxiang Xie)

Malina J. Ivey

Michelle Tallquist

CCR/CMB

Abstract: Platelet derived growth factor receptor alpha signaling regulates fibroblast maintenance and activation

(Co-author: Michelle Tallquist)

Charnelle B. Julian

Oliver Le Saux

CMB/MBBE

Abstract: Induced calcification in Abcc6^{-/-} mice changes the expression of genes downstream in the Abcc6 pathway

(Co-authors: Viola Pomozi, Janna Zoll)

Keeton K. Krause

Mukesh Kumar

TRMD

Abstract: A guinea pig model of Zika virus infection

(Mukesh Kumar, Francine Azouz, Eileen Nakano, and Vivek R. Nerurkar)

Jill T. Kuwabara

Michelle Tallquist

CMB/CCR

Abstract: Cardiac fibroblast depletion leads to vascular alterations via extracellular matrix regulation

(Co-author: Michelle Tallquist)

Nelson Lazaga

Vivek Nerurkar

TRMD

Abstract: In vitro rearrangement of urine-derived archetype JC virus

Aileen S. W. Li

Yusuke Marikawa

ANAT

Abstract: Identification of Chst7, a new regulator of gastrulation, using stem cell-based in vitro morphogenesis model

(Co-author: Yusuke Marikawa)

Chloe A. Liu

William Boisvert

MBBE/CCR

Abstract: The role of IL-1R8 in modulating atherosclerotic macrophage inflammation

(Co-authors: Sara McCurdy, William Boisvert)

Michael P. Marciel

Peter Hoffmann

CMB

Abstract: The role of selenoprotein K in progression of metastasis of melanoma

(Co-authors: Pascal Kilicaslan, Andrew Pham, Katie Lee, FuKun Hoffmann, Peter Hoffmann)

- Liana O. Medina Axel Lehrer TRMD
Abstract: Defining correlates of protection in nonhuman primates vaccinated with a recombinant subunit Ebola Vaccine
 (Co-authors: Madhuri Namekar, Teri Ann S. Wong, Michael M. Lieberman, Alexandra Gurary, Thomas W. Geisbert, Axel T. Lehrer)
- Kenji O. Mfuh Vivek Nerurkar TRMD
Abstract: Infectious etiologies of febrile illnesses in Cameroon
 (Co-authors: Olivia A. Achonduh-Atijegbe, Mbakop Calixt, Rose G. Leke, Diane W. Taylor and Vivek . Nerurkar)
- Robert W. Oda Bruce Shiramizu MBBE/TRMD
Abstract: Blood brain barrier integrity compromised by peripheral blood mononuclear cells from HIV-Seropositive individuals
 (Co-authors: Joanna Kettlewell, Nancy Hanks, Cecilia Shikuma, Bruce Shiramizu)
- Ashley N. Ogawa-Wong Marla Berry CMB
Abstract: The effects of castration and testosterone on selenocysteine lyase dependent energy metabolism
 (Co-authors: Ann C. Hashimoto, Lucia A. Seale)
- Egle A. Oetega Monika Ward ANAT/IBR
Abstract: Alterations of sex determination pathway in males with limited Y chromosome gene contribution.
 (Co-authors: Mayumi Fernandez, Quinci Salvador, Monika A. Ward)
- Jourdan K. Posner Sandra Chang TRMD
Abstract: Human B cell subset maturation and activation in response to PRR ligands
 (Co-author: Sandra Chang)
- Bethany J. Sanstrum Nicholas G. James CMB
Abstract: Pharmacological inhibition of LRRK2 kinase activity results in altered spatial organization and protein stability.
 (Co-authors: Brandee Goo, Nicholas James)
- David N. Siemann Saguna Verma TRMD
Abstract: Human Sertoli cells and macrophages sustain productive Zika virus infection and generate robust immune responses: Implications on the integrity of an in vitro blood-testis barrier model
 (Co-authors: Daniel Strange, Payal Maharaj)
- Daniel P.Strange Saguna Verma TRMD
Abstract: Transcriptome analysis of primary human Sertoli cells infected with Zika virus reveals unique host-pathogen interaction
 (Co-authors: David N. Siemann, Richard Green, Michael Gale Jr)
- Daniel P. Strange Saguna Verma TRMD
Abstract: Ebola virus glycoprotein induces an innate immune response in vivo via TLR4
 (Co-authors: Chih-Yun Lai, Teri Ann S. Wong, Axel T. Lehrer)
- Ruth M. Taketa Robert Nichols CMB
Abstract: The effects of an N-terminal fragment and core sequence within beta amyloid on MAPK-linked toxicity pathway

(Co-authors: K Forest and RA Nichols)

Samuel Tassi Yunga Diane W. Taylor TRMD
Abstract: Fetal origins of increased susceptibility to malaria during the first year of life: the amount of exposure to Plasmodium falciparum in utero is crucial.
(Co-authors: Samuel Tassi Yunga, Genevieve G.A. Fouda, Naveen Bobbili, Grace Sama, Jean Bopda, Jude D. Bigoga, Rose G.F. Leke, Diane W. Taylor)

Albert To Axel T. Lehrer TRMD
Abstract: Development of a recombinant Zika virus vaccine based on insect cell expressed subunits
(Co-authors: Liana Medina, Kenji Mfuh, Teri Ann Wong, Madhuri Namekar, Elizabeth Nakano, Mukesh Kamar, Vivek Nerurkar, Axel Lehrer)

Albert To Axel T. Lehrer TRMD
Abstract: Defining a multivalent vaccine against hemorrhagic fever viruses based on insect cell expressed recombinant subunits
(Teri-Ann S. Wong, Madhuri Namekar, and Dr. Michael M. Lieberman)

Michelle H. Tong Claudio Nigg PH
Abstract: Spectrum of drug usage in Hawai'i.
(Co-author: Emilee H. Turner)

Daniel J. Torres Frederick Bellinger CMB
Abstract: Role of selenosystine P in dopaminergic transmission and modulation by methamphetamine
(Co-authors: Stephanie M. Barayuga, Rachel H.L.H. Rueli, Catherine C. Chao, David M. Hedges, Nathan D. Schilaty, Jordan T. Yorgason, Marilou A. Andres, Scott C. Steffensen and Frederick P. Bellinger)

Alanna C. Tseng Pakieli Kaufusi MBBE/TRMD
Abstract: WNV NS2B regulates the intracellular localization of multifunctional NS3 protein in initiating viral replication
(Co-authors: Pakieli Kaufusi, Vivek Nerurkar)

Emilee H. Turner Claudio Nigg PH/Psychology
Abstract: Recent rates of prescription drug abuse in Hawai'i
(Co-author: Michelle Tong)

Jasmine M. Tyson Wei-Kung Wang TRMD
Abstract: Expression and purification of premembrane protein of dengue virus and Zika virus in drosophila cells
(Co-author: Wen-Yang Tsai)

Ross Villiger Unhee Lim CMB/UHCC
Abstract: Association of sex-hormone binding globulin (SHBG) with hepatic adiposity in multiethnic postmenopausal women
(Co-authors: Adrian Franke, Loic Le Marchand, Unhee Lim)

Erica L. Warkus Yusuke Marikawa ANAT/DRB
Abstract: A morphology-based assay to identify potential teratogens in vitro
(Co-author: Yusuke Marikawa)

Jonathan K. T. Yap William Boisvert CMB
Abstract: Over-expression of citotriosidase modulates atherosclerosis-related macrophage function
(Co-authors: William Boisvert, Shiro Kitamoto, Sara McCurdy, Jan Garo, Whitney Regan, Martin Alcalá)

Han Ha Youn Wei-Kung Wang TRMD
Abstract: Expression and purification of non-structural protein 1 (NS1) of dengue virus and Zika virus in drosophila cells
(Co-author: Wen-Yang Tsai)

Xun Zhu Lana Garmire MBBE/UHCC
Abstract: Granatum: A graphical single-cell RNA-seq analysis pipeline for genomics scientists
(Co-author: Lana Garmine)

UNDERGRADUATES

Jovikka C. Antallan John Berestecky KCC/Biotechnology
Abstract: Isolation and characterization of mouse antibody V-Regions
(Co-authors: John Berestecky, Alan Garcia, Matthew Tuthill)

Samantha L. Avina, & Mohammed Mansour F. David Horgan HPU
Abstract: Scaling-up undergraduate research experiences: Extraction and purification of isomalgamide A, malygamide B, and majusculamide A from Hawaiian cyanobacterium
(Co-author: F. David Horgan)

Jonathan Botticelli Lisa Kaluna UH Hilo/Pharmacy
*Abstract: Quantification of *Angiostrongylus cantonensis* in *Parmarion martensi* and *Veronicella cubensis* of east Hawai'i Island*
(Co-authors: Lisa Kaluna, Kathleen Howe, Michael Severino, Robert McHugh and Susan Jarvi)

Andrea Cadelina Dick Teshima Med Technology
Abstract: Degenerative changes in blood cell morphology as EDTA samples age
(Co-authors: Wang Lio, Jennifer Lum, Amber Tarango, Youneun Choi, Nikolas Butrick, Dick Y. Teshima)

Andrew Chang Katalin Csiszar Medicine
Abstract: Anti-inflammatory cellular targets of 'Uhaloa, a native Hawaiian medicinal plant
(Co-authors: Maria Petelo, Lindsey Watanabe, Kimberli Kahaleua, Rozalia Laczko, Katalin Csiszar)

Milly L. Chang Leticia Colmenares WCC/Natural Sciences
*Abstract: Isolation, identification, and antioxidant activity of Coronarin D, Coronarin D Methyl Ether, and Coronarin E in *Hedychium coronarium**
(Co-authors: Erin Pender, Traci Aiwohi, and Leticia Colmenares)

Lisa Cheng John Berestecky KCC/Microbiology
*Abstract: High throughput approach to compare the adherence phenotype of two distinct morphologies of *Campylobacter jejuni**
(Co-authors: Meihui He, John Berestecky)

- Mason K. Chock Sharad P. Marahatta Kauai CC/Math&Science
Abstract: Effects of sunn hemp (Crotalaria juncea) amendment on nematode community structure in breadfruit (Artocarpus altilis) producing systems
 (Co-author: Sharadchandra P. Marahatta)
- Christopher D.H. Chow Susana Helm PH/Psychitry
Abstract: Promoting Access to Mental Health Resources among Hawai'i's Health Professionals,
 (Co-authors: Susana Helm, Judy Chung, and Erika Jang)
- Celeste K. L. Cravalho & Dyloon Goodson Gideon Berger HPU/Natural& Computational Sciences
Abstract: Semi-synthetic modification of TRPM7 modulator, waixenicin A & Synthesis of complex ring systems using oximes ether tethers in intramolecular Diels Alder reactions
 (Co-authors: David Horgen, Gideon Berger)
- Nghi T. Dam John Berestecky KCC/Microbiology
Abstract: Sequencing of monoclonal antibody binding sites directed against bacterial pathogens
 (Co-authors: John Berestecky, Matthew Tuthill, Alan Garcia, Brien Haun)
- Crystal DaSalla Sue Jarvi UH Hilo/Pharmacy
Abstract: Documentation of multiple stages of Angiostrongylus. cantonensis in wild rats (Rattus sp.)
 (Co-authors: Susan Jarvi, Stefano Quarta, Steven Jacquier, Kathleen Howe, Deniz Bicakci, Robert McHugh, Noelle Lovesy, Kirsten Snook)
- Donovan D. Delgado Nicholas James CMB/Psychology
Abstract: Characterizing the efficacy of LRRK2 kinase inhibitors in live SH-SY5Y dopaminergic-like cells for novel Parkinson's disease therapeutics
 (Co-authors: Bethany Sanstrum, Brandee M Goo, Diana Holden, Nicholas James)
- John Carlo Doronio Richard Allen/Peter Fisher UHMC
Abstract: Separation of acetylated and non-acetylated Beta-endorphins by Reversed-Phase High Performance Liquid Chromatography (RP-HPLC)
 (Co-authors: Paige E. Herrin, Rachel M. Marsh)
- Norma-Jean Driscoll Kabi Neupane/Helmut Kae LCC/Math & Science
Abstract: Microbial Diversity Found in Sumida Watercress Farm and Waimalu Stream
 (Co-author: Keisha Rivera)
- Tiana L. Elisara Vivek Nerurkar TRMD
Abstract: Comparison of commercially available Zika Virus serodiagnostic assays
 (Co-authors: Lauren Ching, Mukesh Kumar, Joshua Astern)
- Michael D. Faundo Axel Lehrer TRMD
Abstract: Expression of recombinant glycoproteins of a recently identified mole-borne Hantavirus using stably transformed insect cells
 (Co-authors: Richard Yanagihara, Albert To, Axel T. Lehrer)
- Dallas Freitas Dana-Lynn Ko'omoa-Lang UH Hilo/Pharmacy
Abstract: Aberrant calcium signaling in neuroblastoma
 (Co-author: Dana-Lynn Ko'omoa-Lang)
- Mayumi Fernandez Monika Ward ANAT/IBR

Abstract: Partial feminization of testes from mature males lacking Y chromosome genes originate from impairment in sex determination during fetal development
(Co-authors: Eglé A. Ortega, Monika A. Ward)

Michael Fernandez Diane Taylor TRMD
Abstract: Molecular characterization of Hepatitis C Virus in Yaoundé, Cameroon.
(Co-authors: Yukie Lloyd-Sato, Kenji Obadiah Mfuh, Vivek R. Nerurkar, Richard Njouom)

Gabrielle Gonzales & Brooke Pereda F. David Horgen HPU
Abstract: Scaling-up undergraduate research experiences: Extraction and purification of interruptins A and B from Cyclosorus interruptus for submission to the National Institutes of Health Small Molecule Repository
(Co-author: F. David Horgen)

Gabrielle K. Gregorio Axel Lehrer/Lishomwa Ndhlovu TRMD
Abstract: Cloning, expression and purification of Marburg virus VP40 and Sudan virus VP40
(Co-authors: Albert To, Madhuri Namekar, Teri Wong, Liana Medina, Lishomwa Ndhlovu, Axel Lehrer)

Rachel A. Gristock Aaron Jacobs UH Hilo/Pharmacy
Abstract: Role of c-Myc in regulation of MAP kinase signaling and apoptosis.
(Co-author: Christina Wales)

Jeannie Ho Keith S. K. Fong ANAT
Abstract: Regulating TET enzymes to promote the expression of Grh12 in preventing cranial neural tube defects
(Co-author: Keith S. K. Fong)

Diana Z. Y. Holden Nicholas James CMB/Chemistry
Abstract: LRRK2 kinase inhibitors as a potential drug therapy for Parkinson's disease
(Co-authors: Bethany J. Sanstrum, Brandee M.S.S. Goo, Nicholas G. James)

Yuko Imaizumi Linda Connelly UH Hilo/Pharmacy
Abstract: Investigating how macrophages and adipocytes influence breast cancer metastasis using the chick embryo model
(Co-authors: Kayuri Kadoya, Stephanie Tsang Mui Chung, Ashleigh Renaud and Linda Connelly)

Brendan S. Ito Yongli Chen HPU/Natural Sciences
Abstract: Ethosuximide and Normethsuximide potentiates $\alpha 1\beta 3\gamma 2$ GABAA Receptors (GABAARs) and alleviates pentylenetetrazol (PTZ)-mediated inhibition in a pharmacological model of absence seizures
(Co-authors: Akimasa Iijima, Yongli Chen)

Kirk S. Johnson John Berestecky KCC
Abstract: Cloning Keratinase,
(Co-authors: John Berestecky, Matthew Tuthill, Alan Garcia)

Gowoon Jung Joanne Yew PBRC
Abstract: Relationship between fatty acid signatures and gut microbiome in Hawaiian Drosophila
(Co-author: Joanne Yew)

Fox M. Kajiwara John Berestecky KCC
Abstract: Quantification of Myeloma Antibody V_L Expression through Real-Time Polymerase Chain Reaction
(Co-authors: John Berestecky, Matthew Tuthill, Alan Garcia)

Anyssa A. Keliikipi Kabi Neupane LCC
Abstract : PCR amplification of the genome of a strain of maize chlorotic mottle virus from Hawai'i and sequencing of its genome
(Co-authors: Alain Castro, Kabi Neupane)

Taeseong Kim Daniela Guendisch UH Hilo/Pharmacy
Abstract: Hybrid Compounds as Potential Therapeutics for Neurodegenerative Diseases
(Co-authors: Andrew Burgoyne, Daniela Guendisch)

Aaron T. F. Ko Nicholas James CMB/Kinesiology/Rehab Science
Abstract: Establishing a protocol and fluorescent assay to characterize stably transfected PC12 cells with FGFR1c.
(Co-Authors: Bethany J. Sanstrum, Brandee M.S.S. Goo, Nicholas G. James)

Andrea Langeland Melissa Boldridge/Lei Wang HPU/Natural Science
Abstract: Production of recombinant endophilin A3 (176-347) protein for subsequent NMR analysis
(Co-authors: Melissa Boldridge, Lei Wang)

Kainoa C. Lee Leticia Colmenares WCC/Natural Sciences
Abstract: Antioxidant Activities of Gingers: Hedychium greenii & Etlingera hieroglyphica
(Co-authors: Norman Bezona, Tom Null)

Katie C. Y. Lee Peter Hoffmann CMB
Abstract: Selenoprotein K is crucial for Melanoma Cell Growth and Migration
(Co-authors: Michael Marciel, FuKun W. Hoffmann, Peter R. Hoffmann)

Elizabeth Lough Leng Chee Chang UH Hilo/Pharmacy
Abstract: Evaluation of protein kinase and antibacterial properties of sSelected hawaiian medicinal plants
(Co-authors: Sasha Kovacs, Mengke Zhang, Leng Chee Chang)

Noelle Lovesy Sue Jarvi UH Hilo/Pharmacy
Abstract: Infection level of Angiostrongylus cantonensis in wild-caught rats on Hawaii Island.
(Co-authors: Susan Jarvi, Stefano Quarta, Steven Jacquier, Kathleen Howe, Deniz Bicakci, Robert McHugh, Crystal DaSalla, Kirsten Snook)

Christina L. Martiney Sharadchandra Marahatta Kauai'i CC
Abstract: Effects of sunn hemp and pigeon pea on corn germination and nermatodes
(Co-author: Sharadchandra Marahatta)

Caitlin McCarthy Clair Wright Chaminade
Abstract: Characterization of opioid receptors in the fetal membrane
(Co-author: Clair Wright)

Alex R. McLaury John Berestecky KCC

Abstract: Monoclonal antibody production against Zika virus envelope protein

(Co-authors: Brien Haun, Teri Wong, Alan Garcia, Daniel Strange, Dr. John Berestecky, Dr. Axel T. Lehrer, Albert To, Liana Medina)

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Abstract: Expressing and purifying Campylobacter jejuni antigens from Escherichia coli for monoclonal antibody production

(Co-authors: D. Aquino, C. Allen, A. Garcia, and J. Loristo)

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Abstract: Effect of macadamia nut cake on gut microbial diversity in broiler Chickens

(Co-authors: Darcie Inouye, Sudhir Yadav, and Rajesh Jha)

Polly Miller & Marc Balintag F. David Horgen

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Abstract: Scaling-up undergraduate research experiences: Extraction and purification of bioactive cyanobacterial metabolites laxaphycins B and B3 for the National Institute of Health's Small Molecule repository

(Co-author: F. David Horgen)

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Abstract: Gene Expression Analysis of Campylobacter jejuni in the presence of Eukaryotic Cells

(Co-author: Daniel Laspisa)

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WCC

Abstract: Characterization of collector urchin (Tripneustes gratilla) coelomocyte plasma membrane bound glycans using enzyme-linked lectin binding assay.

(Co-author: Allison Beale)

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Abstract: Histological quantitative assessment of Y chromosome gene content effects on testicular germ cell proliferation and differentiation

(Co-authors: Victor A. Ruthig, Jonathan M. Riel, Yasuhiro Yamauchi, Monika A. Ward)

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Abstract: Effects of Tradescantia zebrina on cell proliferation and inflammatory response in human monocytic Cells

(Co-author: Hongwei Li)

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ANAT/IBR

Abstract: Mapping DNA break sites induced by sperm chromatin fragmentation

(Co-author: Ryuei Sato)

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Peter Hoffmann

CMB

Abstract: The role of selenoprotein K in progression and metastasis of melanoma

(Co-authors: Michael Marciel, Pascal Kilicaslan, FuKun W. Hoffmann, Peter R. Hoffmann)

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Abstract: In vitro study of an ABCC6-initiated molecular pathway inhibiting soft tissue calcification.

(Co-authors: Viola Pomozi, Bianca Calio, Olivier Le Saux)

Ashleigh C. Renaud Linda Connelly UH Hilo/Pharmacy
Abstract: Role of osteoprotegerin production in colon cancer cell proliferation
(Co-authors: Stephanie Tsang Mui Chung, Linda Connelly)

Kara L. Riggsbee John Berestecky CMB
Abstract: An efficient technique to determine functional variable region cDNA sequences of monoclonal antibodies
(Co-Author: Brien Haun)

Adriel Robidoux Sally Irwin UHMC
Abstract: The effects of food preservatives; sodium sulfite and sodium bisulfite on four species of beneficial gut bacteria
(Co-authors: Peter Fisher, Emily Graham, Ashley Malek)

Patrick Rosanelli Lei Wang HPU/Chemistry
Abstract: Expression and purification of the dynamin (503-870) protein
(Co-author: Lei Wang)

Quinci N. Salvador Monika Ward ANAT/IBR
Abstract: Disparities of testicular interstitium in male mice with limited Y chromosome genes
(Co-authors: Eglè A.Ortega, Victor A. Ruthig, Torbjoern Nielsen, Monika A. Ward)

Sarah Seaba James Turkson Chaminade
Abstract: Investigating the effects of STAT3 inhibiting compound in breast cancer cell phenotype In Vitro
(Co-authors: Peibin Yue, James Turkson)

Anjelica C. Silva Susana Helm KCC/Psychiatry
Abstract: Ethnocultural measures as predictors of youth substance use
(Co-authors: Susana Helm, Scott Okamoto)

Cassandra A. Song Michael Weichhaus Chaminade
Abstract: The effect of substrate availability on breast cancer
(Co-authors: Kahealani Uehara, Colin Andres-Paguirigan)

Victoria J. Soto Zoia Stoytcheva CMB/ANAT/PH
Abstract: Regulation of the selenoproteins by miRNAs
(Co-author: Peggy Su)

Natalie T. Subia Dulal Borthakur MBBE
Abstract: Improving the catalytic properties of mimosinase and rhizomimosinase by domain shuffling mutagenesis
(Co-author: Dulal Borthakur)

Laarni Sumibcay Vivek Nerurkar TRMD
Abstract: Minority Health and Health Disparities International Research Training (MHIRT) Program at the University of Hawaii at Manoa
(Co-authors: Vivek R. Nerurkar , Laarni Sumibcay and Diane W. Taylor)

Cory X. Y. Sutton Deborah Taira UH Hilo/Pharmacy
Abstract: Concurrent and persistent adherence to anti-diabetic, anti-hypertensive, and cholesterol lowering medications

related to health care utilization and total health care costs among patients with diabetes
(Co-authors: Deborah Taira)

Lindlelyn L. Tabula Helmut Kae LCC
Abstract: Bacteriophages isolated from Hawaiian soil
(Co-author: Katie Jenkins)

Ruth Taketa Robert Nichols CMB
Abstract: The Effects of an N-Terminal Fragment and Core Sequence within Beta Amyloid on MAPK-Linked Toxicity Pathway
(Co-authors: Kelly Forest, Robert Nichols)

Bradley J. I. Thomas Diane Taylor TRMD
Abstract: Determining prevalence of cross-reactive antibodies to VAR2CSA in US pregnant women.
(Co-authors: Yukie Lloyd-Sato, Diane W. Taylor)

Bruce L Torres Fisher Lisa Kaluna Hilo CC/UH Hilo/ Pharmacy
*Abstract: Evaluating the effectiveness of rainwater catchment filtration systems to prevent passage of early larval stages of *Angiostrongylus cantonensis**
(Co-authors: Lisa M. Kaluna, Kathleen Howe, and Susan Jarvi)

Cherry Y. E. W. Yamane Susana Helm PH
Abstract: Ho`omana as a protective factor against substance use among native hawaiian youth,
(Co-Authors: Susana Helm, Kanoelani Davis, Raissa Tanqueco, Terrence Guanio, Na Haumana)

Kevin E. Vergara Helmut Kae LCC
Abstract: Bacteriophage isolation and identification from environmental samples within oahu
(Co-authors: Carley Sizemore, Helmut Kae)

Yio Yu Nicholas James CMB/Microbiology
Abstract: Establishing a protocol to functionally label Arc with a FlAsH tag
(Co-authors: Brandee M.S.S. Goo, Barbara Barylko, Bethany J. Sanstrum, Joseph P. Albanesi, Nicholas G. James)