

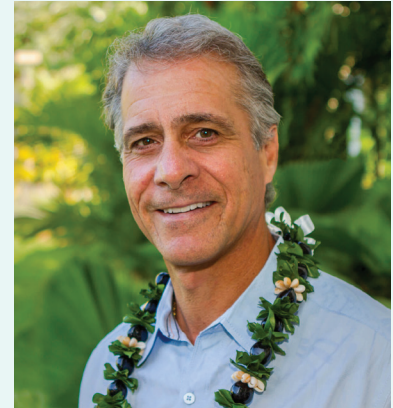
UNIVERSITY
of HAWAI'I®
MĀNOA

UHM HEALTH SCIENCES INITIATIVE
COLLABORATIONS ACROSS THE HEALTH SCIENCES:
LIGHTNING TALKS

Thursday, May 4, 2023 | 2:00PM-5:30PM

Welina Mai

*A Message from Michael Bruno
University of Hawai'i at Mānoa Provost*



Dear Colleagues,

The University of Hawai'i System has long possessed impressive strength and breadth in health sciences and medicine. The University of Hawai'i at Mānoa alone offers more than 50 health sciences-related degrees and certificates across nine colleges and schools. UH Mānoa offers the only medical degree in the Pacific and hosts the largest social work, nursing, and public health programs in the state. The world-class health sciences research at Mānoa's schools, colleges, and research units brought more than \$130 million in external grants and contracts to Hawai'i just in the last fiscal year. The university's clinical learning and care occur in partnership with O'ahu hospitals, clinics, Federally Qualified Health Centers, private practices, non-profit healthcare organizations, the Department of Health, the Department of Human Services, the Department of Public Safety (corrections), the Department of Education, and facilities that provide care for sheltered and unsheltered houseless individuals and families.

The critical role the university plays in support of the health and well-being of the state was never more evident than during the COVID-19 pandemic when education, research, clinical care delivery, and guidance by UH faculty and learners supported everything from resourcing Hawai'i's commercial labs with supplies and faculty who led all COVID-19 related lab testing, to setting up diagnostic and research labs, to research into the effectiveness of vaccines and vaccine hesitancy, to real-time analyses of health data, to addressing health disparities and outreach to underserved populations, to health policy guidance, to on-demand training of health care workers and contact tracers, to regular analyses of the state's economic outlook. Our health professions faculty developed novel educational delivery methods in the clinical training sites to ensure clinical care and education continued for O'ahu's most vulnerable patients. Without the dedication and work of scores of UH faculty, staff, and students from units as varied as the Schools of Medicine, Nursing, Social Work & Public Health, Engineering, Agriculture and Human Resources, Social Sciences, and many more, the state's recovery would have been drastically delayed.

While the sheer number, variety, and impact of our programs demonstrate the richness, vitality, and critical importance of our work in Hawai'i, the Pacific, and beyond, they also give rise to a fundamental question: What more could we accomplish if we could amplify and expand this vital work, via stronger coordination across our academic and research units; and via increased input, integration, and collaboration with the state's private health systems and government? We believe that as we emerge from the pandemic, our success in this area is a strategic imperative for the university and the state.

This convening will help inform and inspire the work ahead, as we strengthen our relationships with each other and leverage our passion and our expertise for a healthier and more resilient Hawai'i. Mahalo for your participation!

Michael Bruno
Provost

Agenda

TIME	ACTIVITY	SPEAKERS
1:45 – 2:00 PM	Check-In	
2:00 – 2:05 PM	Protocol	Department of Native Hawaiian Health, John A. Burns School of Medicine
2:05 – 2:10 PM	Land Acknowledgement	Michael Bruno, Provost
2:10 – 2:20 PM	Welcome and Goals for the Health Sciences Initiative	Provost Bruno
2:20 – 3:10 PM	Lightning Talks: Round 1	
3:10 – 3:15 PM	Questions for Round 1 Presenters	
3:15 – 3:20 PM	Break	
3:20 – 4:10 PM	Lightning Talks: Round 2	
4:10 – 4:15 PM	Questions for Round 2 Presenters	
4:15 – 4:20 PM	Break	See Draft Goals for the UHM
4:20 – 4:25 PM	Topics for Small Group Discussions	Health Sciences Institute on page 4
4:25 – 4:45 PM	Breakout Discussion: Challenges & Opportunities	
4:45 – 5:00 PM	Breakout Discussion: Designing an Amplifying Health Sciences Structure	
5:00 – 5:15 PM	Report Out	
5:15 – 5:25 PM	Closing Remarks & Next Steps	Provost Bruno
5:25 – 5:30 PM	Break	
5:30 – 7:00 PM	Networking Pau Hana	



Draft Goals for the UHM Health Sciences Institute

1. Establish an efficient operational structure to align and coordinate our efforts, to provide administrative support for operations, and to serve as the one-stop "portal" for information exchange and the unified voice for UH health sciences, medical education and research, and public health education.
2. Strengthen and expand the healthcare workforce in Hawai'i and the Pacific through broad partnerships and efficient pathways to health sciences careers and expanded opportunities for clinical and practical training to train a workforce capable of transdisciplinary work.
3. Collaborate with state and regional government, health systems and industry partners to reduce health disparities and inequities in Hawai'i and the Pacific, especially in building innovative partnerships and training to address social determinants of health.
4. Redefine the health sciences to recognize and collaboratively address the impacts of climate change and community health needs, and apply advances to patient care and health policy in Hawai'i and the Pacific.
5. Lead in the convening of researchers, industry professionals, and government leaders to assess, collaborate, and respond to emerging and ongoing health threats in Hawai'i and the Pacific.

Health Sciences Initiative Steering Committee

Walter Bowen, Associate Dean, CTAHR

Michael Bruno, Provost

Lee Buenconsejo-Lum, Interim Dean, JABSOM

Kenneth Fink, Director, Hawai'i State Department of Health

Jill Hoggard Green, President and CEO, Queen's Health Systems

Judy Lemus, Interim Associate Dean, SOEST

Miriam Mobley-Smith, Interim Dean, College of Pharmacy, UH Hilo

Wendy Pearson, Senior Advisor to the Provost

Tetine Sentell, Interim Dean, Thompson School of Social Work & Public Health

Alison Sherwood, Associate Dean, College of Natural Sciences

Naoto Ueno, Director, UH Cancer Center

Raymond Vara, President and CEO, Hawai'i Pacific Health

Lorrie Wong, Interim Associate Dean, NAWSON

Lightning Talk Proposals



Lightning Talk Proposals (alpha listing by title)

1. Addressing Substance Use in Hawai'i Through Collaborative Workforce Development and Training
2. Artificial Intelligence in Medical Imaging: The AI Precision Health Institute
3. Baseline Contaminant Concentrations in Commonly Consumed Reef Fishes in Hawai'i
4. Beyond Information Exchange: Programming Toward Health and Wellbeing as a Relational Experience
5. Brain Imaging Fosters Wide Reaching Collaborations
6. Building a Health Analytics Program to Improve Health in Hawai'i: A Collaboration between the State and the University of Hawai'i
7. Building Collaborative Capacity for Disaster Health Response
8. Building Connection through Data: A Collaboration to Increase Substance Abuse Prevention and Mental Wellness for Youth and Emerging Adults in Hawai'i
9. Children's Healthy Living Program (CHL)
10. Clinical Pharmacists Integration
11. Collaborations to Address Healthy Food Access and Food Security
12. Collective Effort to Incubate Solutions for Aging Impact
13. Community Perceptions of the Good and Bad Ways Islanders Relate to the Ocean, with the Goal of Identifying Leverage Points to Improve that Relationship
14. Connecting Ocean and Human Health in Hawai'i and the Pacific Islands
15. Connecting Research and Action: Collaborations with Social Service Agencies to Support Marginalized Communities in Hawai'i
16. Developing Data Trackers: Spotlighting Oral Health in Hawai'i
17. Establishing the Asia-Pacific Research Center for Health Equity (ARCHE)
18. Evaluating Health Information Technology in Routine Practice to Identify Undiagnosed Chronic Conditions
19. Evolutionary Medicine Sheds a Light on Genetic Mechanisms of the Nutritional Treatment for Autism
20. The Hawai'i Child Welfare Education Collaboration: Helping to Build the Child Welfare Workforce
21. Hawai'i Behavioral Health Training Institute: Behavioral Health Workforce Education and Training (BHWET) Program for Paraprofessionals
22. Hawai'i Health Data Warehouse: A UH-DOH Partnership for Health Data
23. Hawai'i Interprofessional Education (HIPE) - Collaboration in Action
24. Hawai'i Journal of Health & Social Welfare: A Not So Hidden Gem
25. Hawai'i Pandemic Modeling Task Force
26. Health Disparities Data Projects to Improve Data Collection in the State
27. A Health Humanities Minor for UHM
28. Hear Us: A Collaborative Effort to Improve Vaccination Among Vulnerable Populations
29. Impact of Micronutrient Flash Flood Runoff on the Hawaiian Population
30. Improving Children's Mental Health in Hawai'i: Training, Service, and Research Partnerships Between Psychology, Health, and Education Sectors
31. Improving the Health and Wellbeing of America's Workforce
32. Increasing Access to Clinical Pharmacists
33. Linking Poi, 'Aina, Microbes, and Health
34. Machine Learning AI and Addiction Treatment

35. The Mānoa Angiostrongylus Research Group (MARG): Rat Lungworm Disease in Hawai'i and Globally
36. Marine Pollution & Human Health Risks in Pacific Island Fisheries
37. Medical-Legal Partnership for Children in Hawai'i: Interprofessional Education and Practice to Address the Social Determinants of Health
38. Native Hawaiian Interdisciplinary Health Program: A Collaboration of Health & Wellness
39. New Undergraduate Biomedical Laboratory Classes through the School of Life Sciences/UH Cancer Center/JABSOM Collaboration
40. Obstetrics Team Simulation Training
41. Ola HAWAII Investigator Development Core: Early Stage Investigator Development
42. Over Twenty-years of Collaboration on Evaluation Initiatives between the Office of Public Health Studies and Department of Health
43. Pre-Health/Pre-Law Advising Center's Top 3 Best Practices
44. Pacific Alliance Against COVID-19
45. Precision Nutrition COBRE - Improving Nutrition, Health and Quality of Life for Underserved Populations
46. The Prevent Suicide Hawai'i Taskforce: A Model of Cross-Disciplinary and Community-Driven Collaboration to Support Suicide Prevention
47. Promoting Food Sovereignty through Interdisciplinary Community-Engaged Research
48. School Health Needs Assessment of Hawai'i State Department of Education Schools: A Collaboration Across Public and Private Entities
49. Seeds of Wellbeing Initiative
50. Simulation-Based Pediatric Interprofessional Team Training to Facilitate End-of-Life Discussions
51. Soft, Flexible Epidermal Sensors for Clinical Diagnostics
52. A Team Kinesiology Model to Support Rehabilitative Care in Patients Diagnosed with Cancer
53. Telehealth Resources for Hawai'i and the Pacific
54. UHERO Rapid Data Project
55. Understanding the Impacts of Ciguatera Poisoning on Communities in Hawai'i and the U.S.-Affiliated Pacific Islands through the Development of the Pacific Ciguatera Network
56. Vog Measurement and Prediction Program (VMAP): Modelling Volcanic Air Quality for the State of Hawai'i

TOPICAL AREAS

Clinical Training Partnerships
 Community Health Needs
 Emerging & Ongoing Health Threats to Hawai'i and the Pacific
 Environmental Health Sciences
 Expanding the Healthcare Workforce
 Healthcare Workforce
 Impacts of Climate Change
 Innovative Government/Industry/Education Partnerships

Interprofessional Education
 Interprofessional Patient Care Partnerships
 One Health Initiatives
 Reducing Health Disparities
 Social Determinants of Health
 Support for Rural and Remote Communities in Hawai'i and the Pacific
 Translational Research
 Other

1. Addressing Substance Use in Hawai'i Through Collaborative Workforce Development and Training

Description: Hawai'i SUPD (Substance Use Professional Development) is a workforce development and training initiative administered by faculty and staff at the University of Hawai'i at Mānoa Thompson School of Social Work & Public Health in partnership with and funded by the Hawai'i State Department of Health Alcohol and Drug Abuse Division. Hawai'i SUPD planning and implementation began in early 2022 with the goals of 1) assessing and evaluating statewide substance use professional workforce development needs; 2) developing and implementing of a state substance use workforce plan; 3) streamlining of professional certification and training processes; and 4) providing effective training opportunities to substance use professionals and allied professionals in the state in order to build knowledge of addiction issues and to better serve Hawai'i communities.

The Thompson School's efforts are done in active partnership with the Department of Health and numerous prevention, treatment, and recovery-oriented service provider and community partners.

UH News link, 10/2/2022: <https://www.hawaii.edu/news/2022/10/12/substance-use-workforce-initiative/>

Organizations: Thompson School of Social Work & Public Health; Hawai'i State Department of Health Alcohol and Drug Abuse Division; Various Substance Use Service Providers

Team Members: n/a

Website: n/a

Contact: Cliff Bersamira, Assistant Professor, Thompson School of Social Work and Public Health, csbers@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Community Health Needs

Expanding the Healthcare Workforce

Healthcare Workforce

Interprofessional Education

Support for Rural and Remote Communities in Hawai'i and the Pacific

Other: Mental Health and Behavioral Health

2. Artificial Intelligence in Medical Imaging: The AI Precision Health Institute

Description: The AI Precision Health Institute is a collaborative effort to translate the advances in artificial intelligence (AI) and machine learning to applications in cancer research, mainly medical imaging for cancer screening. The primary participants are John Shepherd at the UH Cancer Center, a specialist in mammography, and two faculty in Information and Computer Sciences who work in applied AI, Peter Washington and Peter Sadowski. Together they advise a team of PhD students and postdocs from computer science and bioengineering. The AIPHI group holds weekly research meetings and a monthly affinity group meeting open to the public. Current projects include detecting cancer lesions from breast ultrasounds to reduce health disparities, determining breast cancer risk in mammograms, testing current AI models on minority populations, and assessing health risks from total body low-dose X-ray scans.

Organizations: AI Precision Health Institute, University of Hawai'i Mānoa, Information and Computer Sciences, UH Cancer Center

Team Members: Peter Sadowski (ICS), Peter Washington (ICS), John Shepherd (UHCC)

Website: <https://aiphi.shepherdresearchlab.org/>

Contact: Peter Sadowski, Assistant Professor, College of Natural Sciences, psadow@hawaii.edu

Topical Areas Addressed:

Reducing Health Disparities

Translational Research

3. Baseline Contaminant Concentrations in Commonly Consumed Reef Fishes in Hawai'i

Description: We have been working on a series of projects focusing on land-based pollution in commonly consumed reef fishes in Hawai'i. Historic and ongoing land use has resulted in land-based pollutants that are transported onto nearshore reefs via runoff, groundwater, and sedimentation. Once present in coastal ecosystems these contaminants undergo trophic transfer, and they have the potential to accumulate in commonly consumed reef fishes. Despite this potential risk, little information existed on the concentrations of contaminants in reef fishes that are targeted by recreational and subsistence fishers in Hawai'i. We aimed to address this data gap through a series of projects that initially targeted a range of sites that experience a variety of land uses (O'ahu: Kāne'ohe, Hale'iwa, Kahe Point, Sand Island, Kewalo, Ala Wai, Maunalua; Kaua'i: Hanapēpē, Nawiliwili, Kekaha), followed by more targeted studies at locations that have significant tourism (Hā'ena), residential development (Maunalua Bay), industrial development (Kaihuopala'ai in Pu'uloa – West Loch of Pearl Harbor), and military history (Kaho'olawe).

Throughout this project we engaged the Hawai'i Division of Aquatic Resources (DAR) and the Hawai'i Department of Health (DOH) and have shared results with them both formally and informally. In the targeted studies, the projects were co-produced with community-based partners including the Hui o Maka'ainana o Makana in the Hā'ena Community Based Subsistence Fishing Area, Mālama Pu'uloa and the Pu'uloa Strategic Watershed Partnership, and the Protect Kaho'olawe 'Ohana. These partnerships were critical to the success of the work and have helped shape a framework that can be replicated in future projects. In addition to generating baseline data on contaminants in reef fishes, we were able to demonstrate transfer of contaminants through sediment and trophic levels of marine taxa, link specific contaminants with probable sources in some locations, and document bioaccumulation of organic contaminants in lower trophic levels (e.g., PCBs in kole) alongside the expected biomagnification in higher trophic levels. The results have been shared directly with partners, at local and international conferences, and in community fisher's forums.

Organizations: Hawai'i Institute of Marine Biology, Hawai'i Sea Grant, UH Mānoa Department of Chemistry

Team Members: Eileen Nalley, Megan Donahue, Honour Booth, Julie Zill, Madeline Schmidbauer

Website: n/a

Contact: Eileen Nalley, Ocean and Coastal Ecosystem Health Specialist, SOEST, enalley@hawaii.edu

Topical Areas Addressed:

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Environmental Health Sciences

One Health Initiatives

4. Beyond Information Exchange: Programming Toward Health and Wellbeing as a Relational Experience

Description: Top-down global goals supporting human well-being, such as the United Nation's Sustainable Development Goals, do not adequately represent local (place-based) expressions and experiences of well-being. Similarly, wide ranging STEM training systems in higher education often exclusively focus on rational, analytical knowledge forms that do not effectively engage more complex motivators in the human experience, such as instincts, intuition, experiences within more-than-human communities, cultural norms and values, individual values, etc.

To be better address a diversity of knowledge forms and root within place-based communities, the Pacific Islands Climate Adaptation Science Center developed a practitioner-driven research program in 2015, called the Manager Climate Corps (MCC) that has received increasing notoriety nationally (e.g., National Extension Climate Initiative) and across a diversity of disciplines. For example, the MCC was involved in the health section of the upcoming Hawai'i and USAPI Chapter within the 5th National Climate Assessment. Much like developing an understanding of another's worldview or identity (<https://pi-casc.soest.hawaii.edu/pi-casc-programs/center-programs/mcc/adaptation-through-local-networks-and-collaborative-science/>), complex and often hard-to-measure experiences must be addressed if we are to fully and truly consider the breadth of knowledge forms within the human condition, as they determine health and well-being. Not only can relational knowledge forms and related non-material (non-physical) parameters be discerned (e.g., strength of connection to place), they are vital to human well-being. The more we recognize the breadth of human dimensions and their ability to drive connection to each other and place within health sciences and more broadly through STEM education overall, the more well-being can be better understood, trained, and fostered as one of our species' most adaptive foundations within unprecedented social and ecological change.

Organizations: The University of Hawai'i at Mānoa, the University of Hawai'i at Hilo, Pacific Islands Climate Adaptation Science Center (PI-CASC), and the U.S. Geological Survey

Team Members: Darren Lerner (PI-CASC University Consortium Director), Mari-Vaughn Johnson (PI-CASC Federal Director), Scott Laursen (PI-CASC Climate Change Adaptation Extension Specialist)

Website: <https://pi-casc.soest.hawaii.edu/pi-casc-programs/center-programs/mcc/>

Contact: Scott Laursen, Climate Adaptation Extension Specialist, SOEST, slaursen@hawaii.edu

Topical Areas Addressed:

Community Health Needs	One Health Initiatives
Environmental Health Sciences	Social Determinants of Health
Impacts of Climate Change	Support for Rural and Remote Communities in Hawai'i and the Pacific
Innovative Government/Industry/Education Partnerships	Translational Research
Interprofessional Education	
Interprofessional Patient Care Partnerships	

5. Brain Imaging Fosters Wide Reaching Collaborations

Description: The Brain & Behavior Laboratory has used brain imaging as a tool to foster widespread collaboration centered on Hawai'i. This has led to international collaborations, extensive funding, job placements, and a wide network of health-related researchers and innovation. Since my days working with Archinoetics, LLC in Honolulu I noticed the convening power of our beautiful islands. Never did any collaborator say no to consult on our Hawai'i-based projects. This work leads to two health-tech spinout companies and an extensive network of partners. Now as a faculty at University of Hawai'i, I apply the same principles and have built up a wide spread international network collaborating with the Brain & Behavior Laboratory. I will speak for 5 minutes on this network and leveraging Hawai'i for collaborations.

Organizations: UH Mānoa, Oxford, UCL, Cambridge, JABSOM, Queen's, HiCFA

Team Members: Jonas Vibell

Website: www.brainandbehaviorlab.com

Contact: Jonas Vibell, Assistant Professor, College of Social Sciences, vibell@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Expanding the Healthcare Workforce

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

One Health Initiatives

Translational Research

6. Building a Health Analytics Program to Improve Health in Hawai'i: A Collaboration between the State and the University of Hawai'i

Description: This State-University partnership focuses on moving beyond siloed, fragmented data sets to building a coherent health analytics program that can address the needs of the population across various health insurance payers to impact health in the State of Hawai'i. With its focus on chronically ill, 'high-need, high-cost' populations, the intent is to bring a 'person-centered' data/analytical framework that can help provide improved solutions to integrate the social and health dimensions of health problems.

Our collaboration strives to build the 'ecology of evidence' necessary to address health inequities in Hawai'i. This includes what works to improve health for disadvantaged populations, finding systemic solutions to enhance access and improve care for populations that often do not engage with the health system, providing feedback to the State, and implementing organizations for course correction to improve systems of care. By bringing a range of partners to promote coordinated, collaborative solutions to improving the health of our disadvantaged populations, there is a recognition that addressing the social determinants of health will require integrative solutions that often require collaborations across agencies and government, community, and private sectors.

Organizations: University of Hawai'i at Mānoa: College of Social Sciences, College of Tropical Agriculture and Human Resources, Thompson School of Social Work & Public Health; Department of Human Services, Med-QUEST Division (MQD); Department of Health (DOH); Department of Commerce and Consumer Affairs – Insurance Division (DCCA); State Health Planning and Development Agency (SHPDA); Employer-Union Health Benefits Trust Fund (EUTF); Office of Enterprise Technology Services (ETS)

Team Members:

DHS, Med-QUEST Division: Ranjani Starr, PHD; Josh Holmes, MPH; Kate Allen; Alfred Herrera
UH Mānoa: Jack Barile, PhD; Sanjeev Sridharan, PhD; Yan Luo, PhD; Anna Pruitt, PhD; Hua Zan, PhD; Krysia Mossakowski, PhD; Wei Zhang, PhD; Joy Agner, PhD; Norman Okamura, PhD; Christina Higa, PhD; Sean Okamoto; Jose Aquino; Charmaine Aoki; Miguel Brostrom; Stephen Geib; Hisa Hashisaka; Steven James, PhD; Cynthia Scheopner, JD, PhD; Cielo Subia; Ana Taualupe; Jaclyn Topinio

Website: <http://uhhpi.org/>

Contact: Sanjeev Sridharan, Professor, Director of the Office for the Study of Healthcare Policy, College of Social Sciences, sanjeev@hawaii.edu

Topical Areas Addressed:

Community Health Needs
Innovative Government/Industry/Education Partnerships
One Health Initiatives
Reducing Health Disparities
Social Determinants of Health
Support for Rural and Remote Communities in Hawai'i and the Pacific
Translational Research

7. Building Collaborative Capacity for Disaster Health Response

Description: The Disaster Aftermath Interprofessional Simulation (DAIS) is an immersive learning activity aimed at training health professional students to collaboratively respond to public health disasters. The DAIS provides students with an interactive disaster response experience where interprofessional students simulate conducting disaster triage and managing a disease outbreak in an emergency shelter. The DAIS was adapted to a fully online format using video-conferencing during the COVID-19 restrictions on face-to-face education. It involves real-time collaboration between small interprofessional groups and co-facilitation of debriefing sessions by interprofessional faculty. Faculty hope to expand this activity to address collaborative disaster response to disasters related to emerging infectious diseases and climate change.

Organizations: UHM Nancy Atmospera-Walch School of Nursing; UHM Office of Public Health Studies; John A. Burns School of Medicine

Team Members: Gary Glauberman, PhD, RN; Michele Bray, DNP, RN; Lorrie Wong, PhD, RN; Lisa Kehl, MSW, MPH, LWS; Kamal Masaki, MD

Website: n/a

Contact: Gary Glauberman, Assistant Professor, Nancy Atmospera-Walch School of Nursing, glauberm@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Environmental Health Sciences

Impacts of Climate Change

Interprofessional Education

Support for Rural and Remote Communities in Hawai'i and the Pacific

8. Building Connection through Data: A Collaboration to Increase Substance Abuse Prevention and Mental Wellness for Youth and Emerging Adults in Hawai'i

Description: The UH epidemiological team maintains the state epidemiological outcomes workgroup (SEOW), funded through a collaboration with the Alcohol and Drug Abuse Division (ADAD) from the Hawai'i Department of Health (DOH), to increase the capacity within the state for substance use prevention and mental wellness for youth and emerging adults. The main objective of the SEOW is to provide leadership, education, and support by developing deliverables that provide guidance for data-driven decision making and tell the full story of substance use patterns and behavioral health status in communities. These data deliverables are designed to be utilized for informing prevention needs and provide as a resource to ADAD and service providers.

Organizations: Thompson School - OPHS; Alcohol and Drug Abuse Division (ADAD) at DOH

Team Members: n/a

Website: n/a

Contact: Michael Phillips, Associate Specialist, Thompson School of Social Work and Public Health, mphil@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Reducing Health Disparities

Other: Substance use prevention and early intervention

9. Children's Healthy Living Program (CHL)

Description: The Children's Healthy Living Program (CHL) is an integrated research, education and outreach collaborative in the Pacific region. CHL has provided degree training and has completed a successful community randomized trial that decreased child overweight and obesity, and maintained that decrease 6 years after the main trial, due to its emphasis on sustainable community change. CHL now focuses on food system resiliency for health.

Organizations: CTAHR, UHCC

Team Members: Rachel Novotny, Marie Revilla, Monica Esquivel, Lynne Wilkens, Yurii Shvetsov and many others

Website: chl-pacific.org

Contact: Rachel Novotny, Professor and Graduate Chair, CTAHR, novotny@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Reducing Health Disparities

Social Determinants of Health

Support for Rural and Remote Communities in Hawai'i and the Pacific

Translational Research

10. Clinical Pharmacists Integration

Description: Utilizing clinical pharmacists to the top of their license in a primary care clinic improves patient outcomes for DM. Clinical pharmacists are also able to manage other chronic conditions such as HTN, asthma, COPD, smoking cessation through a collaborative agreement working as a team with the primary care physician and resident. Working with the Family Medicine residency program the clinical pharmacists also provides the residents with experience in working in healthcare teams and provides a DM elective rotation.

Organizations: UH Hilo DKICP Pharmacy Practice and JABSOM Family Medicine

Team Members: Dr Chip Hixon, Dr Rob Carlisle, Dr Thomas Quattlebaum

Website: n/a

Contact: Camlyn Masuda, Associate Specialist, The Daniel K. Inouye College of Pharmacy (DKICP) at the University of Hawai'i at Hilo, camlynm@hawaii.edu

Topical Areas Addressed:

Interprofessional Education

Interprofessional Patient Care Partnerships

Reducing Health Disparities

Social Determinants of Health

11. Collaborations to Address Healthy Food Access and Food Security

Description: Since 2018, the Waianae Coast Comprehensive Health Center (WCCHC) Health Promotion Department partnered with the WCCHC Pediatrics Department to develop and conduct a feasibility study of the Keiki Produce Prescription (KPRx) program; this effort was led by Dr. Esquivel. Through KPRx, WCCHC pediatricians invited eligible parents/caregivers (parents) of children identified as food insecure and/or with obesity to participate. Participants received monthly vouchers for free FV at the WCCHC Farmer's Market for 3 months.

The initial feasibility study has led to continued funding and expansion through Ola HAWAII and the Precision Nutrition COBRE, and USDA grants.

The KPRx program is a strong example of university-community collaboration from program inception to research testing. To date over 150 children have received produce prescriptions, which have increased access to fresh fruits and vegetables, addressed household food security, and improved fruit intake.

Organizations: Waianae Coast Comprehensive Health Center, Elepaio Social Services, CTAHR, JABSOM, PBRC

Team Members: May Okihiro, Alicia Higa, Cherese Shelton, Monica Esquivel

Website: n/a

Contact: Monica Esquivel, Assistant Professor and Dietetics Program Director, CTAHR,
monicake@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Reducing Health Disparities

Social Determinants of Health

12. Collective Effort to Incubate Solutions for Aging Impact

Description: The Kūpuna Collective brings together a collaborative network of over 130 member organizations, including a diverse cross-sector of non-profit, government, private, and community organizations. The Collective elevates critical issues, mobilizes community assets, and drives innovative solutions that support and empower kūpuna. The initial programs that were the foundation of the Collective were formed during COVID-19 to address the issues of food insecurity (under the Kūpuna Food Security Coalition) and vaccination outreach for kūpuna (Kūpuna Vaccinating Outreach Group). Both programs had a significant positive impact in supporting kūpuna in need, and community members found multiple opportunities to work together to address issues related to our aging population. In order to build on this momentum, the Kūpuna Collective was officially formed in February 2022.

The UH Center on Aging (UHCoA), along with the Hawai'i Public Health Institute (HIPHI) and the Elderly Affairs Division for Honolulu City & County have played pivotal roles as backbone support organizations for the Collective. UHCoA has provided coordination and a facilitating leadership role with HIPHI in addition to implementing a shared data measurement system to support the Collective work.

Organizations: UH Center on Aging, Hawai'i Public Health Institute, Elderly Affairs Division of the City & County of Honolulu, and 130 other member organizations serving kūpuna

Team Members: UH Team members include, Dr. Christy Nishita and Dr. Jinyoung (jenny) Lee

Website: <https://www.hiphi.org/kupuna/>

Contact: Jinyoung (jenny) Lee, Researcher, Thompson School, jyl808@hawaii.edu

Topical Areas Addressed:

Innovative Government/Industry/Education Partnerships

13. Community Perceptions of the Good and Bad Ways Islanders Relate to the Ocean, with the Goal of Identifying Leverage Points to Improve that Relationship

Description: This presentation will overview a strategic initiative supported by the Office of Public Health Studies (OPHS) on the topic of oceans and human health. The Initiative currently involves both academic partners (public health, social work, and marine biology), as well as community ones (One Shared Futures Hawai'i Island and Hawai'i Leadership Forum). The OPHS oceans and human health strategic initiative aims to establish a foundation for sustained research and training in this sub-specialization of environmental health. To achieve this aim, the team members have initiated statewide systems mapping project on how Islanders relate to the oceans, documenting through storytelling both the positive and negative interactions between inhabitants of the Hawaiian Islands and their marine environment. Systems mapping weaves the stories of diverse community participants into a visual depiction with a specific goal of capturing the forces that perpetuate positive and negative systems. They can also be used to identify leverage points to foster systemic change and to establish a conceptual framework for future research.

To date, the team has been fortunate enough to benefit from the perspectives of over 130 community members from all of the counties in the state. These individuals have participated in systems mappings sessions lasting from 2 to 3 hours in duration; some have participated in multiple sessions. The participants represent diverse perspectives including those of researchers, students, non-governmental organizations, community-based organizations, state and federal government. Currently, the team is working on finalizing the map of the perspectives of those on Hawai'i Island and will continue their efforts to the full statewide map starting this summer.

Organizations: Office of Public Health Studies, Department of Social Work, the Hawai'i Institute of Marine Biology, One Shared Futures Hawai'i Island, and Hawai'i Leadership Forum

Team Members: Lorinda Riley, Rachel Dacks, Jessica Kaneakua, Anna Chua, Cade Akamu, Lauryn Hansen, Kristen Lau, Sam Dorios

Website: <https://twitter.com/OceansAndHealth>

Contact: Catherine Pirkle, Associate Professor, Office of Public Health Studies, cmpirkle@hawaii.edu

Topical Areas Addressed:

Emerging & Ongoing Health Threats to Hawai'i and the Pacific
Environmental Health Sciences
Impacts of Climate Change
One Health Initiatives
Reducing Health Disparities
Social Determinants of Health

14. Connecting Ocean and Human Health in Hawai'i and the Pacific Islands

Description: Human health and environmental health are inextricably linked. For Pacific Islanders, this is especially true for the ocean-human health connection. Marine organisms are of great value to Native Hawaiians and Pacific Islanders (NHPIs) ecologically, economically, and culturally. These "biocultural" resources are essential for traditional practices, nutrition and food security, and their population declines from human-induced stressors affect both the physical and mental health of stakeholders. NHPIs have some of the highest rates of coronary heart disease, diabetes and other non-communicable diseases tied to lifestyle changes resulting from the loss of marine resources. Marine organisms are also sentinels for the effects of environmental stressors, including pesticides, plastics, and radionuclides, on human health, and can be studied at various levels, from molecules to ecosystems. A trans-disciplinary collaboration between researchers at the Kewalo Marine Laboratory and JABSOM resulted in the application of techniques developed from pediatric pharmacology to determine the effects of environmental toxicants on coral reproduction and the subsequent resilience of coral reef ecosystems of ecological, economic, and cultural value to the people of Hawai'i and the Pacific. These studies have expanded from chemical toxicants to the potential effects of the planned release of radioactively contaminated cooling water from the Fukushima Nuclear Power Plant disaster of 2011 into the Pacific Ocean starting this year and continuing for the next 40+ years. The University of Hawai'i at Mānoa is well-positioned to expand valuable collaborations between marine and biomedical scientists at the Kaka'ako Campus, to address the intersecting ocean and human health needs of our islands, region, and the world in cutting edge research and its applications.

Organizations: SOEST/PBRC/Kewalo Marine Laboratory

Team Members: n/a

Website: n/a

Contact: Robert Richmond, Director, Kewalo Marine Laboratory, richmond@hawaii.edu

Topical Areas Addressed:

- Community Health Needs
- Emerging & Ongoing Health Threats to Hawai'i and the Pacific
- Environmental Health Sciences
- Impacts of Climate Change
- Innovative Government/Industry/Education Partnerships
- Interprofessional Education
- One Health Initiatives
- Social Determinants of Health
- Support for Rural and Remote Communities in Hawai'i and the Pacific
- Translational Research

15. Connecting Research and Action: Collaborations with Social Service Agencies to Support Marginalized Communities in Hawai'i

Description: The University of Hawai'i Ecological Determinants Lab has been engaged in on-going, productive collaborations with over a dozen local non-profit community-based organizations for 10 years. Our research focuses on assessing conditions and services that impact the health and well-being of Hawai'i's youth and adults. We primarily work with organizations serving historically marginalized communities as well as with members of these communities, which includes people who have experienced homelessness, individuals living with HIV, and persons with a serious mental illness. For example, we have worked collaboratively with service providers to understand and maximize the impact of social, health, and housing services, and have worked with formerly homeless individuals to build intentional communities. We use collaborative and empowerment evaluation approaches in concert with mixed-method and participatory research designs to ensure community buy-in and maximize our impact in the local community while contributing to scholarly research in the area. Our team has included more than two dozen undergraduate research assistants, a dozen graduate research assistants, and several post-docs.

Organizations: College of Social Sciences; Hawai'i Health & Harm Reduction Center; The Institute for Human Services; Residential Youth Services & Empowerment; Mental Health Kokua; Gregory House Programs; Partners in Care

Team Members: Jack Barile, PhD (Interim Director, SSRI & Professor of Psychology); Anna Pruitt, PhD (UH Faculty Affiliate/RCUH); Sophie Gralapp, PhD (Research Associate/RCUH); Sasha Helfner, MA (Research Associate/RCUH); Charles Iwata (Research Assistant/RCUH); Sarah Combs, MPH, MA (Graduate Research Assistant); Jaeho Kook (Graduate Research Assistant); Victor Limon, MA (Graduate Research Assistant); Marissa Minami (Graduate Research Assistant); Daisia Day-Dorman (Graduate Research Assistant); Lorie Okada (Research Associate/RCUH)

Website: <https://www.uhecolab.com/>

Contact: Jack Barile, Professor, College of Social Sciences, barile@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Expanding the Healthcare Workforce

One Health Initiatives

Reducing Health Disparities

Social Determinants of Health

Translational Research

16. Developing Data Trackers: Spotlighting Oral Health in Hawai'i

Description: The Hawai'i Health Data Warehouse (HHDW) team in the Thompson School Office of Public Health Studies (OPHS) worked with the Hawai'i State Department of Health (DOH) and the Hawai'i Oral Health Coalition from the Hawai'i Public Health Institute (HIPHI) to create the Oral Health Tracker in the hawaiihealthmatters.org (HHM) website. Data trackers are tools that can be used to assess health status and monitor the progress of select health indicators over time. The Oral Health Tracker is designed to monitor the burden of oral disease, use of the oral health care delivery system, and the status of preventive interventions including regular dental care and community water fluoridation. The tracker compiles state oral health data from national and state surveillance systems and program sources like Medicaid (QUEST) and Head Start. Healthy People 2030 targets are provided when available. It provides the diverse oral health stakeholders in Hawai'i (providers, academics, researchers, public health professionals, community members, etc.) a shared, accessible view of relevant data.

The Oral Health Tracker is one example of the data trackers that HHDW has developed in collaboration with DOH and relevant stakeholders. HHDW has worked with additional partners and DOH programs to complete data trackers including the DOH Family Health Services (Primary Care Needs Assessment tracker and Child & Family Mental Health tracker, in progress) and DOH Chronic Disease Prevention Health Promotion Division (trackers for Tobacco Prevention & Control 2030, Cancer Plan 2030, Healthy People 2030, Healthy Hawai'i Strategic Plan and Physical Activity & Nutrition). New partners that HHDW looks forward to working with are the Executive Office on Aging for a data tracker to support the Hawai'i Alzheimer's Disease State Plan.

Organizations: University of Hawai'i Office of Public Health Studies, Hawai'i Department of Health Family Health Services Division, Hawai'i Public Health Institute Oral Health Coalition, and Conduent

Team Members: Tonya Lowery St. John, Katherine Benson, Julia Chosy, Jill Yamashita, Kristine Hironaka, Saikaew Dudla, Becky Rodericks

Website: <https://www.hawaiihealthmatters.org/indicators/index/dashboard?alias=OralHealth>

Contact: Julia Chosy, Associate Specialist, Thompson School of Social Work and Public Health, jchosy@hhdw.org

Topical Areas Addressed:

Community Health Needs

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Reducing Health Disparities

Other: Data tracking and monitoring

17. Establishing the Asia-Pacific Research Center for Health Equity (ARCHE)

Description: Asian American (AsA), Native Hawaiian (NH), and Pacific Islander (PI) subpopulations have suffered long-standing health disparities. The primary goal of this proposal is to establish the Asia-Pacific Research Center for Health Equity (ARCHE), a new Center of Excellence integrating social and biomedical research to support a consortium of Clinical and Community Field Centers (CCFCs) affiliated with UH in sustaining existing and initiating new AsANHPI-focused cohort studies. ARCHE will lead in the overall management, coordination, communication, and relevant support to the CCFCs that enable the systematic investigation of risk, resilience, and other socioenvironmental mediators of the health of AsANHPI subpopulations. Exciting preliminary data from our team's ongoing multidisciplinary community-based studies involving AsANHPI biospecimens by experts in technology, informatics, public health policy, biomedicine, behavioral studies, statistics, epidemiology, who are also trusted members of the AsANHPI community, revealed remarkably extensive biological variability (e.g., genetic, epigenetic, gut microbiome, and inflammation biomarkers) relevant to health disparities in this population. Yet, how socioenvironmental factors contribute to this variability remain unknown. To address this and other research inquiries, we will leverage our investigator-community relationships, resources, and public-private partnerships and infrastructure to build and manage a database and biorepository in Hawai'i, a NIH IDeA jurisdiction, where two in three residents are of AsANHPI ancestry, the highest ratio in the nation. Our relationship with this population brings trust and strong academic-community alliances to ARCHE. We will leverage this unique support and embrace the cultural diversity and community values within the AsANHPI population to apply innovative data-driven approaches that will enable the CCFCs to engage, recruit, and retain their AsANHPI cohort participants. Such a diverse cohort will enable research in populomics, i.e., the integration of the molecular and population sciences, to advance medicine and health by characterizing the interplay between sociobehavioral pathways and the biologic/molecular mechanisms that underlie disease etiology. AsANHPIs have remained significantly underrepresented in these studies, resulting in aggregated reporting and insufficient inclusion of their unique historical, cultural, environmental, and social factors, into conceptual frameworks, perpetuating skepticism that further hinders their engagement in research. To address these multifaceted concerns, ARCHE combines scientific expertise with cultural knowledge to foster trust in the AsANHPI population and will work with the CCFCs on the following aims: (1) Develop and implement a collaborative community-informed process to maximize recruitment and retention of AsANHPI participants; (2) Develop and implement the common protocol and infrastructure to collect, track and optimize recruitment and retention; and (3) Implement, monitor, and optimize ARCHE operations to create, sustain, and advance the research impact of the AsANHPI Consortium.

Organizations: JABSOM

Team Members: 5

Website: www.hiseed.org

Contact: Alika Maunakea, Associate Professor,
John A. Burns School of Medicine,
amaunake@hawaii.edu

Topical Areas Addressed:

Community Health Needs
Environmental Health Sciences
Healthcare Workforce
Interprofessional Education
Reducing Health Disparities
Social Determinants of Health
Support for Rural and Remote Communities in Hawai'i
and the Pacific
Translational Research

18. Evaluating Health Information Technology in Routine Practice to Identify Undiagnosed Chronic Conditions

Description: This presentation will describe a five-year collaboration between the Office of Public Health Studies, the Hawai'i Department of Health (HDOH) Chronic Disease Prevention and Health Promotion Division, and the Queens Health System (QHS) to examine the use of clinical algorithms, a type of health information technology, to improve hypertension and diabetes detection and care for patients receiving routine primary care services. Central to this work is an assessment of this technology within a health disparity framing. This collaboration was the result of support from two Centers for Disease Control and Prevention cooperative agreements with the HDOH and is representative of federal prioritization to better use health information technology to improve patient care, especially for federally recognized medically underserved communities.

Faculty and students in the Office of Public Health Studies (OPHS) provided external evaluation services to the HDOH as they developed and implemented automated algorithms. The HDOH worked closely with QHS to integrate these algorithms into their electronic health systems, while OPHS faculty provided technical assistance, process, and program evaluation during the multi-year collaboration. Work by the OPHS faculty involved quantitative and qualitative data analysis. Critically, OPHS contributions included examining the de-identified clinical records of approximately 15,000 patients to assess the algorithm's effectiveness at detecting cases of hypertension and diabetes that might have been missed during routine care. To date, the OPHS team has conducted three evaluations of the health information technology, provided numerous reports and technical briefs to HDOH and QHS, prepared two scientific manuscripts, and gave one conference presentation.

Organizations: Office of Public Health Studies

Team Members: Lance Ching, Blythe Nett, Hermina Taylor, Tiffany Lemmen, Tetine Sentell, Meghan McGurk, Yan Yan Wu, Mika Thompson, L. Brooke Keliikoa, Michelle Quensell, Amber Sophus, David Stupplebeen,

Website: n/a

Contact: Catherine Pirkle, Associate Professor, Thompson School of Social Work and Public Health, cmpirkle@hawaii.edu

Topical Areas Addressed:

Community Health Needs
Reducing Health Disparities
Translational Research

19. Evolutionary Medicine Sheds a Light on Genetic Mechanisms of the Nutritional Treatment for Autism

Description: Autism spectrum disorder is underpinned by complex multigenic effects and an effective treatment is longed for. A ketogenic diet treatment emerged as less side-effect slow-acting treatment for autism, yet, basic cellular and genetic mechanisms are largely unknown. Our team uses a fish genetic model system, consists of typical and asocial populations. More than 3,000 genes of this asocial population are dysregulated in a similar way with patients with autism. Our collaborative team uses this fish system as a test platform to address the cellular and genetic responses to the ketosis and the ketone bodies, which are induced by the ketogenic diet treatment.

Organizations: School of Life Sciences

Team Members: Ryan Lee, and Miki Wong (Medical Staff Department, and Nutrition Services Department at Shriners Hospitals for Children, Honolulu), and Yoshizawa lab at School of Life Sciences

Website: n/a

Contact: Masato Yoshizawa, Associate Professor, School of Life Sciences, yoshizaw@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Translational Research

20. The Hawai'i Child Welfare Education Collaboration: Helping to Build the Child Welfare Workforce

Description: Many states have partnerships between the state child welfare agency and a state university to build the child welfare workforce through specialized training of Masters of Social Work (MSW) students. Often, these programs are funded through Title IV-E federal funding streams. These partnerships provide a stipend to MSW students, and in return the students sign a contract to work for the associated child welfare agency for pre-determined amount of time.

Due to a need to increase the child welfare workforce, particularly with skilled MSW's, the Department of Human Services (DHS) Child Welfare Services Branch (CWS) and the Thompson School of Social Work & Public Health developed a partnership to create the Hawai'i Child Welfare Education Collaboration (HCWEC) similar to states with Title IV-E programs.

Organizations: University of Hawai'i at Mānoa, Thompson School of Social Work & Public Health, Department of Social Work and the Department of Human Services, Child Welfare Services

Team Members: Francie Julien-Chinn and Azure Lwin-Maluo

Website: <https://manoa.hawaii.edu/hcwec/>

Contact: Francie Julien-Chinn, Assistant Professor, Thompson School of Social Work and Public Health, fjjc@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Expanding the Healthcare Workforce

21. Hawai'i Behavioral Health Training Institute: Behavioral Health Workforce Education and Training (BHWET) Program for Paraprofessionals

Description: The HBHTI is a multi-year grant funded by the Health Resources and Services Administration (HRSA) to support behavioral health paraprofessional workforce development. Specifically, Certified Substance Abuse Counsellor (CSAC) candidates are the behavioral health paraprofessional we run the program for. Through the support of the grant, our program aims to enhance the access and availability of quality substance use disorder (SUD) counselors to foster an integrated approach to providing behavioral health prevention, treatment, and recovery services to persons with SUDs in high-need and high-demand areas.

Our project consists of two levels: Level 1 and Level 2. Through the HBHTI award, Level 1 participants receive a tuition scholarship and stipend to earn a Certificate of Competence in Substance Use Disorders Counseling or Substance Abuse Counseling (COSUDS) from Leeward CC and the University of Hawai'i Maui College. In addition, after earning their COSUDS certificate, half of the Level 1 completers have the opportunity to enroll in the Level 2 HBHTI Apprenticeship Program, which is registered with the State of Hawai'i Department of Labor and Industrial Relations. Apprentices will receive on-the-job training, enhanced online training and on-the-job training hours toward becoming a CSAC."

Organizations: UH Mānoa Thompson School of Social Work & Public Health, Department of Social Work; Leeward Community College (Leeward CC); University of Hawai'i Maui College; Hawai'i Community College; UH Mānoa Outreach College; Hawai'i Department of Labor and Industrial Relations (DLIR), Workforce Development Division (WDD); State of Hawai'i Department of Health (DOH), Behavioral Health Administration, Alcohol and Drug Abuse Division (ADAD); and Substance Use Disorder (SUD) Prevention, Treatment & Recovery Agencies throughout the state

Team Members: Seunghye Hong (PI), Gwen Williams (Co-PI), Connie Emory-Khenmy (Project Coordinator), Sunja Kim (sustainability specialist), Austin Ajimura (Graduate Assistant), Janette Lee (graduate student assistant), and Melvin Dizon (undergraduate student assistant)

Website: www.hawaii.edu/hbhti

Contact: Seunghye Hong, Associate Professor, Thompson School of Social Work and Public Health, shong9@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Expanding the Healthcare Workforce

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Support for Rural and Remote Communities in Hawai'i and the Pacific

22. Hawai'i Health Data Warehouse: A UH-DOH Partnership for Health Data

Description: HHDW is a longstanding partnership between the Hawai'i State Department of Health (DOH) Chronic Disease Prevention Health Promotion Division (CDPHPD) and the University of Hawai'i at Mānoa, Office of Public Health Studies (OPHS) at the Thompson School of Social Work & Public Health. In 2001, the HHDW was created to standardize the collection and management of public health data for the state of Hawai'i and to make it available to the public. HHDW administers the design, development, and management of a centralized data repository. The primary data sources available through HHDW are population-based health surveillance data including the Behavioral Risk Factor Surveillance System (BRFSS), Pregnancy Risk Assessment Monitoring System (PRAMS), Youth Tobacco Survey (YTS), Youth Risk Behavior Survey (YRBS), and Vital Statistics (birth and death data). HHDW is dedicated to disseminating data to support public health professionals, the community, and health agencies to become more effective in the application of health data. The data can be viewed by various demographics and geographies to understand how health behaviors and outcomes differ across our diverse population in Hawai'i.

The HHDW team works closely with the data owners across multiple divisions at DOH including CDPHPD, Family Health Services Division, Office of Health Status Monitoring, Alcohol & Drug Abuse Division, and with the Hawai'i Department of Education. HHDW also assisted DOH's Disease Outbreak Control Division during the Covid-19 pandemic. In addition, HHDW representatives participate in many statewide data committees to contribute their data expertise including DOH Data Governance, Hawai'i Health Survey Committee, and Laulima Data Alliance. Collaborative relationships with these partners are essential to ensuring high quality data is available for the public. Public users have instantaneous access to the data through our websites, data requests, and training opportunities:

1. HHDW.org: Allows public users to make use of the interactive query and reporting capabilities.
2. Hawai'i Health Matters (HHM; hawaiihealthmatters.org): Provides compressed data with contextual content for the general community. It is HHDW's sister website that is an easy-to-use platform that presents health indicators in reports that can be assessed individually or assembled in a collection to form a tracker.
3. Data requests: Special data requests may be requested by submitting proposals and acknowledging data use and data share agreements if additional information is needed. Many local organizations have worked with HHDW to request data including: Kamehameha Schools, Papa Ola Lokahi, Hawai'i Public Radio, Civil Beat, Honolulu Police Department, Maui Youth and Family Services, Aloha Care, Hawai'i Health & Harm Reduction, Hawai'i Public Health Institute, and Kaua'i District Health Office to name a few.
4. Training: HHDW hosts monthly training to the community through our monthly webinar "Coffee Breaks" that teaches users more about our data sets and how to work through particular tasks on HHDW and Hawai'i Health Matters. Members of the community can join live or watch a recording of our trainings on our YouTube Channel. Our partners and the wider community regularly attend these trainings. In addition, the team holds interactive working sessions for DOH, community partners, students/faculty, and general HHDW users as requested.

Organizations: University of Hawai'i Office of Public Health Studies, Hawai'i Department of Health Chronic Disease Prevention Health Promotion Division

Team Members: Tonya Lowery St. John, Katherine Benson, Julia Chosy, Jill Yamasita, Kristine Hironaka, Saikaew Dudla, Becky Rodericks

Website: <https://uhero.hawaii.edu/uhero-rapid-health-survey/>

Contact: Tonya Lowery St. John, Associate Specialist, Thompson School of Social Work and Public Health, tlowerystjohn@hhdw.org

Topical Areas Addressed:

Innovative Government/Industry/Education Partnerships
Reducing Health Disparities
Social Determinants of Health
Other: Data warehouse

23. Hawai'i Interprofessional Education (HIPE) - Collaboration in Action

Description: On March 17, 2014, the Deans and Directors of the UH Council of Health Sciences (CHS), charged a group of faculties to establish an Interprofessional Education (IPE) workgroup to address core competencies for interprofessional collaboration and education. The IPE workgroup would later be renamed the Hawai'i Interprofessional Education (HIPE) Committee and continues to consist of faculty members from the John A. Burns School of Medicine, Nancy Atmospera-Walch School of Nursing, Department of Dental Hygiene, Thompson School of Social Work and Public Health, and the Daniel K. Inouye College of Pharmacy. HIPE's mission is to prepare all health professional students to collaborate in providing a safe, effective and sustainable patient centered, population-oriented health care system.

Curriculum for interprofessional collaborative practice and education is designed to meet program accreditation requirements and address evolving challenges facing healthcare. HIPE clinical and simulation activities integrate IPE core competencies, are grounded in team-based collaborative practice and address Social Determinants of Health. During calendar year 2022, HIPE provided over 1,500 student encounters (students represented 13 different health or allied science programs and the College of Education). During the COVID-19 Pandemic, IPE simulation programs were transitioned online which expanded HIPE's outreach to students located on neighbor islands and within the Pacific Basin. During the past three years of the pandemic, IPE and collaborative practice activities were developed to address telehealth, COVID-19 training and the homeless population. Expansion of HIPE's programs include an IPE approach to trauma informed care, the opioid epidemic, climate change and emerging infectious diseases.

Organizations: Hawai'i Interprofessional Education (HIPE) - JABSOM, NAWSON, DKICP, TSSWPH

Team Members: Lorrie Wong, Lisa Kehl, Kamal Masaki, Sheri Tokumaru, Robin Arndt

Website: n/a

Contact: Lorrie Wong, Interim Associate Dean for Academic Affairs, Director of UH THSSC & HMSA Distinguished Professor, Nancy Atmospera-Walch School of Nursing, lorriew@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Healthcare Workforce

Interprofessional Education

Social Determinants of Health

24. Hawai'i Journal of Health & Social Welfare: A Not So Hidden Gem

Description: The aim of the Hawai'i Journal of Health & Social Welfare (HJH&SW) is to advance knowledge about health and social welfare, with a focus on the diverse peoples and unique environments of Hawai'i and the Pacific Islands. HJH&SW has long history in the islands and region. The journal was first published in 1941 as the Hawai'i Medical Journal by the Hawai'i Medical Association which was incorporated in 1856 under the Hawaiian monarchy. In 2012, it merged with the Hawai'i Journal of Public Health, a collaborative effort between the Hawai'i State Department of Health (DOH) and the University of Hawai'i at Mānoa Office of Public Health Studies (OPHS), to form the Hawai'i Journal of Medicine & Public Health, and this journal continued to be supported by the DOH and the John A. Burns School of Medicine (JABSOM). In 2018, the number of partners providing financial backing for the journal expanded. To reflect this expansion, the name of the journal was changed in 2019 to the Hawai'i Journal of Health & Social Welfare. The lead academic partners are now the five units of the UH College of Health Sciences and Social Welfare, including the JABSOM, Thompson School of Social Work & Public Health (sponsored separately by Public Health and Social Work), the Nancy Atmospera-Walch School of Nursing, the UH Cancer Center, and the Daniel K. Inouye College of Pharmacy. Other partners are the DOH and the UH Office of the Vice Chancellor for Research. The journal is fiscally managed by University Health Partners of Hawai'i.

The Hawai'i Journal of Health & Social Welfare is a monthly peer-reviewed journal, available in hardcopy by subscription with full-text articles available on PubMed Central and via the journal website. The monthly publication is indexed in Medline and Scopus databases. HJH&SW publishes a wide array of original articles, literature reviews, case reports and columns from the contributing academic partners and the DOH. Each participating unit is represented on the Editorial Board by a Contributing Editor who solicits and edits columns from their school. Additionally, HJH&SW partners with organizations, university divisions, and other research units to produce topic-specific issues of the journal known as supplements. Recent supplement topics have included: Toward a Hawai'i State Plan for the Substance Use System of Care: Implications for a Healing System among Public Sectors and Health Disparity Populations, Hawai'i's Health Care Workforce, University of Hawai'i Orthopaedic Residency Program, Original Research from the Department of Surgery, to name a few. HJH&SW is a unique asset to the UH system and greater health community in the our region as it is an open access journal with no publication fees. HJH&SW is a teaching journal that provides an important venue for new, scantily funded, and niche, Pacific Islands and Islander, focused research to reach the broader academic, medical, nursing, public health, social work, pharmacy and cancer communities.

Organizations: University of Hawai'i Office of Public Health Studies, John A. Burns School of Medicine, Hawai'i Department of Health Chronic Disease Prevention Health Promotion Division, Nancy Atmospera-Walch School of Nursing, Daniel K. Inouye College of Pharmacy, Thompson School of Social Work & Public Health, UH Office of the Vice Chancellor for Research, UH Cancer Center, University Health Partners

Team Members: Kalani Brady, Tonya Lowery St. John, Drake Chinen, Jordan Marshall

Website: <https://hawaiijournalhealth.org/>

Contact: Tonya Lowery St. John, Associate Specialist, Thompson School of Social Work and Public Health, tlowerystjohn@hhdw.org

Topical Areas Addressed:

Clinical Training Partnerships

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Expanding the Healthcare Workforce

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Interprofessional Education

Interprofessional Patient Care Partnerships

Reducing Health Disparities

Social Determinants of Health

Support for Rural and Remote Communities in Hawai'i and the Pacific

Translational Research

Other: Publication and Dissemination

25. Hawai'i Pandemic Modeling Task Force

Description: It is clear today that mathematical models play an important role in understanding the extent of a pandemic and forecasting the impacts of mitigation measures as well as accounting for changes in the dynamics of the disease. The pandemic created a high demand about health data and real-time health situation and response, as well as clear messaging to the public. It presented an opportunity to the University to partner and build multiple data products and dashboards in the public's interest.

Hawai'i Pandemic Applied Modeling Work Group (HiPAM) convened community partners, Hawai'i Data Collaborative, DOH, and UH faculty in Life Sciences, Maui College, Computer Sciences, Math, Physics to develop accurate forecasts for Hawai'i calibrated with local data and using best available science and evidence.

Organizations: Natural Sciences/ Mathematics

Team Members: Victoria Fan, Thomas Lee and the entire HIPAM team that span over multiple units

Website: <https://www.uhmdatascienceteam.com/> (the HIPAM website is not longer up)

Contact: Monique Chyba, Professor, College of Natural Sciences, chyba@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Translational Research

26. Health Disparities Data Projects to Improve Data Collection in the State

Description: As part of the CDC 2103 grant with the Hawai'i Department of Health (DOH), HHDW is spearheading two projects aimed at reducing health disparities. The first project aims to identify how social determinants of health (SDoH) data is captured across different data collection systems in the DOH. SDoH are important in identifying health disparities across populations and knowing which system is collecting what data helps us to understand overlaps and gaps in data collection. With the collaboration of participating programs at the DOH, the HHDW team is creating a catalog of SDoH data items being collected across the department. This information will be essential to the DOH's new Office of Health Equity as they grow and develop goals for the department. It may also provide aid to DOH programs who are interested in health equity.

The second one involves the method of analyzing and reporting race/ethnicity data in several of the data sources in the warehouse. As disparities are known to exist by race/ethnicity, the methods used to capture and analyze the data are critical to identifying at-risk and high-need groups. The way a population is classified and reported by race/ethnicity can affect funding, program planning, and intervention services. Therefore, it's critical to ensure that race/ethnicity classification and reporting methodology is as accurate as possible in our public health surveillance systems, including health surveys and vital statistics. With the state's diverse population and high prevalence of multiracial individuals, collecting race/ethnicity data and simplifying it down to analyzable categories is a challenge. Health behaviors will be examined by different race/ethnicity classifications and reporting methods to examine how/if rates change depending on which classification and reporting method is used. We hope to identify a system that can be used across data sources to ensure consistent and accurate coding of race/ethnicity across our state's population. This will benefit HHDW, the DOH, and the state in general.

Organizations: University of Hawai'i Office of Public Health Studies, Hawai'i Department of Health Chronic Disease Prevention Health Promotion Division

Team Members: Tonya Lowery St. John, Katherine Benson, Julia Chosy, Jill Yamashita, Kristine Hironaka, Saikaew Dudla, Becky Rodericks

Website:

hhdw.org

hawaiihealthmatters.org

Contact: Julia Chosy, Associate Specialist, Thompson School of Social Work and Public Health, jchosy@hhdw.org

Topical Areas Addressed:

Innovative Government/Industry/Education Partnerships

Reducing Health Disparities

Social Determinants of Health

Other: Data collection and reporting standards

27. A Health Humanities Minor for UHM

Description: Even before the acute challenges of Covid, university programs in health humanities have gained popularity, building on the realization that “the arts and the humanities can play a unique and unrealized role in preparing and equipping physicians for 21st-century challenges” (AAMC 2020). The Health Humanities Minor aims to bring a health / medical humanities program, modeled on successful programs nationwide, to UH Mānoa. Health humanities courses build cross-cutting analytical, contextual, communication, and expressiveness skills. Students gain understanding of how cultural values, politics, and economic structures undergird our public health. They develop new insights regarding sustainability, Native Hawaiian health, and health equity.

A health humanities minor at UHM will be a 15-credit interdisciplinary undergraduate program. The minor will be housed in History, which offers an appropriate foundation course (HIST 156: World History of Human Disease) as well as several relevant upper-division courses. History also offers both faculty and staff advisors who can guide students through the program. The goals of the minor are to:

- * Facilitate student access to key curricula including history of medicine and science, social and cultural factors in medical practice, and medical ethics;
- * Develop student skills in empathic understanding and creative expression, which can enhance lifelong learning and lessen professional burnout;
- * Support Native Hawaiian and Pacific Islander professional success and health equity;
- * Create access points to pre-health programs for students from historically under-represented groups;
- * Motivate student success in general education requirements;
- * Connect undergraduate public health, pre-med, and nursing programs and the humanities;
- * Enhance student competitiveness for graduate programs and career readiness.

Organizations: UHM College of Arts, Languages & Letters (college-wide)

Team Members: Shana Brown, Markus Wessendorf (Theatre + Dance), Dean Kimi Kondo-Brown (CALL)

Website: n/a

Contact: Shana Brown, Associate Professor and Department Chair, College of Arts, Languages and Letters, shanab@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships
Community Health Needs
Environmental Health Sciences
Expanding the Healthcare Workforce
Healthcare Workforce
Interprofessional Education
Social Determinants of Health

28. Hear Us: A Collaborative Effort to Improve Vaccination Among Vulnerable Populations

Description: Purpose: The purpose of this study is to increase the U.S. Food and Drug Administration's (FDA) understanding of how to communicate effectively with Blacks, Hispanics, and Native Hawaiian and Pacific Islanders (NHPI) regarding COVID-19 and COVID-19 vaccinations. Hispanic, Black, and Pacific Islander populations in the United States have suffered a disproportionate burden in terms of morbidity, mortality, and quality of life as a result of the COVID-19 pandemic. The study will conduct focus groups to understand how to tailor culturally relevant communication messages and campaigns needed to increase receipt of COVID-19 vaccinations and booster shots for these vulnerable populations.

Participants: 15 focus groups, each with 6-8 participants, for a total of 90-120 unvaccinated and vaccinated, adult members (age >18 years at time of enrollment) who self-identify as Black, Hispanic or NHPI and whose primary language is English or Spanish. Participants will be recruited from each of our six minority-serving institutions: University of Puerto Rico, University of Texas at Houston, Nova Southeastern University at Fort Lauderdale, Howard University in Washington, DC, Meharry Medical College in Nashville, and The Queen's Medical Center in Honolulu. We will use a single IRB approach, with University of Puerto Rico being the reviewer (reliance requesting site).

Organizations: DKICP; Public Health & Social Work; JABSOM; QHS

Team Members: Deborah Taira; Todd Seto; Tetine Sentell

Website: n/a

Contact: Deborah Taira, Professor at the Daniel K. Inouye College of Pharmacy (DKICP) at the University of Hawai'i at Hilo, dtjuarez@hawaii.edu

Topical Areas Addressed:

Emerging & Ongoing Health Threats to Hawai'i and the Pacific
Reducing Health Disparities

29. Impact of Micronutrient Flash Flood Runoff on the Hawaiian Population

Description: This proposal responds to the announcement of an NIH funding opportunity, RFA-ES-23-007 - Exploratory Grants for Climate Change and Health Research Center Development (P20 Clinical Trial Optional; deadline Nov/2023), that tackles health issues generated, enhanced or aggravated by climate change, and aims to initiate, in a 3-year interval, the development of a Center of Excellence at applicant institutions. The proposed collaborative research is in the initial stages of development, yet we have already attended an NIH information webinar elucidating the NIH vision for this proposal mechanism and contacted the NIH Program Officer. We are working with Sea Grant to start assembling a team of experts and community leaders to help us develop this application. As a transdisciplinary research team, we envision the development of a Center that is focused on the health of coastal communities in the Pacific Islands that are affected by climate change driven nutritional transitions. This would include issues such as the contamination of coastal resources by land-based pollutants delivered via runoff and groundwater, challenges associated with growing crops in areas affected by sea level rise and groundwater inundation, and understanding the ecological consequences of climate migration on sustainable stewardship practices.

Dr. Seale is an expert in micronutrient intake and metabolism, with a particular focus on their influence on human health and metabolic diseases, such as obesity and type 2 diabetes, which drive significant health disparities in Hawai'i and other Pacific Islands. Dr. Nalley has expertise in issues pertaining to coastal ecosystem health, such as land-based pollutants in commonly consumed reef fishes and ciguatera, and she led a systematic review of reported contaminant concentrations in fishes throughout the Pacific. Because the project is still in its inception stage, this venue will provide an opportunity for us to connect with other colleagues who may be interested in collaborating in the scoping and eventual development of this Center. The proposal will include 1-2 specific projects but will also lay the foundation and infrastructure for ongoing research that spans health, earth, biological, and social sciences. Combining the expertise of Drs. Seale and Nalley, we plan to focus the Center on the impact of runoff pollution and its threat to health diets, particularly micronutrient intake and status, in Hawai'i inhabitants, and the consequences that runoff pollution will generate to the population. The short-term goal of the project is to develop the research infra-structure to rapidly identify high risk locations for climate change driven health impacts, based on pre-existing risk, dietary sources, and pathologies that may be exacerbated by micronutrient imbalances. Our long-term vision is to resolve concerns about geographical areas, dietary sources and pathologies for which micronutrient imbalance may lead to detrimental health for impacted populations. A long-term goal is to establish UH as a world leader in research addressing climate change impacts on coastal community health.

Organizations: PBRC and Sea Grant/ SOEST at the University of Hawai'i at Mānoa

Team Members: Lucia Seale (PBRC) and Eileen Nalley (Sea Grant)

Website: n/a

Contact: Lucia Seale, Assistant Researcher, SOEST, lseale@hawaii.edu

Topical Areas Addressed:

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Environmental Health Sciences

Impacts of Climate Change

30. Improving Children's Mental Health in Hawai'i: Training, Service, and Research Partnerships between Psychology, Health, and Education Sectors

Description: The Center for Cognitive Behavior Therapy (CCBT) is a training, service and research university-based clinic housed in the Department of Psychology at the University of Hawai'i at Mānoa. The CCBT provides practicum training to UH Psychology Clinical Studies Program graduate students, under the supervision of Department faculty members who are also licensed clinical psychologists in Hawai'i. Training for our graduate students occur with both our state's Department of Health, Child and Adolescent Mental Health Division (CAMHD), and Department of Education, School-Based Behavioral Health Program (DOE).

Within both CAMHD and DOE sectors, our staff and graduate students provide a wide variety of training, service, and research activities. For instance, clinical assessment and intervention services are provided to youth and their families registered for mental health services with the CAMHD and/or the DOE. We also provide consultation, training, and research services to both sectors as well. Our partnerships with the CAMHD and the DOE are mutually beneficial for a variety of reasons. From the CAMHD's and DOE's perspectives, they receive support and assistance with delivering evidence-based assessment and treatment services to their youth and families. Our supports for consultation, training, and research also help with numerous large-scale quality improvement initiatives from each of those sectors. From the perspective of our psychology department, benefits include cutting-edge training for our students in real-world settings as well as the opportunity to conduct important and large-scale research projects that directly impact our state's youth and families. Research conducted in partnership with the CAMHD and the DOE has contributed to the advancement of knowledge at local, national, and international levels.

Organizations: Department of Psychology, College of Social Sciences; partners include State of Hawai'i Child and Adolescent Mental Health Division (CAMHD) and Department of Education (DOE)

Team Members: Brad Nakamura (Professor of Psychology and Director of the Center for Cognitive Behavior Therapy); Scott Shimabukuro (Previous Acting Administrator for CAMHD); Ayada Bonilla (School-Based Behavioral Health Educational Specialist for DOE)

Website: <https://psychology.manoa.hawaii.edu/ccbt/>

Contact: Brad Nakamura, Professor and C-CCBT Director, College of Social Sciences, bradn@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships
Community Health Needs
Expanding the Healthcare Workforce
Healthcare Workforce
Innovative Government/Industry/Education Partnerships
Reducing Health Disparities

31. Improving the Health and Wellbeing of America's Workforce

Description: Our team is part of an on-going synergistic research collaboration (the NIOSH Mental Health and Social Determinants Research Collaborative) first established over fifteen years ago. Our work is broadly focused on the health and well-being of US adults but turned more narrowly towards workforce health and safety in 2017. Initially, our work focused on training programs aimed at improving the health and safety of young workers. Then in Spring 2020, our team was recruited to lead social science research on COVID-19 mitigation strategies by US CDC leadership. Subsequently, our work in the last three years has focused on the impact of the COVID-19 pandemic on employment, well-being, and the quality of life of US adults.

Our work has resulted in the establishment of Intergovernmental Personnel agreements between UH faculty and the US CDC. This builds our capacity to access critical data and expertise. Moreover, this work has already resulted in dozens of peer reviewed papers, including two that appeared in CDC's flagship journal Morbidity and Mortality Weekly Report during the height of the pandemic. This work has also been picked up by several national media outlets, including the New York Times, ABC News and Good Morning America, as well as local outlets, including the Star Advertiser, Civil Beat, and Hawai'i Public Radio.

Organizations: University of Hawai'i at Mānoa, College of Social Sciences; Columbia University, School of Public Health and Nursing; National Institute for Occupational Safety and Health, US Centers for Disease Control and Prevention; National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention

Team Members: Jack Barile, PhD; Tony Papa, PhD; Haomiao Jia, PhD; Rebecca J. Guerin, PhD; Andrea H. Okun, DrPH; William W. Thompson, PhD

Website: n/a

Contact: Jack Barile, Professor, College of Social Sciences, barile@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Expanding the Healthcare Workforce

Healthcare Workforce

One Health Initiatives

Reducing Health Disparities

Social Determinants of Health

Translational Research

32. Increasing Access to Clinical Pharmacists

Description: Presentation will briefly describe 2 projects: 1) Collaboration with medical school, social work, college of pharmacy & community organization that provides behavioral health services that created webinars to for students to improve resilience, leadership skills, improving the patient provider relationship and understanding factors that those that are houseless face when managing diabetes or prediabetes; 2) Collaboration with Straub to increase pharmacist management of DM and HTN pilot project to improve health outcomes

Organizations: Project #1) UH Hilo Daniel K Inouye College of Pharmacy, UH Mānoa JABSOM, Thompson School of Social Work, I Ola Lahui Hawai'i; Project #2) Straub Medical Center

Team Members: n/a

Website: n/a

Contact: Camlyn Masuda, Associate Specialist at the Daniel K. Inouye College of Pharmacy at the University of Hawai'i at Hilo and Assistant Clinical Professor at the John A. Burns School of Medicine at the University of Hawai'i at Mānoa, camlynm@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Expanding the Healthcare Workforce

Interprofessional Education

Interprofessional Patient Care Partnerships

Reducing Health Disparities

33. Linking Poi, 'Aina, Microbes, and Health

Description: Poi is a traditional Hawaiian food made from pounded taro, which plays a central role in the culture and diet of Native Hawaiians. However, consumption of poi has declined in the typical Hawaiian diet, and this trend coincides with increased prevalence of metabolic disorders, including diabetes and obesity. Whether poi consumption plays a causal role in these health trends is unclear. Concerningly, with a few exceptions, the health effects of poi have been largely overlooked by western medical and scientific research. Our group strives to deepen understanding of the health benefits of poi. We are particularly interested in the role of microbes in such health effects. For example, bacteria found in poi may have direct health effects (i.e., poi as a probiotic), or poi may provide nutrients that support a beneficial gut microbiome (i.e., poi as a prebiotic), among other potential health benefits. This effort is a collaboration between researchers specializing in Hawaiian Health (JABSOM), microbial ecology (SOEST/PBRC), and community partner Kanaka O Puna. This talk will present an overview of our current research activities and touch on opportunities and challenges encountered in this process.

Organizations: SOEST/PBRC, JABSOM, Kanaka O Puna

Team Members: Dr. Alike Maunakea, Mr. Iopa Maunakea

Website: n/a

Contact: Andrea Jani, Assistant Researcher, Pacific Biosciences Research Center, janiam@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Reducing Health Disparities

34. Machine Learning AI and Addiction Treatment

Description: Starting with supervised Machine Learning (ML), the team is using 40 million treatment records from addiction treatment facilities across the US to understand treatment types that improve patient recovery outcomes. Currently, the team is focused on people with stimulant, alcohol or opioid use disorders, and access to healthcare, treatment and recovery support in the community. The team aims to build Random Forests in ML that consists of decision-making trees of patients choosing to enter treatment and the sequential choices made.

Organizations: UHM, Kinesiology & Rehab Science, UHCC, Rehab Hospital of the Pacific, Kap Med Ctr for Women & Children

Team Members: n/a

Website: n/a

Contact: Treena Becker, Researcher, Thomson School, tsbecker@hawaii.edu

Topical Areas Addressed:

Reducing Health Disparities

Social Determinants of Health

35. The Mānoa Angiostrongylus Research Group (MARG): Rat Lungworm Disease in Hawai'i and Globally

Description: The MARG was formed in 2019 to stimulate collaboration and synergy among diverse researchers across UH Mānoa, all working on rat lungworm disease. The group is transdisciplinary, spanning research on biodiversity, ecology, parasitology, microbiology, epidemiology, food safety, diagnosis and treatment (human and veterinary), and public health. It has the potential to establish a quintessentially One Health approach to understanding rat lungworm.

Members of the MARG have collaborated within Hawai'i with the Departments of Health and Agriculture, and the School of Pharmacy at UH Hilo (with whom an NIH novel drug discovery award is pending). Two members (Cowie, Ansdell) serve on the Governor's Joint Task Force on Rat lungworm Disease, which, led by Ansdell produced comprehensive guidelines for diagnosis and treatment of rat lungworm disease. Beyond Hawai'i, collaboration with UCLA and the University of Florida were key to production of a documentary—Accidental Host: the Story of Rat Lungworm disease—which aired on PBS Hawai'i recently, is currently being aired at other PBS stations around the US, and will be aired on April 14 in the UHM Law School (Cowie and Ansdell were the scientific advisers). An educational paper aimed at the US medical community was also published in collaboration with UCLA. A nascent collaboration on the global spread of rat lungworm is being developed with the University of Washington. International collaborations have involved training a One Health program master's student at the Royal Veterinary College / School of Hygiene and Tropical Medicine (University of London), and additional projects with researchers at the Universities of Sydney (Australia), Belfast (UK), and Mallorca and La Laguna (Spain), focused in large part on the spread of rat lungworm globally in the context of climate change—it is now on six continents.

Organizations: Mānoa Angiostrongylus Research Group: PBRC, CTAHR, JABSOM, SoLS, UHWO

Team Members:

Robert Cowie, Kiana Frank, Matthew Medeiros (PBRC)
Jenee Odani (CTAHR)
Vernon Ansdell, William Gosnell, Kenton Kramer (JABSOM)
Randi Rollins, Amber Wright (SoLS)
Jourdan Posner (UHWO, formerly JABSOM)

Website: n/a

Contact: Robert Cowie, Professor, Pacific Biosciences Research Center, cowie@hawaii.edu

Topical Areas Addressed:

Community Health Needs
Emerging & Ongoing Health Threats to Hawai'i and the Pacific
Impacts of Climate Change
Interprofessional Education
One Health Initiatives
Translational Research

36. Marine Pollution & Human Health Risks in Pacific Island Fisheries

Description: We will introduce an interdisciplinary team that bridges health and marine sciences to investigate and address marine pollution in the Pacific. We will present research conducted in the Republic of the Marshall Islands (RMI), a country with a legacy of pollution from military activities and more recently, rapid urbanization. This project was funded by the Marshall Islands Marine Resource Authority under the auspices of the World Bank's Pacific Regional Oceanscape Program. The overall objective of this work was to assess the human health risks associated with consuming fish from a range of locations in the Marshall Islands that vary in population density, land use history, fishing practices, and current management. Fish were sampled across six atolls to examine multiple marine pollution threats: (1) dissolved contaminants, such as mercury, polychlorinated biphenyls (PCBs), and organochlorine pesticides, in reef and pelagic fishes (e.g., tuna); (2) micro and nano plastics in commonly consumed reef fishes (e.g., parrotfish); and (3) evidence of fecal matter pollution in the waters of Majuro Lagoon. Secondary data analysis was also conducted to understand fish consumption patterns in the country, and a supplementary systematic review of contaminant concentrations reported in reef fish across the Pacific contextualized the findings of this study.

The project provided critical and largely absent data on marine pollution in the Marshall Islands, including 'good news' results, such as no evidence of microplastics in the guts of fish and very low organochlorine concentrations in commonly consumed fish species. We also confirmed previous reports by the U.S. military documenting concerning PCB levels at certain locations and exceptionally high mercury concentrations in one species of commonly consumed tuna. In addition to working closely with World Bank representatives, the team directly collaborated with local agencies governing environmental and human health in the RMI, including the Marshall Islands Marine Resources Authority, RMI Environmental Protection Agency, and the RMI Ministry of Health and Human Services. The results from this project provide an essential foundation upon which to build public health recommendations and communication strategies related to the consumption of fish. The work conducted by this team, given its scope, depth, and interdisciplinarity, provides an excellent example for other researchers interested in similar subjects. Finally, collaborative efforts from the team have continued, including a Strategic Public Health Initiative on Oceans and Human Health and another solicitation from the World Bank for a proposal to conduct similar work with the Ministry of Fisheries in Kiribati.

Organizations: Thompson School of Social Work and Public Health; Hawai'i Institute of Marine Biology; University of Hawai'i Sea Grant College Program; NOAA Pacific Islands Fisheries Science Center

Team Members: Megan J. Donahue, Catherine Pirkle, Eileen Nalley, Rachel Dacks, Jonathan Whitney

Website: n/a

Contact: Megan Donahue, Associate Researcher, SOEST, donahuem@hawaii.edu

Topical Areas Addressed:

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Environmental Health Sciences

One Health Initiatives

37. Medical-Legal Partnership for Children in Hawai'i: Interprofessional Education and Practice to Address the Social Determinants of Health

Description: The Medical-Legal Partnership for Children in Hawai'i (MLPC) was founded nearly fifteen years ago as a partnership between the William S. Richardson School of Law, the John A. Burns School of Medicine, and Kokua Kalihi Valley Comprehensive Family Services (KKV), a federally qualified health center. Since 2009, MLPC lawyers and doctors have worked on-site at KKV health center to provide free, direct legal services to over 2,000 low-income and mostly immigrant families. MLPC attorneys and law students often meet with families right in the exam rooms, while children wait for their vaccinations and booster shots. MLPC reaches hundreds more every year through "Advocacy Academy" and community education. MLPC also engages in systemic advocacy and health policy work alongside the communities we serve. We are particularly known for our Micronesian community advocacy.

Since its inception, MLPC has been a site for interprofessional education of post-graduate Law Fellows and JABSOM Pediatric Residents, as well as law and medical/health students, to come together to focus on the social determinants of health (SDOH) in a clinical setting. For many years, MLPC Directors have trained lawyers, doctors, and students; presented annual lectures on MLP and SDOH for medical and public health students; hosted site visits for community health students; and conducted grand rounds and other conference presentations. MLPC Hawai'i won the 2014 Outstanding MLP Award" from the National Center for Medical-Legal Partnership among a network of (then) over 230 sites in 34 states. This year, the MLPC Legal Director and Staff Attorney are being awarded the Hawai'i Women Lawyers President's Award for 2023. We also note that President Biden recently signed the Consolidated Appropriations Act that includes a \$2 million grant program for MLPs, which was initiated and championed by MLPC Hawai'i with the support of Aimee Grace. We are also in discussion with Kapi'olani Medical Center for Women & Children to begin a new MLP site.

Organizations: William S. Richardson School of Law (WSRSL); John A. Burns School of Medicine (JABSOM); Kokua Kalihi Valley Comprehensive Family Services (federally qualified health center)

Team Members: Dina Shek, Legal Director, MLPC Hawai'i and Faculty Specialist, William S. Richardson School of Law; Alicia Turlington, Medical Director, MLPC Hawai'i and Assistant Professor (Community Pediatrics), John A. Burns School of Medicine

Website: <https://law.hawaii.edu/academics/medical-legal-partnership/> and www.MLPCHawaii.org

Contact: Dina Shek, Legal Director, William S. Richardson School of Law, dshek@hawaii.edu

Topical Areas Addressed:	Reducing Health Disparities
Clinical Training Partnerships	Social Determinants of Health
Community Health Needs	Support for Rural and Remote Communities in Hawai'i
Innovative Government/Industry/Education Partnerships	and the Pacific
Interprofessional Education	
Interprofessional Patient Care Partnerships	

38. Native Hawaiian Interdisciplinary Health Program: A Collaboration of Health & Wellness

Description: Native Hawaiian Interdisciplinary Health (NHIH) is a program for Native Hawaiian Bachelor of Social Work and pre-medicine students (NHSPM premed students and social work students) that nurtures a deeper understanding of community healthcare through cultural-based service learning. Workshops are led by Native Hawaiian traditional healers, faculty and staff with the Native Hawaiian Center of Excellence (NHCOE) at the John A. Burns School of Medicine, and the University of Hawai'i Thompson School of Social Work & Public Health. Interdisciplinary team work encourages students to learn the impact of effective teamwork on a patient's health. Students learn about Native Hawaiian values and ways of knowing while collaboratively working with and exchanging interdisciplinary knowledge. Students learn how to integrate their emerging professional identities with their identity as a kanaka maoli.

Native Hawaiian values, history, and culture is at the core of the program. Cultural specialists in traditional Native Hawaiian healing arts, such as ho'oponopono (spiritual family peacemaking), la'au lapa 'au (herbal medicine) and lomilomi (traditional massage), as well as leaders in the Native Hawaiian community, serve as guest faculty and provide cultural mentorship. In existence since 2012, NHIH utilizes place-based learning and inquiry-based learning modalities.

Organizations: Thompson School of Social Work & Public Health, Department of Social Work and Native Hawaiian Center of Excellence (NHCOE), Dept. of Native Hawaiian Health (DNHH), UH John A. Burns School of Medicine

Team Members: Sasha N.K. Fernandes, M.D., Pre-Health Professions Coordinator, Native Hawaiian Center of Excellence (NHCOE)

Website: <https://nhcoe.jabsom.hawaii.edu/student-recruitment/native-hawaiian-interdisciplinary-health/>

Contact: Aimee Chung, Junior Specialist, Thompson School of Social Work and Public Health, aimee.chung@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships
Expanding the Healthcare Workforce
Healthcare Workforce
Interprofessional Education
Interprofessional Patient Care Partnerships
Reducing Health Disparities
Social Determinants of Health
Support for Rural and Remote Communities in Hawai'i and the Pacific

39. New Undergraduate Biomedical Laboratory Classes through the School of Life Sciences/ UH Cancer Center/JABSOM Collaboration

Description: This collaboration consolidates the teaching talent, resources, and facilities spread across the UH School of Life Sciences at Mānoa and UH Cancer Center and John A. Burns School of Medicine at Kaka’ako to create new teaching spaces and lab courses that meet the demand for undergraduate biomedical research training in response to the COVID-19 pandemic. Data suggest that the pandemic has influenced many incoming and current college students to reconsider their choice of majors, with a substantial proportion now shifting their interest toward careers in human health sciences and biomedical research. In response, there is great need for new UHM lab courses that engage students in a semester-long biomedical research project that leads to real, novel findings with potential therapeutic implications. We are currently designing a series of new undergraduate lab courses that address this need, and anticipate enrolling the first class of students in the 2025-2026 academic year.

Organizations: UH Mānoa School of Life Sciences, UH Cancer Center, John A. Burns School of Medicine

Team Members: Howard Shen (SoLS), Gertraud Maskarinec (UHCC), Michelle Tallquist (JABSOM)

Website: n/a

Contact: Howard Shen, Instructor, School of Life Sciences, hshen@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai’i and the Pacific

Expanding the Healthcare Workforce

One Health Initiatives

Translational Research

Other: Training of biomedical research laboratory personnel

40. Obstetrics Team Simulation Training

Description: For the past 5 years, monthly team simulations have been held at Kapiolani Medical Center for Women and Children. The goals of these team simulations are to improve patient care outcomes by improving team response and management of acute emergent clinical situations. The HPH based faculty from the UH Department of Obstetrics and Gynecology teamed up with the HPH clinical nurse educators and designed clinical scenarios covering various topics. Some examples of the topics covered in the past include: maternal cardiac arrest, postpartum hemorrhage, maternal eclamptic seizure, postoperative hemorrhagic shock and septic shock.

Team participants always include UH obstetrics and gynecology residents and HPH nurses and academy nurses. Depending on the topic, providers from other specialties are invited such as critical care intensivists. The simulation occurs on a clinical floor and involve high fidelity models. The goal is to get as close as possible to what would occur in the clinical setting if the emergency was actually happening. The more real it is, the easier it is to get participants in the right mindset. A debrief occurs after each session. This debrief is the key to the activity. This is where all members are able to both give and receive feedback. Not only do the participants benefit by improving their clinical performance but the facilitators are able to identify any systems issues that could be improved.

Organizations: University of Hawai'i JABSOM, Hawai'i Pacific Health

Team Members: Kim Nagamine MD, Valerie Teopaco BSN, RN

Website: n/a

Contact: Mark Hiraoka, Associate Professor, Associate Chair of Academic Affairs and Residency Program Director at JABSOM Department of Obstetrics, Gynecology and Women's Health, hiraokam@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships

Interprofessional Education

41. Ola HAWAII Investigator Development Core: Early Stage Investigator Development

Description: The objective of the Center is to lead and advance minority health and health disparities research in Hawai'i. Our Center's name is derived from Hawaiian words, "Ola," meaning "health" and "to heal," and "HAWAII," which designates both our island homeland and our aspiration for "Health and Wellness Achieved by Impacting Inequalities." With this five-year competitive NIH renewal, Ola HAWAII aims to achieve its objective through four strategic aims: 1) Enhance institutional capacity to facilitate basic biomedical, clinical and behavioral research; 2) Address health disparities and health-related concerns of underserved communities; 3) Mentor and support a diversified health disparities research workforce; and 4) Enhance the quality and productivity of health disparities and health-related research through world-class research facilities and services.

The Investigator Development Core (IDC) at Ola HAWAII assists early-stage investigators with scientific and career development, provides and links them to training opportunities, and coordinates a pilot project funding program. Pilot funding is open to UH faculty, adjunct faculty members, and post-doctorate trainees. IDC also provides opportunities for them to participate in the program's intensive mentoring bootcamp and promotion of a team science approach. Ola HAWAII has a strong track record in return on investment, as early-stage investigators compete and obtain extramural funding. This lightning talk will provide information on how UH faculty and adjunct faculty in institutions affiliated with UH can involve their staff in this outstanding career development program.

Organizations: Ola HAWAII, John A. Burns School of Medicine / Thompson School of Social Work & Public Health/ Others

Team Members: Kathryn L. Braun, Miquela Ibrao

Website: <https://ola.jabsom.hawaii.edu/>

Contact: Eunjung Lim, Associate Professor, John A. Burns School of Medicine, lime@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Healthcare Workforce

Reducing Health Disparities

Social Determinants of Health

42. Over Twenty-years of Collaboration on Evaluation Initiatives between the Office of Public Health Studies and Department of Health

Description: This presentation will highlight the innovative interagency collaboration between the UH Mānoa Office of Public Health Studies' (OPHS) Healthy Hawai'i Evaluation Team and the Hawai'i State Department of Health's (DOH) Chronic Disease Prevention and Health Promotion Division (CDPHPD) for over twenty years. The Healthy Hawai'i Evaluation Team is a group of OPHS faculty members and students that conducts evaluation and research to support public health initiatives aimed at reducing chronic disease and improving the health of communities in Hawai'i. The Healthy Hawai'i Evaluation Team incorporates a participatory process that engages stakeholders throughout all stages of the evaluation and is utilization-focused. Since 2001, the Healthy Hawai'i Evaluation Team has partnered with CDPHPD to evaluate their evidence-based policy, systems, and environmental change strategies to address the social determinants of health and reduce health disparities across four sectors: health care, worksites, education, and community design and access. This work is guided by the Social Ecological theoretical framework. Over the years, the Healthy Hawai'i Evaluation Team has conducted hundreds of external evaluation projects with CDPHPD and many of their partners across the state including Hawai'i State Department of Education, Hawai'i Primary Care Association, Hawai'i Public Health Institute (HIPHI), Hawai'i Department of Transportation, Kapiolani Community College, Queen's Clinically Integrated Physician Network, Daniel K. Inouye School of Pharmacy, to name a few.

In addition to showcasing this historic collaboration that has provided continuous evaluation and assessment of cross-sector efforts to improve health in Hawai'i for two decades, this presentation will also highlight some recent health care sector work that the Healthy Hawai'i Evaluation Team has worked on with CDPHPD and their partners, including work around diabetes prevention and management, self-measured blood pressure monitoring programs, medication therapy management pilot projects, growing the community health worker workforce.

Organizations: UH Office of Public Health Studies' Healthy Hawai'i Evaluation Team, Hawai'i State Department of Health

Team Members: L. Brooke Keliikoa, Meghan McGurk, Becky Rodericks, Kara Saiki, Ngoc Vu, Sakiko Yasuda, Tetine Sentell, Catherine Pirkle, Vanessa Buchthal, Students

Website: <https://manoa.hawaii.edu/healthyhawaiievaluation/>

Contact: Meghan McGurk, Junior Specialist, Office of Public Health Studies, mcgurkm@hawaii.edu

Topical Areas Addressed:

Innovative Government/Industry/Education Partnerships

Reducing Health Disparities

Social Determinants of Health

43. Pre-Health/Pre-Law Advising Center's Top 3 Best Practices

Description: The Pre-Health/Pre-Law Advising Center (PAC) provides advising services for students interested in pursuing careers in law and health careers that require a professional degree like medicine, dentistry, and pharmacy. PAC has found three practices that work best for supporting pre-health students, which includes having a comprehensive and current website, working with high schools and community colleges to reach students, and hosting panels that provide students opportunities to learn about different healthcare professions and health-related graduate programs that UHM offers. PAC would like to further elaborate on these best practices to possibly help the Health Sciences Steering Committee build its strengths in health sciences education for the state and beyond.

Organizations: Pre-Health/Pre-Law Advising Center, Mānoa Transfer Coordination Center, JABSOM, UH Community Colleges, and Hawai'i High Schools

Team Members: n/a

Website: <http://manoa.hawaii.edu/undergrad/pac/>

Contact: Kiana Shiroma, director, UHM's Pre-Health/Pre-Law Advising Center, kianak@hawaii.edu

Topical Areas Addressed:

Innovative Government/Industry/Education Partnerships

Support for Rural and Remote Communities in Hawai'i and the Pacific

44. Pacific Alliance Against COVID-19

Description: Funded by the National Institutes of Health RADx-UP initiative, The Pacific Alliance Against COVID-19 (PAAC) is comprised of investigators in three colleges, five federally qualified health centers and worked closely in partnerships with schools and the department of Education and the Department of Health in order to build the infrastructure for testing capacity, vaccination, data-collection and education at schools and health centers in underserved community across three islands. Our partnership enrolled more than 15,000 participants and performed over 50,000 tests for meaningful collection of data that was disseminated to schools, health centers, policymakers and the community.

As we transition outside the pandemic, the team at PAAC continues working on solutions to address community needs, including health literacy, and diseases of health disparities present in the community in a multidisciplinary way.

Organizations: College of Social Sciences, JABSOM, College of Education, AHARO network of federally qualified health centers, Public & Charter Schools, Department of Education, Department of Health

Team Members: Alika Maunakea, May Okihiro, Pauline Chinn

Website: PAAC.info

Contact: Ruben Juarez, Distinguished Endowed Professor, University of Hawai'i Economic Research Organization and Department of Economics at the University of Hawai'i, rubenj@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

One Health Initiatives

Reducing Health Disparities

Social Determinants of Health

Support for Rural and Remote Communities in Hawai'i and the Pacific

Translational Research

45. Precision Nutrition COBRE - Improving Nutrition, Health and Quality of Life for Underserved Populations

Description: Hawai'i is ranked the healthiest state in the U.S., based on life expectancy and quality, yet Native Hawaiians and other Pacific Islanders have higher prevalence of obesity, diabetes and cardiovascular diseases, and on average shorter lifespans than other ethnicities. Socioeconomic disparities affect food access and quality. Due to high cost of living and geographic isolation, people of limited means cannot move to more-affordable locales. The goal of the Precision Nutrition COBRE is to promote improved nutrition, health and quality of life, particularly for underserved populations. Traditional indigenous foods and practices, nutrition education and farmers market food vouchers provide opportunities to counter health disparities. Goals include nurturing promising junior researchers conducting impactful science, promoting culturally-sensitive collaborations and partnerships between academic researchers and our local communities, supporting identification, investigation, and dissemination of effective, culturally appropriate interventions, and gaining their acceptance and implementation in the community to confer improved health.

Organizations: SOEST, JABSOM, CTAHR, Waianae Health Center

Team Members: Marla Berry, May Okihiro, Monica Esquivel, Alika Maunakea, Rachel Novotny

Website: <https://cobre-nutr.pbrc.hawaii.edu/core-facilities/community-engagement-and-outreach-core/>

Contact: Marla Berry, Professor and Director, Pacific Biosciences Research Center, mberry@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Interprofessional Education

One Health Initiatives

Reducing Health Disparities

Support for Rural and Remote Communities in Hawai'i and the Pacific

Translational Research

46. The Prevent Suicide Hawai'i Taskforce: A Model Of Cross-Disciplinary and Community-Driven Collaboration to Support Suicide Prevention

Description: Suicide is a serious yet preventable public health problem that can have lasting harmful effects on individuals, families, and communities. In Hawai'i, one person dies by suicide every two days. There has also been an increasing trend in the number of people treated in Hawai'i hospitals and emergency departments for non-fatal suicide attempts. Due to the complex nature of mental and behavioral health, coalition-building among multi-disciplinary partners is an essential factor for prevention. The Prevent Suicide Hawai'i Taskforce is the state's leader in suicide prevention efforts and direction. Dr. Goebert is a founding member of the Taskforce. Both Drs. Sugimoto-Matsuda and Goebert have chaired the Taskforce at various times, and remain part of the statewide Steering (Leadership) Committee.

The Taskforce is a community-based, grassroots network of agencies and individuals who work in and/or care about suicide prevention, and aims to be the "hub" that coordinates activities and communication. Convened in 1999, community passion has kept the Taskforce going ever since. Today, partners include state agencies (e.g., Health, Education, Public Safety, University of Hawai'i), healthcare entities, non-profits, and community organizations. Many also come to the table as loss survivors (lost a loved one to suicide) or those who struggle personally. The Taskforce is the author of Hawai'i's Suicide Prevention Strategic Plan (<https://go.hawaii.edu/k8k>), requested by and reported to the Hawai'i State Legislature. We lead and support various suicide prevention activities – awareness, trainings, research, advocacy, supports for those personally impacted by suicide – all of which align with the Strategic Plan.

Organizations: The Prevent Suicide Hawai'i Taskforce, of which several UH faculty are statewide leaders

Team Members: From UHM - Jeanelle Sugimoto-Matsuda (public health) and Deborah Goebert (psychiatry)

Website: n/a

Contact: Jeanelle Sugimoto-Matsuda, Associate Professor and Graduate Chair, Thompson School of Social Work and Public Health, jsugimot@hawaii.edu

Topical Areas Addressed:

- Clinical Training Partnerships
- Community Health Needs
- Emerging & Ongoing Health Threats to Hawai'i and the Pacific
- Expanding the Healthcare Workforce
- Healthcare Workforce
- Impacts of Climate Change
- Innovative Government/Industry/Education Partnerships
- Interprofessional Education
- Interprofessional Patient Care Partnerships
- Reducing Health Disparities
- Social Determinants of Health
- Support for Rural and Remote Communities in Hawai'i and the Pacific
- Translational Research

47. Promoting Food Sovereignty through Interdisciplinary Community-Engaged Research

Description: Although Hawai'i is portrayed as the healthiest state in the US, pervasive diet-related health disparities and challenges exist for Kānaka Maoli (Hawaiians), the indigenous people of Hawai'i. Hawaiians have the highest mortality rates of cardiometabolic diseases, such as heart disease and diabetes, and the lowest life expectancy compared to the other major ethnic groups in Hawai'i. Hawaiians face environmental and economic barriers to healthy eating, which can decrease cardiometabolic risks. They are overrepresented in economically disadvantaged neighborhoods with limited healthy food options, and are also more likely to face food insecurity. Because there are few culturally-grounded approaches to address these health disparities, MALAMA was developed through a community-academic partnership with partners with expertise in public health, agriculture, Hawaiian Studies, and social work using principles of community-based participatory research.

MALAMA is a culturally-grounded intervention that merges the technology of aquaponics with Hawaiian cultural practices as a home food production method to promote consumption and access to healthy foods. Since 2018, our interdisciplinary team have garnered multiple state, federal, and foundation grants to test the efficacy of MALAMA with Hawaiian families across pai 'aina. Families complete a 6-month interactive culturally grounded curriculum composed of 9 hands-on family-based workshops with each family building an aquaponics system for their home. We found significant increases in positive attitudes toward healthy eating and social connectedness and decreases in food insecurity and in HbA1c for participants age 52+ ($p=0.018$). Findings will inform the implications of MALAMA as a health prevention strategy in other minority, indigenous, and Pacific communities who face similar health disparities. Much of the success lies in the care we have put towards growing our collaborations with our community partners and across academic disciplines.

Organizations: Office of Public Health Studies, CTAHR, Ke Kula Nui O Waimanalo

Team Members: Ted Radovich, Ilima Ho-Lastimosa, Samantha Keaulana-Scott, Kahau Vegas, Ikaika Rogerson, Kirk Deitschman, LeShay Keli'iholokai, Kenneth Ho Jr.

Website: <https://www.malamaaquaponics.org/>

Contact: Jane Chung-Do, Associate Professor and Associate Director, Thompson School of Social Work and Public Health, chungjae@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Reducing Health Disparities

Social Determinants of Health

Support for Rural and Remote Communities in Hawai'i and the Pacific

Other: Food Insecurity and sovereignty

Other: CBPR (Community-Based Participatory Research)

48. School Health Needs Assessment of Hawai'i State Department of Education Schools: A Collaboration Across Public and Private Entities

Description: A new partnership has been established with the Hawai'i Department of Education (DOE) School Health Section and the UH Office of Public Health Studies (OPHS) to complete a student health needs assessment. The goal of this project is to improve processes and protocols related to school health and nursing services and, in particular, to strengthen the capacity and reach of nursing staff and resources. To achieve this goal: 1) OPHS conducted a literature review of the health issues that are associated with academic success or absenteeism; 2) OPHS conducted interviews with individuals within DOE (facilities, athletics) and across many organizations including the Department of Health Public Health Nursing Branch, Hawai'i Medical Service Association, Hawai'i Keiki Healthy and Ready to Learn program, Hawai'i Primary Care Association, Med-QUEST, and the Hawai'i Health Data Warehouse to identify sources of health data that are relevant to Hawai'i's public DOE students; 3) OPHS will identify data gaps between available health data and health indicators associated with academic success; 4) OPHS will perform secondary data analysis using available health indicator data to determine student health needs in Hawai'i public DOE schools; and 5) OPHS will conduct a second round of interviews to inform programmatic recommendations and potential policy initiatives. Although the formal collaboration is between DOE and OPHS, this project requires additional collaboration with other stakeholders from several public and private entities who are involved in pediatric health to complete the aims.

Organizations: University of Hawai'i Office of Public Health Studies, Hawai'i Department of Education School Health Section

Team Members: Rosana Weldon, Rebekah Rodericks, Julia Finn, Tetine Sentell

Website: n/a

Contact: Rosana Weldon, Associate Specialist, Thompson School of Social Work and Public Health, rhweldon@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Reducing Health Disparities

Social Determinants of Health

49. Seeds of Wellbeing Initiative

Description: Mental health issues are common and pervasive in agriculture (agriculture is ranked 4th for depression, and 3rd for occupational hazard – 2020 CDC statistics). On the mainland, farmers/ranchers are dying and aging out (see for instance Why Farmers are Killing Themselves. Mental health issues affect productivity, and subsequently, economic gains. Addressing stressors alone is insufficient, and Hawai'i ag producers who are stressed and depressed have limited bandwidth to uptake new information, to problem solve, and to deal with rapidly changing circumstances and situation. Further, we will never have enough mental/behavioral health service providers, and it's getting harder and harder to recruit and interest young adults to join the farming/agricultural profession.

How will Hawai'i move the needle to reduce food import (85-90% currently) and create a sustainable food system if farmers quit or exit? Strategies on the mainland have been primarily individualistic in focus, relying on hotlines, referrals to providers, and detailed training modules with very limited interest and uptake. Evidence of what works remain limited. The Seeds of Wellbeing project and initiative proposes practical, realistic, yet innovative strategies to facilitate a grounds-up, grassroots network of collaborative partners using a layperson, peers health ag mentor model. Pilot data indicates promising success, enthusiasm, and optimism that we would like to share in order to garner support and amplify uptake.

Organizations: CTAHR Seeds of Wellbeing Project

Team Members: We have a broad range of collaborators supporting the work including HDOA, Hawai'i Farm Bureau, Hawai'i Farm Union United, O'ahu Resource Conservation & Development Council, Pacific Gateway Center, GoFarm, Office of Economic Revitalization, HealthTechApp, AgConnect. We also have 31 ag mental health mentors who have wide reach and connection with ag stakeholder organizations, regional educational farms and cooperatives, as well as community-based health centers (e.g., Papa Ola Lokahi, Ke Ola Mamo).

Website: <https://manoa.hawaii.edu/sow-well/>

Contact: Thao Le, Professor and Department Chair, CTAHR, thaole3@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

One Health Initiatives

Social Determinants of Health

Support for Rural and Remote Communities in Hawai'i and the Pacific

50. Simulation-Based Pediatric Interprofessional Team Training to Facilitate End-of-Life Discussions

Description: Advance Care Planning (ACP) is an important component of optimal end-of-life care for patients at any age. ACP is underutilized, with particular disparities in groups that include pediatric and adolescent patients. Among the major barriers to initiation of ACP are clinician reluctance to discuss limitations of treatment, lack of experience in conducting these conversations, and limited access to educational resources that could improve their skills. Broadening efforts from provider-centric education and training to include the use of an interprofessional team is considered one of the best ways to support ACP dissemination. While several educational programs for ACP have been developed for interprofessional teams of learners at various stages in their training, they have largely focused on adult or geriatric settings.

This presentation evaluates the effectiveness of a live in-person pediatric ACP simulation for an interprofessional team of learners to introduce them to concepts and tools for ACP and the experience of working as a team, as well as the impact of its conversion to an online format. Participants included social work graduate students, spiritual care residents, undergraduate nursing students, and resident physicians in pediatrics. Learners were evaluated with the End-of-Life Professional Caregiver Survey (EPCS), the Self-Efficacy for Interprofessional Experiential Learning (SEIEL) survey, and a set of open-ended questions. In-person and online formats yielded equivalent significant improvements in quantitative measures from pre- to post simulation. Participants in both formats found the most helpful aspects of the simulations were the experience of interprofessional collaborations and the realism of the scenarios. Despite advantages of in-person interactions, an online platform provided similar benefits. With greater access for offsite participants, such an approach could facilitate dissemination of longitudinal training to improve communication skills and the use of ACP.

Organizations: Nancy Atmospera-Walch School of Nursing, John A. Burns School of Medicine, Thompson School of Social Work and Public Health, Pacific Health Ministry, Kapiolani Medical Center for Women & Children

Team Members: Randal K. Wada, MD, MS, FAAP, Lorrie Wong, PhD, RN, CHSE-A, Anke Flohr, Mdiv, BCC, ACPE Certified Educator, Robin G. Arndt, MSW, LSW, Dana K. Ing, MSN, NNP-BC, APRN-Rx, Joanne R. Loos, PhD, Lori Kaneshige, MSN, RN, BMTCN, Kimm Teruya, MEd, Kal Peterman, DNP, AGPCNP-BC, APRN, Cheryl L. Albright, PhD, MPH, Kamal Masaki, MD

Website: n/a

Contact: Randal Wada, Professor, John A. Burns School of Medicine, randalw@hawaii.edu

Topical Areas Addressed:

Clinical Training Partnerships
Interprofessional Education

51. Soft, Flexible Epidermal Sensors for Clinical Diagnostics

Description: Current physical monitoring solutions for clinical diagnostics are often limited by their design and functionality. Specialized devices, such as heart rate monitors or event monitors, only measure a few physiological markers and require precise body placement, limiting their use outside of clinical settings. Wrist-worn accelerometers and bulky devices like Holter monitors also have limited utility in ambulatory and non-laboratory settings due to shape constraints and skin fragility in elderly patients. Additionally, using multiple systems simultaneously for multi-parameter monitoring is physically uncomfortable, cost-prohibitive, and leads to variable data quality, making interpretation of combined data sets difficult. To address these challenges, we have developed an 'Always-On' Imperceptible Monitoring (AIM) platform that integrates analysis of biochemical markers from eccrine sweat with biophysical activity sensing.

Our AIM platform utilizes thin, highly flexible optical and inertial sensors that dynamically conform to the skin to produce high fidelity recordings of motion, pulse waveforms, HR, and HRR without the need for precise body placement. By being in close proximity and tightly coupled to the skin, our system continuously monitors important biomarkers in sweat, such as cortisol and chloride, offering a more holistic view of the patient's physiological status. Our platform provides a flexible, cost-effective, and user-friendly alternative to conventional monitoring devices, making it compatible with continuous ambulatory monitoring. This system has the potential to revolutionize the way we approach both clinical assessment progress and improve the standard of care by providing a quantitative basis for assessing both fatigability and recovery.

Organizations: Dept. of Mechanical Engineering, Queen's Health Systems, JABSOM

Team Members: Tyler Ray (PI), Todd Seto (Queen's)

Website: rayresearchgroup.com

Contact: Tyler Ray, Assistant Professor, College of Engineering, raytyler@hawaii.edu

Topical Areas Addressed:

One Health Initiatives

Reducing Health Disparities

Support for Rural and Remote Communities in Hawai'i and the Pacific

Translational Research

52. A Team Kinesiology Model to Support Rehabilitative Care in Patients Diagnosed with Cancer

Description: As an Associate Professor in the Dept of Kinesiology & Rehab Science (with a heavy teaching load, 3/3 plus teaching overload), I heavily rely on collaborations to support my scholarly work. My research focuses on providing exercise rehabilitation to patients diagnosed with cancer. Working with collaborators from UH Cancer Center (Drs. Fukui and Bantum) and community partners (Rehabilitation Hospital of the Pacific (REHAB) and Kapiolani Medical Center for Women and Children (KMCWC)), we have developed and are currently delivering exercise rehabilitation programs to both adult and pediatric populations. Through these collaborative efforts, we have published our work in peer reviewed journals and presented our work at national conferences. In terms of the adult program hosted at REHAB called, "iCARE," this program fulfills the community health need for survivorship care during and after cancer diagnosis and treatment. Dr. Fukui is involved in this project, acting as a referring oncologist and more importantly, has also designed a research project within the ongoing iCARE program. Using outcome measures obtained from the iCARE program and measures taken at the Cancer Center, she is examining the longitudinal impact of exercise rehab on breast cancer patients.

Pediatric Physical Activity (PePA) is a virtual program that delivers culturally relevant physical activity programming to keiki diagnosed with cancer. This program is a collaborative effort with KMCWC's referring physicians and their pediatric therapy department which determines eligibility and enrolls eligible patients for this study. Dr. Bantum is heavily involved in this research project, particularly assisting with focus groups at the end of each semester-long intervention. This May, we will travel to Texas this May to present initial findings from this feasibility study. Both iCARE and PePA programs rely on undergraduate kinesiology students to deliver the intervention, which highlights another collaborative aspect of this the Team Kinesiology Model.

*Please note Paulette Yamada is avail in person on 5/4 before 2 pm, on zoom from 3 pm to 4 pm, or could prerecord a presentation if selected.

Organizations: UHM, Kinesiology & Rehab Science, UHCC, Rehab Hospital of the Pacific, Kap Med Ctr for Women & Children

Team Members: Dr. Jami Fukui, Dr. Erin Bantum

Website: n/a

Contact: Paulette Yamada, Associate Professor, College of Education, pyamada@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Expanding the Healthcare Workforce

Healthcare Workforce

Interprofessional Education

Interprofessional Patient Care Partnerships

Translational Research

53. Telehealth Resources for Hawai'i and the Pacific

Description: The Pacific Basin Telehealth Resource Center (PBTRC) is managed by the University of Hawai'i and is one of 14 telehealth resource centers in the U.S. that receives Federal funding from the Health and Human Services Administration (HRSA). PBTRC serves as a regional resource center for the State of Hawai'i and the U.S. Affiliated Pacific Islands. Its mission is to promote the use of telehealth by offering technical assistance in areas such as telehealth policy, technology, program design, and evaluation.

For more than 13 years, PBTRC has been hosted by the College of the Social Sciences and the John A. Burns School of Medicine. It works in partnership with healthcare providers, health systems, and community service providers in Hawai'i and the surrounding region.

Organizations: Pacific Basin Telehealth Resource Center, Social Science Research Institute, College of Social Sciences

Team Members: Christina Higa, Sylvia Mann (DOH), Norman H. Okamura, Charmaine Aoki, Ginger Porter, Umerang Imetengel, Britanica Sene, Keani Valdez

Website: www.pbtrc.org

Contact: Christina Higa, Associate Director, Assistant Specialist, College of Social Sciences, christina@uhtasi.org

Topical Areas Addressed:

Community Health Needs

Healthcare Workforce

Innovative Government/Industry/Education Partnerships

Support for Rural and Remote Communities in Hawai'i and the Pacific

54. UHERO Rapid Data Project

Description: Existing publicly available health data for Hawai'i are infrequent, have long delays, do not include data at the sub-state level and lack critical data about marginalized communities. They also have only extremely limited information on healthcare services gaps and barriers to access, especially for mental healthcare. UHERO's new Rapid Data (UHRD) survey will build capacity at the University to inform the design and execution of public health, social and economic policies and programs. UHRD is a longitudinal survey designed to deploy quickly and efficiently, collecting data on health outcomes, life disruptions, healthcare access, and socioeconomic impacts. Such data is invaluable during disasters, providing nearly real-time information for decision-makers at the most critical times. The UHRD project will fill the critical gap for ongoing, real-time data about health outcomes, healthcare access and socioeconomic outcomes at the sub-state level in Hawai'i. It will develop innovative, community-centered data collection strategies that are required for reaching the most vulnerable population groups. The longitudinal UHRD data collected will also be linked to other health, housing and demographic records. During the COVID-19 pandemic there was no way to rigorously collect critical real-time data on health outcomes, life disruptions, and socioeconomic impacts to inform where state and federal funding should be deployed. The UHRD will provide a reliable data infrastructure for data collection regardless of the circumstances. Results from the survey will inform the design and execution of health, social and economic policies and programs in Hawai'i and address racial, geographical and social disparities. Many community organizations and service providers lack systematic data about the communities that they serve and the underserved or missing populations. Having real-time data on vulnerable populations available will improve needs assessment, service targeting, and reaching those not connected to services. Policy makers, community organizations and the general population will be promptly informed of findings via policy reports, curated data updates, social media and media briefs. The initial infrastructure was funded by the Coronavirus State Fiscal Recovery Fund, Sub-Award to University of Hawai'i (UOH100), part of the American Rescue plan. It created a cohort of 2000 adult Hawai'i residents that we have followed longitudinally for nearly a year with an 80% retention rate. Findings have been widely reported in meetings with organizations (e.g., Department of Health, House Committees, Chambers of Commerce, etc.) and to the general public in two policy reports: UHERO Public Health Report (June 2022): Health Effects and Views of COVID-19 in Hawai'i, we reported the adverse impacts that the COVID-19 pandemic had on Hawai'i's populations, from mental health, food security, and long-covid, among others. The report also revealed the views and perceptions of individuals about the COVID-19 pandemic. The second UHERO Public Health Report (January 2023): Vaccination Booster Uptake Lags as COVID Impact Reach Widens, shows additional impacts of the pandemic on mental health, long-COVID, employment, and COVID fatigue in Hawai'i's populations. Extension of the project to 5000 adult residents has been seeking to increase the representation of minorities in the state and cover pressing issues facing the state (e.g., impacts of eruptions, homelessness, housing crisis, etc.).

Organizations: College of Social Sciences, Health Care Providers and Insurers, State of Hawai'i, Federal Government

Team Members: Carl Bonham, Tim Halliday, Daniela Bond-Smith

Website: <https://uhero.hawaii.edu/uhero-rapid-health-survey/>

Contact: Ruben Juarez, Professor, University of Hawai'i Economic Research Organization, rubenj@hawaii.edu

Topical Areas Addressed:

Community Health Needs
Emerging & Ongoing Health Threats to Hawai'i and the Pacific
Innovative Government/Industry/Education Partnerships
One Health Initiatives
Reducing Health Disparities
Social Determinants of Health
Support for Rural and Remote Communities in Hawai'i and the Pacific
Translational Research

55. Understanding the Impacts of Ciguatera Poisoning on Communities in Hawai'i and the U.S.-Affiliated Pacific Islands through the Development of the Pacific Ciguatera Network

Description: Ciguatera poisoning (CP) is caused by consuming reef fishes or other seafood that have accumulated ciguatoxins, which are produced by epiphytic dinoflagellates (commonly *Gambierdiscus*) found on coral reefs. CP can result in a variety of health impacts ranging from mild flu-like symptoms to paresthesia and cold allodynia to permanent neurological effects; in extreme cases it can be fatal. In addition to the physical effects of CP, the fear of contracting CP can also lead to behavioral changes that result in financial, cultural, and social impacts. In Hawai'i and other Pacific Islands where many communities are reliant on a sharing economy, the threat of CP can have cascading effects on the likelihood of sharing fish or exchanging inter-generational knowledge about fishing, and it can exacerbate ongoing nutritional transitions away from local, traditional food sources towards imported, unhealthy options. There are thought to be >50,000 cases of CP annually, but there is significant underreporting. For example, despite having 60% of the coral reefs in the U.S., in Hawai'i from 2010-2020 there were on average less than 9 cases of CP reported to the Department of Health (DOH) annually. Studies in other locations have also linked increases in ciguatera with habitat degradation, which is in some cases driven by climate change impacts (e.g., coral bleaching). While there have been collaborations between researchers in SOEST and JABSOM in the past focusing on ciguatera, in the past decade little work has been done, and a large data gap remains for the state and other U.S.-Affiliated Pacific Islands. In a preliminary study funded by the National Marine Fisheries Service, Nalley partnered with colleagues at Conservation International, Hawai'i Division of Aquatic Resources, Hawai'i DOH, and NOAA's Pacific Islands Fisheries Science Center to develop an anonymous online survey and series of interviews to better understand the prevalence and impacts of CP in Hawai'i. The results suggested that in Hawai'i CP is widespread (22% of individuals surveyed), underreported (only 25% of cases), and long-lasting (67% of cases had symptoms lasting >1 week). This work is being expanded upon in a collaboration with PacIOOS through NOAA's National Harmful Algae Bloom Observing Network to create a Pacific Ciguatera Network that will develop partnerships with collaborators throughout Hawai'i and the U.S.-Affiliated Pacific Islands to synthesize existing data, establish standardized sampling protocols, and share resources to mitigate the impacts and risks of CP in this region. We have also applied for funding through NOAA's Monitoring and Event Response for Harmful Algae Blooms program with collaborators from Dauphin Island Sea Lab in Alabama to translate their successful analysis methods to build local capacity at the University of Hawai'i at Mānoa for monitoring ciguatoxins. We are eager to expand this collaboration to include partners in the medical system and health sciences to strengthen the transdisciplinary approach to addressing this urgent and widespread problem.

Organizations: Hawai'i Sea Grant, PacIOOS, Hawai'i Dept. of Health, Hawai'i Division of Aquatic Resources, Conservation International, NOAA, Dauphin Island Sea Lab

Team Members: Eileen Nalley (Hawai'i Sea Grant - lead); Collaborators: Melissa Iwamoto (PacIOOS), Jordan Watson (PacIOOS), Diana Felton (HI DOH), Brian Neilson & David Sakoda (HI DAR), Matt Ramsay (Conservation International), Keith Kamikawa (NOAA), Alison Robertson (Dauphin Island Sea Lab)

Website: Pacific Ciguatera Network website is in development

Contact: Eileen Nalley, Ocean and Coastal Ecosystem Health Specialist, SOEST, enalley@hawaii.edu

Topical Areas Addressed:

Community Health Needs
Emerging & Ongoing Health Threats to Hawai'i and the Pacific
Environmental Health Sciences
Impacts of Climate Change
One Health Initiatives
Support for Rural and Remote Communities in Hawai'i and the Pacific

56. Vog Measurement and Prediction Program (VMAP): Modelling Volcanic Air Quality for the State of Hawai'i

Description: Vog Measurement and Prediction Program (VMAP) has been established over a decade ago to address a growing need for accurate and timely forecasts of volcanic air quality for the State of Hawai'i. Vog (volcanic smog) is a well-known hazard for both human health and the environment. To provide early warning, help limit vog exposure and mitigate negative impacts for communities downwind of active eruptions we operate a real-time air quality modelling system at UHM. Our forecasts are available to the public and provide critical air quality hazard guidance to emergency responders and project stakeholders during volcanic eruptions.

Our current research efforts are undertaken in collaboration with the Hawai'i Department of Health (DOH) and are focused on devising an automated early warning system for communities impacted by vog. DOH support has been integral in our observational work (e.g., deployment of instruments), data sharing critical for model operations and knowledge exchange on vog impacts. In this Lighting Talk we will provide an overview of our vog modelling work, current collaborative project with the DOH, and future vision for the program.

Organizations: Department of Atmospheric Sciences, School of Ocean and Earth Sciences and Technology; Hawai'i Department of Health; UHM Medical School (past collaboration)

Team Members: Steven Businger (PI), Nadya Moisseeva

Website: <http://weather.hawaii.edu/vmap/new/>

Contact: Nadya Moisseeva, Postdoctoral Researcher, SOEST, nadya.moisseeva@hawaii.edu

Topical Areas Addressed:

Community Health Needs

Emerging & Ongoing Health Threats to Hawai'i and the Pacific

Environmental Health Sciences

Innovative Government/Industry/Education Partnerships

Reducing Health Disparities

Support for Rural and Remote Communities in Hawai'i and the Pacific

College of Natural Sciences



MISSION STATEMENT:

The mission of the College of Natural Sciences (CNS) is to prepare students for a world of rapid scientific and technological change while encouraging deep understanding of scientific methodologies and their importance; to foster exploration of scientific ideas and encourage new research in Mathematics, Information Science, the Physical Sciences and the Biological Sciences and to apply that knowledge for the betterment of people everywhere; and to provide a welcoming and stimulating environment for all members of the College and its partners.

THE COLLEGE OF NATURAL SCIENCES (CNS)

provides critically needed undergraduate and graduate degree programs for the State of Hawai'i in core STEM disciplines, while strengthening its role as a major research hub for the University of Hawai'i at Mānoa (UHM). CNS is one of the largest colleges at UHM, and consists of five academic departments or schools (Chemistry, Information & Computer Sciences, Life Sciences, Mathematics, and Physics & Astronomy) and one research unit (the Pacific Cooperative Studies Unit). These units deliver undergraduate and graduate degrees and certificates across the spectrum of the natural science, and collectively generated approximately \$26.7 million in extramural funding in FY2021.

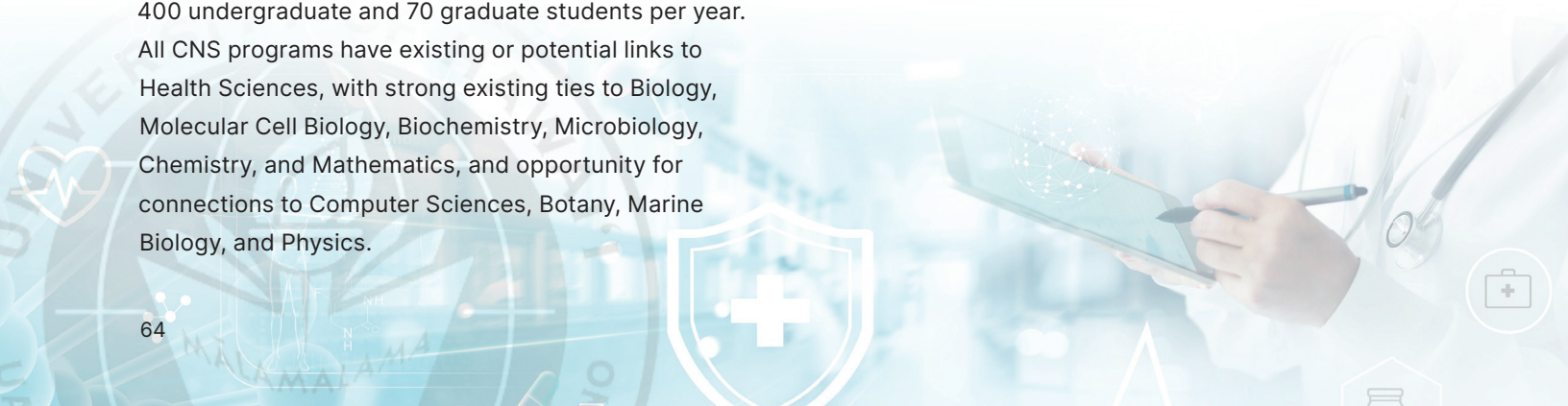
CNS enrolls approximately 2400 undergraduate students and 400 graduate students, supported by approximately 120 faculty and 55 staff. Across the five academic departments and schools, and one research unit, CNS offers 23 undergraduate and 17 graduate degree programs. CNS graduates on average almost 400 undergraduate and 70 graduate students per year. All CNS programs have existing or potential links to Health Sciences, with strong existing ties to Biology, Molecular Cell Biology, Biochemistry, Microbiology, Chemistry, and Mathematics, and opportunity for connections to Computer Sciences, Botany, Marine Biology, and Physics.

SUCCESSES AND HIGHLIGHTS

- CNS has been working toward building an integrative life sciences. The first steps in this direction were taken recently (Fall 2019) through the merger of the departments of Biology, Botany and Microbiology into a School of Life Sciences.
- Recent development of an MOU regarding instruction and TA support (eff. Spring 2022) between Life Sciences and the UH Cancer Center
- Building connections through Molecular Cell Biology degree to link CNS undergraduates with UH Cancer Center and JABSOM
- Joint faculty appointments (e.g., Chemistry and UH Cancer Center)
- Life Sciences faculty involvement in JABSOM programs (Clinical Microbiology/Med Tech, or as graduate faculty in Tropical Medicine or CMB)
- Strong participation in response to recent COVID pandemic – e.g., Hawai'i Pandemic Applied Modeling Work Group (HiPAM) (Math)
- Joint research proposals/grants (Chemistry and UH Cancer Center, JABSOM)

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

The Health Sciences Initiative will provide a means of establishing channels of communication among health sciences-invested units. This will lead to the development of an understanding of what each partner can contribute, through discussions of where UHM can leverage the strengths of participating units to build new pathways and communicate more clearly with one another and with Health Sciences partners in the broader community



College of Tropical Agriculture and Human Resources (CTAHR)



COLLEGE OF TROPICAL AGRICULTURE
AND HUMAN RESOURCES
UNIVERSITY OF HAWAII AT MĀNOA

MISSION STATEMENT:

Our responsibility is to provide exceptional transdisciplinary education, research, and extension in tropical agriculture, natural resources, and human well-being to local and global communities.

EXTRAMURAL RESEARCH:

\$29.4M in FY2022

HEALTH SCIENCES PROGRAMS & INITIATIVES:

- One Health Interdisciplinary Undergraduate Certificate Program in partnership with JABSOM, the Thompson School of Social Work & Public Health, and the School of Ocean and Earth Science and Technology.
- The Children's Healthy Living Program (CHL) is an integrated research, education, and outreach program focused on maternal and child nutrition and health, particularly among remote underserved minority populations in the Pacific. Partners include JABSOM and the UH Cancer Research Center.
- Precision Nutrition COBRE, a partnership among SOEST, JABSOM, CTAHR, and the Waianae Health Center with the goal of improving nutrition, health, and quality of life, particularly for underserved populations.
- The new Seeds of Wellbeing Initiative has gathered data showing that mental health issues are common and pervasive in agriculture. The initiative is testing interventions that may reduce stress and improve wellbeing.

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

Expand the One Health program to include a degree option; and encourage development of transdisciplinary teams to pursue external grant opportunities.

Q: IN WHAT WAYS WOULD YOUR UNIT BENEFIT?

Greater collaboration across disciplines to successfully address complex, real-world challenges to food security, climate variability, sustainable natural resource management, and both human and animal health.

Q: IN WHAT WAYS COULD YOUR UNIT CONTRIBUTE?

CTAHR is a land-grant college with a tripartite mission of excellent teaching, impactful research, and service to our rural and urban communities through Extension. An emphasis on human, animal, and plant health has always been at the core of the land-grant mission, and it is this history with its accomplishments that makes CTAHR a committed partner for the Health Sciences Initiative.



Hawai'i Pacific Health

**HAWAI'I
PACIFIC
HEALTH**

KAPI'OLANI
PALI MOMI
STRAUB
WILCOX

MISSION STATEMENT:

To create a healthier Hawai'i.

HAWAI'I PACIFIC HEALTH AT A GLANCE

- Four medical centers
- 70-plus outpatient clinics and medical service sites
- 602 acute care beds
- More than 1,700 physicians on medical staff
- More than 7,000 employees

EXISTING COLLABORATIONS BETWEEN HAWAI'I PACIFIC HEALTH AND THE UNIVERSITY OF HAWAI'I

- Hawai'i Pacific Health currently partners with 15 clinical programs within the University of Hawai'i System to offer various training opportunities for students, including nursing students, medical students, medical residents, EMS/EMT, pharmacy, and radiology technicians
- HPH provides clinical training opportunities in health care education to over 1,600 students across the state annually; 70% of these students are affiliated with UH programs.
- Educational interfaces between HPH and UH are wide-ranging and include year-round clinical training across 4 HPH medical centers and dozens of outpatient clinics; workforce readiness support; internships and externships; clinical placement services; CMEs for pediatrics and OB-GYN grand rounds; and simulation training and support.
- HPH provides over 300 clinical opportunities for medical students and over 260 residency opportunities annually in more than a dozen specialties.
- HPH nursing education activities include HPH Academy training for senior level nursing students in various specialty areas (e.g., ED, NICU, PICU, Perinatal, MS/Tele, MBCU, Periop); advanced degree partnerships in nursing; and nursing curricula development.

- HPH provides full-tuition scholarships for students pursuing a medical degree at the John A. Burns School of Medicine through its Hawai'i Pacific Health Medical Student Scholarship Fund.

FUTURE OPPORTUNITIES

- HPH and UH have extensive training affiliations in place across a large number of clinical disciplines. This presents a strong foundation to build upon. We need to work together as one in a more facilitated fashion to address challenges more efficiently for everyone involved.
- We must build upon the connectivity and collaborative leadership that already exists, leverage technology, embrace innovation, and establish a common vision of what a healthy population and a healthy community look like.
- A unified health sciences training center within UH would benefit the many partnerships already in existence and allow for expansion of services in other clinical areas to further these partnerships and better meet community needs.



John A. Burns School of Medicine (JABSOM)



MISSION STATEMENT:

Vision or Maika'i Loa: Attain Lasting Optimal Health for All (ALOHA)

Mission: JABSOM, as part of the fabric of Hawai'i, is a diverse learning community committed to excellence and leadership in:

- Educating current and future healthcare professionals and leaders
- Delivering high-quality healthcare
- Conducting research and translating discoveries into practice
- Establishing community partnerships and fostering multidisciplinary collaboration
- Pursuing alliances unique to Hawai'i and the Asia-Pacific region

Acting with forethought regarding right relationships, respect, and moral action. Pono

RELEVANT DATA

- Undergraduate: Medical Technology - 10 per year
- Medical Technology Post-Baccalaureate program - 12 per year
- GCERT In Tropical Medicine - 9 per year
- GCERT in Clinical Research - 2-3 per year
- MS or PhD programs
 - Biomedical Sciences (Tropical Medicine)
 - Cell and Molecular Biology
 - Clinical and Translational Research (MS only)
 - Developmental & Reproductive Biology
 - Communication Sciences and Disorders (Speech-Language Pathology) (MS)
- Medical Students: 77 admitted per year
- Residents/Fellows in 19 accredited programs: 228

KEY RESEARCH AREAS OF STRENGTHS INCLUDE:

- health disparities, infectious diseases (HIV, emerging infectious diseases), heart disease, diabetes, neurologic disorders, aging, mental health and suicide prevention
- Five-year average of \$55M in JABSOM funded research

RECENT SUCCESSES

- Medical student and resident training: increasing on neighbor islands
- Closer collaborations with parties interested in addressing health workforce needs from a holistic approach
- Academic affiliation agreements, including moving most clinical departments' faculty into one of the two medical groups affiliated with Queen's and Hawaii Pacific Health

EXISTING COLLABORATIONS WITH UH HEALTH SCIENCES UNITS

- Ola HAWAII: JABSOM, Thompson School (PH), Pharmacy, SSRI
- PIKO: JABSOM, Thompson School (PH, SW), Pharmacy, UHCC, Queen's, HPH, Chaminade, HPU, 18 practice-based organizations across the state and other community-based organizations
- Interprofessional education: pre-clinical and clinical: JABSOM, NAWSON, Thompson School (SW, PH), Pharmacy
- MIND program: JABSOM and Engineering
- Proposed Doctorate of Physical Therapy: JABSOM and College of Education
- Medicine and Law (interest groups - DEI, climate): JABSOM and Law

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

- Clear strategic areas of focus for UH in health sciences/health sciences research. That will guide the necessary significant UH investment in research faculty who can also teach in the health sciences - expanding the pathway for early stage investigators in the health professions will pay multiple dividends, including the receipt of many NIH R01 research awards which are greatly needed by UH at this time.
- Expand upon translational research activities with other UH units and in partnership with health systems.

University of Hawai'i Cancer Center



MISSION STATEMENT:

To reduce the burden of cancer through research, education, patient care and community outreach with an emphasis on the unique ethnic, cultural and environmental characteristics of Hawai'i and the Pacific.

CANCER BIOLOGY PROGRAM: The goal of the Cancer Biology (CB) Program is to conduct basic cancer research conducive to important discoveries that positively impact cancer incidence and mortality in Hawai'i and the larger Pacific. Further, we will translate our discovery to improve the outcome of cancer patients. Additionally, reflecting on our geographical location, the CB Program fosters research on natural products from local, endemic species to discover chemical probes for studying cancer molecular pathways.

POPULATION SCIENCES IN THE PACIFIC PROGRAM:

A key objective of the Population Sciences in the Pacific (PSP) Program is to understand and eliminate racial/ethnic disparities in cancer and to reduce overall cancer incidence and mortality in Hawai'i and the Pacific. This goal aligns with the mission of the UH Cancer Center. The program currently consists of 37 members representing diverse disciplines: molecular and nutritional epidemiology, bioinformatics, biophysics, clinical and health psychology, public health, and social work. PSP consists of two program areas:

• Cancer Epidemiology

Cancer Epidemiology focuses on understanding the causes of cancer. A main goal of Cancer Epidemiology is to identify determinants of cancer risk and progression that drive the racial/ethnic differences in cancer incidence and mortality in Hawai'i.

• Cancer Prevention

Cancer Prevention seeks to reduce racial/ethnic disparities in cancer in Hawai'i and the Pacific by developing, implementing, and disseminating cancer prevention interventions.

- FY 22 Extramural Grants and Research total: 142 research projects; \$57.3M awarded research funds; 305 publications; 26 years of continued NCI Designation.

SIGNIFICANT CHANGES; NEW PROGRAMS AND INITIATIVES UNDER DEVELOPMENT

- We are in the process of developing a Clinical Oncology Program that will lead the translation of our discovery from Cancer Biology and Population Science in the Pacific.
- We plan to develop a new generation multi-ethnic cohort, including NHPI and Filipino decedents.

RECENT SUCCESSES

- Start of the development of the Early Phase Clinical Research Center.
- The rapid development of the Clinical Oncology Program
- Existing collaborations with UH health sciences units

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

- Multi-disciplinary clinical and leadership training.
- Team Science workshop based on the research prioritization.

Q: IN WHAT WAYS WOULD YOUR UNIT BENEFIT?

- Increase in healthcare providers who are committed to clinical cancer care and research.
- Innovative research outside traditional cancer biology and population science by interdisciplinary collaboration.

Q: IN WHAT WAYS COULD YOUR UNIT CONTRIBUTE?

- Faculty can contribute to the training and planning.
- Resource sharing to enhance collaboration.
- Open house to host research collaboration opportunities.



UH Hilo College of Pharmacy



MISSION STATEMENT:

To improve health in Hawai'i and throughout the Pacific through education, research, and service;

To educate pharmacy practitioners and leaders; To serve as a catalyst for innovations and discoveries in pharmaceutical science and practice for the promotion of health and wellbeing; and, To deliver quality patient care.

HEALTH SCIENCES PROGRAMS OFFERED:

- Doctor of Pharmacy (PharmD)
- Bachelor of Arts in Pharmacy Studies (BAPS)
- Doctor of Philosophy (PhD) in Pharmaceutical Sciences

CERTIFICATE PROGRAMS:

- Health Sciences Research
- Health Care Leadership
- Rural Health
- Veterinary Pharmacy (Fall 2023)

SUCCESSES AND HIGHLIGHTS

- Implementing new curriculum Fall 2023
- Areas of research/collaboration:
 - Chronic disease management
 - Medication safety and polypharmacy
 - Antimicrobial stewardship
 - Clinical practice guidelines
 - Public health/health disparities
 - Opioid use/pain management
 - Interprofessional education
 - Natural products
 - Rat lung disease
 - Anticancer and cancer chemoprevention
 - Breast and neuroblastoma
 - Infectious disease

• Experiential Education (direct and indirect clinical):

- All Hawai'i islands
- US mainland
- Pacific Rim
- International: Thailand, Japan, China, Australia

• Data/metrics relevant to the industry

- Pharmacists apply knowledge, experience, and skills to assure desired patient health outcomes related to medication use
- Work with interprofessional health care teams, patients and caregivers
- Over 150 career options from pharmacy degree

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

- Increase involvement with health sciences programs to enhance interprofessional teams and efficiency of team-based care.
- Creation of more student run interprofessional clinics and services.
- Enhance opportunities for and mechanisms to support shared resources (e.g., facilities, equipment, IT, etc.)
- Increase coordination for pre-pharmacy and other pre-health professions admissions pathways.
- Increase opportunities for shared faculty instruction including didactic and clinical teaching



School of Ocean and Earth Science and Technology



MISSION STATEMENT:

The School of Ocean and Earth Science and Technology is dedicated to serving society through the acquisition and dissemination of new knowledge about the ocean, Earth, and planets, and to enhancing the quality of life in the state of Hawai'i and in the nation by providing world-class education, contributing to a high-tech economy, and promoting sustainable use of the environment.

HEALTH SCIENCES PROGRAMS OFFERED:

- Global Environmental Sciences BS track in Environmental Health Sciences
- BA in Environmental Earth Science
- BS in Atmospheric Sciences

EXTRAMURAL GRANTS & RESEARCH:

> \$100M in FY2022

NEW PROGRAMS AND INITIATIVES

- SMART Ala Wai monitoring and sampling
- Biochemistry of venoms and toxins of marine organisms; evolution of nervous systems; neurodegeneration and metabolism
- Emerging infectious diseases including rat lungworm disease and Dengue virus, and Native Hawaiian health
- Air pollution and airborne pathogens
- Mercury tracing in fishes

RECENT SUCCESSES

- SOEST is widely recognized as a world-class research and academic institution that is responsive to the needs of Hawai'i and engaged in finding solutions to pressing socio-environmental problems that are intricately linked to the health sciences, such as climate change, biodiversity loss, pandemics, pollution, and environmental injustice
- Two prestigious NIH-funded Centers of Biomedical Research Excellence (COBREs), focused on (i) integrative studies of the environment, micro-biomes and human health, and (ii) integrating basic science in nutrition with health and well-being in the Native Hawaiian-Pacific Islander community

COLLABORATIONS WITH UH HEALTH SCIENCES UNITS

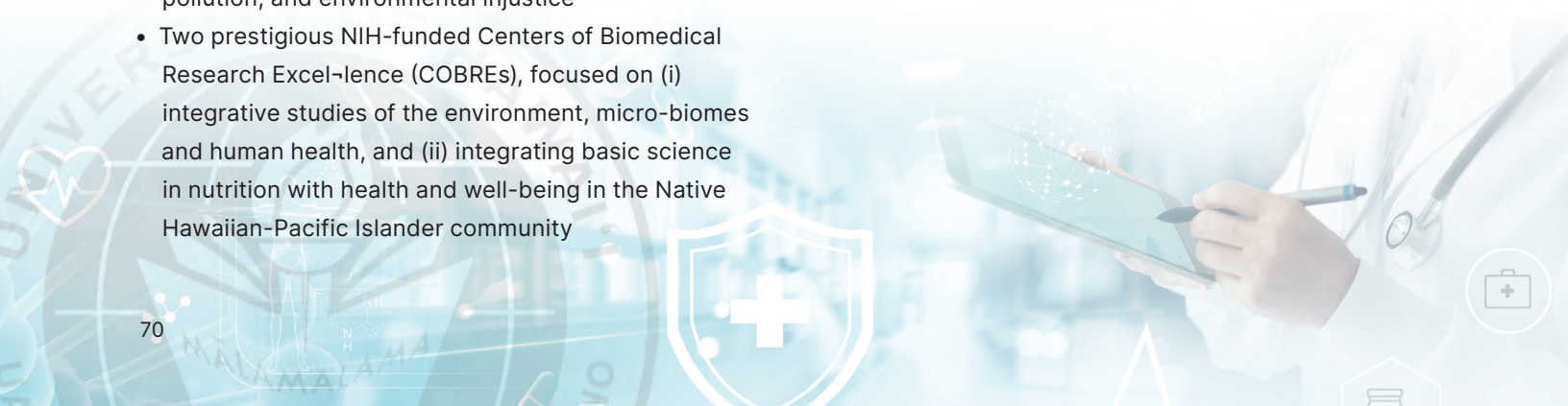
- Pacific Biosciences Research Center - Center for Microbiome Analysis through Island Knowledge & Investigation (C-MAIKI)
- Hawaii Institute of Marine Biology
- PBRC Integrative Center for Environmental Microbiomes and Human Health (ICEMHH)
- PBRC Integrative Center for Precision Nutrition and Human Health
- HIMB, HI DOH, DAR, PacIOOS, & Conservation Intl.
- HIMB & Public Health
- Vog Measurement and Prediction Project (VMAP)
- Red Hill collaborations

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

- Ultimately these efforts are about better research and educational opportunities for our students. Also, creating pathways for addressing those highly complex wicked problems that our ecosystems and communities will face that won't be solved through any one discipline.

Q: IN WHAT WAYS WOULD YOUR UNIT BENEFIT?

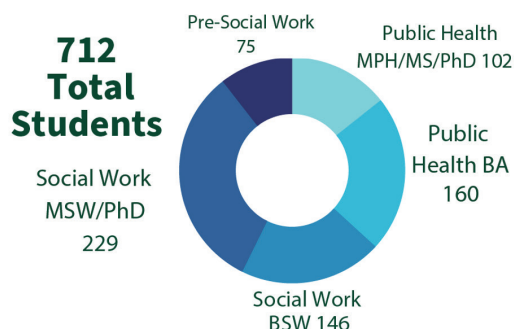
- SOEST would benefit from more multi- and transdisciplinary collaborations. More holistically trained students. Leveraging existing funding and increase funding opportunities for new faculty to collaborate on systems-level projects.



Thompson School of Social Work & Public Health

MISSION STATEMENT:

The vision of the Thompson School of Social Work & Public Health is "achieving social justice and health equity for the people of Hawai'i and citizens in a changing world."



• FY 22 Extramural Grants and Research total:

Last fiscal year (22), the Thompson School brought in \$16.4 million in extramural funds.

• Data/metrics relevant to the industry

- Our school engages with over 300 affiliated field agency partners for field placements, required for both SW and PH programs.
- Combined we have over 10,000 alumni working locally and globally.
- Social Work & Public Health are two of the fastest growing career areas in the US.
- The Department of Social Work is ranked in the top 17% nationally of social work graduate programs, #51 out of 296.
- SW students alone provide over 54,000 hours of service annually to the community, translating to over \$1.57 million each year in community impact.
- Professional social workers are the nation's largest group of mental health services providers.

• Existing collaborations with UH health sciences units

- We work in collaboration with UHM Schools, including Medicine, Nursing, Hawai'i inuiākea, CTAHR, Law, and Social Sciences as well as UH Hilo Pharmacy and many others as key local academic partners. We also work closely

with community stakeholders including Hawai'i Department of Health, Hawai'i Department of Human Services, Queen's Health Systems, Papa Ola Lōkahi, the NHPI 3R team, We Are Oceania, Hawai'i Public Health Institute, Hawai'i Primary Care Association, and many others. One recent example:

- One Health approach focus of new interdisciplinary certificate program
<https://www.hawaii.edu/news/2023/02/09/one-health-certificate-program/>

Q: IN WHAT WAYS CAN WE STRENGTHEN COLLABORATIONS ACROSS THE HEALTH SCIENCES?

Our school can benefit from continued synergy and more capacity in staff and faculty to support our good work and to allow additional opportunities for collaboration and participation in projects across the university, state, nation, and globe.

Q: IN WHAT WAYS WOULD YOUR UNIT BENEFIT?

Shared services and infrastructure in research and communications from this initiative would be useful to our school.

Q: IN WHAT WAYS COULD YOUR UNIT CONTRIBUTE?

Our school has many relevant skills/expertise, including in biostatistics, epidemiology, Indigenous health, health literacy, policy analyses, mixed methods, health services research, gerontology, social networks, public health surveillance and data visualizations, social determinants of health, social justice, behavioral mental health, theory-based evaluation and many other relevant areas. We are excellent collaborators!

Notes

Gender

HS

Office of the Provost

manoa.hawaii.edu/provost

✉ provost@hawaii.edu

The University of Hawai'i at Mānoa is an equal opportunity, affirmative action institution.