CURRICULUM VITAE

**Date of Revision: October 13, 2022**

**Name:** Nicola L. Hawley, Ph.D.

**Current Position:** Associate Professor of Epidemiology, with tenure, Yale School of Public Health, Department of Chronic Disease Epidemiology, Traditional Track

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**School:** Yale University School of Medicine and the Graduate School

**Education:**

BSc. Loughborough University (Human Biology) 2005

Ph.D. Loughborough University (Human Biology) 2009

**Career/Academic Appointments:**

2009 Postdoctoral Research Associate, Center for Global Health and Human Development,

Loughborough University, Loughborough, UK

2009-16 Honorary Research Fellow, Developmental Pathways for Health Research Unit, School of Clinical Medicine, University of the Witwatersrand, Johannesburg, South Africa

2009-11 Postdoctoral Research Associate, International Health Institute, Department of Epidemiology, Brown University, Providence, RI

2011-14 Postdoctoral Fellow, Weight Control and Diabetes Research Center, Warren Alpert Medical School, Brown University, Providence, RI

2011-14 Postdoctoral Fellow, Department of Psychiatry and Human Behavior, The Miriam Hospital, Providence, RI

2014-2020 Assistant Professor, Department of Chronic Disease Epidemiology, Yale University School of Public Health, New Haven, CT

2015-present Assistant Professor, Department of Anthropology, Yale University, New Haven, CT (secondary appointment)

2018-2020 Adjunct Assistant Professor, Department of Epidemiology, Brown University, Providence, RI

2020-2022 Associate Professor (Term), Department of Chronic Disease Epidemiology, Yale University, School of Public Health, New Haven, CT

2020-present Adjunct Associate Professor, Department of Epidemiology, Brown University, Providence, RI

2022-present **Associate Professor (Tenured), Department of Chronic Disease Epidemiology**, Yale University, School of Public Health, New Haven, CT

**Professional Honors & Recognition:**

**International/National/Regional**

2007: Gilchrist Educational Trust Award for Excellence in Postgraduate Fieldwork

2007: Ruggles-Gates Award for Biological Anthropology

2007: Child Growth Foundation PhD Scholarship

**University**

2009: Loughborough University John Guest Phillips Travelling Scholarship

2015: Yale Women Faculty Forum Public Voices Fellowship

2016: Yale School of Public Health ‘Teacher of the Year’

**Grant/Clinical Trials History:**

**Current Grants**

Agency: National Institutes of Health (R01DK128277)

Title: “**An adolescent-mediated intervention to improve diabetes prevention and management**

**in Pacific Islander families**”

Role on Project: PI

Percent effort: 12%

Total costs for project period: $1,015,018

Project Period: 09/01/2021 – 08/31/2024

Agency: National Institutes of Health (R01DK128277-S1)

Title: “**An adolescent-mediated intervention to improve diabetes prevention and management**

**in Pacific Islander families**”(Diversity supplement to support doctoral student Mata’uitafa Faiai)

Role on Project: PI

Total costs for project period: $239,373

Project Period: 05/01/2022 – 04/30/2024

Agency: National Institutes of Health (R01HL130323)

Title: “**Behavioral and biological rhythms in children’s obesity-related health disparities ”**

PI: Chantelle Hart, Temple University

Role on Project: Co-Investigator

Percent effort: 10%

Total costs for project period: $178,014

Project Period: 09/01/2021 – 08/31/2026

Agency: Yale Institute for Global Health

Title: **2021 Hecht Global Health Faculty Networks Award**

Role on Project: Co-PI (with Evelyn Hsieh, Tracy Rabin, Jeremy Schwartz & Christine Nguiraya)

Total costs for project period: $50,000 (Research Funds Only)

Project Period: 09/01/2021 – 08/31/2023

Agency: National Institutes of Health (R01AG067533)

Title: “**Cognitive resilience among Older Samoans**”

PI: Becca Levy, Yale School of Public Health

Role on Project: Co-Investigator

Percent effort: 10%

Project Period: 04/01/2021 – 03/31/2026

Agency: Yale Institute for Global Health

Title: **2022 Global Health Spark Award: “Exploring mental health, mental illness, and resilience**

**among American Samoan adolescents”**

Role on Project: PI

Total costs for project period: $10,000 (Research Funds Only)

Project Period: 05/01/2022 – 04/30/2023

Agency: National Institutes of Health (R01HL133040-S1)

Title: “**Examining genetic literacy and capacity for engagement in genetic research among**

**Pacific Islanders”**

Role on Project: Multiple PI with Ryan Minster, U Pittsburgh

Percent effort: 10%

Total costs for project period: $174,072

Project Period: 09/23/2020 – 03/31/2023

Agency: National Institutes of Health (NHLBI) (R01HL140570)

Title: **“Impact of the obesity-risk CREBRF p.Arg457Gln variant on energy expenditure,**

**intake, and substrate utilization in Samoans”**

PIs: Stephen McGarvey, Brown University; James DeLany, U Pittsburgh

Role on project: Co-Investigator

Percent effort: 20%

Total costs for project period: $1,098,483

Project Period: 02/15/2018 – 01/31/2023

Agency: Sigma Global Nursing Research Grant

Title: “**Genetic, socioenvironmental, and behavioral contributions to metabolomic profiles**

**and body composition in Samoan infants”**

PI: Lacey Heinsberg (postdoctoral mentee), U Pittsburgh

Role on project: Co-Investigator

Percent effort: Research Funds Only

Total costs for project period: $10,000

Project Period: 11/01/2021 – 05/30/2023

Agency: University of Pittsburgh Clinical and Translational Science Institute

Title: “**Pacific Islander participation in Genomic Research”**

PI: Ryan Minster & Andrea Durst, U Pittsburgh

Role on project: Co-Investigator

Percent effort: Research Funds Only

Total costs for project period: $30,000

Project Period: 5/11/2022 – 05/10/2023

*Training Grants (as primary mentor)*

Agency: National Institutes of Health (K99HD107030)

Title: “**Biobehavioral and environmental contributions to metabolomic profiles and early life body composition”**

PI: Lacey Heinsberg, U Pittsburgh

Role on Project: Co-Mentor

Total costs for project period: $1,076,868

Project Period: 07/01/2022 – 06/30/2027

Agency: National Institutes of Health (K01DK132514)

Title: “**Diabetes clinical outcomes associated with retention and engagement in care in Samoa (Diabetes CARE)”**

PI: Anna Rivara, YSPH

Role on Project: Primary Mentor

Total costs for project period: $722,507

Project Period: 09/01/2022 – 06/30/2027

**Grants Under Review**

Agency: National Institutes of Health

Title: “**Lipidomics and structural genomics of cardiometabolic health in Samoan adults”**

PI: Ryan Minster, University of Pittsburgh

Role on Project: Co-Investigator

Percent effort: 10%

Project Period: 04/01/2023 – 08/31/2027

Agency: National Institutes of Health

Title: “**Novel mechanisms of cardiovascular disease risk in Samoans”**

Role on Project: PI (Multiple PI with Erin Kershaw, U Pittsburgh)

Role on Project: Co-Investigator

Percent effort: 20%

Total costs for project period: $6,035,333

Project Period: 04/01/2023 – 08/31/2027

**Past Grants**

Agency: National Institutes of Health (NICHD) (R03HD093993)

Title: **“Development and assessment of population-specific fetal growth references”**

Role on Project: PI

Percent effort: 10%

Total costs for project period: $183,324

Project Period: 08/25/2018 – 07/31/2021

Agency: National Institutes of Health (NHLBI) (R01HL093093)

Title:  **“Integrated cellular, mouse and human research on a novel missense variant**

**influencing adiposity in Samoans”**

PI: Stephen McGarvey, Brown University

Role on project: Co-investigator

Percent effort: 18%

Total costs for project period: $935,772

Project Period: 07/01/2016 – 04/30/2021

Agency: Yale University (Hecht Global Health Award)

Title: **“Exploring self-care of hypertension and diabetes among patients in rural Uganda”**

PIs: Nicola Hawley, Jeremy Schwartz, Tracy Rabin, Evelyn Hsieh, Kasia Lipska, Christine

Ngaruiya , Yale School of Public Health, Yale Medical School

Percent effort: 0% (Research Funds Only)

Total costs for project period: $40,000

Project Period: 06/01/2018 – 12/31/2020

Agency: Australian Institute for Musculoskeletal Science (AIMSS)

Title: **“The role of physical activity on bone health among South Pacific Islander children**

**living in metropolitan/urban Australia vs. rural/peri-urban Samoa: a feasibility**

**study”**

PI: Rachel Duckham, Deakin University

Role on project: Co-Investigator

Percent effort: 0% (Research Funds Only)

Total costs for project period: AUD $15,000

Project Period: 11/01/2019 – 10/31/2020

Agency: Yale University, Macmillan Faculty Grant

Title: “**The infant gut microbiome: the missing link between genes and disease in Samoa?”**

Role on project: PI

Percent Effort: 0% (Research Funds Only)

Total costs for project period: $12,100

Project Period: 01/01/2020 – 11/30/2020

Agency: National Institutes of Health (NINR) (R21NR016352)

Title: “**Establishing the preliminary feasibility and efficacy of a group prenatal care**

**intervention to address maternal and child NCD risk in American Samoa”**

PI: Nicola Hawley

Percent effort: 20%

Total Costs for project period: $470,678

Project Period: 12/06/2016 – 11/30/2019

Agency: Northern Humboldt Union High School District

Title: **“Healthy Humboldt Student Support and Academic Enrichment Program”**

PI: Jack Bareilles

Role on project: Co-investigator

Percent effort: 15%

Total costs for project period: $29,999

Project Period: 01/01/2019 – 09/30/2019

Agency: Yale University (MacMillan Center Faculty Research Grant)

Title: **“Understanding body composition among Samoan infants: the role of ethnicity and the**

***CREBRF* gene variant”**

PI: Nicola Hawley

Percent effort: 0% (Research Funds Only)

Total costs for project period: $7,000

Project Period: 04/01/2018 – 05/31/2019

Agency: Yale University (Hecht Faculty Network Award)

Title: **“Creation of the Latin American Indigenous Health Network at Yale”**

PI: Nicola Hawley, Claudia Valeggia (Anthropology)

Percent effort: 0% (Research Funds Only)

Total costs for project period: $10,000

Project Period: 06/01/2018 – 05/31/2019

Agency: Family Larsson-Rosenquist Foundation

Title: **“Breastfeeding Friendly Country Index (BFCI) Initiative”**

PI: Rafael Perez-Escamilla

Role on project: Co-Investigator

Percent Effort: 10%

Total costs for project period: $77,235

Project Period: 03/01/2017 – 08/31/2018

Agency: Send Hope Not Flowers Foundation (Australia)

Title: “**Improving Awareness of Gestational Diabetes in American Samoa”**

PIs: Nicola Hawley, Bethel Muasau-Howard, MD, and Micah Van der Ryn, PhD

Percent Effort: 0% (Research Funds Only)

Total Costs for Project Period: $10,000

Project Period: 3/1/2016 – 12/28/2018

Agency: Yale University (Hecht-Albert Global Health Pilot Innovation Award)

Title: **“Evaluation of a Gestational Diabetes Intervention in American Samoa”**

PI: Nicola Hawley

Percent effort: 0% (Research Funds Only)

Total costs for project period: $5,000

Project Period: 05/01/2017 – 12/31/2018

Agency: American Association of Physical Anthropology   
I.D # Professional Development Grant   
Title: **“Growth of 0-5-year olds in Samoa: Co-existence of obesity & micronutrient**

**deficiency”**  
P.I.: Nicola Hawley   
Percent effort: 0% (Research Funds Only)  
Total costs for project period: $5,000  
Project period: 07/01/2011 – 06/30/2012

Agency: American Association of Physical Anthropology   
I.D # Professional Development Grant   
Title: **“Influence of infant growth on body size and blood pressure at 6/7 years”**  
P.I.: Nicola Hawley   
Percent effort: 0% (Research Funds Only)  
Total costs for project period: $5,000  
Project period: 07/01/2014 – 06/30/2015

Agency: Brown University   
I.D # Research Seed Grant   
Title: **“Rhode Island Child Obesogen Study Pilot Phase”**  
P.I.: Joe Braun, Ph.D., & Erika Werner, M.D.

Role on project: Co-investigator  
Percent effort: 0% (Research Funds Only)  
Total costs for project period: $80,000  
Project period: 07/01/2014 – 06/30/2017

Agency: National Institutes of Health (NIDDK)

ID #: 1 R56 DK 108661-01

Title: “**Meal time interactions and risk of obesity in toddlers”**

P.I.: Chantelle Hart, Ph.D.

Role on Project: Consultant

Project Period: 1/1/2016 – 31/12/2016

# Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

**International/National**

2022: International Society for the Study of Human Growth and Clinical Auxology (ISGA) Annual

Meeting, Vilinius, Lithuania: Growth, Body Composition, and Chronic Disease Risk among

Samoan Children: Lessons from the Ola Tuputupua’e (Growing Up) Cohort

2022: The Jackson Laboratory for Genomic Medicine, Farmington, CT: “Studying complex disease in

Samoa: lessons learned from a population isolate”

2019: Cohort Methods and Applications in Human Biology Meeting, Oxford, UK, “Cohort Profile: the

*Ola Tuputupua’e* (Growing Up) study, Samoa

2019: University of Pittsburgh, Pittsburgh, PA: “The OLaGA project: community engagement and public health implications”

2019: U.S. Department of Defense, Indonesian-Pacific Command, Honolulu, HI: “State of Health in Samoa”

2019: Department of Health, American Samoa: “Results of the STRONG group prenatal care study”

2019: Pacific Society for Reproductive Health, Port Moresby, Papua New Guinea: Three Day Advanced Research & Audit Workshop (facilitator)

2019: University of Arkansas School of Medical Sciences, AK: “Obesity and Diabetes in Samoa:

Biology, Behavior, and Novel Solutions”

2018: Hohenheim University, Stuttgart, Germany: “Nature or nurture? Cardiometabolic disease risk

in Samoans”

2018: Ministry of Health, Samoa: “Findings from the *Ola Tuputupua’e* Study: 2015 – Present”

2018: Loughborough University, UK: “Developing an evidence base for effective childhood obesity

intervention in Samoa”

2018: Dartmouth College, Hanover, NH: “Developing an evidence base for effective childhood

obesity intervention in Samoa”

2018: American Samoa Community College, American Samoa: “Obesity in Samoa: Current Status

and Novel Solutions”

2018: National University of Samoa, Samoa: “*OLaGA*” research in Samoa & American Samoa”

2018: Department of Health, American Samoa: Group prenatal care in American Samoa

2017: Deakin University, Melbourne, Australia: “The Samoan Obesity Epidemic: Globalization,

Culture & Thrifty Genes”

2016: Appalachian State University, Boone, NC: “The Samoan Obesity Epidemic: Globalization,

Culture & Thrifty Genes”

2016: AANHPI Diabetes Coalition Conference, San Francisco, CA: “The need for Pacific Islander-

specific research and clinical practice related to pregnancy and postpartum health”

2015: Society for Applied Anthropology, 75th Annual Meeting, Pittsburgh, PA: “Family matters:

Exploring cultural values and practices for raising healthy children”

2015: Temple University Guest Lecture, Philadelphia, PA: “The role of infant feeding in rapid infant weight gain”

2015: Temple University, Center for Obesity Research Seminar Series, Philadelphia, PA: “Early origins of obesity in Samoans”

2015: Pacific Society for Reproductive Health, Suva, Fiji: Three Day Advanced Research Workshop (facilitator)

**Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:**

**International/National**

*Presenting Author*

2020: American Association of Physical Anthropology Annual Meeting (online), “Ethics of

engagement with genetic research”

2019: Developmental Origins of Health and Disease World Congress, Melbourne, Australia, “A group

prenatal care intervention improves maternal pregnancy outcomes among overweight/obese

American Samoan women: the STRONG study

2019: American Public Health Association, Philadelphia, PA, “Feasibility, acceptability, and

preliminary efficacy of a group prenatal care intervention designed to reduce risk of poor

perinatal outcomes among overweight/obese American Samoan women”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Feasibility, acceptability, and

efficacy of a group prenatal care to prevent poor maternal pregnancy outcomes in American

Samoa”

2018: The Obesity Society Annual Meeting, Nashville, TN, “Poor BMI/body composition agreement

has implications for obesity assessment among Samoan children”

2017: Gathering for Pacific Islander Health, Honolulu, HI, “*Ola Tuputupa’e*: The ‘Growing Up’

Study, Samoa”.

2017: Human Biology Association Annual Meeting, New Orleans, LA, “Identifying the optimal

anthropometric indicators for cardiometabolic disease screening in Samoans”

2016: Human Biology Association & Japan Society for Physiological Anthropology Joint Meeting,

Hilo, USA, “Secular trends in infant growth in American Samoa and their consequences for

health and development”

2016: Pacific Islander Health Gathering, Arkansas, USA, “Pregnancy and the immediate post-partum

period as an opportune time for childhood obesity intervention in Samoans”

2015: 9th World Congress on the Developmental Origins of Health and Disease, Cape Town, South

Africa, “To what extent do secular trends toward obesogenic infant growth trajectories reflect

changes in feeding practices in American Samoa?”

2015: 9th World Congress on the Developmental Origins of Health and Disease, Cape Town, South

Africa, “Maternal preferences for infant body size are associated with feeding practices and

infant obesity among American Samoans”

2015: 11th Pacific Society for Reproductive Health Meeting, Suva, Fiji, “Patient-reported content and

quality of prenatal care in American Samoa”

2015: Society for Applied Anthropology Annual Meeting, Pittsburgh, PA, “Infant body size

preferences and feeding practices among American Samoan mothers”.

2015: Human Biology Association Annual Meeting, St. Louis, MO, “Associations of infant feeding

behavior and appetite with infant weight status in American Samoans”.

2014: International Pacific Health Conference, Auckland, New Zealand, “Infant Feeding Practices

among American Samoan Mothers: The American Samoa Infant Feeding Study”.

2013: Pacific Society for Reproductive Health Biennial Conference, Apia, Samoa, “Barriers to

adequate prenatal care utilization in American Samoa”.

2013: Pacific Society for Reproductive Health Biennial Conference, Apia, Samoa, “Investing in the

future: the importance of promoting pregnancy health to prevent childhood NCDs”

2013: Human Biology Association Annual Meeting, Knoxville, TN, “The contribution of feeding

mode to obesogenic growth trajectories in American Samoan infants”

2012: National Osteoporosis Foundation of South Africa, 15th Annual Congress, Cape Town, South

Africa, “Sex and ethnic differences in skeletal maturation during adolescence”

2011: Human Biology Association Annual Meeting, Minneapolis, MN, “Beyond urban-rural

differences: the need for community-level interventions to address obesity and diabetes in

Samoa” [poster]

2011: American Association of Physical Anthropology Annual Meeting, Minneapolis, MN,

“Continuing trends toward obesity, diabetes and hypertension in Samoa: the role of nutritional

transition”

2009: Society for the Study of Human Biology Annual Meeting, Rome, Italy, “Determinants of

skeletal age deviation in South African children”

2009: European Anthropological Association Annual Meeting, Odense, Denmark, “Secular trends in

skeletal maturity in South Africa: 1962-2001”.

2009: Society for the Study of Human Biology Proffered Papers Meeting, Oxford, UK, ““Secular

trends in skeletal maturity in South Africa: 1962-2001”.

*Senior Author*

2022: Society for Perinatal Epidemiology Research Annual Meeting, Chicago, IL, “Global prevalence of

preterm birth among Pacific Islanders: a systematic review and meta-analysis”

2022: Human Biology Association Annual Meeting, Denver, CO, “Socioeconomic status, appetite traits,

and infant body size in Samoa”

2022: Human Biology Association Annual Meeting, Denver, CO, “Postpartum maternal nutrition and

infant growth outcomes in Samoan mother-infant dyads at 2-4 months”

2021: International Society of Nurses in Genetics (online), “Exploration of the *CREBRF* obesity-risk

variant in Samoan infants using untargeted metabolomics analysis and pathway discovery”

2021: Emory School of Nursing Metabolomics Conference (online), “Metabolomic profiles of 4-month

old Samoan infants by *CREBRF* obesity-risk allele status: a pilot study of dried blood spots”

2020: American Society of Human Genetics Annual Meeting (online), “Association of a missense

variant in *CREBRF* with type 2 diabetes and fasting glucose in a longitudinal Samoan cohort”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “Understanding sleep patterns as

a risk factor for cardiometabolic disease: Soifua Manuia (Good Health) study in Samoa”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “Inflammation, adiposity, and

cardiovascular disease risk in adult Samoans in the Soifua Manuia study”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “Anemia status among Samoan

preschool aged children: a longitudinal study”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “Using anthropometrics to

estimate body composition against the DXA standard in Samoan children”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “Feasibility of thermal imaging

Samoan infants to measure brown adipose tissue activity”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “Predictors of obesity, stunting,

and anemia risk among Samoan children between 2 and 8 years of age”

2020: Human Biology Association Annual Meeting, Los Angeles, CA, “A missense variant in

CREBRF, rs373863828, is associated with fat-free mass, not fat mass in Samoan infants”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Understanding the risk factors for

gestational diabetes and associated pregnancy outcomes in Samoan women”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Knowledge is sometimes power:

the differential role of hypertension notification and human biology research in adult Samoans”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Changing body size perceptions

among Samoan adults: the view across a generation”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Samoan neonates may have

higher ponderal indexes compared to American neonates from Florida”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Effects of maternal nutrient

intake during 31-37 weeks gestation and CREBRF genotype on offspring body composition in

Samoa”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Barriers to a healthy childhood

diet: the role of maternal perceptions surrounding food healthiness, social status, and cost”

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Do two-year dietary pattern

trajectories influence body mass index in early childhood? Results from the Ola Tuputupua’e

“Growing Up” cohort study.

2019: Human Biology Association Annual Meeting, Cleveland, OH, “Enumerator body size and

participant body perception: Soifua Manuia (Good Health) study in Samoa”

2019: Association for Research in Vision and Ophthalmology Annual Meeting, Vancouver, Canada,

“The Soifua Manuia telemedicine eye screening program in a high-risk population of Samoans

with diabetes”

2018: American Society for Bone and Mineral Research, Montreal, Canada, “The influence of maternal

diet on offspring skeletal acquisition at birth among Samoan infants”

2018: Human Biology Association Annual Meeting, Austin, TX, “High body fat mass in Samoan

newborns as possible indication of developmental origins of obesity”

2018: Human Biology Association Annual Meeting, Austin, TX, “The *Ola Tuputupua’e* “Growing Up”

study in Samoa: double burden of malnutrition among 4-7 year old children”

2018: Consortium of Universities for Global Health Annual meeting, New York City, NY, “The *Ola*

*Tuputupua’e* ‘Growing Up’ study in Samoa: overweight/obesity and undernutrition among 4-7

year old children”

2018: American Academy of Health Behavior Annual meeting, Portland, OR, “Prediabetes and

diabetes prevention: a mixed-methods study of attitudes and behaviors of young women in a

low-income, majority Hispanic community”

2017: Society for Epidemiologic Research Annual Meeting, Seattle, WA “Maternal preference for

infant size impacts feeding behaviors in American Samoa”

2016: Harvard Forum on Population Health Equity, Boston, MA, “Predictors of prenatal care

satisfaction among pregnant women in American Samoa” (*Poster Travel Award*)

2016: Human Biology Association Annual Meeting, Atlanta, GA, “Use of pesticides and herbicides

linked to higher BMI in Samoan mothers”

2016: Human Biology Association Annual Meeting, Atlanta, GA, “Co-existence of anemia,

overweight, and obesity among 2-5 year old children in Samoa”

2016: Human Biology Association Annual Meeting, Atlanta, GA. “Exploring the relationship between

Physical activity, sedentary behaviors, and BMI in Samoan children aged 2-5” (*Poster Prize*)

*Co-Author*

2022: Human Biology Association Annual Meeting, Denver, CO, “Redefining metabolic health: the

effects of BAT activity on fasting glucose levels and risk of diabetes in Samoans”

2022: American Association of Biological Anthropology, Denver, CO, “When the cold gets under your

skin: the effects and role of brown adipose tissue activity in Polynesians”

2021: American Society of Human Genetics Annual Meeting (online), “Genetic variation in LIPC,

MGAT1, and APOA1 is associated with longitudinal change in serum lipid levels in Samoan

adults”

2020: American Society of Human Genetics Annual Meeting (online), “Samoan genome-wide

association studies identify novel associations with blood pressure phenotypes”

2020: American Society of Human Genetics Annual Meeting (online), “Genome-wide association

study of height in Samoan individuals”

2020: American Society of Human Genetics Annual Meeting (online), “Genome-wide association study

of high vs. low risk of polycystic ovarian syndrome in Samoan women”

2020: American Society of Human Genetics Annual Meeting (online), “Genome-wide association study

of telomere length in individuals of Samoan ancestry”

2020: American Society of Human Genetics Annual Meeting (online), “The missense variant

rs373863828 in *CREBRF* plays a role in longitudinal changes in BMI across adulthood”

2019: American Public Health Association, Philadelphia, PA, “Barriers to prenatal care in a

Marshallese Pacific Islander community”

2019: 31st Annual Meeting of the Associated Professional Sleep Societies, Boston, MA, “Brief

behavioral intervention enhances children’s sleep and improves weight status”

2019: Society for Molecular Biology and Evolution Annual Meeting, Manchester, UK, “Recent

Samoan population history suggests dynamic population size changes and migrations”

2019: American Society for Human Genetics Annual Meeting, Houston, TX, “A large effect,

Polynesian-specific, stop-gained variant in *BTNL9* is associated with poorer lipid profile”

2019: American Society for Human Genetics Annual Meeting, Houston, TX, “A novel variant in CETP

is associated with higher HDL-cholesterol in people of Polynesian ancestry”

2019: American Society for Human Genetics Annual Meeting, Houston, TX, “A multivariate Bayesian

genetic association analysis of a *CREBRF* variant and adiposity-related phenotypes”

2019: American Society for Human Genetics, Annual Meeting, Houston, TX, “Evidence of natural

selection in Samoans is associated with BMI and the immune system”

2019: American Society for Human Genetics Annual Meeting, Houston, TX, “The utility of combining

*CREBRF* genotype with BMI to screen Samoans for type 2 diabetes”

2019: American Society for Human Genetics Annual Meeting, Houston, TX, “Identification of

susceptibility loci for reproductive traits in Samoan women”

2019: Sleep Research Society Annual Meeting, San Antonia, TX, “A behavioral intervention to

enhance sleep in school-aged children: moderation by child routines”

2018: The Obesity Society Annual Meeting, Nashville, TN, “Longitudinal adiposity change over 7-8

years and CREBRF p.Arg457Gln genotype among Samoans”

2018: American Society for Human Genetics, San Diego, CA, “Rare variation in and near CREBRF

and association with fasting glucose in non-Polynesian participants in the TOPMed Program”

2018: American Society for Human Genetics, San Diego, CA, “Genome-wide association study of type

2 diabetes phenotypes in Samoans”

2018: American Society for Human Genetics, San Diego, CA, “Creating population-specific reference

panels for improved genotype imputation”

2018: American Society for Human Genetics, San Diego, CA, “FTO in the Polynesians: Association of

FTO-rs9939609 with body mass index in a fixed-effect meta-analysis in people of Polynesian

Ancestry living in Aotearoa/New Zealand and other Pacific nations.

2017: Pacific Health Gathering, Honolulu, HI, “Development of a group prenatal care intervention to

limit gestational weight gain and increase breastfeeding in American Samoan women”

2017: American Society of Human Genetics Meeting, Orlando, FL, “Effects of the interaction between

a CREBRF missense variant and body mass index on type-2 diabetes risk in Samoans”

2017: American Society of Human Genetics Meeting, Orlando, FL, “A CREBRF missense mutation

substantially affects height in Samoans”

2017: Pacific Society for Reproductive Health Meeting, Vanuatu, “Dietary patterns are associated with

child, maternal, and household-level characteristics and overweight/obesity among young

Samoan children”

2017: American Academy of Sleep Medicine Annual Meeting, Boston, MA, “Sleep intervention

improves self-control in school-aged children”

2017: American Academy of Sleep Medicine Annual Meeting, Boston, MA, “Brief behavioral

intervention enhances children’s sleep and improves weight status”

2017: Society of General Internal Medicine Annual Meeting, Washington, DC, “Resident perspectives

of firm rounds: a qualitative study of a novel approach to the transition of patient care from

night teams to day teams”

2017: Society for Maternal Fetal Medicine Annual Meeting, Las Vegas, USA, “The association of

urinary flame retardant concentrations, gestational weight gain, and gestational diabetes”

2017: Human Biology Association Annual Meeting, New Orleans, LA, “Associations of thrifty

CREBRF variant with body fat distribution in Samoans”

2016: International Society for Environmental Epidemiology Annual Meeting, Rome, Italy,

“Variability and predictors of urinary concentrations of replacement flame retardants among

pregnant women”

2016: American College of Medical Genetics Annual Meeting, FL, “Novel SNPs associated with

preterm birth in a cohort of women of African descent” (*Top Poster Award*)

2016: Human Biology Association Annual Meeting, Atlanta, GA, “Is reproductive hormone function

compromised in obese Samoan men?”

2016: Experimental Biology Meeting, San Diego, CA. “Food label use improves dietary quality and

mediates improved glycemic control in Latinos with Type 2 diabetes: the DIALBEST trial”

2015: Human Biology Association Annual Meeting, St. Louis, MO, “Genome-wide association study

of Samoan women’s reproductive biomarkers”.

2014: American Society of Human Genetics Annual Meeting, San Diego, CA, “Comparison of GWAS

results from imputed and multiple anchor and partner genotyped SNPs in an isolated

population, Samoa” [poster]

2013: The Obesity Society Annual Meeting, Atlanta, GA, “Are DNA methylation patterns reversible

with successful weight loss maintenance?”

2013: American Society of Human Genetics Annual Meeting, Boston, MA, “A pilot study testing

DNA methylation profiles in Samoan obese and lean young adult males”

2013: American Society of Human Genetics Annual Meeting, Boston, MA, “Genome wide association

studies of lipids in Samoans.”

2013: Association of Professional Sleep Societies Annual Meeting, Balitmore, MD: “Decreases in

children’s sleep result in increased frequency of eating bouts and greater caloric consumption

later in the day”

2012: American Society of Human Genetics Annual Meeting, San Francisco, CA, “Genome wide

association study of body mass index in Samoans”

2011: Leadership Alliance National Symposium, Old Greenwich, CT, “A well-baby registry: what it

can tell us about breastfeeding patterns in American Samoa”

**Regional**

*Presenting Author*

2013: Brown University Department of Psychiatry and Human Behavior Research Day, Providence, RI, “The contribution of feeding mode to obesogenic growth trajectories in American Samoan infants”.

*Senior Author*

2022: Yale University Global Health Day, New Haven, CT, “There’s still broken or fragmented systems and sometimes that can be harmful to the child”: Qualitative assessment of stakeholder identified needs to strengthen adolescent mental health”

2022: Yale University Global Health Day, New Haven, CT, “Prediction of fat mass from anthropometry at ages 7 to 9 years in Samoans: a cross-scetional study in the Ola Tuputupua’e cohort”

2022: Yale University Global Health Day, New Haven, CT, “Risk difference of preterm birth between Pacific Islander and White women in the US and New Zealand: a systematic review and meta-analysis”

*Co-Author*

2012: The Miriam Hospital Annual Research Day, Providence, RI, “A comparison of the nutritional composition of school vs. brown bag lunches” [poster]

**Professional Service**

**Peer Review Groups/Grant Study Sections:**

2022 Ad Hoc Reviewer, NIH Lifestyle Change and Behavioral Health Study Section

Ad Hoc Reviewer, NIH CTSA Small Grant Program

2021 Ad Hoc Reviewer, NIH NIDDK Centers for Diabetes Translation Research Program

2017 - Reviewer, NIH Building University Infrastructure Leading to Diversity EXITO Program

(*training program for underrepresented minority institutions, faculty, and students*)

2017 - Reviewer, Health Research Board, Ireland

(*the Health Research Board is the lead funding agency for health research in Ireland*)

2014 - Member, Population & Systems Medicine Review Group, UK Medical Research Council (*UK NIH equivalent*)

**Scientific Advisory Committee:**

2012 – 2014 Member, Biospecimens Committee Lifestyle Interventions for Expectant Moms (LIFE-Moms) (NHLBI, NIDDK, NICHD, NCCAM)

*U01 collaborative grant funding 7 trials across the US, all determining the effectiveness of interventions to promote appropriate gestational weight gain*

2017-Present Member, Household Water InSecurity Experiences (HWISE) Research Coordination Network

2022-Present Member, Pacific Rim Climate and Health Equity Network

**Journal Service:**

Section Editor

2015 – present Pacific Journal of Reproductive Health

Editorial Board Member2015-present Annals of Human Biology

2021-present PLoS Global Public Health

Reviewer  
2008-present Ad hoc reviewer for *Obesity, Pediatrics, Social Science and Medicine, Annals of Human Biology, American Journal of Physical Anthropology, American Journal of Human Biology, Public Health Nutrition, Maternal Fetal and Neonatal Medicine, Bulletin of the World Health Organization, Maternal and Child Health, Plos ONE, BMC Pregnancy and Childbirth, BMC Public Health, Hawaii Journal of Medicine and Public Health, Women and Birth, Journal of the Developmental Origins of Health and Disease, British Medical Journal*

**Professional Service for Professional Organizations:**

***Developmental Origins of Health and Disease World Congress***

2019. Member, Program Committee

***Human Biology Association***

2016 - 2018 Member, Program Committee

2019 - Member, Publications Committee

**Yale University Service:**

***Yale School of Public Health Committees***

2014-present Member, Downs Fellowship Committee

2014- present Member, Global Health Faculty Advisory Committee

2017- present Reviewer, Fellowships for Research in Global Health Studies

2018- present Member, Stolwijk Fellowship Committee

2020 - present Reviewer, Hecht Global Health Faculty Network Awards

**Brown University Service:**

2011-2014 Member, Brown University Undergraduate Research and Teaching Award Review Group

**Bibliography: (**underlining indicates student/trainee co-authors; bolding of a consortium name indicates inclusion as a key consortium co-author**)**

**Peer-Reviewed Original Research**

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2. **Hawley, N.L.**, Rousham, E.K., Norris, S.A., Pettifor, J.M. & Cameron, N. (2009) *Secular trends in skeletal maturity in South Africa: 1962-2001*. Annals of Human Biology 36 (5): 584-594
3. Cameron, N. & **Hawley N.L.** (2010) *Should the UK use WHO growth charts?* Paediatrics and Child Health 20 (4): 151-156
4. **Hawley, N.L.**, Menard, H., Agha, G. & McGarvey, S.T. (2010) *Preliminary blood lipid, lipoprotein, and glucose findings from the genome-wide study of adiposity in Samoans.* Samoa Medical Journal 2: 11-16
5. Cash, H., McGarvey, S.T., Housemann, E.A., Marsit, C.J., **Hawley, N.L.**, Lambert-Messerlian, G.M., Viali, S., Tuitele, J. & Kelsey, K.T. (2011) *Cardiovascular disease risk factors and DNA methylation at the LINE-1 repeat region in peripheral blood from Samoan Islanders*. Epigenetics 6 (10): 1257-1264
6. **Hawley, N.L.**, Weir, L.M., Viali, S., Tuitele, J. & McGarvey, S.T. (2012) *Modernization and cardiometabolic risk in Samoan adolescents.* American Journal of Human Biology 24 (4): 551-557
7. Seiden, A., **Hawley, N.L.**, Schulz, D., Raifman & S., McGarvey, S.T. (2012) *Long term trends in food availability, food prices, and obesity in Samoa.* American Journal of Human Biology 24 (3): 286-295
8. **Hawley, N.L.**, Rousham, E.K., Norris, S.A., Pettifor, J.M. & Cameron, N. (2012). *Determinants of relative skeletal maturity in South African children*. Bone 50 (1): 259-264
9. **Hawley, N.L.,** Brown, C., Nu’usolia, O., Ah-Ching, J., Muasau-Howard, B. & McGarvey, S.T. (2014) *Barriers to adequate prenatal care utilization in American Samoa.* Maternal and Child Health 18 (10): 2284-2292.
10. **Hawley, N.L.**, Johnson, W.O., Nu’usolia, O. & McGarvey, S.T. (2014). *The contribution of feeding mode to obesogenic growth trajectories in American Samoan infants.* Pediatric Obesity 9 (1): e1-e13.
11. **Hawley, N.L.,** Minster, R.L., Weeks, D.E., Viali, S., Reupena, M.S., Deka, R., & McGarvey, S.T. (2014). *Genome-wide association study of adiposity in Samoans: Prevalence of non-communicable disease and associated risk factors.* American Journal of Human Biology 26: 491-501.
12. Buhule, O.D., Minster, R.L., **Hawley, N.L.**, Medvedovic, M., Guangyun, S., Hong, C., Viali, S., Deka, R., McGarvey, S.T. & Weeks, D.E. (2014). *Batch effects in 450K methylation analysis: a cautionary tale.* Frontiers in Epigenetics and Epigenomics 5: 354.
13. Cole, T.J., Rousham, E.K., **Hawley, N.L.,** Cameron, N., Norris, S.A., & Pettifor, J.M. (2015). *Ethnic and sex differences in skeletal maturation among the Birth to Twenty cohort in South Africa*. Archives of Disease in Childhood 100: 1380143.
14. **Hawley, N.L.,** Johnson, W.O., Hart, C.N., Triche, E.W., Muasau-Howard, B., & McGarvey, S.T. (2015). *Gestational weight gain among Samoan women and its impact on delivery and infant outcomes.* BMC Pregnancy and Childbirth 15: 10-17.
15. **Hawley, N.L.** & McGarvey, S.T. (2015) *Obesity and Diabetes in Pacific Islanders: The current burden and the need for urgent action.* Current Diabetes Reports 15 (5): 594.
16. Huang, Y., Maccani, J.Z.J., **Hawley, N.L.**, Wing, R.R., Kelsey, K.T. & McCaffery, J.M. (2015) *Epigenetic patterns in successful weight loss maintainers*: *a pilot study*. International Journal of Obesity 39 (5): 865-868
17. **Hawley, N.L.,** Holmdahl, I., Strait, E.A., Freeman, J.R., Muasau-Howard, B.T., Solaita, A. & McGarvey S.T. (2015) *Hospital practices and concerns about infant satiety are barriers to exclusive breastfeeding in American Samoa*. Pacific Journal of Reproductive Health 1 (1): 14-24.
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20. Hart, C.N., **Hawley, N.L.**, & Wing, R.R. (2016) *Development of a behavioral sleep intervention as a novel approach for pediatric obesity in school-aged children*. Pediatric Clinics of North America 63 (3): 511-523.
21. Maredia, H., Lambert-Messerlian, G., Palomaki, G.E., Viali, S., **Hawley, N.L.**, & McGarvey, S.T. (2016) *Cutoff levels for hyperandrogenemia among Samoan women: an improved methodology for deriving normative data in an obese population* Clinical Biochemistry 49 (10-11): 782-786.
22. Minster R.L.\*, **Hawley N.L**.\*, Su, C., Sun, G., Kershaw E.E., Chen, H., Buhule, O.D., Lin, J., Reupena, M.S., Naseri, T., Urban, Z., Deka, R., Weeks, D.E. & McGarvey, S.T. (2016) *A thrifty variant in CREBRF strongly influences body mass index in Samoans*. Nature Genetics 48 (9): 1049-54.\***Co-First Authors**.
23. Hart, C.N., **Hawley, N.L.**, & Wing, R.R. (2016) *Development of a behavioral sleep intervention as a novel approach for pediatric obesity in school-aged children*. Sleep Medicine Clinics 11 (4): 515-523.
24. Kollanoor-Samuel, G., Shebl, F.M., **Hawley, N.L.** & Perez-Escamilla, R. (2016). *Nutrition facts panel use is associated with higher diet quality and lower glycosylated hemoglobin levels in US adults with undiagnosed prediabetes.* American Journal of Clinical Nutrition 104 (6): 1639-1646.
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63. **Hawley. N.L.,** Pomer, A., Rivara, A.C., Rosenthal, S.L., Duckham R.L., Carlson, J.C., Naseri, T., Reupena, M.S., Selu, M., Lupematisilia, V., Unasa, F., Vesi, L., Fatu, T., Unasa, S., Faasalele-Savusa, K., Wetzel, A., Soti-Ulberg, C., Prescott, A., Siufaga, G., Penaia, C., To, S., LaMonica, L., Lameko, V., Choy, C.C., Crouter, S., Redline, S., Deka, R., Kershaw, E.E., Urban, Z., Minster, R.L., Weeks, D.E., McGarvey, S.T. (2020) *Exploring the paradoxical relationship of a CREBRF missense variant with body mass index and diabetes among Samoans: study protocol for the Soifua Manuia (‘Good Health’) observational cohort study*. JMIR Research Protocols 9 (7): e17329.
64. Harris, D.N., Kessler, M.D., Shetty, A.C., Weeks, D.E., Minster, R.L., Browning, S., Cochrane, E.E., Deka, R., **Hawley, N.L**., Reupena, M.S., Naseri, T., Trans-Omics for Precision Medicine Consortium, TOPMed Population Genetics Working Group, McGarvey, S.T., O’Conner, T.D. (2020) *Evolutionary history of modern Samoans*. Proceedings of the National Academy of Sciences 117 (17): 9458-9465.
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**Chapters, Books, and Reviews**

1. Hart, C.N., **Hawley, N.L.**, Kuhl, E. & Jelalian, E. (2013) *Weight Control and Obesity*. In: Wolfson, A., Montgomery-Downs, H. (eds.), The Oxford Handbook of Infant, Child, and Adolescent Sleep: Development and Problems, Oxford Press: NY
2. **Hawley, N.L.** & Gorrepati, P.L. (2017). *Breastfeeding and Body Size*. In: Tomori, C., Loscalzo Palmquist, A. & Quinn, E.A. (eds.), Anthropology and Breastfeeding, Routledge: UK.

**Invited Editorials**

1. **Hawley NL.** (2017).*The growing threat of non-communicable diseases to pregnancy health*. Pacific Journal of Reproductive Health 1 (4): 150-153.
2. **Hawley, N.L** & McGarvey, S.T. (2018). *Human Biology of the Pacific*. Annals of Human Biology 45 (3): 171-174.

**Technical Reports**

1. Osornprasop, S., **Hawley, N.L**., Krahn, J. Samoa Food and Tobacco Tax Household Survey 2020. Washington, D.C.: World Bank Group. <http://documents.worldbank.org/curated/en/099455008172237049/P1537780170a150ac0bbf60fb2a6bab6936>
2. Krahn, J., Osornprasop, S., **Hawley N.L.** Opportunities to maximize the effectiveness of food and tobacco tax to help address Samoa’s NCD crisis. Washington, D.C: World Bank Group. <http://documents.worldbank.org/curated/en/099455108172230367/P15377802f248606409e230b48bda60b256>

**Publications with the NHLBI Trans-Omics for Precision Medicine Consortium (Banner Authorship)**

1. Natarajan, P., Peloso, G.M., Zekavat, S.M., Montasser, M., Ganna, A. et al. (2018). *Deep-coverage whole genome sequences and blood lipids among 16,324 individuals*. Nature Communications 9 (1): 3391.
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6. Bick, A.G., Weinstock, J.S., Nandakumar, S.K., Fulco, C.P., Bao E.L., et al. (2020). *Inherited causes of clonal haematopoiesis in 97,691 whole genomes*. Nature 586 (7831): 763-768.
7. Reiner, A.P., Raffield, L.M., Franceschini, N., Auer, P., Lange, E.M., et al. (2020). *Effect of sickle cell trait and APOL1 genotype on the association of soluble uPAR with kidney function measures in blacks*. Clinical Journal of the American Society for Nephrology (online ahead of print).
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9. Taliun, D., Harris, D.N., Kessler, M.D., Carlson, J., Szpiech, Z.A., et al. (2021). *Sequencing of 53,831 diverse genomes from the NHLBI TOPMed Program*. Nature 590 (7845): 290-299.
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13. Luo Y, Kanai M, Choi W, Li X, Sakauae S, et al. (2021). *A high-resolution HLA reference panel capturing global population diversity enables multi-ancestry fine-mapping in HIV host response.* Nature Genetics 53 (10): 1504-1516.
14. Cade, B.E., Lee, J., Sofer, T., Wang, H., Zhang, M., et al. (2021) *Whole-genome association analyses of sleep disordered breathing phenotypes in the NHLBI TOPMed Program.* Genome Medicine 13 (1): 136.
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20. Tahir, U., Katz, D.H., Avila-Pachecho, J., Bick, A.G., Pampana, A., et al (2022) *Whole genome association study of the plasma metabolome identifies metabolites linked to cardiometabolic disease in Black individuals*. Nature Communications 13 (1):4923.
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**Public Engagement**

December 2015: Rising obesity threatens global progress on maternal health [Women’s E News]

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Hough, R Kaylesubula & the PATH Coalition) [Medium]

<https://medium.com/@coalition4ncds/ncd-medicines-and-products-not-just-resource-limited-but->

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