**HCHS/SOL Participant-Facing Ancillary Studies** 

	STUDY RESEARCH AREA PI AND FUNDING						
1	AIR #2018.21	Neighborhood air quality and diabetes	Kaufman, R01ES030994				
2	ASTHMA #2019.06	Lifestyle and environmental factors influencing asthma and lung function	Celedon and Isasi, R01HL152475				
3	C4R #2020.03	Predictors of disease severity and long- term health effects of COVID-19	Oelsner and Barr subaward to Thomas and Nolen, 1OT2HL156812				
4	CAC #2017.32	Coronary artery calcium, plaque density, and coronary remodeling	Daviglus, Budoff, Gallo, and Hou, R01HL152692				
5	CASAS #2014.09	Micro and macro neighborhood built environment and cardiometabolic health	Allison and Gallo, R01DK106209				
6	CASITAS #2015.20	Psychosocial and ecological correlates of women's sedentary behavior	Castañeda, Sotres-Alvarez, and Allison, 16SFRN27940007				
7	COMPASS #2015.12	Cardiometabolic Outcomes, physical activity & sedentary behavior	Mossavar-Rahmani, Kaplan, Ramachandran, R01HL136266				
8	DAMAS #2019.13	Lifestyle and genetic factors on mammographic density	Lindstroem, R01CA255082				
9	ECHO-SOL 1 and 2 #2009.04 #2014.13	Cardiac structure and function	Rodriguez, R01HL104199				
10	ECHO-SOL 3 #2018.17	Cardiac structure/function	Rodriguez, R01HL158156				
11	FLOR #2014.07	Preconceptional health and child adiposity (3-9yrs)	Sotres-Alvarez and Siega-Riz, R01DK116028				
12	GOLD 1 and 2 #2013.08	Microbiome and diabetes	Kaplan, Burk and Knight, R01MD011389				
13	GOLD 3 #2020.08	Microbiome and diabetes	Kaplan, Burk, Kizer & Price, R01DK134672				
14	HOUSING MOBILITY #2017.05	Health implications of housing instability management	Chambers, R03 HL140265				
15	INCA #2013.07	Cognitive impairment, Alzheimer's disease, and vascular dementia	Gonzalez and Fornage, RF1AG061022				
16	INCA 2	Biomarkers of Alzheimer's disease	Gonzalez and DeCarli, R01AG075758				
17	INCA-MRI #2016.02	Vascular risk factors on brain health	DeCarli and Gonzalez, RF1AG054548				
18	MYOSTEATOSIS #2019.10	Arterial stiffness and cardiac structure and function	Allison and Miljkovic, R01HL152790				
19	NAFLD #2017.30	Nonalcoholic fatty liver disease and CVD	Kizer and Lima, R01HL144707				
20	OCULAR #201103	Ocular Healthcare Utilization and Risk	Lee, IU58DP002652				
21	OJOS #2015.22	Chronic eye disease	Joslin and Lee, UG1EY030410				
22	PASOS #2017.31	Physical activity and peripheral arterial disease	Kaplan and Matsushita, R01HL146132				
23	PWV #2017.21	Arterial stiffness and neurocognitive function	Meyer, R01AG061088				
24	RHYTHM #2021.01	Arrhythmias and vascular cognitive impairment	Chen, Gonzalez and Matsushita, RF1NS127266				
25	SANAR #2018.08	Obstructive sleep apnea and vascular brain injury and mild cognitive impairment	Ramos, R01AG067568				
26	SGM #2018.22	Sexual orientation, gender identity, stigma/discrimination, stress and CVD	Perreira and Poteat, R01HL149778				
27	SOCIOCULTURAL #2008.02	Socieconomic, sociocultural, and psychosocial factors contribute to CVD	Gallo and Penedo, RC2HL101649				
28	SOLNAS #2008.03	Nutrition and physical activity validation study	Mossavar-Rahmani, R01HL095856				
29	SUEÑO #2008.08	Sleep habits and the effects of heart disease and related disorders	Sanjay, R01HL098297				
30	VIDA #2018.05	Sedentary patterns and CVD risk factors	Carlson, R01HL148463				
31	YOUTH #2008.05	Sociocultural factors and child obesity (8-16yrs)	Bangdiwala, Ayala, Delamater, Eckfeldt, Himes, Isasi & Perreira, R01HL102130				

## HCHS/SOL NON-Participant-Facing Ancillary Studies

# RESEARCH AREA    Common SNPs influencing arrhythmogenic adverse drug reactions   Avery, AHA Project # 15CPSPG239		HOH5/50L NON-Farticipant-racing Anchiary Studies					
reactions   15c/PSPC329   Inflammatory mediators in the development of cardiometabolic risk factors and T2D   Cardiovascular Health Associations with Minority stress: Biobehavioral Evaluations and self-Reported Sociopsychological outcomes by SOGI status (CHAMBERS)   Beach, R01HL149866   Beach, R01HL148860   Beach, R01HL149866   Beach, R01HL149	#	RESEARCH AREA	PI AND FUNDING				
risk factors and T2D  Cardiovascular Health Associations with Minority stress: Blobehavioral Evaluations and self-Reported Sociopsychological outcomes by SOGI status (CHAMBERS)  Hispanic Latino Lipid Consortium  Reighborhood Greenness and Cardiometabolic Health  Ro1HL151867  Neighborhood Greenness and Cardiometabolic Health  Pylori Infection and asthma  Camargo, NCI intramural funding  Toward Accurate Cardiovascular Disease Prediction in Hispanics/Latinos  Toward Accurate Cardiovascular Disease Prediction in Hispanics/Latinos  Multi-omics study of ancestry enriched associations in Hispanics/Latinos  Genetics of kidney disease in diverse populations  Franceschini, R01HL17455  Leveraging ancestry to map kidney loci  WGS and metabolomics that influence individual metabolite levels  Neurocognitive aging, MCI and Alzheimer's disease DNA methylation among diverse Latinos  Pasterna and Risk of Cardiovascular Disease  Heiss, U01HG004803  Dietary Patterns and Risk of Cardiovascular Disease  Heiss, U01HG004803  The role of stroke risk factors in the prevalence of stroke symptoms among Hispanics/Latinos  Pastgene tube collection for whole blood RNA expression studies  Pastgene tube collection for whole blood RNA expression studies  Ro1HL160625  Statistical Methods for Network-based Integrative Analysis of Microbiome Data  Fibrobast Growth Factor 23 and Sleep Disordered Breathing  Meta, AHA funding  Meta, AH	1						
Biobehavioral Evaluations and self-Reported Sociopsychological outcomes by SOGI status (CHAMBERS)  4 Hispanic Latino Lipid Consortium  5 Neighborhood Greenness and Cardiometabolic Health  6 H Pytori Infection and asthma  7 Community-Based Evaluation of Sudden Cardiac Death in Hispanics/Latinos  8 Toward Accurate Cardiovascular Disease Prediction in Hispanics/Latinos: Modeling Risk and Resilience Factors  9 Multi-omics study of ancestry enriched associations in Hispanics/Latinos  10 Genetics of kidney disease in diverse populations  11 Leveraging ancestry to map kidney loci  12 W/GS and metabolomics that influence individual metabolite levels  13 Neurocognitive aging, MCI and Alzheimer's disease DNA methylation among diverse Latinos  14 Associations of genetic variants with complex diseases  15 Dietary Patterns and Risk of Cardiovascular Disease  16 Early and life course socioeconomic adversity and dementia risk in Hispanics/Latinos  17 The role of stroke risk factors in the prevalence of stroke symptoms among Hispanic/Latinox Adults  18 Paxgene tube collection for whole blood RNA expression studies  19 Culturally relevant contributors to cognitive and MRI changes in older Latinos  10 The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino Children: PACE5  19 Genomic contributions to FVIII and VWF levels, and identify new genomic loci  20 Genetic Epidemiology Causal Variants Across the Life Course  30 Fibroblast Growth Factor 23 and Sleep Disordered Breathing  40 Microbiorne Data  41 Associations between body fat and incidence of 13 obesity-	2		Avery, R01HL147853				
R01HL151867	3	Biobehavioral Evaluations and self-Reported Sociopsychological	Beach, R01HL149866				
R01HL148880 6 H Pylori Infection and asthma Camargo, NCI intramural funding Chugh, R01HL145675  R10ward Accurate Cardiovascular Disease Prediction in Hispanics/Latinos: Modeling Risk and Resilience Factors  Multi-omics study of ancestry enriched associations in Hispanics/Latinos: Modeling Risk and Resilience Factors  Multi-omics study of ancestry enriched associations in Hispanics/Latinos: Modeling Risk and Resilience Factors  Multi-omics study of ancestry enriched associations in Hispanics/Latinos Genetics of kidney disease in diverse populations Franceschini, R01DK117445  Leveraging ancestry to map kidney loci Franceschini, R01DK117445  WGS and metabolomics that influence individual metabolite levels  Neurocognitive aging, MCI and Alzheimer's disease DNA Rethylation among diverse Latinos  Associations of genetic variants with complex diseases Heiss, U01Hg004803  Heiss, U01Hg004803  Hispanics/Latinos  The role of stroke risk factors in the prevalence of stroke symptoms among Hispanic/Latinx Adults  Paxgene tube collection for whole blood RNA expression studies Paxgene tube collection for whole blood RNA expression studies  Paxgene tube collection for whole blood RNA expression studies The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino Children: PACE5  Chronic Inflammation and Type 2 Diabetes: A Multi-omics Approach  The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino Children: PACE5  Chronic Inflammation and Type 2 Diabetes: A Multi-omics Approach  The effect of intergenerational education on cognitive outcomes for and among Latinos in the United States  Genomic contributions to FVIII and VWF levels, and identify new genomic loci Genetic Epidemiology Causal Variants Across the Life Course  Associations between body fat and incidence of 13 obesity-	4	Hispanic Latino Lipid Consortium					
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Leveraging ancestry to map kidney loci   Franceschini, R01MD012765	9	Hispanics/Latinos	R56HG013163				
12 WGS and metabolomics that influence individual metabolite levels  13 Neurocognitive aging, MCI and Alzheimer's disease DNA methylation among diverse Latinos  14 Associations of genetic variants with complex diseases  15 Dietary Patterns and Risk of Cardiovascular Disease  16 Early and life course socioeconomic adversity and dementia risk in Hispanics/Latinos  17 The role of stroke risk factors in the prevalence of stroke symptoms among Hispanic/Latinx Adults  18 Paxgene tube collection for whole blood RNA expression studies  19 Culturally relevant contributors to cognitive and Brain older Latinos  20 The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino Children: PACE5  21 Chronic Inflammation and Type 2 Diabetes: A Multi-omics Approach  22 Statistical Methods for Network-based Integrative Analysis of Microbiome Data  23 Fibroblast Growth Factor 23 and Sleep Disordered Breathing for and among Latinos in the United States  25 Genomic contributions to FVIII and VWF levels, and identify new genomic loci  27 Microbiome Multi-Omics and Cognitive Decline in Latinos  28 Associations between body fat and incidence of 13 obesity-	10	Genetics of kidney disease in diverse populations	Franceschini, R01DK117445				
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<ul> <li>Early and life course socioeconomic adversity and dementia risk in Hispanics/Latinos</li> <li>The role of stroke risk factors in the prevalence of stroke symptoms among Hispanic/Latinx Adults</li> <li>Paxgene tube collection for whole blood RNA expression studies</li> <li>Culturally relevant contributors to cognitive and MRI changes in older Latinos</li> <li>The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino Children: PACE5</li> <li>Chronic Inflammation and Type 2 Diabetes: A Multi-omics Approach</li> <li>Statistical Methods for Network-based Integrative Analysis of Microbiome Data</li> <li>Fibroblast Growth Factor 23 and Sleep Disordered Breathing</li> <li>Fibroblast Growth Factor 23 and Sleep Disordered Breathing</li> <li>Genomic contributions to FVIII and VWF levels, and identify new genomic loci</li> <li>Genetic Epidemiology Causal Variants Across the Life Course</li> <li>Microbiome Multi-Omics and Cognitive Decline in Latinos</li> <li>Palacions and Tucker, RF1AG075922</li> <li>Associations between body fat and incidence of 13 obesity-</li> </ul>	14	Associations of genetic variants with complex diseases	Heiss, U01HG004803				
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older Latinos  The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino Children: PACE5  Chronic Inflammation and Type 2 Diabetes: A Multi-omics Approach  Li, R00DK122128  Li, R00DK122128  Li, R00DK122128  Approach  Li, R00DK122128  Ma, R01GM145772  Microbiome Data  Statistical Methods for Network-based Integrative Analysis of Microbiome Data  Fibroblast Growth Factor 23 and Sleep Disordered Breathing  The effect of intergenerational education on cognitive outcomes for and among Latinos in the United States  Genomic contributions to FVIII and VWF levels, and identify new genomic loci  Genetic Epidemiology Causal Variants Across the Life Course  North  Microbiome Multi-Omics and Cognitive Decline in Latinos  Palacions and Tucker, RF1AG075922  Associations between body fat and incidence of 13 obesity-  Parada, SDSU internal funding	18	Paxgene tube collection for whole blood RNA expression studies	Kaplan, internal funding				
Development in Latino Children: PACE5  Chronic Inflammation and Type 2 Diabetes: A Multi-omics Approach  Li, R00DK122128  Ma, R01GM145772  Ma, R01GM145772  Ma, R01GM145772  Meta, AHA funding  Mehta, AHA funding  Meya, F31AG071111  Meza, F31AG071111  Genomic contributions to FVIII and VWF levels, and identify new genomic loci  Genetic Epidemiology Causal Variants Across the Life Course  Morrison, De Vries and Smith, R01HL139553  Morth  Morrison, De Vries and Smith, R01HL139553  Morth  Palacions and Tucker, RF1AG075922  Associations between body fat and incidence of 13 obesity-  Parada, SDSU internal funding	19		Lamar, R01AG062711				
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The effect of intergenerational education on cognitive outcomes for and among Latinos in the United States  Senomic contributions to FVIII and VWF levels, and identify new genomic loci  Genetic Epidemiology Causal Variants Across the Life Course  Meza, F31AG071111  Morrison, De Vries and Smith, R01HL139553  North  Microbiome Multi-Omics and Cognitive Decline in Latinos  Palacions and Tucker, RF1AG075922  Associations between body fat and incidence of 13 obesity-  Parada, SDSU internal funding	23	Fibroblast Growth Factor 23 and Sleep Disordered Breathing	Mehta, AHA funding				
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28 Associations between body fat and incidence of 13 obesity- Parada, SDSU internal funding	27						
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#	RESEARCH AREA	PI AND FUNDING
29	Tobacco-related biomarkers, nicotine metabolism, and genetic ancestry associations	Pérez-Stable, NIMHD intramural funding
30	Persistent organic pollutants, endogenous hormones and diabetes	Persky, R01ES025159
31	CHARGE consortium: omics discovery for CVD and aging phenotypes	PSATY, R01HL105756
32	Metabolomics signatures underlying diet, lifestyle and gut microbiota for diabetes	Qi, R01DK119268
33	A Multi-Ancestry Study of Gene-Lifestyle Interactions and Multi-Omics in Cardiometabolic Traits	Rao, R01HL156991
34	Lipids, Apolipoproteins and Lp(a) and CVD	Rodriguez and Joshi, funded by Amgen Inc/Make Well Known Foundation
35	Combining information from multiple circadian activity rhythm metrics to optimally detect mild cognitive impairment using a consumer wearable	Smagula, R21AG074094
36	Using polygenic risk scores and omics to study how suboptimal sleep accelerates cognitive aging in diverse populations	Sofer, R01AG080598
37	Leveraging omics data to understand sleep health and its consequences among diverse Hispanics/Latinos	Sofer, R01HL161012
38	Social Stress, Epigenetics and Cardiometabolic Health of Youth	Suglia and Isasi, R01MD015204
39	Social Stress, Epigenetics and Cardio-Metabolic Health	Suglia, R01MD013320
40	Human Gut Microbiome and Incident Diabetes Risk in U.S. Populations	Sun and Qi, R01DK126698
41	Food-based biomarkers, diet quality, and cardiometabolic health	Sun, R01DK120870
42	Application of predictive biomarkers of sugars and animal protein intake for investigation of dietary measurement error and its effect on diet-disease associations	Tasevska, U01CA197902
43	Genetic predictors of insulin resistance, insulin clearance, beta cell function, and T2DM	Wagenknecht and Watanabe, R01DK085175
44	Mediterranean Diet, Polyphenol-Rich Foods, Gut Microbiota and Type 2 Diabetes	Wang, R00DK119412
45	Dissecting heterogeneity of excessive daytime sleepiness and impact on cardiovascular diseases	Wang, R01HL153814
46	The Epidemiology and Somatic Genomic Pathogenesis of Radon-Related Stroke	Whitsel, R01ES034050
47	Genetic Architecture of Cardiac Structure and Function and Its Impact on Heart Failure	Yu and Ramachandran, R01HL160793
48	Metabolic Signatures Underlying Cardiac Function for Heart Failure in Multi-Ethnic Populations	Yu, R01HL141824
49	Molecular Determinants of Atherosclerotic Cardiovascular Disease in Multi-ethnic Populations	Yu, R01HL168683
50	Perfluoroalkyl Substances (PFASs) and Liver Cancer Risk	Zhang, U01CA259208
51	Socioenvironmental exposome, aging and risk of diabetes	Zhao, R01DK137254
52	Perfluoroalkyl substances and risk of kidney cancer in US men and women	Zheng and Lipworth, R01ES034014